

Environmental Report on Latte Creek Placer Lease IW00496

September 28th, 2018

To Whom It May Concern,

This report and all supplementary appendices are submitted in accordance with the Placer Mining Act to fulfill the requirement for reporting on representation work completed on the placer lease in question for the year October 2, 2017 to October 2, 2018.

Questions regarding this report or any of its contents can be directed to Jasmin Dobson, Environmental Superintendent of the Goldcorp Coffee Gold Project.



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Latte Creek Placer Lease Environmental Report - Grant # IW00496

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OCTOBER 2017 – AUGUST 2018**

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1 INTRODUCTION

Goldcorp Inc. holds a placer prospecting lease on Latte Creek (Grant ID: IW00496), a tributary of Coffee Creek which flows into the Yukon River. Significant environmental work has been undertaken in Latte Creek and the surrounding area over the past few years related to quartz mining exploration and mine development for the Coffee Gold project. Such work includes fish and fish habitat surveys, water quality monitoring, and wildlife studies. This report aims to summarize the general knowledge base and present results from work completed within the vicinity of the Latte Creek placer claim lease.

1.1 STUDY AREA

The Latte Creek placer lease is located in the Whitehorse Mining District, approximately 135 km South South-East of Dawson City, Yukon. It is located within the traditional territory of the Tr'ondëk Hwëch'in First Nation and the asserted traditional territory of the White River First Nation. Latte Creek flows eastward into Coffee Creek, which then flows into the Yukon River. Latte Creek flows into Coffee Creek approximately 8.4 km upstream of the Coffee Creek and Yukon River confluence (Figure 1). The placer lease includes approximately 8.0 km of the Latte Creek drainage, beginning at the confluence with Coffee Creek and extending upstream. Latte Creek is a moderately sized creek with an average channel width of 4.97 m, and an average gradient of 2.98 % (from 0 - 12 %) in the area immediately upstream of the placer lease.

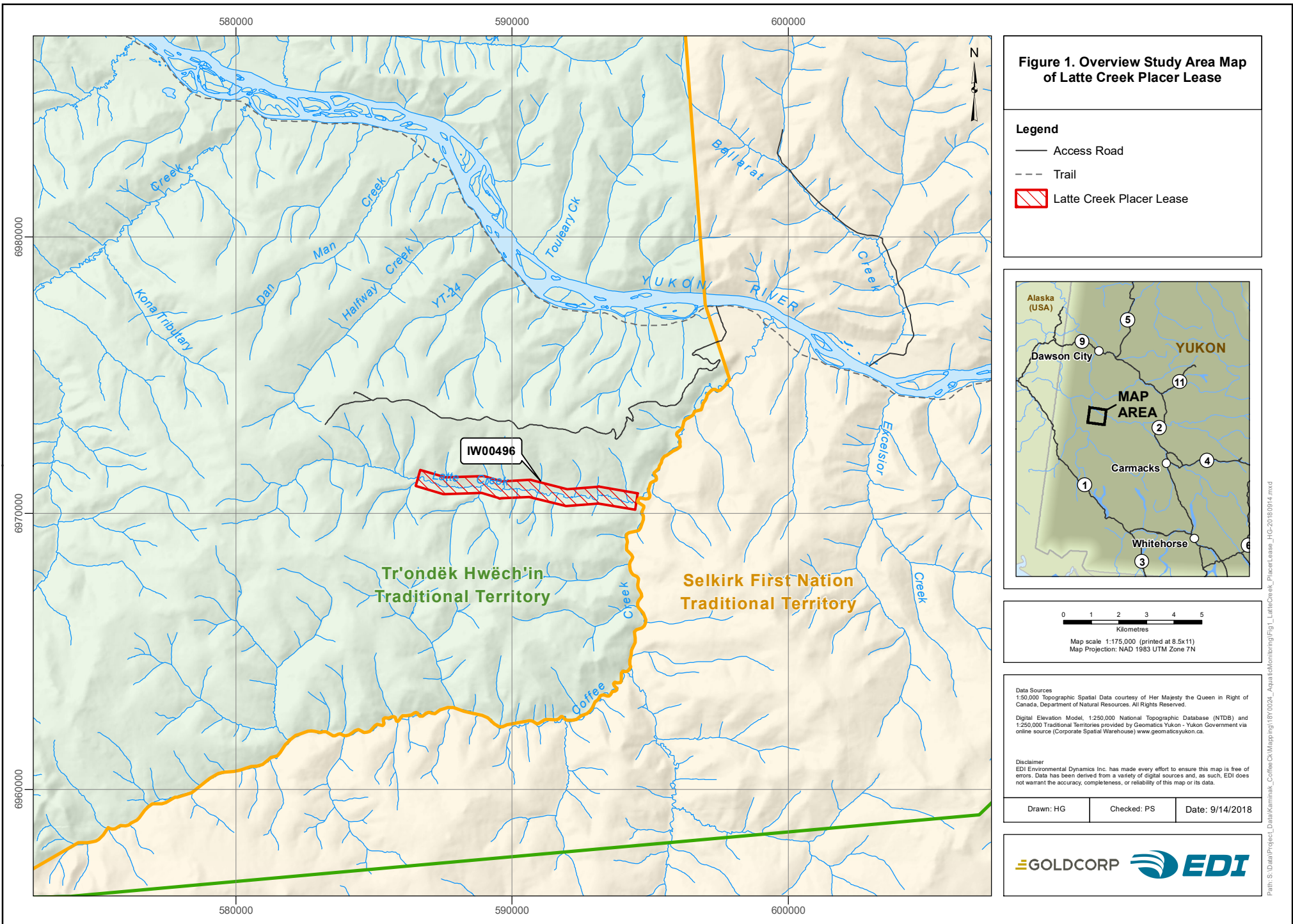



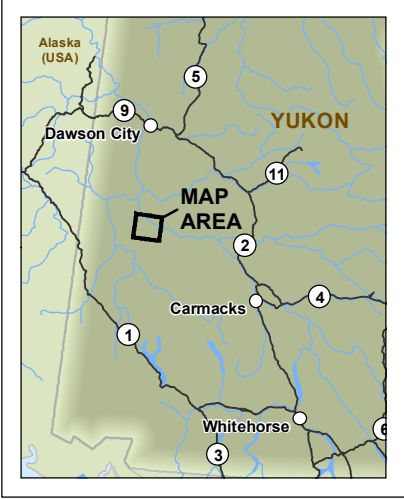


Figure 1. Overview Study Area Map of Latte Creek Placer Lease

Legend

-  Access Road
-  Trail
-  Latte Creek Placer Lease



0 1 2 3 4 5
Kilometres

Map scale: 1:175,000 (printed at 8.5x11)
Map Projection: NAD 1983 UTM Zone 7N

Data Sources
1:50,000 Topographic Spatial Data courtesy of Her Majesty the Queen in Right of Canada, Department of Natural Resources. All Rights Reserved.

Digital Elevation Model, 1:250,000 National Topographic Database (NTDB) and 1:250,000 Traditional Territories provided by Geomatics Yukon - Yukon Government via online source (Corporate Spatial Warehouse) www.geomatics.yukon.ca.

Disclaimer
EDI Environmental Dynamics Inc. has made every effort to ensure this map is free of errors. Data has been derived from a variety of digital sources and, as such, EDI does not warrant the accuracy, completeness, or reliability of this map or its data.

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2 METHODS

Extensive work has been completed on Latte Creek in recent years. This report includes field survey results for Latte Creek from 2018 monitoring, as well as a review of findings from previous years sampling for fisheries, water quality, terrestrial vegetation, and wildlife studies.

2.1 FISHERIES

2.1.1 REVIEW OF PAST FISHERIES INFORMATION

Past fish related studies completed on Halfway Creek were reviewed for information and summarized. This includes sampling effort, capture data and fish distribution within the placer claims and areas downstream that could be affected by placer activity (i.e. through changes in water quality, flows etc.). The fish and fish habitat related reports reviewed are outlined in Table 1.

Table 1. Summary of available information sources for fish and fish habitat in the Latte Creek drainage.

Year	Data Summary	Agency	Report References
2017	Triple pass electrofishing at site LC2.7 to estimate fish population density.	EDI Environmental Dynamics (EDI)	EDI 2017
2016	Winter: fish and fish habitat assessments, environmental DNA (eDNA) sampling for Arctic grayling and Chinook salmon and benthic invertebrate sampling for analysis of baseline metal levels. Summer/fall: chlorophyll-a sampling, metals analysis of invertebrates and fish tissue.	EDI Environmental Dynamics (EDI)	EDI 2016
2014, 2015	Fish and aquatic resources baseline report for the Coffee Project, including data on fish and fish habitat, benthic invertebrates, periphyton and stream sediments. Includes fish tissue sampling data.	Palmer Environmental Consulting Group (PECG)	PECG 2017
2013	Preliminary fish and fish habitat assessment for the Coffee Project baseline, including surveys of fish abundance, distribution and size/weight data.	Access Consulting Group (ACG)	ACG 2014

2.1.2 2018 HABITAT ASSESSMENT AND FISH SAMPLING

During 2018 monitoring, a Fish Habitat Assessment Procedure (FHAP) survey was conducted August 10, 2018 on a 662 m section of Latte Creek (Figure 2). The objective of the FHAP survey is to describe the characteristics and frequency of different types of available fish habitat by enumerating different habitat units (pool, riffle, glide), and measuring various parameters (e.g., average depth, width, length, etc.). A detailed methodology is outlined in the Fish Habitat Assessment Procedures guide (Johnston and Slaney 1996). The length of habitat units was measured using a laser range finder where as wetted widths and bank-full widths were measured with a measuring tape.

Outside of the habitat assessment, no fish sampling was conducted in Latte Creek in 2018.

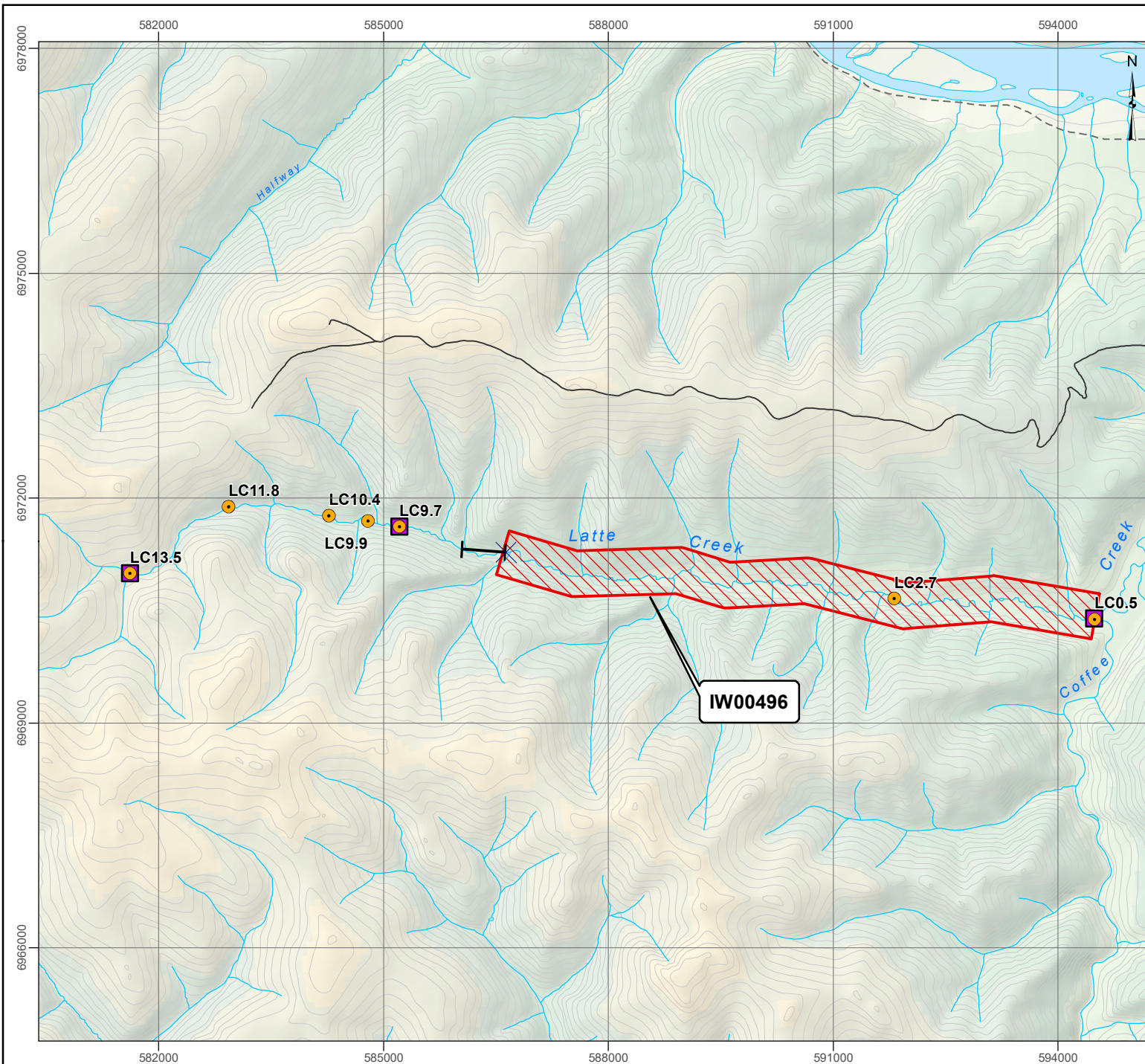
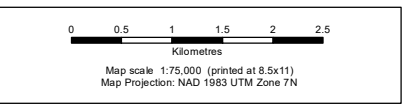
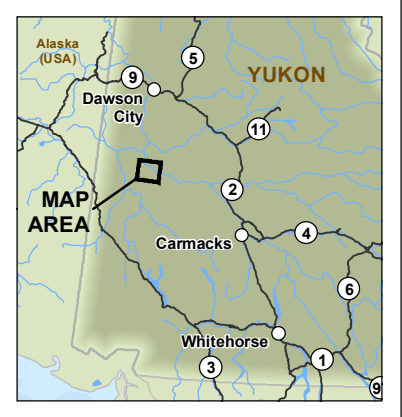


Figure 2. Fish sampling locations and water quality sites on Latte Creek

Legend

- Fish Sampling Sites
- Water Quality Monitoring Sites
- Fish Habitat Assessment Procedure Survey
- Access Road
- Trail
- Latte Creek Placer Lease



Data Sources
 1:50,000 Topographic Spatial Data courtesy of Her Majesty the Queen in Right of Canada, Department of Natural Resources. All Rights Reserved.
 Digital Elevation Model and 1:250,000 National Topographic Database (NTDB) provided by Geomatics Yukon - Yukon Government via online source (Corporate Spatial Warehouse) www.geomatics.yukon.ca.
 Project data displayed is site specific. Data collected by EDI (2017) was obtained using Garmin GPS technology.
 Disclaimer
 EDI Environmental Dynamics Inc. has made every effort to ensure this map is free of errors. Data has been derived from a variety of digital sources and, as such, EDI does not warrant the accuracy, completeness, or reliability of this map or its data.

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2.2 WATER QUALITY

Water quality data was collected monthly by Goldcorp staff and consultants at three sites on Latte Creek, LC0.5, LC9.7, and LC13.5 (Figure 2). Site LC0.5 is located approximately 50 m upstream from the confluence of Latte Creek and Coffee Creek, within the Latte Creek placer lease. Water quality monitoring sites LC9.7 and LC13.5 are located outside the placer lease, approximately one and four kilometers, respectively upstream on Latte Creek. Both sites LC9.7 and LC13.5 are within another, different placer prospecting lease (Grant Number: IW00587), owned by Wildwood Exploration Inc. Available information on water quality in Latte Creek is listed in Table 2.

Table 2. Summary of available information sources for water quality in the Latte Creek drainage.

Year	Data Summary	Agency	Report References
2018	Lab data from water quality sampling between October 2017 and August 2018	Goldcorp	Appendix A of this report
2010-2017	Water quality sampling results between October 2010 and December 2017	Lorax Environmental (Lorax)	Lorax 2018

2.3 TERRESTRIAL VEGETATION AND WILDLIFE

Existing information on terrestrial vegetation and wildlife was reviewed and summarized for the placer claim area (Table 3). No targeted vegetation or wildlife studies were undertaken on Latte Creek in 2018.



Table 3. Summary of available information sources for terrestrial vegetation and wildlife near Latte Creek.

Year	Data Summary	Agency	Report References
2017	Field studies on birds and mammals in the Coffee Gold Project area, including Latte Creek. Specifically, methods and results of surveys for caribou, moose, thinhorn sheep, grizzly bears, raptors and other wildlife.	EDI Environmental Dynamics (EDI)	EDI 2018b
2014-2016	Bird baseline report for the Coffee Gold Project area, including Latte Creek. Includes methods and results of field surveys for raptors, waterfowl, game birds, passerines, and various other upland bird species, as well as habitat suitability modelling, and a review of existing information from Traditional Knowledge, regional studies, and other information sources.	EDI Environmental Dynamics (EDI)	EDI 2017b
2014-2016	Vegetation baseline report for the Coffee Gold Project, including the upper sections of Latte Creek. Describes the local vegetation communities, as well as the methods and results of specific vegetation surveys for rare plants, invasive plants, and trace metals.	EDI Environmental Dynamics (EDI)	EDI 2017e
2010-2016	Wildlife baseline report for the Coffee Gold Project, including the Latte Creek area. Includes summary of results of field surveys, habitat modelling, and a review of existing information from Traditional Knowledge, regional studies, and other information sources.	EDI Environmental Dynamics (EDI)	EDI 2017c
2014-2016	Methods and results of field studies on mammals in the Coffee Gold Project area, including Latte Creek. Specifically, surveys for caribou, moose, thinhorn sheep, grizzly bears, wolves, wolverine and other furbearers, bats, collared pika, and other small mammals.	EDI Environmental Dynamics (EDI)	EDI 2017d



3 RESULTS AND DISCUSSION

3.1 FISHERIES

3.1.1 PAST FISHERIES INFORMATION

Existing fish information available for Latte Creek mainly relates to baseline investigations associated with the Coffee Gold Project. Table 4 summarizes existing fish capture information available for Latte Creek, and Figure 2 shows the site of sampling locations along Latte Creek in relation to the Latte Creek placer lease. Both Arctic grayling (*Thymallus arcticus*) and slimy sculpin (*Cottus cognatus*) have been captured in Latte Creek near the confluence of Latte Creek and Coffee Creek (within 50 m; Table 4). Only Arctic grayling have been documented in Latte Creek upstream of the confluence (Table 4).

Arctic grayling have been consistently documented in the lower 3 km of Latte Creek (Table 4; Figure 2). No Arctic grayling have been captured during previous sampling upstream of sampling location LC2.7; however, one adult grayling was observed at sampling location LC9.9 during summer 2015 monitoring. Latte Creek is only used by Arctic grayling during the open water season as rearing habitat. This is supported by multiple years sampling data that has captured only adult or sub adult Arctic grayling in Latte Creek in the summer, and winter eDNA sampling which did not detect the presence of Arctic grayling in the winter (EDI 2016, 2017).



Table 4. Baseline fish sampling and capture data in Latte Creek from 2014 to 2017, ordered by sampling site from downstream to upstream-most site (open water season only).

Sampling Site	Sample Date	Sampling Methods	Total Sampling Effort	Fish Captured
LC0.5 ^a	July 2015	Minnow Trapping	240 trap hours	Slimy sculpin (1)
LC0.5 ^a	June 2015	Electrofishing	1,839 seconds	Arctic grayling (5) Slimy sculpin (3)
LC0.5 ^a	July 2015	Electrofishing	1,309 seconds	Arctic grayling (1) Slimy sculpin (1)
LC0.5 ^a	Sept 2015	Electrofishing	1,100 seconds	Arctic grayling (1) Slimy sculpin (1)
LC0.5 ^a	Oct 2014	Fyke Netting	25.8 trap hours	Slimy sculpin (7) Arctic grayling (1)
LC0.5 ^a	Sept 2015	Minnow Trapping	110.4 trap hours	None
LC2.7	Aug 2014	Minnow Trapping	118.4 trap hours	None
LC2.7	Aug 2014	Electrofishing	2,898 seconds	Arctic grayling (20)
LC2.7	June 2015	Electrofishing	1,278 seconds	Arctic grayling (11)
LC2.7	July 2015	Electrofishing	3,151 seconds	Arctic grayling (39)
LC2.7	July 2016	Electrofishing	3,108 seconds	Arctic grayling (7)
LC2.7	Aug 2017	Electrofishing	4,653 seconds	Arctic Grayling (21)
LC9.9	June 2015	Electrofishing	870 seconds	None
LC9.9	July 2015	Electrofishing	854 seconds	None
LC9.9	July 2016	Minnow Trapping	216 trap hours	None
LC10.4	Aug 2014	Minnow Trapping	58 trap hours	No fish captured
LC11.8	Aug 2014	Minnow Trapping	55 trap hours	No fish captured
LC11.8	June 2015	Electrofishing	768 seconds	No fish captured
LC11.8	July 2015	Electrofishing	835 seconds	No fish captured

^aNote while the number of each sampling site is supposed to reflect the distance upstream from mouth in kilometres, Site LC0.5 is incorrectly labelled and is located 50 m upstream of the mouth with Coffee Creek.

3.1.2 2018 FISH HABITAT ASSESSMENT PROCEDURE

During 2018 monitoring, a Fish Habitat Assessment Procedure (FHAP) survey was conducted on a 662 m section of mid Latte Creek. Twenty-one distinct habitat units were identified during the survey (Table 5). Habitat units identified included cascades (Photos 1 & 2), glides (Photos 3 & 4), pools (Photos 5 & 6), riffles (< 5% grade) (Photos 7 & 8), and steep riffles (≥ 5% grade) (Photos 9 & 10).

The surveyed section of Latte Creek is dominated by riffle and steep riffle habitat which comprise 77 % and 16 % of surveyed habitat units by length, respectively (Table 5). On average, two riffles and one steep riffle habitat unit occur every 100 m length of Latte Creek. Instream boulders and cobbles were the dominant source of cover for fish in these habitats. There are relatively few cascades, glides, and pools, which occur at



frequencies of 0.2, 0.4, and 0.6 habitat units every 100 m length of Latte Creek, and together comprise the remaining 7 % of habitat units by length. The frequency and extent of habitat units in this section of Latte Creek represents relatively low-quality fish habitat with a low frequency of pool and glide habitat units in the surveyed area (Figure 2). Note past studies have documented higher quality habitat in the lower section of Latte Creek (i.e. LC2.7; EDI 2016).

Table 5. Summary of habitat units identified during August 2018 FHAP survey of Latte Creek.

Habitat	Number of Units	Average Length (m)	Total Length (m)
Cascades	1	3.1	3.1
Glides	2	11.0	22.0
Pools	3	7.0	20.9
Riffles (<5% grade)	10	51.2	511.6
Steep Riffles (≥ 5% grade)	5	20.9	104.3
Total	21	31.5	661.9

3.2 WATER QUALITY

Water quality information on Latte Creek has been collected since October 2010 and continues to be collected. From a water chemistry perspective Latte Creek can be split between upper Latte Creek, with water chemistry characteristics dominated by surface runoff, and mid to lower Latte Creek, with water chemistry influenced by both surface water runoff, and groundwater discharge (Lorax 2018). The lower Latte Creek water quality monitoring site lies within the Latte Creek placer lease (Figure 2). Because the mid Latte Creek water quality monitoring site lies immediately upstream of the placer lease, parameters from samples collected at this and the lower water quality monitoring site likely represent the range of water quality parameters found within the Latte Creek placer lease. Only results from mid to lower Latte Creek are discussed below given their proximity to the placer lease.

Latte Creek is characterized by soft water (<90 mg/L CaCO₃) and low levels of major ions during summer freshet, high flow periods, and very hard water (114 - >400 mg/L CaCO₃) during winter low flow periods. For most parameters, mean monthly concentrations of total and dissolved trace elements are low (e.g., arsenic, antimony, cobalt, chromium, lead, mercury, nickel, selenium, and zinc) and generally fall below the CCME guidelines for the protection of aquatic life. Dissolved aluminum is consistently observed to be elevated well above BCMOE guidelines for the protection of aquatic life, with peak concentrations corresponding to high flow periods. Similarly, concentrations of total copper peak during periods of high flow, and sometimes exceed associated guidelines (CCME 2007). In comparison, total uranium concentrations are generally elevated during winter low-flow periods (20 – 35 ug/L) and are consistently well above CCME guidelines. These high uranium conditions typically extend from November to April (Lorax 2018). The pH in mid and lower Latte Creek remains relatively uniform throughout the year with



values generally ranging between 7.0 and 8.0 (Lorax 2018). Unlike dissolved ions, higher concentrations of Total Suspended Solids (TSS) in Latte Creek coincide with peak snowmelt months or during intense summer rainfall events; at most other flow periods of the year, TSS values are generally below 3.0 mg/L (Lorax 2018). Nutrient parameters are generally found in low concentrations in mid and lower Latte Creek (Lorax 2018). Lab data for October 2017 through August 2018 is presented in Appendix A.

3.3 TERRESTRIAL VEGETATION AND WILDLIFE

Latte Creek is located within the Klondike Plateau Ecoregion of the Boreal Cordillera Ecozone and is located within the Boreal Low (BOL) bioclimate zone. The Boreal Low zone occupies broad to narrow valley bottoms along the Yukon River and its tributaries and is characterized by continuous, closed-to-open coniferous and mixed forest. Extensive studies on wildlife and wildlife habitat have been conducted as part of the nearby Coffee Gold Project, many of which overlap the Latte Creek area. Based on these studies, a variety of species are expected to occur in the placer claim area.

The valley bottom and adjacent slopes of Latte Creek contain heavily forested habitats, with vegetation patterns that reflect the discontinuous distribution of permafrost throughout the region. Ecological and Landscape Classification (ELC) mapping was completed for the Coffee Gold Project between 2014 and 2016, and although this mapping did not overlap directly with the placer claim area, the general habitats described there can be found on Latte Creek (EDI 2017e). The dry, south-facing slopes north of Latte Creek support deciduous and mixed forests dominated by trembling aspen (*Populus tremuloides*) and white spruce (*Picea glauca*); while on the opposite side of the valley, the cold, north-facing slopes are dominated by stunted black spruce (*Picea mariana*) forests on areas with near-surface permafrost, and coniferous or mixed forests dominated by white spruce, black spruce, and/or Alaska birch (*Betula neoalaskana*). Valley bottom habitats generally consist of white spruce-dominated riparian forest, willow-dominated shrubby riparian communities, and shrubby or treed fen habitats.

The claim area is situated within Game Management Subzone 5-03, and Registered Trapping Concession 115. Game Management Areas are legal boundaries used to manage Yukon wildlife species and are made up of Game Management Zones (GMZ), that are further divided into Game management Subzones (GMS), and similarly, Registered Trapping Concessions (RTCs) are legal boundaries that define trapping areas for furbearing animals. The management of big game species, furbearers, hunting and trapping within GMS and RTCs is the responsibility of Environment Yukon.

The Latte Creek placer claim does not overlap with any wildlife key areas (WKAs), however, moose (*Alces americanus*) are expected to use habitats throughout Latte Creek drainage. The placer claim also overlaps with the seasonal range of two caribou herds (*Rangifer tarandus*): the Fortymile Caribou Herd which may be present during the winter some years, and the Klaza Caribou Herd which may occur in small numbers during the spring, summer and fall seasons. However, both herds typically concentrate in areas with abundant terrestrial lichen habitat, often at higher elevations, and are unlikely to be found extensively in the lower elevation areas of Latte Creek. Mule deer (*Odocoileus hemionus*) and thinhorn sheep (*Ovis dalli*) have also



been documented in the region (EDI 2017c, 2017d) but are unlikely to use the claim area, due to the absence of suitable habitats.

A variety of large and small carnivores are also expected to occur in the claim area. Grizzly bears (*Ursus arctos*) are known to use a variety of habitats throughout the region, including those present at Latte Creek, but densities in the area are considered low. Detailed information on black bear (*Ursus americanus*) and grey wolf (*Canis lupus*) populations are unknown but both are considered to be healthy and both species may occur in the claim area. Wolverine (*Gulo gulo*) also have potential to occur in the claim area, but in low densities (EDI 2017c). Several other high-value furbearing species can be found in the area including Canada lynx (*Lynx canadensis*), American marten (*Martes americana*), red fox (*Vulpes vulpes*), American mink (*Neovision vison*), ermine (*Mustela erminea*), and least weasel (*Mustela nivalis*) (EDI 2017c, 2017d). Small mammals may include red squirrel (*Tamiascurus hudsonicus*), northern flying squirrel (*Glaucomys sabrinus*), snowshoe hare (*Lepus americanus*), little brown bat (*Myotis lucifugus*) and several species of mice, voles, and shrews (EDI 2017c).

The forested habitats of Latte Creek likely provide habitat for a number of raptor species, including several species of hawks and owls, as well as a variety of upland bird species, including game birds (grouse, ptarmigan), woodpeckers, and passerines (songbirds). Shorebirds may also be found along the stream margins and riparian areas of Latte Creek. Common upland bird species detected during breeding bird surveys in the boreal forest habitats around the nearby Coffee Gold Project included dark-eyed junco (*Junco hyemalis*), Swainson's thrush (*Catharus ustulatus*), white-winged crossbill (*Laxia leucoptera*), yellow-rumped warbler (*Setophaga coronata*), and American robin (*Turdus migratorius*) (EDI 2017a).

Several of the wildlife species that may be found within the Latte Creek drainage are considered species at risk in Canada (Table 6). The list includes species identified under the Canadian Species at Risk Act (SARA) or assessed as species of conservation concern by the Council on the Status of Endangered Wildlife in Canada (COSEWIC).



Table 6. Wildlife with conservation status that occur, or have the potential to occur, in the Latte Creek drainage¹

Common Name	Latin Name	SARA ²	COSEWIC ³
Woodland Caribou, Northern Mountain Population	<i>Rangifer tarandus caribou</i>	Special Concern	Woodland Caribou, Northern Mountain Population
Grizzly Bear	<i>Ursus arctos</i>	Special Concern (Schedule 1)	Special Concern (2012)
Wolverine	<i>Gulo gulo</i>	Special Concern (Schedule 1)	Special Concern (2014)
Little Brown Myotis	<i>Myotis lucifugus</i>	Endangered (Schedule 1)	Endangered (2013)
Common Nighthawk	<i>Chordeiles minor</i>	Threatened (Schedule 1)	Special Concern (2018)
Olive-sided Flycatcher	<i>Contopus cooperi</i>	Threatened (Schedule 1)	Special Concern (2018)

¹ Table contains only those species for which suitable habitats may be found within the Latte Creek drainage; additional species at risk may be found within the regional area surrounding Latte Creek.

² Species at Risk Act (SARA) Designation (ECCC 2018).

³ COSEWIC Designation with year last assessed (ECCC 2018).



4 CONCLUSIONS AND RECOMMENDATIONS?

Latte Creek is classified as a Moderate-Moderate to Moderate-Low stream with respect to fish habitat suitability by the Yukon Placer Secretariat. This classification is consistent with results from multiple years of fish sampling which have captured Arctic grayling in Latte Creek up to sampling site LC2.7 (Table 4). Juvenile Chinook salmon and slimy sculpin, which are caught in other streams in the area, have not been captured in the upper portion of Latte Creek during any previous sampling events. The area immediately upstream from the confluence of Latte Creek and Coffee Creek is classified as Moderate-High suitable fish habitat; however, juvenile Chinook have not been captured in this area¹ (Figure 2). Regardless, mining activities will have to ensure water quality in Latte Creek, and in Coffee Creek downstream of the confluence with Latte Creek (Moderate-High habitat) is protected accordingly.

Terrestrial habitats adjacent to Latte Creek support a variety of vegetation and wildlife species, most of which are common to west-central Yukon. Any placer activities along Latte Creek should minimize the clearing of vegetation along the creek in order to limit effects to local wildlife. Additionally, mining activities should be managed to ensure that operations do not pose a threat to the local wildlife. In particular, all attractants, including garbage, grey water and other putrescible waste, should be stored and disposed of in a manner that prevents access by bears and other wildlife, thereby limiting the potential for habituation. Employees and contractors working on the placer claim should be prohibited from harassing or feeding wildlife. And in the event that large numbers of the Fortymile Caribou Herd migrate into or through the placer claim area, all non-essential activities should cease until the caribou have moved off on their own accord.

The Latte Creek drainage supports a variety of migratory bird species, all of which are protected under the Migratory Birds Convention Act (MBCA, 1917); the MCBA prohibits the incidental take of migratory birds, their eggs, or active nests. To protect active nests, any clearing of vegetation within the placer claim should be done outside of the bird nesting season (May 1 to August 31). If clearing is required between May 1 and August 31, appropriate measures should be made to locate any active nests within the disturbance area, and all active nests should be protected with a no-disturbance buffer until the birds have left the nest of their own volition.

¹ Moderate-High habitat suitability watercourses are defined as watercourses that are highly suitable for rearing juvenile Chinook salmon (Yukon Placer Secretariat, 2018).



5 REFERENCES

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**APPENDIX A. LAB DATA: WATER SAMPLING
ON COFFEE, LATTE AND
HALFWAY CREEKS, OCTOBER
2017 – AUGUST 2018**

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Your Project #: Gold Corp Coffee Creek
 Site Location: COFFEE CREEK - SURFACE WATER
 Your C.O.C. #: 537490-01-01

Attention:David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
 2289 BURRARD STREET
 VANCOUVER, BC
 CANADA V6J 3H9

Report Date: 2017/10/16
 Report #: R2460831
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B787852

Received: 2017/10/06, 09:28

Sample Matrix: Water
 # Samples Received: 4

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Alkalinity - Low Level	4	2017/10/07	2017/10/07	BBY6SOP-00026	SM 22 2320 B m
Chloride - Low Level	4	N/A	2017/10/07	BBY6SOP-00011	SM 22 4500-Cl- E m
Cyanide WAD (weak acid dissociable)	4	N/A	2017/10/13	BBY6SOP-00004	SM 22 4500-CN O m
Carbon (DOC) - field filtered/preserved (1)	4	N/A	2017/10/10	BBY6SOP-00003	SM 22 5310 C m
Conductance - Low Level	4	2017/10/07	2017/10/07	BBY6SOP-00026	SM 22 2510 B m
Fluoride - Low Level	4	N/A	2017/10/11	BBY6SOP-00048	SM 22 4500-F C m
Hardness Total (calculated as CaCO3) (2)	4	N/A	2017/10/12	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3)	4	N/A	2017/10/12	BBY WI-00033	Auto Calc
Mercury (Dissolved-LowLevel) by CVAf	4	N/A	2017/10/12	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Total-LowLevel) by CVAf	4	2017/10/10	2017/10/10	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	4	N/A	2017/10/12	BBY7SOP-00002	EPA 6020B R2 m
Elements by ICPMS Low Level (dissolved)	4	N/A	2017/10/12	BBY7SOP-00002	EPA 6020B R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total)	4	N/A	2017/10/12	BBY7SOP-00003,	BCLM2005,EPA6020bR2m
Elements by ICPMS Low Level (total)	4	N/A	2017/10/12	BBY7SOP-00003,	BCLM2005,EPA6020bR2m
Ammonia-N Low Level (Preserved)	4	N/A	2017/10/10	BBY6SOP-00009	EPA 350.1 m
Nitrate+Nitrite (N) (low level)	4	N/A	2017/10/07	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrite (N) (low level)	4	N/A	2017/10/07	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrogen - Nitrate (as N) Low Level Calc	4	N/A	2017/10/12	BBY6SOP-00010	SM 22 4500-NO3- I m
ORP Analysis on Water by ARD LAB	4	N/A	2017/10/06	BBY0SOP-00004	SM 22 2580 B
Filter and HNO3 Preserve for Metals	4	N/A	2017/10/10	BBY7 WI-00004	BCMOE Reqs 08/14
pH Water (3)	4	2017/10/07	2017/10/07	BBY6SOP-00026	SM 22 4500-H+ B m
Sulphate - Low Level	4	N/A	2017/10/07	BBY6SOP-00017	SM 22 4500-SO42- E m
Total Dissolved Solids (Filt. Residue)	4	2017/10/10	2017/10/11	BBY6SOP-00033	SM 22 2540 C m
Carbon (Total Organic) (4)	4	N/A	2017/10/10	BBY6SOP-00003	SM 22 5310 C m
Total Suspended Solids-Low Level	4	2017/10/10	2017/10/11	BBY6SOP-00034	SM 22 2540 D

Remarks:

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Maxxam's profession using

Your Project #: Gold Corp Coffee Creek
Site Location: COFFEE CREEK - SURFACE WATER
Your C.O.C. #: 537490-01-01

Attention:David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
2289 BURRARD STREET
VANCOUVER, BC
CANADA V6J 3H9

Report Date: 2017/10/16
Report #: R2460831
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B787852

Received: 2017/10/06, 09:28

accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Maxxam in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported: unless indicated otherwise, associated sample data are not blank corrected.

Maxxam Analytics' liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Maxxam has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Maxxam, unless otherwise agreed in writing.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

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

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

- (1) DOC present in the sample should be considered as non-purgeable DOC.
- (2) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high ("Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).
- (3) The BC-MOE and APHA Standard Method require pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the BC-MOE/APHA Standard Method holding time.
- (4) TOC present in the sample should be considered as non-purgeable TOC.

Encryption Key



Maxxam
16 Oct 2017 18:22:15

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Megan Smith, Project Manager
Email: msmith@maxxam.ca
Phone# (604) 734 7276



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This report has been generated and distributed using a secure automated process.

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Job #: B787852
Report Date: 2017/10/16

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: CB

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SD6281	SD6281		SD6282	SD6282		
Sampling Date		2017/10/04 16:40	2017/10/04 16:40		2017/10/04 17:15	2017/10/04 17:15		
COC Number		537490-01-01	537490-01-01		537490-01-01	537490-01-01		
	UNITS	HC-2.5	HC-2.5 Lab-Dup	QC Batch	CC-1.5	CC-1.5 Lab-Dup	RDL	QC Batch
Parameter								
ORP	mV	282	285	8786542	288			8786542
Calculated Parameters								
Filter and HNO3 Preservation	N/A	FIELD		ONSITE	FIELD			ONSITE
Nitrate (N)	mg/L	0.694		8784666	0.408		0.0020	8784666
Misc. Inorganics								
Weak Acid Dissoc. Cyanide (CN)	mg/L	0.00075	0.00076	8790647	0.00066		0.00050	8790647
Fluoride (F)	mg/L	0.061		8788934	0.068	0.068	0.010	8788934
Dissolved Organic Carbon (C)	mg/L	8.73	8.16	8787616	7.05		0.50	8788142
Alkalinity (Total as CaCO3)	mg/L	74.7		8785525	94.1		0.50	8785525
Total Organic Carbon (C)	mg/L	7.70		8787615	6.54		0.50	8788143
Alkalinity (PP as CaCO3)	mg/L	<0.50		8785525	<0.50		0.50	8785525
Bicarbonate (HCO3)	mg/L	91.1		8785525	115		0.50	8785525
Carbonate (CO3)	mg/L	<0.50		8785525	<0.50		0.50	8785525
Hydroxide (OH)	mg/L	<0.50		8785525	<0.50		0.50	8785525
Anions								
Dissolved Sulphate (SO4)	mg/L	34.1		8787480	95.3		0.50	8787480
Dissolved Chloride (Cl)	mg/L	0.72		8787476	0.53		0.50	8787476
Nutrients								
Total Ammonia (N)	mg/L	<0.0050		8789099	<0.0050		0.0050	8789099
Nitrate plus Nitrite (N)	mg/L	0.694		8785985	0.408		0.0020	8785985
Nitrite (N)	mg/L	<0.0020		8785986	<0.0020		0.0020	8785986
Physical Properties								
Conductivity	uS/cm	226		8785521	376		1.0	8785521
pH	pH	8.03		8785511	8.02			8785511
Physical Properties								
Total Suspended Solids	mg/L	<1.1 (1)		8787378	<1.1 (1)		1.1	8787378
Total Dissolved Solids	mg/L	126		8787190	222		10	8787190
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate (1) RDL raised due to limited initial sample amount.								

Maxxam Job #: B787852
Report Date: 2017/10/16

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: CB

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SD6283	SD6283		SD6284		
Sampling Date		2017/10/04 18:20	2017/10/04 18:20		2017/10/04 18:40		
COC Number		537490-01-01	537490-01-01		537490-01-01		
	UNITS	Latte Mix	Latte Mix Lab-Dup	RDL	CC-4.5	RDL	QC Batch
Parameter							
ORP	mV	290			292		8786542
Calculated Parameters							
Filter and HNO3 Preservation	N/A	FIELD			FIELD		ONSITE
Nitrate (N)	mg/L	0.388		0.0020	0.348	0.0020	8784666
Misc. Inorganics							
Weak Acid Dissoc. Cyanide (CN)	mg/L	0.00070		0.00050	0.00068	0.00050	8790647
Fluoride (F)	mg/L	0.073		0.010	0.070	0.010	8788934
Dissolved Organic Carbon (C)	mg/L	7.36		0.50	7.27	0.50	8787616
Alkalinity (Total as CaCO3)	mg/L	59.1	59.1	0.50	59.0	0.50	8785525
Total Organic Carbon (C)	mg/L	8.41		0.50	6.98	0.50	8787615
Alkalinity (PP as CaCO3)	mg/L	<0.50	<0.50	0.50	<0.50	0.50	8785525
Bicarbonate (HCO3)	mg/L	72.1	72.2	0.50	72.0	0.50	8785525
Carbonate (CO3)	mg/L	<0.50	<0.50	0.50	<0.50	0.50	8785525
Hydroxide (OH)	mg/L	<0.50	<0.50	0.50	<0.50	0.50	8785525
Anions							
Dissolved Sulphate (SO4)	mg/L	57.5		0.50	55.5	0.50	8787480
Dissolved Chloride (Cl)	mg/L	1.2		0.50	1.1	0.50	8787476
Nutrients							
Total Ammonia (N)	mg/L	<0.0050	<0.0050	0.0050	<0.0050	0.0050	8789099
Nitrate plus Nitrite (N)	mg/L	0.388	0.389	0.0020	0.350	0.0020	8785985
Nitrite (N)	mg/L	<0.0020	<0.0020	0.0020	0.0020	0.0020	8785986
Physical Properties							
Conductivity	uS/cm	246	245	1.0	242	1.0	8785521
pH	pH	7.97	7.93		7.92		8785511
Physical Properties							
Total Suspended Solids	mg/L	<1.3 (1)		1.3	<1.1 (1)	1.1	8787378
Total Dissolved Solids	mg/L	144		10	146	10	8787190
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate (1) RDL raised due to limited initial sample amount.							

Maxxam Job #: B787852
Report Date: 2017/10/16

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: CB

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SD6281	SD6281		SD6282	SD6283	SD6284		
Sampling Date		2017/10/04 16:40	2017/10/04 16:40		2017/10/04 17:15	2017/10/04 18:20	2017/10/04 18:40		
COC Number		537490-01-01	537490-01-01		537490-01-01	537490-01-01	537490-01-01		
	UNITS	HC-2.5	HC-2.5 Lab-Dup	QC Batch	CC-1.5	Latte Mix	CC-4.5	RDL	QC Batch

Misc. Inorganics									
Dissolved Hardness (CaCO3)	mg/L	112		8784217	194	121	117	0.50	8784217
Elements									
Dissolved Mercury (Hg)	ug/L	0.0033	0.0035	8789843	0.0079	0.0024	0.0024	0.0020	8789843
Dissolved Metals by ICPMS									
Dissolved Aluminum (Al)	ug/L	50.2	49.8	8788681	41.1	38.9	32.6	0.50	8788681
Dissolved Antimony (Sb)	ug/L	0.455	0.432	8788681	0.104	0.099	0.092	0.020	8788681
Dissolved Arsenic (As)	ug/L	0.901	0.893	8788681	0.544	0.334	0.314	0.020	8788681
Dissolved Barium (Ba)	ug/L	37.0	36.8	8788681	44.6	49.6	57.0	0.020	8788681
Dissolved Beryllium (Be)	ug/L	0.012	<0.010	8788681	<0.010	<0.010	<0.010	0.010	8788681
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	8788681	<0.0050	<0.0050	<0.0050	0.0050	8788681
Dissolved Boron (B)	ug/L	<10	<10	8788681	<10	<10	<10	10	8788681
Dissolved Cadmium (Cd)	ug/L	<0.0050	<0.0050	8788681	0.0052	0.0065	0.0078	0.0050	8788681
Dissolved Chromium (Cr)	ug/L	0.49	0.49	8788681	0.21	0.21	0.21	0.10	8788681
Dissolved Cobalt (Co)	ug/L	0.0405	0.0382	8788681	0.0290	0.0397	0.0318	0.0050	8788681
Dissolved Copper (Cu)	ug/L	1.22	1.24	8788681	1.25	1.54	1.50	0.050	8788681
Dissolved Iron (Fe)	ug/L	25.9	25.8	8788681	18.7	30.2	22.2	1.0	8788681
Dissolved Lead (Pb)	ug/L	0.0270 (1)		8791686	<0.0050	<0.0050	<0.0050	0.0050	8788681
Dissolved Lithium (Li)	ug/L	1.17	1.20	8788681	1.88	1.19	0.77	0.50	8788681
Dissolved Manganese (Mn)	ug/L	2.99	3.02	8788681	4.39	9.61	5.87	0.050	8788681
Dissolved Molybdenum (Mo)	ug/L	1.37	1.37	8788681	0.224	0.766	0.727	0.050	8788681
Dissolved Nickel (Ni)	ug/L	0.563	0.549	8788681	0.448	0.775	0.676	0.020	8788681
Dissolved Phosphorus (P)	ug/L	4.2	4.3	8788681	3.9	3.7	3.8	2.0	8788681
Dissolved Selenium (Se)	ug/L	0.064	0.048	8788681	0.079	0.098	0.068	0.040	8788681
Dissolved Silicon (Si)	ug/L	5860	5910	8788681	5800	5160	5040	50	8788681
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	8788681	<0.0050	<0.0050	<0.0050	0.0050	8788681
Dissolved Strontium (Sr)	ug/L	282	285	8788681	358	149	146	0.050	8788681
Dissolved Thallium (Tl)	ug/L	0.0026	<0.0020	8788681	0.0031	0.0037	0.0026	0.0020	8788681
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	8788681	<0.20	<0.20	<0.20	0.20	8788681
Dissolved Titanium (Ti)	ug/L	0.56	0.54	8788681	<0.50	<0.50	<0.50	0.50	8788681
Dissolved Uranium (U)	ug/L	27.2	27.2	8788681	9.32	7.67	4.46	0.0020	8788681

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
(1) Dissolved greater than total. Reanalysis yields similar results.

Maxxam Job #: B787852
Report Date: 2017/10/16

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: CB

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SD6281	SD6281		SD6282	SD6283	SD6284		
Sampling Date		2017/10/04 16:40	2017/10/04 16:40		2017/10/04 17:15	2017/10/04 18:20	2017/10/04 18:40		
COC Number		537490-01-01	537490-01-01		537490-01-01	537490-01-01	537490-01-01		
	UNITS	HC-2.5	HC-2.5 Lab-Dup	QC Batch	CC-1.5	Latte Mix	CC-4.5	RDL	QC Batch
Dissolved Vanadium (V)	ug/L	0.39	0.44	8788681	0.32	0.43	0.37	0.20	8788681
Dissolved Zinc (Zn)	ug/L	0.30	0.28	8788681	0.27	0.29	0.30	0.10	8788681
Dissolved Zirconium (Zr)	ug/L	0.40	0.43	8788681	0.41	0.31	0.31	0.10	8788681
Dissolved Calcium (Ca)	mg/L	28.1		8784314	51.4	30.5	29.8	0.050	8784314
Dissolved Magnesium (Mg)	mg/L	10.1		8784314	16.0	10.9	10.5	0.050	8784314
Dissolved Potassium (K)	mg/L	1.94		8784314	2.84	1.49	1.44	0.050	8784314
Dissolved Sodium (Na)	mg/L	2.96		8784314	4.22	4.88	4.61	0.050	8784314
Dissolved Sulphur (S)	mg/L	12.3		8784314	31.3	20.1	20.6	3.0	8784314

RDL = Reportable Detection Limit

Lab-Dup = Laboratory Initiated Duplicate

Maxxam Job #: B787852
Report Date: 2017/10/16

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: CB

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		SD6281	SD6281	SD6282	SD6283	SD6284		
Sampling Date		2017/10/04 16:40	2017/10/04 16:40	2017/10/04 17:15	2017/10/04 18:20	2017/10/04 18:40		
COC Number		537490-01-01	537490-01-01	537490-01-01	537490-01-01	537490-01-01		
	UNITS	HC-2.5	HC-2.5 Lab-Dup	CC-1.5	Latte Mix	CC-4.5	RDL	QC Batch

Calculated Parameters								
Total Hardness (CaCO3)	mg/L	114		198	122	123	0.50	8784364
Elements								
Total Mercury (Hg)	ug/L	0.0030		0.0026	0.0021	<0.0020	0.0020	8787404
Total Metals by ICPMS								
Total Aluminum (Al)	ug/L	59.2	56.0	53.1	43.1	54.8	0.50	8788761
Total Antimony (Sb)	ug/L	0.429	0.451	0.107	0.096	0.093	0.020	8788761
Total Arsenic (As)	ug/L	0.903	0.885	0.572	0.350	0.331	0.020	8788761
Total Barium (Ba)	ug/L	37.8	37.3	45.7	49.8	59.0	0.020	8788761
Total Beryllium (Be)	ug/L	0.015	0.015	0.014	<0.010	0.010	0.010	8788761
Total Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8788761
Total Boron (B)	ug/L	<10	<10	<10	<10	<10	10	8788761
Total Cadmium (Cd)	ug/L	<0.0050	<0.0050	0.0062	0.0071	0.0074	0.0050	8788761
Total Chromium (Cr)	ug/L	0.31	0.31	0.25	0.27	0.24	0.10	8788761
Total Cobalt (Co)	ug/L	0.0475	0.0418	0.0370	0.0381	0.0482	0.0050	8788761
Total Copper (Cu)	ug/L	1.28	1.27	1.39	1.57	1.56	0.050	8788761
Total Iron (Fe)	ug/L	32.5	32.1	33.6	38.0	51.9	1.0	8788761
Total Lead (Pb)	ug/L	0.0067	<0.0050	0.0085	0.198	0.0108	0.0050	8788761
Total Lithium (Li)	ug/L	1.18	1.15	1.84	1.19	0.78	0.50	8788761
Total Manganese (Mn)	ug/L	3.33	3.27	4.81	9.77	7.16	0.050	8788761
Total Molybdenum (Mo)	ug/L	1.39	1.40	0.228	0.747	0.722	0.050	8788761
Total Nickel (Ni)	ug/L	0.538	0.594	0.468	0.830	0.778	0.020	8788761
Total Phosphorus (P)	ug/L	4.6	4.6	24.9	4.0	8.8	2.0	8788761
Total Selenium (Se)	ug/L	0.050	0.053	0.077	0.086	0.071	0.040	8788761
Total Silicon (Si)	ug/L	5910	5860	5710	5040	4970	50	8788761
Total Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8788761
Total Strontium (Sr)	ug/L	292	288	365	151	151	0.050	8788761
Total Thallium (Tl)	ug/L	0.0021	0.0028	0.0028	0.0039	0.0037	0.0020	8788761
Total Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	8788761
Total Titanium (Ti)	ug/L	0.80	0.76	0.70	0.50	1.51	0.50	8788761
Total Uranium (U)	ug/L	27.6	27.5	9.52	7.69	4.64	0.0020	8788761

RDL = Reportable Detection Limit

Lab-Dup = Laboratory Initiated Duplicate

Maxxam Job #: B787852
Report Date: 2017/10/16

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: CB

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		SD6281	SD6281	SD6282	SD6283	SD6284		
Sampling Date		2017/10/04 16:40	2017/10/04 16:40	2017/10/04 17:15	2017/10/04 18:20	2017/10/04 18:40		
COC Number		537490-01-01	537490-01-01	537490-01-01	537490-01-01	537490-01-01		
	UNITS	HC-2.5	HC-2.5 Lab-Dup	CC-1.5	Latte Mix	CC-4.5	RDL	QC Batch
Total Vanadium (V)	ug/L	0.46	0.46	0.40	0.40	0.46	0.20	8788761
Total Zinc (Zn)	ug/L	0.16	0.18	0.56	0.37	0.44	0.10	8788761
Total Zirconium (Zr)	ug/L	0.41	0.42	0.42	0.31	0.27	0.10	8788761
Total Calcium (Ca)	mg/L	28.7		52.4	30.9	31.5	0.050	8784665
Total Magnesium (Mg)	mg/L	10.2		16.3	11.0	10.7	0.050	8784665
Total Potassium (K)	mg/L	1.96		2.91	1.52	1.53	0.050	8784665
Total Sodium (Na)	mg/L	2.95		4.33	4.92	4.78	0.050	8784665
Total Sulphur (S)	mg/L	12.2		30.4	19.5	19.0	3.0	8784665
RDL = Reportable Detection Limit								
Lab-Dup = Laboratory Initiated Duplicate								

Maxxam Job #: B787852
Report Date: 2017/10/16

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: CB

GENERAL COMMENTS

Sample SD6281, Elements by ICPMS Low Level (dissolved): Test repeated.

Results relate only to the items tested.

Maxxam Job #: B787852
Report Date: 2017/10/16

QUALITY ASSURANCE REPORT

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: CB

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8785511	pH	2017/10/07			102	97 - 103			0.50	20
8785521	Conductivity	2017/10/07			99	80 - 120	<1.0	uS/cm	0.41	20
8785525	Alkalinity (PP as CaCO3)	2017/10/07					<0.50	mg/L	NC	20
8785525	Alkalinity (Total as CaCO3)	2017/10/07	NC	80 - 120	97	80 - 120	0.60, RDL=0.50	mg/L	0.10	20
8785525	Bicarbonate (HCO3)	2017/10/07					0.73, RDL=0.50	mg/L	0.10	20
8785525	Carbonate (CO3)	2017/10/07					<0.50	mg/L	NC	20
8785525	Hydroxide (OH)	2017/10/07					<0.50	mg/L	NC	20
8785985	Nitrate plus Nitrite (N)	2017/10/07	99	80 - 120	110	80 - 120	<0.0020	mg/L	0.33	25
8785986	Nitrite (N)	2017/10/07	100	80 - 120	104	80 - 120	<0.0020	mg/L	NC	25
8786542	ORP	2017/10/06							1.1	20
8787190	Total Dissolved Solids	2017/10/11	99	80 - 120	89	80 - 120	<10	mg/L	NC	20
8787378	Total Suspended Solids	2017/10/11			97	80 - 120	<1.0	mg/L		
8787404	Total Mercury (Hg)	2017/10/10	98	80 - 120	97	80 - 120	<0.0020	ug/L	NC	20
8787476	Dissolved Chloride (Cl)	2017/10/07			99	80 - 120	0.59, RDL=0.50	mg/L		
8787480	Dissolved Sulphate (SO4)	2017/10/07			97	80 - 120	0.51, RDL=0.50	mg/L		
8787615	Total Organic Carbon (C)	2017/10/10	104	80 - 120	110	80 - 120	<0.50	mg/L	4.1	20
8787616	Dissolved Organic Carbon (C)	2017/10/10	106	80 - 120	110	80 - 120	<0.50	mg/L	6.7	20
8788142	Dissolved Organic Carbon (C)	2017/10/10			114	80 - 120	<0.50	mg/L		
8788143	Total Organic Carbon (C)	2017/10/10	116	80 - 120	114	80 - 120	<0.50	mg/L	NC	20
8788681	Dissolved Aluminum (Al)	2017/10/12	107	80 - 120	111	80 - 120	<0.50	ug/L	NC	20
8788681	Dissolved Antimony (Sb)	2017/10/12	96	80 - 120	100	80 - 120	<0.020	ug/L	NC	20
8788681	Dissolved Arsenic (As)	2017/10/12	99	80 - 120	101	80 - 120	<0.020	ug/L	NC	20
8788681	Dissolved Barium (Ba)	2017/10/12	NC	80 - 120	101	80 - 120	<0.020	ug/L	NC	20
8788681	Dissolved Beryllium (Be)	2017/10/12	97	80 - 120	97	80 - 120	<0.010	ug/L	NC	20
8788681	Dissolved Bismuth (Bi)	2017/10/12	100	80 - 120	101	80 - 120	<0.0050	ug/L	NC	20
8788681	Dissolved Boron (B)	2017/10/12	103	80 - 120	102	80 - 120	<10	ug/L	NC	20
8788681	Dissolved Cadmium (Cd)	2017/10/12	98	80 - 120	100	80 - 120	<0.0050	ug/L	NC	20
8788681	Dissolved Chromium (Cr)	2017/10/12	96	80 - 120	101	80 - 120	<0.10	ug/L	NC	20
8788681	Dissolved Cobalt (Co)	2017/10/12	96	80 - 120	100	80 - 120	<0.0050	ug/L	NC	20
8788681	Dissolved Copper (Cu)	2017/10/12	95	80 - 120	100	80 - 120	<0.050	ug/L	NC	20
8788681	Dissolved Iron (Fe)	2017/10/12	98	80 - 120	104	80 - 120	<1.0	ug/L	NC	20

Maxxam Job #: B787852
Report Date: 2017/10/16

QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: CB

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8788681	Dissolved Lead (Pb)	2017/10/12	98	80 - 120	102	80 - 120	<0.0050	ug/L	2.0	20
8788681	Dissolved Lithium (Li)	2017/10/12	96	80 - 120	99	80 - 120	<0.50	ug/L	NC	20
8788681	Dissolved Manganese (Mn)	2017/10/12	92	80 - 120	96	80 - 120	<0.050	ug/L	NC	20
8788681	Dissolved Molybdenum (Mo)	2017/10/12	NC	80 - 120	105	80 - 120	<0.050	ug/L	NC	20
8788681	Dissolved Nickel (Ni)	2017/10/12	96	80 - 120	103	80 - 120	<0.020	ug/L	14	20
8788681	Dissolved Phosphorus (P)	2017/10/12					<2.0	ug/L	NC	20
8788681	Dissolved Selenium (Se)	2017/10/12	99	80 - 120	103	80 - 120	<0.040	ug/L	NC	20
8788681	Dissolved Silicon (Si)	2017/10/12					<50	ug/L	NC	20
8788681	Dissolved Silver (Ag)	2017/10/12	103	80 - 120	109	80 - 120	<0.0050	ug/L	NC	20
8788681	Dissolved Strontium (Sr)	2017/10/12	NC	80 - 120	99	80 - 120	<0.050	ug/L	NC	20
8788681	Dissolved Thallium (Tl)	2017/10/12	98	80 - 120	101	80 - 120	<0.0020	ug/L	NC	20
8788681	Dissolved Tin (Sn)	2017/10/12	96	80 - 120	105	80 - 120	<0.20	ug/L	NC	20
8788681	Dissolved Titanium (Ti)	2017/10/12	99	80 - 120	100	80 - 120	<0.50	ug/L	NC	20
8788681	Dissolved Uranium (U)	2017/10/12	NC	80 - 120	98	80 - 120	<0.0020	ug/L	NC	20
8788681	Dissolved Vanadium (V)	2017/10/12	98	80 - 120	100	80 - 120	<0.20	ug/L	NC	20
8788681	Dissolved Zinc (Zn)	2017/10/12	101	80 - 120	106	80 - 120	<0.10	ug/L	3.7	20
8788681	Dissolved Zirconium (Zr)	2017/10/12	97	80 - 120	100	80 - 120	<0.10	ug/L	NC	20
8788761	Total Aluminum (Al)	2017/10/12	108	80 - 120	114	80 - 120	<0.50	ug/L	5.5	20
8788761	Total Antimony (Sb)	2017/10/12	100	80 - 120	103	80 - 120	<0.020	ug/L	5.2	20
8788761	Total Arsenic (As)	2017/10/12	96	80 - 120	99	80 - 120	<0.020	ug/L	1.9	20
8788761	Total Barium (Ba)	2017/10/12	NC	80 - 120	103	80 - 120	<0.020	ug/L	1.5	20
8788761	Total Beryllium (Be)	2017/10/12	96	80 - 120	96	80 - 120	<0.010	ug/L	1.3	20
8788761	Total Bismuth (Bi)	2017/10/12	97	80 - 120	102	80 - 120	<0.0050	ug/L	NC	20
8788761	Total Boron (B)	2017/10/12	105	80 - 120	104	80 - 120	<10	ug/L	NC	20
8788761	Total Cadmium (Cd)	2017/10/12	98	80 - 120	100	80 - 120	<0.0050	ug/L	NC	20
8788761	Total Chromium (Cr)	2017/10/12	98	80 - 120	102	80 - 120	<0.10	ug/L	0.35	20
8788761	Total Cobalt (Co)	2017/10/12	97	80 - 120	102	80 - 120	<0.0050	ug/L	13	20
8788761	Total Copper (Cu)	2017/10/12	96	80 - 120	103	80 - 120	<0.050	ug/L	0.82	20
8788761	Total Iron (Fe)	2017/10/12	102	80 - 120	106	80 - 120	<1.0	ug/L	1.0	20
8788761	Total Lead (Pb)	2017/10/12	97	80 - 120	102	80 - 120	<0.0050	ug/L	NC	20
8788761	Total Lithium (Li)	2017/10/12	97	80 - 120	99	80 - 120	<0.50	ug/L	2.1	20

Maxxam Job #: B787852
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QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: CB

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8788761	Total Manganese (Mn)	2017/10/12	89	80 - 120	96	80 - 120	<0.050	ug/L	1.8	20
8788761	Total Molybdenum (Mo)	2017/10/12	NC	80 - 120	104	80 - 120	<0.050	ug/L	0.24	20
8788761	Total Nickel (Ni)	2017/10/12	98	80 - 120	104	80 - 120	<0.020	ug/L	9.8	20
8788761	Total Phosphorus (P)	2017/10/12					<2.0	ug/L	1.3	20
8788761	Total Selenium (Se)	2017/10/12	100	80 - 120	103	80 - 120	<0.040	ug/L	5.1	20
8788761	Total Silicon (Si)	2017/10/12					<50	ug/L	0.84	20
8788761	Total Silver (Ag)	2017/10/12	106	80 - 120	110	80 - 120	<0.0050	ug/L	NC	20
8788761	Total Strontium (Sr)	2017/10/12	NC	80 - 120	98	80 - 120	<0.050	ug/L	1.2	20
8788761	Total Thallium (Tl)	2017/10/12	98	80 - 120	104	80 - 120	<0.0020	ug/L	NC	20
8788761	Total Tin (Sn)	2017/10/12	96	80 - 120	100	80 - 120	<0.20	ug/L	NC	20
8788761	Total Titanium (Ti)	2017/10/12	98	80 - 120	98	80 - 120	<0.50	ug/L	4.6	20
8788761	Total Uranium (U)	2017/10/12	NC	80 - 120	99	80 - 120	<0.0020	ug/L	0.41	20
8788761	Total Vanadium (V)	2017/10/12	100	80 - 120	102	80 - 120	<0.20	ug/L	0.92	20
8788761	Total Zinc (Zn)	2017/10/12	101	80 - 120	106	80 - 120	<0.10	ug/L	14	20
8788761	Total Zirconium (Zr)	2017/10/12	97	80 - 120	100	80 - 120	<0.10	ug/L	1.4	20
8788934	Fluoride (F)	2017/10/11	NC	80 - 120	102	80 - 120	0.012, RDL=0.010	mg/L	0	20
8789099	Total Ammonia (N)	2017/10/10	92	80 - 120	99	80 - 120	<0.0050	mg/L	NC	20
8789843	Dissolved Mercury (Hg)	2017/10/12	94	80 - 120	98	80 - 120	<0.0020	ug/L	6.5	20
8790647	Weak Acid Dissoc. Cyanide (CN)	2017/10/13	102	80 - 120	101	80 - 120	<0.00050	mg/L	1.3	20
8791686	Dissolved Lead (Pb)	2017/10/13			104	80 - 120	<0.0050	ug/L	12	20

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

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

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

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

Maxxam Job #: B787852
Report Date: 2017/10/16

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: CB

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).











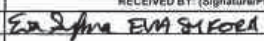
Andy Lu, Ph.D., P.Chem., Scientific Specialist

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



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Chain Of Custody Record

INVOICE TO:		Report Information				Project Information				Laboratory Use Only							
Company Name: #3604 LORAX ENVIRONMENTAL SERVICES LTD.		Company Name: LORAX				Quotation #: B40231				Maxxam Job #: B787852		Bottle Order #: 					
Contact Name: Aida Piaseczny		Contact Name: David Flather				P.O. #: Gold Corp Coffee Creek				Chain Of Custody Record		Project Manager: Megan Smith					
Address: 2289 BARRARD STREET VANCOUVER BC V6J 3H9		Address:				Project Name:						537490					
Phone: (604) 688-7173 x Fax: (604) 688-7175 x		Phone: Fax:				Site #: CB/CM/AS				C8537490-01-01							
Email: aida.piaseczny@lorax.ca; shukling.ng@lorax.ca		Email: David.Flather@lorax.ca				Sampled By:											
Regulatory Criteria		Special Instructions				Analysis Requested				Turnaround Time (TAT) Required							
						Regulated Drinking Water? (Y/N) <input type="checkbox"/> Metals Field Filtered? (Y/N) <input type="checkbox"/> Routine (Alk, EC, pH, TDS) <input type="checkbox"/> TSS+Low Level <input type="checkbox"/> Anions (Cl, F, NO2, NO3, NH4, SO4) <input type="checkbox"/> Cyanide - WAD <input type="checkbox"/> TOC <input type="checkbox"/> DOC <input type="checkbox"/> Low Level Dissolved Metals incl. CV Hg <input type="checkbox"/> Low Level Total Metals incl. CV Hg <input type="checkbox"/> DRP <input type="checkbox"/>				Please provide advance notice for rush projects Regular (Standard) TAT (will be applied if Rush TAT is not specified) Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.							
Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form										Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____ Rush Confirmation Number: _____ (call us for #)							
Samples must be kept cool (< 10°C) from time of sampling until delivery to maxxam																	
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	Routine (Alk, EC, pH, TDS)	TSS+Low Level	Anions (Cl, F, NO2, NO3, NH4, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	DRP	# of Bottles	Comments
 SID#162743	HC-2.5	10/4/17		WATER	Y	X	X	X	X	X	X	X	X	X	X	15	LL dissolved metals instructions
 SID#162744	CC-1.5	10/4/17		↓	Y	X	X	X	X	X	X	X	X	X	X	15	unclear for sample
 SID#162745	Latte Mix	10/4/17		↓	Y	X	X	X	X	X	X	X	X	X	X	15	container request form
 SID#162746	CC-4.5	10/4/17		↓	Y	X	X	X	X	X	X	X	X	X	X	15	- calls for no preservatives in LL but to add for LL total. Supplied with AND without for LL dissolved - please choose as appropriate
														 B787852_COC			
* RELINQUISHED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)				Date: (YY/MM/DD)	Time	# Jars used and not submitted	Lab Use Only						
		17/10/05	8:00					2017/10/06	09:25		Time Sensitive <input type="checkbox"/>	Temperature (°C) on Receipt: 3.6/3	Custody Seal intact on Cooler? <input type="checkbox"/> Yes <input type="checkbox"/> No				
* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.														Write Maxxam: Yellow Client			
* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.																	

Your Project #: Gold Corp Coffee Creek
 Site Location: COFFEE CREEK - SURFACE WATER
 Your C.O.C. #: 537488-01-01

Attention: David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
 2289 BURRARD STREET
 VANCOUVER, BC
 CANADA V6J 3H9

Report Date: 2017/10/19
 Report #: R2462768
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B789173

Received: 2017/10/11, 12:30

Sample Matrix: Water
 # Samples Received: 4

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity - Low Level	2	2017/10/12	2017/10/12	BBY6SOP-00026	SM 22 2320 B m
Alkalinity - Low Level	2	2017/10/12	2017/10/13	BBY6SOP-00026	SM 22 2320 B m
Chloride - Low Level	4	N/A	2017/10/12	BBY6SOP-00011	SM 22 4500-Cl- E m
Cyanide WAD (weak acid dissociable)	4	N/A	2017/10/13	BBY6SOP-00004	SM 22 4500-CN O m
Carbon (DOC) - field filtered/preserved (1)	4	N/A	2017/10/12	BBY6SOP-00003	SM 22 5310 C m
Conductance - Low Level	2	2017/10/12	2017/10/12	BBY6SOP-00026	SM 22 2510 B m
Conductance - Low Level	2	2017/10/12	2017/10/13	BBY6SOP-00026	SM 22 2510 B m
Fluoride - Low Level	2	N/A	2017/10/13	BBY6SOP-00048	SM 22 4500-F C m
Fluoride - Low Level	2	N/A	2017/10/16	BBY6SOP-00048	SM 22 4500-F C m
Hardness Total (calculated as CaCO3) (2)	4	N/A	2017/10/16	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3)	4	N/A	2017/10/17	BBY WI-00033	Auto Calc
Mercury (Dissolved-LowLevel) by CVAf	4	N/A	2017/10/13	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Total-LowLevel) by CVAf	4	2017/10/12	2017/10/12	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	4	N/A	2017/10/17	BBY7SOP-00002	EPA 6020B R2 m
Elements by ICPMS Low Level (dissolved)	4	N/A	2017/10/16	BBY7SOP-00002	EPA 6020B R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total)	4	N/A	2017/10/16	BBY7SOP-00003,	BCLM2005,EPA6020bR2m
Elements by ICPMS Low Level (total)	4	N/A	2017/10/13	BBY7SOP-00003,	BCLM2005,EPA6020bR2m
Ammonia-N Low Level (Preserved)	4	N/A	2017/10/13	BBY6SOP-00009	EPA 350.1 m
Nitrate+Nitrite (N) (low level)	4	N/A	2017/10/12	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrite (N) (low level)	4	N/A	2017/10/12	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrogen - Nitrate (as N) Low Level Calc	4	N/A	2017/10/13	BBY6SOP-00010	SM 22 4500-NO3- I m
ORP Analysis on Water by ARD LAB	4	N/A	2017/10/12	BBY0SOP-00004	SM 22 2580 B
Filter and HNO3 Preserve for Metals	4	N/A	2017/10/12	BBY7 WI-00004	BCMOE Reqs 08/14
pH Water (3)	2	2017/10/12	2017/10/12	BBY6SOP-00026	SM 22 4500-H+ B m
pH Water (3)	2	2017/10/12	2017/10/13	BBY6SOP-00026	SM 22 4500-H+ B m
Sulphate - Low Level	3	N/A	2017/10/12	BBY6SOP-00017	SM 22 4500-SO42- E m
Sulphate - Low Level	1	N/A	2017/10/13	BBY6SOP-00017	SM 22 4500-SO42- E m
Total Dissolved Solids (Filt. Residue)	1	2017/10/12	2017/10/13	BBY6SOP-00033	SM 22 2540 C m
Total Dissolved Solids (Filt. Residue)	2	2017/10/13	2017/10/14	BBY6SOP-00033	SM 22 2540 C m
Total Dissolved Solids (Filt. Residue)	1	2017/10/18	2017/10/19	BBY6SOP-00033	SM 22 2540 C m

Your Project #: Gold Corp Coffee Creek
 Site Location: COFFEE CREEK - SURFACE WATER
 Your C.O.C. #: 537488-01-01

Attention: David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
 2289 BURRARD STREET
 VANCOUVER, BC
 CANADA V6J 3H9

Report Date: 2017/10/19
 Report #: R2462768
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B789173

Received: 2017/10/11, 12:30

Sample Matrix: Water
 # Samples Received: 4

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Carbon (Total Organic) (4)	4	N/A	2017/10/12	BBY6SOP-00003	SM 22 5310 C m
Total Suspended Solids-Low Level	4	2017/10/12	2017/10/13	BBY6SOP-00034	SM 22 2540 D

Remarks:

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Maxxam's profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Maxxam in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported: unless indicated otherwise, associated sample data are not blank corrected.

Maxxam Analytics' liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Maxxam has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Maxxam, unless otherwise agreed in writing.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

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

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

- (1) DOC present in the sample should be considered as non-purgeable DOC.
- (2) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).
- (3) The BC-MOE and APHA Standard Method require pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the BC-MOE/APHA Standard Method holding time.
- (4) TOC present in the sample should be considered as non-purgeable TOC.

Your Project #: Gold Corp Coffee Creek
Site Location: COFFEE CREEK - SURFACE WATER
Your C.O.C. #: 537488-01-01

Attention:David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
2289 BURRARD STREET
VANCOUVER, BC
CANADA V6J 3H9

Report Date: 2017/10/19
Report #: R2462768
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B789173

Received: 2017/10/11, 12:30

Encryption Key



Maxxam
19 Oct 2017 13:05:06



Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Megan Smith, Project Manager
Email: msmith@maxxam.ca
Phone# (604) 734 7276

=====
This report has been generated and distributed using a secure automated process.

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Job #: B789173
Report Date: 2017/10/19

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SE4649		SE4650		SE4651		
Sampling Date		2017/10/09 17:35		2017/10/09 17:20		2017/10/09 17:00		
COC Number		537488-01-01		537488-01-01		537488-01-01		
	UNITS	HC-2.5	QC Batch	CC-1.5	QC Batch	Latte Mix	RDL	QC Batch
Parameter								
ORP	mV	272	8790443	270	8790443	267		8790443
Calculated Parameters								
Filter and HNO3 Preservation	N/A	LAB	8790111	LAB	8790111	LAB		8790111
Nitrate (N)	mg/L	0.682	8789171	0.411	8789171	0.405	0.0020	8789171
Misc. Inorganics								
Weak Acid Dissoc. Cyanide (CN)	mg/L	0.00073	8790647	0.00069	8790647	0.00067	0.00050	8790647
Fluoride (F)	mg/L	0.057	8791775	0.069	8791775	0.083	0.010	8795411
Dissolved Organic Carbon (C)	mg/L	9.34	8790300	7.64	8790300	9.08	0.50	8790300
Alkalinity (Total as CaCO3)	mg/L	74.2	8790850	100	8790850	56.7	0.50	8790901
Total Organic Carbon (C)	mg/L	9.06	8790303	7.82	8790294	8.40	0.50	8790303
Alkalinity (PP as CaCO3)	mg/L	<0.50	8790850	<0.50	8790850	<0.50	0.50	8790901
Bicarbonate (HCO3)	mg/L	90.6	8790850	123	8790850	69.2	0.50	8790901
Carbonate (CO3)	mg/L	<0.50	8790850	<0.50	8790850	<0.50	0.50	8790901
Hydroxide (OH)	mg/L	<0.50	8790850	<0.50	8790850	<0.50	0.50	8790901
Anions								
Dissolved Sulphate (SO4)	mg/L	36.1	8791092	105	8791092	58.9	0.50	8791092
Dissolved Chloride (Cl)	mg/L	0.73	8791090	0.64	8791090	0.93	0.50	8791090
Nutrients								
Total Ammonia (N)	mg/L	<0.0050	8795417	<0.0050	8795417	0.044	0.0050	8795417
Nitrate plus Nitrite (N)	mg/L	0.682	8792024	0.411	8792024	0.405	0.0020	8792024
Nitrite (N)	mg/L	<0.0020	8792025	<0.0020	8792025	<0.0020	0.0020	8792025
Physical Properties								
Conductivity	uS/cm	225	8790848	409	8790848	245	1.0	8790895
pH	pH	7.99	8790836	7.99	8790836	7.89		8790889
Physical Properties								
Total Suspended Solids	mg/L	<1.0	8790120	<1.0	8790120	<1.0	1.0	8790120
Total Dissolved Solids	mg/L	148	8790172	246	8791721	148	10	8791721
RDL = Reportable Detection Limit								

Maxxam Job #: B789173
Report Date: 2017/10/19

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SE4652	SE4652		
Sampling Date		2017/10/09 16:45	2017/10/09 16:45		
COC Number		537488-01-01	537488-01-01		
	UNITS	CC-4.5	CC-4.5 Lab-Dup	RDL	QC Batch
Parameter					
ORP	mV	265	264		8790443
Calculated Parameters					
Filter and HNO3 Preservation	N/A	LAB			8790111
Nitrate (N)	mg/L	0.377		0.0020	8789171
Misc. Inorganics					
Weak Acid Dissoc. Cyanide (CN)	mg/L	0.00062		0.00050	8790647
Fluoride (F)	mg/L	0.079		0.010	8795411
Dissolved Organic Carbon (C)	mg/L	7.93		0.50	8790293
Alkalinity (Total as CaCO3)	mg/L	59.6		0.50	8790901
Total Organic Carbon (C)	mg/L	8.43		0.50	8790294
Alkalinity (PP as CaCO3)	mg/L	<0.50		0.50	8790901
Bicarbonate (HCO3)	mg/L	72.7		0.50	8790901
Carbonate (CO3)	mg/L	<0.50		0.50	8790901
Hydroxide (OH)	mg/L	<0.50		0.50	8790901
Anions					
Dissolved Sulphate (SO4)	mg/L	60.2	61.8	0.50	8794351
Dissolved Chloride (Cl)	mg/L	0.93		0.50	8791090
Nutrients					
Total Ammonia (N)	mg/L	<0.0050		0.0050	8795417
Nitrate plus Nitrite (N)	mg/L	0.380		0.0020	8792024
Nitrite (N)	mg/L	0.0027		0.0020	8792025
Physical Properties					
Conductivity	uS/cm	249		1.0	8790895
pH	pH	7.80			8790889
Physical Properties					
Total Suspended Solids	mg/L	<1.0		1.0	8790120
Total Dissolved Solids	mg/L	132 (1)		10	8797437
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate (1) Sample was originally analysed within hold time. Data quality required investigation. Re-analysis was completed past recommended hold time.					

Maxxam Job #: B789173
Report Date: 2017/10/19

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SE4649	SE4650	SE4651	SE4652		
Sampling Date		2017/10/09 17:35	2017/10/09 17:20	2017/10/09 17:00	2017/10/09 16:45		
COC Number		537488-01-01	537488-01-01	537488-01-01	537488-01-01		
	UNITS	HC-2.5	CC-1.5	Latte Mix	CC-4.5	RDL	QC Batch
Misc. Inorganics							
Dissolved Hardness (CaCO3)	mg/L	112	210	115	115	0.50	8788516
Elements							
Dissolved Mercury (Hg)	ug/L	0.0035	0.0041	0.0026	0.0022	0.0020	8791797
Dissolved Metals by ICPMS							
Dissolved Aluminum (Al)	ug/L	46.2	36.5	38.1	31.6	0.50	8790543
Dissolved Antimony (Sb)	ug/L	0.488	0.113	0.108	0.099	0.020	8790543
Dissolved Arsenic (As)	ug/L	0.963	0.616	0.375	0.341	0.020	8790543
Dissolved Barium (Ba)	ug/L	38.7	49.6	49.5	58.7	0.020	8790543
Dissolved Beryllium (Be)	ug/L	0.016	0.012	<0.010	0.010	0.010	8790543
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8790543
Dissolved Boron (B)	ug/L	<10	<10	<10	<10	10	8790543
Dissolved Cadmium (Cd)	ug/L	<0.0050	0.0055	0.0056	0.0069	0.0050	8790543
Dissolved Chromium (Cr)	ug/L	0.31	0.22	0.24	0.23	0.10	8790543
Dissolved Cobalt (Co)	ug/L	0.0385	0.0319	0.0488	0.0388	0.0050	8790543
Dissolved Copper (Cu)	ug/L	1.22	1.30	1.55	1.54	0.050	8790543
Dissolved Iron (Fe)	ug/L	22.9	16.3	31.4	22.4	1.0	8790543
Dissolved Lead (Pb)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8790543
Dissolved Lithium (Li)	ug/L	1.24	2.01	1.24	0.82	0.50	8790543
Dissolved Manganese (Mn)	ug/L	3.04	4.98	9.99	5.85	0.050	8790543
Dissolved Molybdenum (Mo)	ug/L	1.46	0.242	0.811	0.756	0.050	8790543
Dissolved Nickel (Ni)	ug/L	0.588	0.476	0.806	0.723	0.020	8790543
Dissolved Phosphorus (P)	ug/L	4.7	5.2	4.3	4.4	2.0	8790543
Dissolved Selenium (Se)	ug/L	0.161	0.155	0.150	0.157	0.040	8790543
Dissolved Silicon (Si)	ug/L	6120	6220	5580	5260	50	8790543
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8790543
Dissolved Strontium (Sr)	ug/L	302	406	147	148	0.050	8790543
Dissolved Thallium (Tl)	ug/L	0.0022	0.0038	0.0024	0.0037	0.0020	8790543
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8790543
Dissolved Titanium (Ti)	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	8790543
Dissolved Uranium (U)	ug/L	28.9	11.1	7.80	4.79	0.0020	8790543
Dissolved Vanadium (V)	ug/L	0.38	0.31	0.38	0.36	0.20	8790543
Dissolved Zinc (Zn)	ug/L	0.21	0.39	0.39	0.38	0.10	8790543
RDL = Reportable Detection Limit							

Maxxam Job #: B789173
Report Date: 2017/10/19

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SE4649	SE4650	SE4651	SE4652		
Sampling Date		2017/10/09 17:35	2017/10/09 17:20	2017/10/09 17:00	2017/10/09 16:45		
COC Number		537488-01-01	537488-01-01	537488-01-01	537488-01-01		
	UNITS	HC-2.5	CC-1.5	Latte Mix	CC-4.5	RDL	QC Batch
Dissolved Zirconium (Zr)	ug/L	0.46	0.43	0.35	0.33	0.10	8790543
Dissolved Calcium (Ca)	mg/L	27.9	55.7	28.8	28.7	0.050	8788578
Dissolved Magnesium (Mg)	mg/L	10.2	17.3	10.4	10.4	0.050	8788578
Dissolved Potassium (K)	mg/L	2.07	3.21	1.42	1.46	0.050	8788578
Dissolved Sodium (Na)	mg/L	3.02	4.40	4.74	4.59	0.050	8788578
Dissolved Sulphur (S)	mg/L	13.4	38.8	21.8	22.0	3.0	8788578
RDL = Reportable Detection Limit							

Maxxam Job #: B789173
Report Date: 2017/10/19

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		SE4649	SE4650	SE4651	SE4652		
Sampling Date		2017/10/09 17:35	2017/10/09 17:20	2017/10/09 17:00	2017/10/09 16:45		
COC Number		537488-01-01	537488-01-01	537488-01-01	537488-01-01		
	UNITS	HC-2.5	CC-1.5	Latte Mix	CC-4.5	RDL	QC Batch
Calculated Parameters							
Total Hardness (CaCO3)	mg/L	110	212	115	116	0.50	8788515
Elements							
Total Mercury (Hg)	ug/L	0.0036	0.0026	0.0022	0.0026	0.0020	8790113
Total Metals by ICPMS							
Total Aluminum (Al)	ug/L	81.5	40.4	195	32.0	0.50	8790615
Total Antimony (Sb)	ug/L	0.440	0.099	0.100	0.101	0.020	8790615
Total Arsenic (As)	ug/L	1.09	0.602	0.505	0.357	0.020	8790615
Total Barium (Ba)	ug/L	38.9	51.9	52.6	60.4	0.020	8790615
Total Beryllium (Be)	ug/L	0.015	0.014	0.011	<0.010	0.010	8790615
Total Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8790615
Total Boron (B)	ug/L	<10	<10	<10	<10	10	8790615
Total Cadmium (Cd)	ug/L	0.0063	0.0057	0.0112	0.0086	0.0050	8790615
Total Chromium (Cr)	ug/L	0.36	0.23	0.44	0.21	0.10	8790615
Total Cobalt (Co)	ug/L	0.0724	0.0361	0.201	0.0366	0.0050	8790615
Total Copper (Cu)	ug/L	1.34	1.30	2.15	1.42	0.050	8790615
Total Iron (Fe)	ug/L	71.8	26.7	319	20.7	1.0	8790615
Total Lead (Pb)	ug/L	0.0311	0.0084	0.106	<0.0050	0.0050	8790615
Total Lithium (Li)	ug/L	1.21	2.02	1.29	0.86	0.50	8790615
Total Manganese (Mn)	ug/L	6.32	4.60	23.1	6.13	0.050	8790615
Total Molybdenum (Mo)	ug/L	1.42	0.237	0.796	0.752	0.050	8790615
Total Nickel (Ni)	ug/L	0.578	0.463	1.02	0.754	0.020	8790615
Total Phosphorus (P)	ug/L	7.1	5.2	9.5	2.4	2.0	8790615
Total Selenium (Se)	ug/L	0.071	0.106	0.128	0.092	0.040	8790615
Total Silicon (Si)	ug/L	5580	5520	5200	5060	50	8790615
Total Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8790615
Total Strontium (Sr)	ug/L	297	419	147	148	0.050	8790615
Total Thallium (Tl)	ug/L	0.0028	0.0030	0.0045	0.0021	0.0020	8790615
Total Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8790615
Total Titanium (Ti)	ug/L	2.93	0.55	11.0	<0.50	0.50	8790615
Total Uranium (U)	ug/L	29.3	11.1	8.04	4.05	0.0020	8790615
Total Vanadium (V)	ug/L	0.41	0.26	0.98	0.23	0.20	8790615
Total Zinc (Zn)	ug/L	0.92	0.37	1.34	0.31	0.10	8790615
RDL = Reportable Detection Limit							

Maxxam Job #: B789173
Report Date: 2017/10/19

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		SE4649	SE4650	SE4651	SE4652		
Sampling Date		2017/10/09 17:35	2017/10/09 17:20	2017/10/09 17:00	2017/10/09 16:45		
COC Number		537488-01-01	537488-01-01	537488-01-01	537488-01-01		
	UNITS	HC-2.5	CC-1.5	Latte Mix	CC-4.5	RDL	QC Batch
Total Zirconium (Zr)	ug/L	0.38	0.36	0.32	0.37	0.10	8790615
Total Calcium (Ca)	mg/L	27.6	55.7	28.5	29.6	0.050	8788579
Total Magnesium (Mg)	mg/L	9.89	17.6	10.5	10.2	0.050	8788579
Total Potassium (K)	mg/L	2.04	3.24	1.53	1.54	0.050	8788579
Total Sodium (Na)	mg/L	2.97	4.34	4.68	4.66	0.050	8788579
Total Sulphur (S)	mg/L	12.2	35.0	20.2	21.9	3.0	8788579
RDL = Reportable Detection Limit							

Maxxam Job #: B789173
Report Date: 2017/10/19

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek
Site Location: COFFEE CREEK - SURFACE WATER

GENERAL COMMENTS

Sample SE4652 [CC-4.5] : Sample analyzed past method specified hold time for Total Dissolved Solids (Filt. Residue). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.}

Results relate only to the items tested.

Maxxam Job #: B789173
Report Date: 2017/10/19

QUALITY ASSURANCE REPORT

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek
Site Location: COFFEE CREEK - SURFACE WATER

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8790113	Total Mercury (Hg)	2017/10/12	98	80 - 120	101	80 - 120	<0.0020	ug/L	NC	20
8790120	Total Suspended Solids	2017/10/13			98	80 - 120	<1.0	mg/L		
8790172	Total Dissolved Solids	2017/10/13	99	80 - 120	106	80 - 120	<10	mg/L	2.4	20
8790293	Dissolved Organic Carbon (C)	2017/10/12	NC	80 - 120	115	80 - 120	<0.50	mg/L		
8790294	Total Organic Carbon (C)	2017/10/12	105	80 - 120	115	80 - 120	<0.50	mg/L	2.7	20
8790300	Dissolved Organic Carbon (C)	2017/10/12	112	80 - 120	116	80 - 120	<0.50	mg/L	2.5	20
8790303	Total Organic Carbon (C)	2017/10/12	101	80 - 120	116	80 - 120	<0.50	mg/L	5.8	20
8790443	ORP	2017/10/12							0.64	20
8790543	Dissolved Aluminum (Al)	2017/10/16	108	80 - 120	107	80 - 120	<0.50	ug/L	1.1	20
8790543	Dissolved Antimony (Sb)	2017/10/16	102	80 - 120	102	80 - 120	<0.020	ug/L	NC	20
8790543	Dissolved Arsenic (As)	2017/10/16	99	80 - 120	101	80 - 120	<0.020	ug/L	NC	20
8790543	Dissolved Barium (Ba)	2017/10/16	NC	80 - 120	99	80 - 120	<0.020	ug/L	8.6	20
8790543	Dissolved Beryllium (Be)	2017/10/16	97	80 - 120	98	80 - 120	<0.010	ug/L	NC	20
8790543	Dissolved Bismuth (Bi)	2017/10/16	97	80 - 120	99	80 - 120	<0.0050	ug/L	NC	20
8790543	Dissolved Boron (B)	2017/10/16	85	80 - 120	92	80 - 120	<10	ug/L	NC	20
8790543	Dissolved Cadmium (Cd)	2017/10/16	100	80 - 120	102	80 - 120	<0.0050	ug/L	NC	20
8790543	Dissolved Chromium (Cr)	2017/10/16	95	80 - 120	98	80 - 120	<0.10	ug/L	NC	20
8790543	Dissolved Cobalt (Co)	2017/10/16	92	80 - 120	95	80 - 120	<0.0050	ug/L	NC	20
8790543	Dissolved Copper (Cu)	2017/10/16	94	80 - 120	99	80 - 120	<0.050	ug/L	NC	20
8790543	Dissolved Iron (Fe)	2017/10/16	NC	80 - 120	104	80 - 120	<1.0	ug/L	NC	20
8790543	Dissolved Lead (Pb)	2017/10/16	95	80 - 120	97	80 - 120	<0.0050	ug/L	NC	20
8790543	Dissolved Lithium (Li)	2017/10/16	NC	80 - 120	97	80 - 120	<0.50	ug/L	NC	20
8790543	Dissolved Manganese (Mn)	2017/10/16	NC	80 - 120	95	80 - 120	<0.050	ug/L	NC	20
8790543	Dissolved Molybdenum (Mo)	2017/10/16	101	80 - 120	99	80 - 120	<0.050	ug/L	NC	20
8790543	Dissolved Nickel (Ni)	2017/10/16	96	80 - 120	100	80 - 120	<0.020	ug/L	NC	20
8790543	Dissolved Phosphorus (P)	2017/10/16					<2.0	ug/L	1.6	20
8790543	Dissolved Selenium (Se)	2017/10/16	95	80 - 120	105	80 - 120	<0.040	ug/L	NC	20
8790543	Dissolved Silicon (Si)	2017/10/16					<50	ug/L	NC	20
8790543	Dissolved Silver (Ag)	2017/10/16	102	80 - 120	107	80 - 120	<0.0050	ug/L	NC	20
8790543	Dissolved Strontium (Sr)	2017/10/16	NC	80 - 120	93	80 - 120	<0.050	ug/L	NC	20
8790543	Dissolved Thallium (Tl)	2017/10/16	100	80 - 120	98	80 - 120	<0.0020	ug/L	NC	20

Maxxam Job #: B789173
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QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek
Site Location: COFFEE CREEK - SURFACE WATER

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8790543	Dissolved Tin (Sn)	2017/10/16	95	80 - 120	99	80 - 120	<0.20	ug/L	NC	20
8790543	Dissolved Titanium (Ti)	2017/10/16	95	80 - 120	88	80 - 120	<0.50	ug/L	NC	20
8790543	Dissolved Uranium (U)	2017/10/16	95	80 - 120	95	80 - 120	<0.0020	ug/L	NC	20
8790543	Dissolved Vanadium (V)	2017/10/16	99	80 - 120	99	80 - 120	<0.20	ug/L	NC	20
8790543	Dissolved Zinc (Zn)	2017/10/16	95	80 - 120	102	80 - 120	<0.10	ug/L	NC	20
8790543	Dissolved Zirconium (Zr)	2017/10/16	97	80 - 120	98	80 - 120	<0.10	ug/L	NC	20
8790615	Total Aluminum (Al)	2017/10/13	110	80 - 120	104	80 - 120	<0.50	ug/L	NC	20
8790615	Total Antimony (Sb)	2017/10/13	105	80 - 120	98	80 - 120	<0.020	ug/L	NC	20
8790615	Total Arsenic (As)	2017/10/13	107	80 - 120	104	80 - 120	<0.020	ug/L	NC	20
8790615	Total Barium (Ba)	2017/10/13	103	80 - 120	100	80 - 120	<0.020	ug/L	NC	20
8790615	Total Beryllium (Be)	2017/10/13	100	80 - 120	94	80 - 120	<0.010	ug/L	NC	20
8790615	Total Bismuth (Bi)	2017/10/13	101	80 - 120	100	80 - 120	<0.0050	ug/L	NC	20
8790615	Total Boron (B)	2017/10/13	98	80 - 120	92	80 - 120	<10	ug/L	NC	20
8790615	Total Cadmium (Cd)	2017/10/13	108	80 - 120	104	80 - 120	<0.0050	ug/L	NC	20
8790615	Total Chromium (Cr)	2017/10/13	106	80 - 120	100	80 - 120	<0.10	ug/L	NC	20
8790615	Total Cobalt (Co)	2017/10/13	103	80 - 120	100	80 - 120	<0.0050	ug/L	NC	20
8790615	Total Copper (Cu)	2017/10/13	105	80 - 120	100	80 - 120	<0.050	ug/L	NC	20
8790615	Total Iron (Fe)	2017/10/13	107	80 - 120	104	80 - 120	<1.0	ug/L	NC	20
8790615	Total Lead (Pb)	2017/10/13	101	80 - 120	97	80 - 120	<0.0050	ug/L	NC	20
8790615	Total Lithium (Li)	2017/10/13	100	80 - 120	95	80 - 120	<0.50	ug/L	NC	20
8790615	Total Manganese (Mn)	2017/10/13	95	80 - 120	95	80 - 120	<0.050	ug/L	NC	20
8790615	Total Molybdenum (Mo)	2017/10/13	102	80 - 120	103	80 - 120	<0.050	ug/L	NC	20
8790615	Total Nickel (Ni)	2017/10/13	107	80 - 120	100	80 - 120	<0.020	ug/L	NC	20
8790615	Total Phosphorus (P)	2017/10/13					<2.0	ug/L	NC	20
8790615	Total Selenium (Se)	2017/10/13	119	80 - 120	108	80 - 120	<0.040	ug/L	NC	20
8790615	Total Silicon (Si)	2017/10/13					<50	ug/L	NC	20
8790615	Total Silver (Ag)	2017/10/13	112	80 - 120	107	80 - 120	<0.0050	ug/L	NC	20
8790615	Total Strontium (Sr)	2017/10/13	96	80 - 120	96	80 - 120	<0.050	ug/L	NC	20
8790615	Total Thallium (Tl)	2017/10/13	101	80 - 120	98	80 - 120	<0.0020	ug/L	NC	20
8790615	Total Tin (Sn)	2017/10/13	96	80 - 120	96	80 - 120	<0.20	ug/L	NC	20
8790615	Total Titanium (Ti)	2017/10/13	105	80 - 120	101	80 - 120	<0.50	ug/L	NC	20

Maxxam Job #: B789173
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QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek
Site Location: COFFEE CREEK - SURFACE WATER

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8790615	Total Uranium (U)	2017/10/13	100	80 - 120	97	80 - 120	<0.0020	ug/L	NC	20
8790615	Total Vanadium (V)	2017/10/13	105	80 - 120	99	80 - 120	<0.20	ug/L	NC	20
8790615	Total Zinc (Zn)	2017/10/13	115	80 - 120	106	80 - 120	<0.10	ug/L	NC	20
8790615	Total Zirconium (Zr)	2017/10/13	97	80 - 120	99	80 - 120	<0.10	ug/L	NC	20
8790647	Weak Acid Dissoc. Cyanide (CN)	2017/10/13	102	80 - 120	101	80 - 120	<0.00050	mg/L	1.3	20
8790836	pH	2017/10/12			102	97 - 103			0.12	20
8790848	Conductivity	2017/10/12			99	80 - 120	<1.0	uS/cm	0.095	20
8790850	Alkalinity (PP as CaCO3)	2017/10/12					<0.50	mg/L	0	20
8790850	Alkalinity (Total as CaCO3)	2017/10/12	NC	80 - 120	103	80 - 120	<0.50	mg/L	1.7	20
8790850	Bicarbonate (HCO3)	2017/10/12					<0.50	mg/L	1.8	20
8790850	Carbonate (CO3)	2017/10/12					<0.50	mg/L	0	20
8790850	Hydroxide (OH)	2017/10/12					<0.50	mg/L	NC	20
8790889	pH	2017/10/13			102	97 - 103			0.37	20
8790895	Conductivity	2017/10/13			101	80 - 120	<1.0	uS/cm		
8790901	Alkalinity (PP as CaCO3)	2017/10/13					<0.50	mg/L		
8790901	Alkalinity (Total as CaCO3)	2017/10/13			100	80 - 120	0.77, RDL=0.50	mg/L		
8790901	Bicarbonate (HCO3)	2017/10/13					0.94, RDL=0.50	mg/L		
8790901	Carbonate (CO3)	2017/10/13					<0.50	mg/L		
8790901	Hydroxide (OH)	2017/10/13					<0.50	mg/L		
8791090	Dissolved Chloride (Cl)	2017/10/12	107	80 - 120	98	80 - 120	<0.50	mg/L	13	20
8791092	Dissolved Sulphate (SO4)	2017/10/12	NC	80 - 120	95	80 - 120	<0.50	mg/L	0.39	20
8791721	Total Dissolved Solids	2017/10/14	96	80 - 120	93	80 - 120	<10	mg/L	NC	20
8791775	Fluoride (F)	2017/10/13	104	80 - 120	100	80 - 120	0.010, RDL=0.010	mg/L	4.9	20
8791797	Dissolved Mercury (Hg)	2017/10/13	99	80 - 120	98	80 - 120	<0.0020	ug/L	NC	20
8792024	Nitrate plus Nitrite (N)	2017/10/12	103	80 - 120	113	80 - 120	<0.0020	mg/L	NC	25
8792025	Nitrite (N)	2017/10/12	98	80 - 120	106	80 - 120	<0.0020	mg/L	NC	25
8794351	Dissolved Sulphate (SO4)	2017/10/13	108	80 - 120	104	80 - 120	<0.50	mg/L	2.6	20
8795411	Fluoride (F)	2017/10/16	103	80 - 120	102	80 - 120	0.010, RDL=0.010	mg/L	0	20
8795417	Total Ammonia (N)	2017/10/13			104	80 - 120	0.0050, RDL=0.0050	mg/L		

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QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek
Site Location: COFFEE CREEK - SURFACE WATER

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8797437	Total Dissolved Solids	2017/10/19	98	80 - 120	95	80 - 120	<10	mg/L	0	20

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

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

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

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

Maxxam Job #: B789173
Report Date: 2017/10/19

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek
Site Location: COFFEE CREEK - SURFACE WATER

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Andy Lu, Ph.D., P.Chem., Scientific Specialist

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Maxxam Analytics International Corporation o/a Maxxam Analytics
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INVOICE TO:		Report Information		Project Information	
Company Name	#3604 LORAX ENVIRONMENTAL SERVICES LTD.	Company Name	David Flather	Quotation #	B40231
Contact Name	Aida Piaseczny	Contact Name	David Flather	P.O. #	
Address	2289 BURRARD STREET VANCOUVER BC V6J 3H9	Address		Project #	Gold Corp Coffee Creek
Phone	(604) 688-7173 x	Phone		Project Name	
Email	aida.piaseczny@lorax.ca; shuking.ng@lorax.ca	Email	David.Flather@lorax.ca	Site #	
				Sampled By	



Bottle Order #: 537488
 Project Manager: Megan Smith

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	Analysis Requested										# of Bottles	Comments
							Routine (Alk, EC, pH, TDS)	TSS-Low Level	Anions (Cl, F, NO2, NO3, NH4, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP			
1 SID#162743	HC-2.5	9-oct-17	17:35	Water	N	X	X	X	X	X	X	X	X	X	13			
2 SID#162744	CC-1.5	9-oct-17	17:20	↓	N	X	X	X	X	X	X	X	X	X	13			
3 SID#162745	Latte Mix	9-oct-17	17:00	↓	N	X	X	X	X	X	X	X	X	X	13			
4 SID#162746	CC-4.5	9-oct-17	16:45	↓	N	X	X	X	X	X	X	X	X	X	13	(filtered/unfiltered)		
5																* Possible that CC-4.5 D&T Hg bottles switched (unlikely, however)		
6																		
7																		
8																		
9																		
10																		

Turnaround Time (TAT) Required
 Please provide advance notice for rush projects

Regular (Standard) TAT
 (will be applied if Rush TAT is not specified)
 Standard TAT = 5-7 Working days for most tests.
 Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
 Date Required: _____ Time Required: _____
 Rush Confirmation Number: _____ (call lab for #)

RELINQUISHED BY: (Signature/Print) <i>Council Mc Nee</i>	Date: (YYMMDD) 17/10/09	Time 20:00	RECEIVED BY: (Signature/Print) <i>EVA SYDORA</i>	Date: (YYMMDD) 2017/10/14	Time 12:30	# Jars used and not submitted	Lab Use Only
						Time Sensitive <input type="checkbox"/>	Temperature (°C) on Receipt 6, 6, 3
						Custody Seal Intact on Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

* UNLESS OTHERWISE AGREED TO BY WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.
 * IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

4, 2, 3
2, 2, 2

Your Project #: Gold Corp Coffee Creek
 Site Location: COFFEE CREEK - SURFACE WATER
 Your C.O.C. #: 537487-01-01

Attention: David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
 2289 BURRARD STREET
 VANCOUVER, BC
 CANADA V6J 3H9

Report Date: 2017/10/30

Report #: R2468741

Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B793974

Received: 2017/10/23, 15:40

Sample Matrix: Water
 # Samples Received: 4

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Alkalinity - Low Level	4	2017/10/25	2017/10/25	BBY6SOP-00026	SM 22 2320 B m
Chloride - Low Level	4	N/A	2017/10/25	BBY6SOP-00011	SM 22 4500-Cl- E m
Cyanide WAD (weak acid dissociable)	4	N/A	2017/10/27	BBY6SOP-00004	SM 22 4500-CN O m
Carbon (DOC) - field filtered/preserved (1)	4	N/A	2017/10/25	BBY6SOP-00003	SM 22 5310 C m
Conductance - Low Level	4	2017/10/25	2017/10/25	BBY6SOP-00026	SM 22 2510 B m
Fluoride - Low Level	4	N/A	2017/10/26	BBY6SOP-00048	SM 22 4500-F C m
Hardness Total (calculated as CaCO3) (2)	4	N/A	2017/10/26	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3)	4	N/A	2017/10/27	BBY WI-00033	Auto Calc
Mercury (Dissolved-LowLevel) by CVAf	4	N/A	2017/10/30	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Total-LowLevel) by CVAf	4	2017/10/30	2017/10/30	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	4	N/A	2017/10/27	BBY7SOP-00002	EPA 6020B R2 m
Elements by ICPMS Low Level (dissolved)	4	N/A	2017/10/27	BBY7SOP-00002	EPA 6020B R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total)	4	N/A	2017/10/26	BBY7SOP-00003,	BCLM2005,EPA6020bR2m
Elements by ICPMS Low Level (total)	4	N/A	2017/10/26	BBY7SOP-00003,	BCLM2005,EPA6020bR2m
Ammonia-N Low Level (Preserved)	4	N/A	2017/10/26	BBY6SOP-00009	EPA 350.1 m
Nitrate+Nitrite (N) (low level)	4	N/A	2017/10/25	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrite (N) (low level)	4	N/A	2017/10/25	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrogen - Nitrate (as N) Low Level Calc	4	N/A	2017/10/26	BBY6SOP-00010	SM 22 4500-NO3- I m
ORP Analysis on Water by ARD LAB	4	N/A	2017/10/30	BBY0SOP-00004	SM 22 2580 B
Filter and HNO3 Preserve for Metals	4	N/A	2017/10/25	BBY7 WI-00004	BCMOE Reqs 08/14
pH Water (3)	4	2017/10/25	2017/10/25	BBY6SOP-00026	SM 22 4500-H+ B m
Sulphate - Low Level	4	N/A	2017/10/25	BBY6SOP-00017	SM 22 4500-SO42- E m
Total Dissolved Solids (Filt. Residue)	4	2017/10/25	2017/10/26	BBY6SOP-00033	SM 22 2540 C m
Carbon (Total Organic) (4)	4	N/A	2017/10/25	BBY6SOP-00003	SM 22 5310 C m
Total Suspended Solids-Low Level	4	2017/10/25	2017/10/26	BBY6SOP-00034	SM 22 2540 D

Remarks:

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Maxxam's profession using

Your Project #: Gold Corp Coffee Creek
Site Location: COFFEE CREEK - SURFACE WATER
Your C.O.C. #: 537487-01-01

Attention:David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
2289 BURRARD STREET
VANCOUVER, BC
CANADA V6J 3H9

Report Date: 2017/10/30
Report #: R2468741
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B793974

Received: 2017/10/23, 15:40

accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Maxxam in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported: unless indicated otherwise, associated sample data are not blank corrected.

Maxxam Analytics' liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Maxxam has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Maxxam, unless otherwise agreed in writing.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested.

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

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

- (1) DOC present in the sample should be considered as non-purgeable DOC.
- (2) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).
- (3) The BC-MOE and APHA Standard Method require pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the BC-MOE/APHA Standard Method holding time.
- (4) TOC present in the sample should be considered as non-purgeable TOC.

Encryption Key



Maxxam
30 Oct 2017 18:40:03

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Megan Smith, Project Manager
Email: msmith@maxxam.ca
Phone# (604) 734 7276



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Maxxam Job #: B793974
Report Date: 2017/10/30

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SH5998	SH5998	SH5999	SH6000		SH6001		
Sampling Date		2017/10/23 09:25	2017/10/23 09:25	2017/10/23 09:40	2017/10/23 10:00		2017/10/23 10:25		
COC Number		537487-01-01	537487-01-01	537487-01-01	537487-01-01		537487-01-01		
	UNITS	HC-2.5	HC-2.5 Lab-Dup	CC-1.5	LATTE MIX	QC Batch	CC-4.5	RDL	QC Batch
Parameter									
ORP	mV	277	279	280	280	8807920	282		8807920
Calculated Parameters									
Filter and HNO3 Preservation	N/A	LAB		LAB	LAB	8805320	LAB		8805320
Nitrate (N)	mg/L	0.611		0.371	0.438	8805081	0.387	0.0020	8805081
Misc. Inorganics									
Weak Acid Dissoc. Cyanide (CN)	mg/L	0.00080	0.00082	0.00086	0.00088	8810355	0.00088	0.00050	8810355
Fluoride (F)	mg/L	0.062		0.082	0.083	8808183	0.070	0.010	8808183
Dissolved Organic Carbon (C)	mg/L	3.69	4.43	4.18	6.72	8806958	5.57	0.50	8806958
Alkalinity (Total as CaCO3)	mg/L	88.8		136	63.3	8807425	57.2	0.50	8807432
Total Organic Carbon (C)	mg/L	4.07	4.78	3.94	7.05	8806957	5.27	0.50	8806957
Alkalinity (PP as CaCO3)	mg/L	<0.50		<0.50	<0.50	8807425	<0.50	0.50	8807432
Bicarbonate (HCO3)	mg/L	108		166	77.2	8807425	69.8	0.50	8807432
Carbonate (CO3)	mg/L	<0.50		<0.50	<0.50	8807425	<0.50	0.50	8807432
Hydroxide (OH)	mg/L	<0.50		<0.50	<0.50	8807425	<0.50	0.50	8807432
Anions									
Dissolved Sulphate (SO4)	mg/L	43.2		144	73.6	8808250	65.8	0.50	8808250
Dissolved Chloride (Cl)	mg/L	0.75		0.68	1.1	8808242	0.82	0.50	8808242
Nutrients									
Total Ammonia (N)	mg/L	<0.0050	<0.0050	0.0070	0.0080	8808080	0.029	0.0050	8808080
Nitrate plus Nitrite (N)	mg/L	0.613		0.371	0.438	8808495	0.387	0.0020	8808495
Nitrite (N)	mg/L	0.0020		<0.0020	<0.0020	8808497	<0.0020	0.0020	8808497
Physical Properties									
Conductivity	uS/cm	274		551	293	8807424	266	1.0	8807430
pH	pH	8.10		8.17	8.00	8807420	7.88		8807428
Physical Properties									
Total Suspended Solids	mg/L	<1.0		<1.0	<1.0	8806589	<1.0	1.0	8806589
Total Dissolved Solids	mg/L	146		334	178	8806573	154	10	8806573
RDL = Reportable Detection Limit									
Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B793974
Report Date: 2017/10/30

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SH6001		
Sampling Date		2017/10/23 10:25		
COC Number		537487-01-01		
	UNITS	CC-4.5 Lab-Dup	RDL	QC Batch
Misc. Inorganics				
Alkalinity (Total as CaCO ₃)	mg/L	58.5	0.50	8807432
Alkalinity (PP as CaCO ₃)	mg/L	<0.50	0.50	8807432
Bicarbonate (HCO ₃)	mg/L	71.4	0.50	8807432
Carbonate (CO ₃)	mg/L	<0.50	0.50	8807432
Hydroxide (OH)	mg/L	<0.50	0.50	8807432
Physical Properties				
Conductivity	uS/cm	263	1.0	8807430
pH	pH	7.95		8807428
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate				

Maxxam Job #: B793974
Report Date: 2017/10/30

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SH5998	SH5999	SH6000	SH6001		
Sampling Date		2017/10/23 09:25	2017/10/23 09:40	2017/10/23 10:00	2017/10/23 10:25		
COC Number		537487-01-01	537487-01-01	537487-01-01	537487-01-01		
	UNITS	HC-2.5	CC-1.5	LATTE MIX	CC-4.5	RDL	QC Batch
Misc. Inorganics							
Dissolved Hardness (CaCO3)	mg/L	132	277	135	121	0.50	8804813
Elements							
Dissolved Mercury (Hg)	ug/L	0.0029	0.0027	0.0025	0.0021	0.0020	8812670
Dissolved Metals by ICPMS							
Dissolved Aluminum (Al)	ug/L	29.9	20.9	26.0	24.3	0.50	8806571
Dissolved Antimony (Sb)	ug/L	0.547	0.100	0.094	0.087	0.020	8806571
Dissolved Arsenic (As)	ug/L	0.838	0.657	0.316	0.279	0.020	8806571
Dissolved Barium (Ba)	ug/L	44.2	65.0	57.9	65.1	0.020	8806571
Dissolved Beryllium (Be)	ug/L	<0.010	<0.010	<0.010	<0.010	0.010	8806571
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8806571
Dissolved Boron (B)	ug/L	<10	<10	<10	<10	10	8806571
Dissolved Cadmium (Cd)	ug/L	<0.0050	0.0059	0.0073	0.0076	0.0050	8806571
Dissolved Chromium (Cr)	ug/L	0.24	0.17	0.20	0.20	0.10	8806571
Dissolved Cobalt (Co)	ug/L	0.0350	0.0260	0.0420	0.0356	0.0050	8806571
Dissolved Copper (Cu)	ug/L	1.09	1.10	1.44	1.42	0.050	8806571
Dissolved Iron (Fe)	ug/L	16.0	10.3	26.5	17.4	1.0	8806571
Dissolved Lead (Pb)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8806571
Dissolved Lithium (Li)	ug/L	1.37	2.36	1.52	0.79	0.50	8806571
Dissolved Manganese (Mn)	ug/L	3.95	5.09	13.7	7.58	0.050	8806571
Dissolved Molybdenum (Mo)	ug/L	1.58	0.281	0.746	0.696	0.050	8806571
Dissolved Nickel (Ni)	ug/L	0.478	0.417	0.772	0.679	0.020	8806571
Dissolved Phosphorus (P)	ug/L	4.3	4.7	3.3	3.4	2.0	8806571
Dissolved Selenium (Se)	ug/L	0.065	0.110	0.101	0.063	0.040	8806571
Dissolved Silicon (Si)	ug/L	5600	5410	5160	4770	50	8806571
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8806571
Dissolved Strontium (Sr)	ug/L	340	554	170	159	0.050	8806571
Dissolved Thallium (Tl)	ug/L	0.0021	0.0037	0.0027	0.0023	0.0020	8806571
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8806571
Dissolved Titanium (Ti)	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	8806571
Dissolved Uranium (U)	ug/L	38.1	15.7	11.2	5.07	0.0020	8806571
Dissolved Vanadium (V)	ug/L	0.25	0.24	0.25	0.25	0.20	8806571
Dissolved Zinc (Zn)	ug/L	0.46	0.45	0.41	0.30	0.10	8806571
RDL = Reportable Detection Limit							

Maxxam Job #: B793974
Report Date: 2017/10/30

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SH5998	SH5999	SH6000	SH6001		
Sampling Date		2017/10/23 09:25	2017/10/23 09:40	2017/10/23 10:00	2017/10/23 10:25		
COC Number		537487-01-01	537487-01-01	537487-01-01	537487-01-01		
	UNITS	HC-2.5	CC-1.5	LATTE MIX	CC-4.5	RDL	QC Batch
Dissolved Zirconium (Zr)	ug/L	0.33	0.30	0.28	0.29	0.10	8806571
Dissolved Calcium (Ca)	mg/L	32.3	72.4	33.4	30.6	0.050	8805096
Dissolved Magnesium (Mg)	mg/L	12.5	23.3	12.5	10.9	0.050	8805096
Dissolved Potassium (K)	mg/L	2.27	4.12	1.59	1.50	0.050	8805096
Dissolved Sodium (Na)	mg/L	3.38	5.27	5.41	4.77	0.050	8805096
Dissolved Sulphur (S)	mg/L	14.7	47.6	24.2	21.7	3.0	8805096
RDL = Reportable Detection Limit							

Maxxam Job #: B793974
Report Date: 2017/10/30

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		SH5998	SH5999	SH6000	SH6001		
Sampling Date		2017/10/23 09:25	2017/10/23 09:40	2017/10/23 10:00	2017/10/23 10:25		
COC Number		537487-01-01	537487-01-01	537487-01-01	537487-01-01		
	UNITS	HC-2.5	CC-1.5	LATTE MIX	CC-4.5	RDL	QC Batch
Calculated Parameters							
Total Hardness (CaCO3)	mg/L	139	294	139	128	0.50	8805041
Elements							
Total Mercury (Hg)	ug/L	0.0021	0.0023	<0.0020	<0.0020	0.0020	8812408
Total Metals by ICPMS							
Total Aluminum (Al)	ug/L	34.7	24.1	31.0	42.3	0.50	8806736
Total Antimony (Sb)	ug/L	0.529	0.105	0.098	0.090	0.020	8806736
Total Arsenic (As)	ug/L	0.881	0.676	0.318	0.288	0.020	8806736
Total Barium (Ba)	ug/L	43.3	63.6	55.2	63.2	0.020	8806736
Total Beryllium (Be)	ug/L	0.014	0.013	<0.010	<0.010	0.010	8806736
Total Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8806736
Total Boron (B)	ug/L	<10	<10	<10	<10	10	8806736
Total Cadmium (Cd)	ug/L	<0.0050	0.0071	0.0073	0.0086	0.0050	8806736
Total Chromium (Cr)	ug/L	0.23	0.16	0.19	0.22	0.10	8806736
Total Cobalt (Co)	ug/L	0.0349	0.0258	0.0419	0.0431	0.0050	8806736
Total Copper (Cu)	ug/L	1.06	1.07	1.36	1.35	0.050	8806736
Total Iron (Fe)	ug/L	19.3	14.3	35.8	41.9	1.0	8806736
Total Lead (Pb)	ug/L	<0.0050	<0.0050	<0.0050	0.0057	0.0050	8806736
Total Lithium (Li)	ug/L	1.33	2.30	1.42	0.72	0.50	8806736
Total Manganese (Mn)	ug/L	4.26	5.74	14.1	8.62	0.050	8806736
Total Molybdenum (Mo)	ug/L	1.63	0.291	0.750	0.694	0.050	8806736
Total Nickel (Ni)	ug/L	0.472	0.376	0.698	0.697	0.020	8806736
Total Phosphorus (P)	ug/L	3.7	3.9	4.2	3.9	2.0	8806736
Total Selenium (Se)	ug/L	0.077	0.129	0.102	0.076	0.040	8806736
Total Silicon (Si)	ug/L	6110	5880	5310	5060	50	8806736
Total Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8806736
Total Strontium (Sr)	ug/L	346	558	170	158	0.050	8806736
Total Thallium (Tl)	ug/L	0.0020	0.0026	0.0028	0.0028	0.0020	8806736
Total Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8806736
Total Titanium (Ti)	ug/L	<0.50	<0.50	<0.50	2.09	0.50	8806736
Total Uranium (U)	ug/L	41.1	16.6	11.5	4.73	0.0020	8806736
Total Vanadium (V)	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8806736
Total Zinc (Zn)	ug/L	1.04	0.37	0.29	0.28	0.10	8806736
RDL = Reportable Detection Limit							

Maxxam Job #: B793974
Report Date: 2017/10/30

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		SH5998	SH5999	SH6000	SH6001		
Sampling Date		2017/10/23 09:25	2017/10/23 09:40	2017/10/23 10:00	2017/10/23 10:25		
COC Number		537487-01-01	537487-01-01	537487-01-01	537487-01-01		
	UNITS	HC-2.5	CC-1.5	LATTE MIX	CC-4.5	RDL	QC Batch
Total Zirconium (Zr)	ug/L	0.34	0.32	0.28	0.29	0.10	8806736
Total Calcium (Ca)	mg/L	34.1	78.1	34.7	32.4	0.050	8805097
Total Magnesium (Mg)	mg/L	13.1	24.0	12.6	11.5	0.050	8805097
Total Potassium (K)	mg/L	2.30	4.07	1.49	1.50	0.050	8805097
Total Sodium (Na)	mg/L	3.61	5.35	5.42	4.80	0.050	8805097
Total Sulphur (S)	mg/L	15.7	51.0	23.7	22.2	3.0	8805097
RDL = Reportable Detection Limit							

Maxxam Job #: B793974
Report Date: 2017/10/30

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek
Site Location: COFFEE CREEK - SURFACE WATER

GENERAL COMMENTS

Results relate only to the items tested.

Maxxam Job #: B793974
Report Date: 2017/10/30

QUALITY ASSURANCE REPORT

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek
Site Location: COFFEE CREEK - SURFACE WATER

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8806571	Dissolved Aluminum (Al)	2017/10/27	101	80 - 120	108	80 - 120	<0.50	ug/L	4.7	20
8806571	Dissolved Antimony (Sb)	2017/10/27	100	80 - 120	105	80 - 120	<0.020	ug/L	NC	20
8806571	Dissolved Arsenic (As)	2017/10/27	97	80 - 120	104	80 - 120	<0.020	ug/L	1.8	20
8806571	Dissolved Barium (Ba)	2017/10/27	NC	80 - 120	108	80 - 120	<0.020	ug/L	0.79	20
8806571	Dissolved Beryllium (Be)	2017/10/27	94	80 - 120	101	80 - 120	<0.010	ug/L	NC	20
8806571	Dissolved Bismuth (Bi)	2017/10/27	92	80 - 120	107	80 - 120	<0.0050	ug/L	NC	20
8806571	Dissolved Boron (B)	2017/10/27	NC	80 - 120	105	80 - 120	<10	ug/L	4.3	20
8806571	Dissolved Cadmium (Cd)	2017/10/27	93	80 - 120	105	80 - 120	<0.0050	ug/L	NC	20
8806571	Dissolved Chromium (Cr)	2017/10/27	95	80 - 120	103	80 - 120	<0.10	ug/L	NC	20
8806571	Dissolved Cobalt (Co)	2017/10/27	92	80 - 120	104	80 - 120	<0.0050	ug/L	0.87	20
8806571	Dissolved Copper (Cu)	2017/10/27	90	80 - 120	102	80 - 120	<0.050	ug/L	20	20
8806571	Dissolved Iron (Fe)	2017/10/27	NC	80 - 120	112	80 - 120	<1.0	ug/L	1.9	20
8806571	Dissolved Lead (Pb)	2017/10/27	91	80 - 120	102	80 - 120	<0.0050	ug/L	1.3	20
8806571	Dissolved Lithium (Li)	2017/10/27	NC	80 - 120	105	80 - 120	<0.50	ug/L	0.47	20
8806571	Dissolved Manganese (Mn)	2017/10/27	NC	80 - 120	100	80 - 120	<0.050	ug/L	2.1	20
8806571	Dissolved Molybdenum (Mo)	2017/10/27	NC	80 - 120	105	80 - 120	<0.050	ug/L	1.1	20
8806571	Dissolved Nickel (Ni)	2017/10/27	91	80 - 120	106	80 - 120	<0.020	ug/L	3.7	20
8806571	Dissolved Phosphorus (P)	2017/10/27					<2.0	ug/L	19	20
8806571	Dissolved Selenium (Se)	2017/10/27	94	80 - 120	105	80 - 120	<0.040	ug/L	NC	20
8806571	Dissolved Silicon (Si)	2017/10/27					<50	ug/L	1.0	20
8806571	Dissolved Silver (Ag)	2017/10/27	99	80 - 120	107	80 - 120	<0.0050	ug/L	NC	20
8806571	Dissolved Strontium (Sr)	2017/10/27	NC	80 - 120	99	80 - 120	<0.050	ug/L	1.4	20
8806571	Dissolved Thallium (Tl)	2017/10/27	95	80 - 120	101	80 - 120	<0.0020	ug/L	3.0	20
8806571	Dissolved Tin (Sn)	2017/10/27	93	80 - 120	101	80 - 120	<0.20	ug/L	3.4	20
8806571	Dissolved Titanium (Ti)	2017/10/27	97	80 - 120	105	80 - 120	<0.50	ug/L	NC	20
8806571	Dissolved Uranium (U)	2017/10/27	93	80 - 120	100	80 - 120	<0.0020	ug/L	0.55	20
8806571	Dissolved Vanadium (V)	2017/10/27	97	80 - 120	103	80 - 120	<0.20	ug/L	NC	20
8806571	Dissolved Zinc (Zn)	2017/10/27	93	80 - 120	107	80 - 120	<0.10	ug/L	4.4	20
8806571	Dissolved Zirconium (Zr)	2017/10/27	94	80 - 120	93	80 - 120	<0.10	ug/L	NC	20
8806573	Total Dissolved Solids	2017/10/26	98	80 - 120	95	80 - 120	<10	mg/L	0	20
8806589	Total Suspended Solids	2017/10/26			102	80 - 120	<1.0	mg/L		

Maxxam Job #: B793974
Report Date: 2017/10/30

QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek
Site Location: COFFEE CREEK - SURFACE WATER

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8806736	Total Aluminum (Al)	2017/10/26	105	80 - 120	111	80 - 120	<0.50	ug/L	2.2	20
8806736	Total Antimony (Sb)	2017/10/26	102	80 - 120	101	80 - 120	<0.020	ug/L	5.0	20
8806736	Total Arsenic (As)	2017/10/26	98	80 - 120	101	80 - 120	<0.020	ug/L	0.25	20
8806736	Total Barium (Ba)	2017/10/26	NC	80 - 120	101	80 - 120	<0.020	ug/L	0.64	20
8806736	Total Beryllium (Be)	2017/10/26	99	80 - 120	100	80 - 120	<0.010	ug/L	NC	20
8806736	Total Bismuth (Bi)	2017/10/26	97	80 - 120	102	80 - 120	<0.0050	ug/L	NC	20
8806736	Total Boron (B)	2017/10/26	97	80 - 120	97	80 - 120	<10	ug/L	NC	20
8806736	Total Cadmium (Cd)	2017/10/26	99	80 - 120	101	80 - 120	<0.0050	ug/L	NC	20
8806736	Total Chromium (Cr)	2017/10/26	97	80 - 120	99	80 - 120	<0.10	ug/L	9.7	20
8806736	Total Cobalt (Co)	2017/10/26	92	80 - 120	98	80 - 120	<0.0050	ug/L	1.8	20
8806736	Total Copper (Cu)	2017/10/26	92	80 - 120	97	80 - 120	<0.050	ug/L	6.5	20
8806736	Total Iron (Fe)	2017/10/26	99	80 - 120	107	80 - 120	<1.0	ug/L	2.1	20
8806736	Total Lead (Pb)	2017/10/26	95	80 - 120	101	80 - 120	<0.0050	ug/L	NC	20
8806736	Total Lithium (Li)	2017/10/26	100	80 - 120	104	80 - 120	<0.50	ug/L	0.66	20
8806736	Total Manganese (Mn)	2017/10/26	88	80 - 120	97	80 - 120	<0.050	ug/L	1.4	20
8806736	Total Molybdenum (Mo)	2017/10/26	NC	80 - 120	104	80 - 120	<0.050	ug/L	1.8	20
8806736	Total Nickel (Ni)	2017/10/26	96	80 - 120	100	80 - 120	<0.020	ug/L	0	20
8806736	Total Phosphorus (P)	2017/10/26					<2.0	ug/L	1.6	20
8806736	Total Selenium (Se)	2017/10/26	104	80 - 120	109	80 - 120	<0.040	ug/L	11	20
8806736	Total Silicon (Si)	2017/10/26					<50	ug/L	0.50	20
8806736	Total Silver (Ag)	2017/10/26	101	80 - 120	106	80 - 120	<0.0050	ug/L	NC	20
8806736	Total Strontium (Sr)	2017/10/26	NC	80 - 120	97	80 - 120	<0.050	ug/L	1.5	20
8806736	Total Thallium (Tl)	2017/10/26	97	80 - 120	101	80 - 120	<0.0020	ug/L	NC	20
8806736	Total Tin (Sn)	2017/10/26	93	80 - 120	104	80 - 120	<0.20	ug/L	NC	20
8806736	Total Titanium (Ti)	2017/10/26	95	80 - 120	104	80 - 120	<0.50	ug/L	NC	20
8806736	Total Uranium (U)	2017/10/26	96	80 - 120	101	80 - 120	<0.0020	ug/L	0.57	20
8806736	Total Vanadium (V)	2017/10/26	96	80 - 120	98	80 - 120	<0.20	ug/L	NC	20
8806736	Total Zinc (Zn)	2017/10/26	101	80 - 120	102	80 - 120	<0.10	ug/L	3.6	20
8806736	Total Zirconium (Zr)	2017/10/26	93	80 - 120	98	80 - 120	<0.10	ug/L	NC	20
8806957	Total Organic Carbon (C)	2017/10/25	86	80 - 120	112	80 - 120	<0.50	mg/L	16	20
8806958	Dissolved Organic Carbon (C)	2017/10/25	93	80 - 120	112	80 - 120	<0.50	mg/L	18	20

Maxxam Job #: B793974
Report Date: 2017/10/30

QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek
Site Location: COFFEE CREEK - SURFACE WATER

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8807420	pH	2017/10/25			102	97 - 103			0.50	20
8807424	Conductivity	2017/10/25			101	80 - 120	<1.0	uS/cm	0.24	20
8807425	Alkalinity (PP as CaCO3)	2017/10/25					<0.50	mg/L	NC	20
8807425	Alkalinity (Total as CaCO3)	2017/10/25	NC	80 - 120	95	80 - 120	<0.50	mg/L	3.4	20
8807425	Bicarbonate (HCO3)	2017/10/25					<0.50	mg/L	3.4	20
8807425	Carbonate (CO3)	2017/10/25					<0.50	mg/L	NC	20
8807425	Hydroxide (OH)	2017/10/25					<0.50	mg/L	NC	20
8807428	pH	2017/10/25			102	97 - 103			0.88	20
8807430	Conductivity	2017/10/25			100	80 - 120	<1.0	uS/cm	1.1	20
8807432	Alkalinity (PP as CaCO3)	2017/10/25					<0.50	mg/L	NC	20
8807432	Alkalinity (Total as CaCO3)	2017/10/25			102	80 - 120	<0.50	mg/L	2.3	20
8807432	Bicarbonate (HCO3)	2017/10/25					<0.50	mg/L	2.3	20
8807432	Carbonate (CO3)	2017/10/25					<0.50	mg/L	NC	20
8807432	Hydroxide (OH)	2017/10/25					<0.50	mg/L	NC	20
8807920	ORP	2017/10/30							0	20
8808080	Total Ammonia (N)	2017/10/26	90	80 - 120	97	80 - 120	<0.0050	mg/L	NC	20
8808183	Fluoride (F)	2017/10/26	100	80 - 120	102	80 - 120	0.010, RDL=0.010	mg/L	8.7	20
8808242	Dissolved Chloride (Cl)	2017/10/25	111	80 - 120	97	80 - 120	<0.50	mg/L	6.5	20
8808250	Dissolved Sulphate (SO4)	2017/10/25	NC	80 - 120	96	80 - 120	<0.50	mg/L	0.27	20
8808495	Nitrate plus Nitrite (N)	2017/10/25	NC	80 - 120	104	80 - 120	<0.0020	mg/L	0.65	25
8808497	Nitrite (N)	2017/10/25	96	80 - 120	102	80 - 120	<0.0020	mg/L	NC	25
8810355	Weak Acid Dissoc. Cyanide (CN)	2017/10/27	NC	80 - 120	97	80 - 120	<0.00050	mg/L	2.5	20
8812408	Total Mercury (Hg)	2017/10/30	94	80 - 120	96	80 - 120	<0.0020	ug/L	NC	20

Maxxam Job #: B793974
Report Date: 2017/10/30

QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek
Site Location: COFFEE CREEK - SURFACE WATER

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8812670	Dissolved Mercury (Hg)	2017/10/30	100	80 - 120	99	80 - 120	<0.0020	ug/L	NC	20
<p>Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.</p> <p>Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.</p> <p>Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.</p> <p>Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.</p> <p>NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)</p> <p>NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).</p>										

Maxxam Job #: B793974
Report Date: 2017/10/30

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek
Site Location: COFFEE CREEK - SURFACE WATER

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Andy Lu, Ph.D., P.Chem., Scientific Specialist

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



INVOICE TO:		Report Information		Project Information		Lab Use Only	
Company Name	#3604 LORAX ENVIRONMENTAL SERVICES LTD.	Company Name	David Flather	Quotation #	B40231	Bottle Order #:	
Contact Name	Aida Piaseczny	Contact Name	David Flather	P.O. #			
Address	2289 BURRARD STREET VANCOUVER BC V6J 3H9	Address		Project #	Gold Corp Coffee Creek	Chain Of Custody Record	Project Manager
Phone	(604) 688-7173 x Fax: (604) 688-7175 x	Phone		Project Name			
Email	aida.piaseczny@lorax.ca; shukling.ng@lorax.ca	Email	David.Flather@lorax.ca	Site #			Megan Smith
				Sampled By		CA537487-01-01	

Regulatory Criteria	Special Instructions	Analysis Requested										Turnaround Time (TAT) Required		
		Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	Routine (Alk, EC, pH, TDS)	TSS+Low Level	Anions (Cl, F, NO2, NO3, NH4, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	Please provide advance notice for rush projects	
													Regular (Standard) TAT (will be applied if Rush TAT is not specified) Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.	
Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form														
Samples must be kept cool (< 10°C) from time of sampling until delivery to maxxam														
													Date Required:	Time Required:
													Rush Confirmation Number	(call lab for #)

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	Routine (Alk, EC, pH, TDS)	TSS+Low Level	Anions (Cl, F, NO2, NO3, NH4, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	# of Bottles	Comments
1 SID#162743	HC-2.5	Oct. 23/17	09:25	H ₂ O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	RECEIVED IN WHITEHORSE
2 SID#162744	CC-1.5	Oct. 23/17	09:40	H ₂ O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	BY: <i>aycnc@1540</i>
3 SID#162745	Latte Mix	Oct. 23/17	10:00	H ₂ O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	2017-10-23
4 SID#162746	CC-4.5	Oct. 23/17	10:25	H ₂ O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	TEMP:
5																	
6																	
7																	
8																	
9																	
10																	

RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# Jars used and not submitted	Lab Use Only	
<i>[Signature]</i>	17/10/23	15:40	<i>[Signature]</i> EVASYKORA	2017/10/24	13:00		Time Sensitive	Temperature (°C) on Receipt
							<input type="checkbox"/>	21.4, 6
* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.							Custody Seal Intact on Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.							White: Maxxam Yellow: Client	

Your Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

Attention:David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
2289 BURRARD STREET
VANCOUVER, BC
CANADA V6J 3H9

Your C.O.C. #: 538344-01-01, 538344-02-01, 538344-03-01, 538344-04-01, 538344-05-01

Report Date: 2017/11/03
Report #: R2471807
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B793988

Received: 2017/10/23, 15:40

Sample Matrix: Water
Samples Received: 40

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Alkalinity - Low Level	35	2017/10/25	2017/10/25	BBY6SOP-00026	SM 22 2320 B m
Alkalinity - Low Level	5	2017/10/26	2017/10/26	BBY6SOP-00026	SM 22 2320 B m
Chloride - Low Level	35	N/A	2017/10/25	BBY6SOP-00011	SM 22 4500-Cl- E m
Chloride - Low Level	5	N/A	2017/10/26	BBY6SOP-00011	SM 22 4500-Cl- E m
Cyanide WAD (weak acid dissociable)	13	N/A	2017/10/27	BBY6SOP-00004	SM 22 4500-CN O m
Cyanide WAD (weak acid dissociable)	27	N/A	2017/10/31	BBY6SOP-00004	SM 22 4500-CN O m
Carbon (DOC) - field filtered/preserved (1)	11	N/A	2017/10/25	BBY6SOP-00003	SM 22 5310 C m
Carbon (DOC) - field filtered/preserved (1)	27	N/A	2017/10/27	BBY6SOP-00003	SM 22 5310 C m
Carbon (DOC) - field filtered/preserved (1)	1	N/A	2017/10/31	BBY6SOP-00003	SM 22 5310 C m
Carbon (DOC) - field filtered/preserved (1)	1	N/A	2017/11/03	BBY6SOP-00003	SM 22 5310 C m
Conductance - Low Level	35	2017/10/25	2017/10/25	BBY6SOP-00026	SM 22 2510 B m
Conductance - Low Level	5	2017/10/26	2017/10/26	BBY6SOP-00026	SM 22 2510 B m
Fluoride - Low Level	40	N/A	2017/10/26	BBY6SOP-00048	SM 22 4500-F C m
Hardness Total (calculated as CaCO3) (2)	18	N/A	2017/10/27	BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO3) (2)	20	N/A	2017/10/30	BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO3) (2)	2	N/A	2017/11/01	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3)	20	N/A	2017/10/26	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3)	20	N/A	2017/10/27	BBY WI-00033	Auto Calc
Mercury (Dissolved-LowLevel) by CVAf	40	N/A	2017/10/30	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Total-LowLevel) by CVAf	6	2017/10/30	2017/10/30	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Total-LowLevel) by CVAf	34	2017/10/31	2017/10/31	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	20	N/A	2017/10/26	BBY7SOP-00002	EPA 6020B R2 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	20	N/A	2017/10/27	BBY7SOP-00002	EPA 6020B R2 m
Elements by ICPMS Low Level (dissolved)	11	N/A	2017/10/25	BBY7SOP-00002	EPA 6020B R2 m
Elements by ICPMS Low Level (dissolved)	20	N/A	2017/10/26	BBY7SOP-00002	EPA 6020B R2 m
Elements by ICPMS Low Level (dissolved)	9	N/A	2017/10/27	BBY7SOP-00002	EPA 6020B R2 m
Elements by ICPMS Digested LL (total)	20	2017/10/26	2017/10/28	BBY7SOP-00003,	BCLM2005,EPA6020bR2m

Your Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

Attention:David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
2289 BURRARD STREET
VANCOUVER, BC
CANADA V6J 3H9

Your C.O.C. #: 538344-01-01, 538344-02-01, 538344-03-01, 538344-04-01, 538344-05-01

Report Date: 2017/11/03
Report #: R2471807
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B793988

Received: 2017/10/23, 15:40

Sample Matrix: Water
Samples Received: 40

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Elements by ICPMS Digested LL (total)	2	2017/10/26	2017/10/31	BBY7SOP-00003,	BCLM2005,EPA6020bR2m
Na, K, Ca, Mg, S by CRC ICPMS (total)	18	N/A	2017/10/27	BBY7SOP-00003,	BCLM2005,EPA6020bR2m
Na, K, Ca, Mg, S by CRC ICPMS (total)	20	N/A	2017/10/30	BBY7SOP-00003,	BCLM2005,EPA6020bR2m
Na, K, Ca, Mg, S by CRC ICPMS (total)	2	N/A	2017/11/01	BBY7SOP-00003,	BCLM2005,EPA6020bR2m
Elements by ICPMS Low Level (total)	18	N/A	2017/10/27	BBY7SOP-00003,	BCLM2005,EPA6020bR2m
Ammonia-N (Preserved)	34	N/A	2017/10/26	BBY6SOP-00009	EPA 350.1 m
Ammonia-N (Preserved)	6	N/A	2017/10/27	BBY6SOP-00009	EPA 350.1 m
Nitrate+Nitrite (N) (low level)	35	N/A	2017/10/25	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrate+Nitrite (N) (low level)	5	N/A	2017/10/26	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrite (N) (low level)	35	N/A	2017/10/25	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrite (N) (low level)	5	N/A	2017/10/26	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrogen - Nitrate (as N) Low Level Calc	35	N/A	2017/10/26	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrogen - Nitrate (as N) Low Level Calc	5	N/A	2017/10/27	BBY6SOP-00010	SM 22 4500-NO3- I m
ORP Analysis on Water by ARD LAB	40	N/A	2017/10/30	BBY0SOP-00004	SM 22 2580 B
Filter and HNO3 Preserve for Metals	39	N/A	2017/10/25	BBY7 WI-00004	BCMOE Reqs 08/14
pH Water (3)	35	2017/10/25	2017/10/25	BBY6SOP-00026	SM 22 4500-H+ B m
pH Water (3)	5	2017/10/26	2017/10/26	BBY6SOP-00026	SM 22 4500-H+ B m
Sulphate - Low Level	35	N/A	2017/10/25	BBY6SOP-00017	SM 22 4500-SO42- E m
Sulphate - Low Level	5	N/A	2017/10/26	BBY6SOP-00017	SM 22 4500-SO42- E m
Total Dissolved Solids (Filt. Residue)	34	2017/10/25	2017/10/26	BBY6SOP-00033	SM 22 2540 C m
Total Dissolved Solids (Filt. Residue)	6	2017/10/26	2017/10/27	BBY6SOP-00033	SM 22 2540 C m
Carbon (Total Organic) (4)	11	N/A	2017/10/25	BBY6SOP-00003	SM 22 5310 C m
Carbon (Total Organic) (4)	27	N/A	2017/10/27	BBY6SOP-00003	SM 22 5310 C m
Carbon (Total Organic) (4)	1	N/A	2017/10/31	BBY6SOP-00003	SM 22 5310 C m
Carbon (Total Organic) (4)	1	N/A	2017/11/03	BBY6SOP-00003	SM 22 5310 C m
Total Suspended Solids-Low Level	40	2017/10/25	2017/10/26	BBY6SOP-00034	SM 22 2540 D

Your Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

Attention:David Flather

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VANCOUVER, BC
CANADA V6J 3H9

Your C.O.C. #: 538344-01-01, 538344-02-01, 538344-03-01, 538344-04-01, 538344-05-01

Report Date: 2017/11/03
Report #: R2471807
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B793988

Received: 2017/10/23, 15:40

Remarks:

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Maxxam's profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Maxxam in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported: unless indicated otherwise, associated sample data are not blank corrected.

Maxxam Analytics' liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Maxxam has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Maxxam, unless otherwise agreed in writing.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

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

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

- (1) DOC present in the sample should be considered as non-purgeable DOC.
- (2) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).
- (3) The BC-MOE and APHA Standard Method require pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the BC-MOE/APHA Standard Method holding time.
- (4) TOC present in the sample should be considered as non-purgeable TOC.

Encryption Key



Maxxam
03 Nov 2017 20:09:18

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Megan Smith, Project Manager

Email: msmith@maxxam.ca

Phone# (604) 734 7276

=====

Your Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

Attention:David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
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Report Date: 2017/11/03
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CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B793988

Received: 2017/10/23, 15:40

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SH6067		SH6067		SH6068		
Sampling Date		2017/10/20 11:50		2017/10/20 11:50		2017/10/19 14:50		
COC Number		538344-01-01		538344-01-01		538344-01-01		
	UNITS	CC-0.5	RDL	CC-0.5 Lab-Dup	QC Batch	CC-1.0	RDL	QC Batch
Parameter								
ORP	mV	281		278	8807920	284		8807920
Calculated Parameters								
Filter and HNO3 Preservation	N/A	LAB			8805320	LAB		8805320
Nitrate (N)	mg/L	0.424	0.0020		8805081	0.612	0.0020	8805081
Misc. Inorganics								
Weak Acid Dissoc. Cyanide (CN)	mg/L	0.00119	0.00050		8810355	0.00093	0.00050	8810355
Fluoride (F)	mg/L	0.082	0.010		8808183	0.090	0.010	8808183
Dissolved Organic Carbon (C)	mg/L	7.67	0.50		8810692	5.10	0.50	8810689
Alkalinity (Total as CaCO3)	mg/L	57.5	0.50		8809055	273	0.50	8807425
Total Organic Carbon (C)	mg/L	9.27	0.50		8810670	5.02	0.50	8810667
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50		8809055	5.90	0.50	8807425
Bicarbonate (HCO3)	mg/L	70.1	0.50		8809055	319	0.50	8807425
Carbonate (CO3)	mg/L	<0.50	0.50		8809055	7.08	0.50	8807425
Hydroxide (OH)	mg/L	<0.50	0.50		8809055	<0.50	0.50	8807425
Anions								
Dissolved Sulphate (SO4)	mg/L	69.3	0.50		8809740	192	0.50	8808250
Dissolved Chloride (Cl)	mg/L	0.98	0.50		8809732	0.76	0.50	8808242
Nutrients								
Total Ammonia (N)	mg/L	0.020	0.020		8809198	<0.020	0.020	8808091
Nitrate plus Nitrite (N)	mg/L	0.424	0.0020		8809772	0.612	0.0020	8808490
Nitrite (N)	mg/L	<0.0020	0.0020		8809779	<0.0020	0.0020	8808493
Physical Properties								
Conductivity	uS/cm	269	1.0		8809052	854	1.0	8807424
pH	pH	7.89			8809049	8.41		8807420
Physical Properties								
Total Suspended Solids	mg/L	<1.0	1.0		8807358	<1.0	1.0	8806589
Total Dissolved Solids	mg/L	192	10		8808639	562	10	8806545
RDL = Reportable Detection Limit								
Lab-Dup = Laboratory Initiated Duplicate								

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SH6069	SH6070	SH6070	SH6071		SH6072		
Sampling Date		2017/10/19 15:20	2017/10/20 12:10	2017/10/20 12:10	2017/10/19 16:35		2017/10/20 13:30		
COC Number		538344-01-01	538344-01-01	538344-01-01	538344-01-01		538344-01-01		
	UNITS	CC-1.5	CC-3.5	CC-3.5 Lab-Dup	CC-4.5	QC Batch	CC-5.0	RDL	QC Batch
Parameter									
ORP	mV	284	285		282	8807920	282		8807920
Calculated Parameters									
Filter and HNO3 Preservation	N/A	LAB	LAB		LAB	8805320	LAB		8805320
Nitrate (N)	mg/L	0.383	0.468		0.358	8805081	0.150	0.0020	8805081
Misc. Inorganics									
Weak Acid Dissoc. Cyanide (CN)	mg/L	0.00090	0.00087		0.00100	8810355	0.00115	0.00050	8810355
Fluoride (F)	mg/L	0.077	0.065		0.069	8808183	0.029	0.010	8808183
Dissolved Organic Carbon (C)	mg/L	7.85	8.01	7.81	6.80	8810689	9.25	0.50	8810689
Alkalinity (Total as CaCO3)	mg/L	120	97.0		59.8	8807298	11.6	0.50	8807298
Total Organic Carbon (C)	mg/L	7.67	7.64		8.16	8810667	9.61	0.50	8810670
Alkalinity (PP as CaCO3)	mg/L	<0.50	<0.50		<0.50	8807298	<0.50	0.50	8807298
Bicarbonate (HCO3)	mg/L	147	118		72.9	8807298	14.2	0.50	8807298
Carbonate (CO3)	mg/L	<0.50	<0.50		<0.50	8807298	<0.50	0.50	8807298
Hydroxide (OH)	mg/L	<0.50	<0.50		<0.50	8807298	<0.50	0.50	8807298
Anions									
Dissolved Sulphate (SO4)	mg/L	127	100		62.3	8808236	0.67	0.50	8808236
Dissolved Chloride (Cl)	mg/L	0.60	0.83		1.0	8808228	0.83	0.50	8808228
Nutrients									
Total Ammonia (N)	mg/L	0.037	0.024		0.024	8808091	0.040	0.020	8808094
Nitrate plus Nitrite (N)	mg/L	0.383	0.468		0.358	8808487	0.150	0.0020	8808490
Nitrite (N)	mg/L	<0.0020	<0.0020		<0.0020	8808489	<0.0020	0.0020	8808493
Physical Properties									
Conductivity	uS/cm	494	399		260	8807416	34.5	1.0	8807416
pH	pH	8.07	8.06		7.92	8807415	7.23		8807415
Physical Properties									
Total Suspended Solids	mg/L	<1.0	1.7		1.9	8806589	<1.0	1.0	8806589
Total Dissolved Solids	mg/L	316	260		172	8806545	28	10	8806573
RDL = Reportable Detection Limit									
Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SH6072		SH6073		SH6074		SH6074	
Sampling Date		2017/10/20 13:30		2017/10/20 14:10		2017/10/20 13:50		2017/10/20 13:50	
COC Number		538344-01-01		538344-01-01		538344-01-01		538344-01-01	
	UNITS	CC-5.0 Lab-Dup	QC Batch	CC-5.5	QC Batch	CC-6.0	RDL	CC-6.0 Lab-Dup	QC Batch
Parameter									
ORP	mV		8807920	294	8807920	286		287	8807920
Calculated Parameters									
Filter and HNO3 Preservation	N/A		8805320	LAB	8805320	LAB			8805320
Nitrate (N)	mg/L		8805081	0.149	8805081	0.129	0.0020		8805081
Misc. Inorganics									
Weak Acid Dissoc. Cyanide (CN)	mg/L		8810355	0.00128	8810355	0.00133	0.00050		8810355
Fluoride (F)	mg/L		8808183	0.024	8808183	0.027	0.010		8808183
Dissolved Organic Carbon (C)	mg/L		8810689	12.2	8810689	10.1	0.50		8810689
Alkalinity (Total as CaCO3)	mg/L		8807298	6.35	8807298	10.9	0.50		8807298
Total Organic Carbon (C)	mg/L		8810670	11.0	8810667	9.48	0.50		8810667
Alkalinity (PP as CaCO3)	mg/L		8807298	<0.50	8807298	<0.50	0.50		8807298
Bicarbonate (HCO3)	mg/L		8807298	7.75	8807298	13.2	0.50		8807298
Carbonate (CO3)	mg/L		8807298	<0.50	8807298	<0.50	0.50		8807298
Hydroxide (OH)	mg/L		8807298	<0.50	8807298	<0.50	0.50		8807298
Anions									
Dissolved Sulphate (SO4)	mg/L		8808236	1.97	8808236	0.75	0.50		8808236
Dissolved Chloride (Cl)	mg/L		8808228	0.62	8808228	0.54	0.50		8808228
Nutrients									
Total Ammonia (N)	mg/L		8808094	<0.020	8808091	0.034	0.020		8809205
Nitrate plus Nitrite (N)	mg/L	0.149	8808490	0.149	8808487	0.129	0.0020		8808487
Nitrite (N)	mg/L	<0.0020	8808493	<0.0020	8808489	<0.0020	0.0020		8808489
Physical Properties									
Conductivity	uS/cm		8807416	26.7	8807416	31.5	1.0		8807416
pH	pH		8807415	6.93	8807415	7.09			8807415
Physical Properties									
Total Suspended Solids	mg/L		8806589	16.7	8806589	<1.0	1.0		8806592
Total Dissolved Solids	mg/L	28	8806573	48	8806545	40	10		8806573
RDL = Reportable Detection Limit									
Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SH6075		SH6076			SH6077		
Sampling Date		2017/10/20 14:25		2017/10/20 12:35			2017/10/19 17:25		
COC Number		538344-01-01		538344-01-01			538344-02-01		
	UNITS	CC-A	QC Batch	CC-B	RDL	QC Batch	CC-C	RDL	QC Batch
Parameter									
ORP	mV	291	8807920	291		8807920	291		8807920
Calculated Parameters									
Filter and HNO3 Preservation	N/A	LAB	8805320	LAB		8805320	LAB		8805320
Nitrate (N)	mg/L	0.401	8805081	0.380	0.0020	8805081	0.613	0.0020	8805081
Misc. Inorganics									
Weak Acid Dissoc. Cyanide (CN)	mg/L	0.00101	8810355	0.00105	0.00050	8810355	0.00095	0.00050	8810355
Fluoride (F)	mg/L	0.051	8808183	0.078	0.010	8808183	0.088	0.010	8808183
Dissolved Organic Carbon (C)	mg/L	6.47	8810689	5.84	0.50	8810689	5.22	0.50	8810689
Alkalinity (Total as CaCO3)	mg/L	54.3	8807298	139	0.50	8807425	269	0.50	8807425
Total Organic Carbon (C)	mg/L	7.60	8810670	6.45	0.50	8810667	6.83	0.50	8810667
Alkalinity (PP as CaCO3)	mg/L	<0.50	8807298	<0.50	0.50	8807425	4.97	0.50	8807425
Bicarbonate (HCO3)	mg/L	66.2	8807298	170	0.50	8807425	316	0.50	8807425
Carbonate (CO3)	mg/L	<0.50	8807298	<0.50	0.50	8807425	5.96	0.50	8807425
Hydroxide (OH)	mg/L	<0.50	8807298	<0.50	0.50	8807425	<0.50	0.50	8807425
Anions									
Dissolved Sulphate (SO4)	mg/L	72.6	8808236	138	0.50	8808236	191	0.50	8808250
Dissolved Chloride (Cl)	mg/L	<0.50	8808228	0.79	0.50	8808228	0.77	0.50	8808242
Nutrients									
Total Ammonia (N)	mg/L	0.025	8808094	<0.020	0.020	8808094	0.040	0.020	8808091
Nitrate plus Nitrite (N)	mg/L	0.401	8808487	0.380	0.0020	8808490	0.613	0.0020	8808490
Nitrite (N)	mg/L	<0.0020	8808489	<0.0020	0.0020	8808493	<0.0020	0.0020	8808493
Physical Properties									
Conductivity	uS/cm	278	8807416	539	1.0	8807424	852	1.0	8807424
pH	pH	7.87	8807415	8.21		8807420	8.41		8807420
Physical Properties									
Total Suspended Solids	mg/L	<1.0	8806592	<1.0	1.0	8806592	42.1 (1)	1.1	8806592
Total Dissolved Solids	mg/L	170	8806573	352	10	8806573	574	10	8806545
RDL = Reportable Detection Limit									
(1) RDL raised due to limited initial sample amount.									

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SH6078	SH6078		SH6079		SH6080		
Sampling Date		2017/10/20 13:10	2017/10/20 13:10		2017/10/19 14:00		2017/10/20 15:40		
COC Number		538344-02-01	538344-02-01		538344-02-01		538344-02-01		
	UNITS	CC-D	CC-D Lab-Dup	QC Batch	HC-2.5	QC Batch	HC-5.0	RDL	QC Batch
Parameter									
ORP	mV	290		8807920	288	8807920	290		8807920
Calculated Parameters									
Filter and HNO3 Preservation	N/A	LAB		8805320	LAB	8805320	LAB		8805320
Nitrate (N)	mg/L	0.700		8805081	0.651	8805081	0.494	0.0020	8805081
Misc. Inorganics									
Weak Acid Dissoc. Cyanide (CN)	mg/L	0.00088		8810355	0.00111	8810355	0.00076	0.00050	8813885
Fluoride (F)	mg/L	0.080		8808183	0.060	8808183	0.079	0.010	8808371
Dissolved Organic Carbon (C)	mg/L	3.00		8813820	6.97	8810689	8.54	0.50	8810692
Alkalinity (Total as CaCO3)	mg/L	269		8807298	82.9	8807298	77.2	0.50	8807425
Total Organic Carbon (C)	mg/L	3.29		8813837	7.60	8810667	9.22	0.50	8810670
Alkalinity (PP as CaCO3)	mg/L	<0.50		8807298	<0.50	8807298	<0.50	0.50	8807425
Bicarbonate (HCO3)	mg/L	328		8807298	101	8807298	94.2	0.50	8807425
Carbonate (CO3)	mg/L	<0.50		8807298	<0.50	8807298	<0.50	0.50	8807425
Hydroxide (OH)	mg/L	<0.50		8807298	<0.50	8807298	<0.50	0.50	8807425
Anions									
Dissolved Sulphate (SO4)	mg/L	179	178	8808236	39.5	8808236	48.0	0.50	8808236
Dissolved Chloride (Cl)	mg/L	0.78	0.78	8808228	0.63	8808228	1.1	0.50	8808228
Nutrients									
Total Ammonia (N)	mg/L	<0.020	<0.020	8808091	0.038	8808094	0.033	0.020	8808094
Nitrate plus Nitrite (N)	mg/L	0.700		8808487	0.651	8808487	0.494	0.0020	8808490
Nitrite (N)	mg/L	<0.0020		8808489	<0.0020	8808489	<0.0020	0.0020	8808493
Physical Properties									
Conductivity	uS/cm	820		8807416	258	8807416	263	1.0	8807424
pH	pH	8.30		8807415	8.03	8807415	8.05		8807420
Physical Properties									
Total Suspended Solids	mg/L	4.6		8806592	<1.0	8806592	<1.0	1.0	8806592
Total Dissolved Solids	mg/L	536		8806573	168	8806545	172	10	8806573
RDL = Reportable Detection Limit									
Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SH6080		SH6081	SH6081		SH6082		
Sampling Date		2017/10/20 15:40		2017/10/20 16:35	2017/10/20 16:35		2017/10/20 15:15		
COC Number		538344-02-01		538344-02-01	538344-02-01		538344-02-01		
	UNITS	HC-5.0 Lab-Dup	QC Batch	HC-A	HC-A Lab-Dup	QC Batch	HC-B	RDL	QC Batch
Parameter									
ORP	mV		8807920	291		8807920	292		8807920
Calculated Parameters									
Filter and HNO3 Preservation	N/A		8805320	LAB		8805320	LAB		8805320
Nitrate (N)	mg/L		8805081	0.508		8805081	0.547	0.0020	8805081
Misc. Inorganics									
Weak Acid Dissoc. Cyanide (CN)	mg/L	0.00084	8813885	0.00085		8813885	0.00081	0.00050	8813885
Fluoride (F)	mg/L		8808371	0.062	0.060	8808371	0.058	0.010	8808371
Dissolved Organic Carbon (C)	mg/L		8810692	7.82		8810692	9.00	0.50	8810689
Alkalinity (Total as CaCO3)	mg/L		8807425	76.0		8807425	80.7	0.50	8807425
Total Organic Carbon (C)	mg/L		8810670	8.75		8810667	8.39	0.50	8810670
Alkalinity (PP as CaCO3)	mg/L		8807425	<0.50		8807425	<0.50	0.50	8807425
Bicarbonate (HCO3)	mg/L		8807425	92.7		8807425	98.5	0.50	8807425
Carbonate (CO3)	mg/L		8807425	<0.50		8807425	<0.50	0.50	8807425
Hydroxide (OH)	mg/L		8807425	<0.50		8807425	<0.50	0.50	8807425
Anions									
Dissolved Sulphate (SO4)	mg/L		8808236	49.4		8808250	48.5	0.50	8808250
Dissolved Chloride (Cl)	mg/L		8808228	0.92		8808242	0.94	0.50	8808242
Nutrients									
Total Ammonia (N)	mg/L		8808094	<0.020		8808091	<0.020	0.020	8808094
Nitrate plus Nitrite (N)	mg/L		8808490	0.508		8808490	0.547	0.0020	8808490
Nitrite (N)	mg/L		8808493	<0.0020		8808493	<0.0020	0.0020	8808493
Physical Properties									
Conductivity	uS/cm		8807424	264		8807424	266	1.0	8807424
pH	pH		8807420	8.05		8807420	8.08		8807420
Physical Properties									
Total Suspended Solids	mg/L		8806592	<1.0		8806592	<1.0	1.0	8806592
Total Dissolved Solids	mg/L		8806573	162		8806573	166	10	8806573
RDL = Reportable Detection Limit									
Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SH6083		SH6084		SH6084	
Sampling Date		2017/10/20 14:50		2017/10/21 12:25		2017/10/21 12:25	
COC Number		538344-02-01		538344-02-01		538344-02-01	
	UNITS	HC-C	QC Batch	IC-0.5	RDL	IC-0.5 Lab-Dup	QC Batch
Parameter							
ORP	mV	292	8807920	292		293	8807920
Calculated Parameters							
Filter and HNO3 Preservation	N/A	LAB	8805320	LAB			8805320
Nitrate (N)	mg/L	0.571	8805081	0.661	0.0020		8805081
Misc. Inorganics							
Weak Acid Dissoc. Cyanide (CN)	mg/L	0.00087	8813885	0.00090	0.00050		8813885
Fluoride (F)	mg/L	0.058	8808371	0.098	0.010		8808371
Dissolved Organic Carbon (C)	mg/L	5.22	8806958	7.79	0.50		8806958
Alkalinity (Total as CaCO3)	mg/L	82.1	8807425	46.3	0.50		8807298
Total Organic Carbon (C)	mg/L	6.91	8806960	9.57	0.50		8806960
Alkalinity (PP as CaCO3)	mg/L	<0.50	8807425	<0.50	0.50		8807298
Bicarbonate (HCO3)	mg/L	100	8807425	56.5	0.50		8807298
Carbonate (CO3)	mg/L	<0.50	8807425	<0.50	0.50		8807298
Hydroxide (OH)	mg/L	<0.50	8807425	<0.50	0.50		8807298
Anions							
Dissolved Sulphate (SO4)	mg/L	50.3	8808250	89.5	0.50		8808236
Dissolved Chloride (Cl)	mg/L	0.82	8808242	0.87	0.50		8808228
Nutrients							
Total Ammonia (N)	mg/L	<0.020	8808088	0.032	0.020		8808088
Nitrate plus Nitrite (N)	mg/L	0.571	8808490	0.661	0.0020		8808490
Nitrite (N)	mg/L	<0.0020	8808493	<0.0020	0.0020		8808493
Physical Properties							
Conductivity	uS/cm	277	8807424	299	1.0		8807416
pH	pH	8.06	8807420	7.82			8807415
Physical Properties							
Total Suspended Solids	mg/L	<1.0	8806592	<1.0	1.0		8806592
Total Dissolved Solids	mg/L	160	8806573	184	10		8806573
RDL = Reportable Detection Limit							
Lab-Dup = Laboratory Initiated Duplicate							

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SH6085	SH6085		SH6086	SH6086		
Sampling Date		2017/10/21 12:10	2017/10/21 12:10		2017/10/21 12:55	2017/10/21 12:55		
COC Number		538344-02-01	538344-02-01		538344-02-01	538344-02-01		
	UNITS	IC-1.5	IC-1.5 Lab-Dup	QC Batch	IC-2.5	IC-2.5 Lab-Dup	RDL	QC Batch
Parameter								
ORP	mV	293		8807920	293			8807920
Calculated Parameters								
Filter and HNO3 Preservation	N/A	LAB		8805320	LAB			8805320
Nitrate (N)	mg/L	0.476		8805081	0.357		0.0020	8805081
Misc. Inorganics								
Weak Acid Dissoc. Cyanide (CN)	mg/L	0.00091		8813885	0.00102		0.00050	8813885
Fluoride (F)	mg/L	0.061		8808371	0.047		0.010	8808371
Dissolved Organic Carbon (C)	mg/L	6.30		8806958	7.98	8.85	0.50	8806959
Alkalinity (Total as CaCO3)	mg/L	57.9	59.9	8807425	16.8		0.50	8807298
Total Organic Carbon (C)	mg/L	8.64		8806960	9.79		0.50	8806960
Alkalinity (PP as CaCO3)	mg/L	<0.50	<0.50	8807425	<0.50		0.50	8807298
Bicarbonate (HCO3)	mg/L	70.7	73.1	8807425	20.5		0.50	8807298
Carbonate (CO3)	mg/L	<0.50	<0.50	8807425	<0.50		0.50	8807298
Hydroxide (OH)	mg/L	<0.50	<0.50	8807425	<0.50		0.50	8807298
Anions								
Dissolved Sulphate (SO4)	mg/L	23.6		8808236	1.69		0.50	8808236
Dissolved Chloride (Cl)	mg/L	0.78		8808228	0.52		0.50	8808228
Nutrients								
Total Ammonia (N)	mg/L	0.037		8808088	<0.020		0.020	8808088
Nitrate plus Nitrite (N)	mg/L	0.476		8808490	0.357		0.0020	8808487
Nitrite (N)	mg/L	<0.0020		8808493	<0.0020		0.0020	8808489
Physical Properties								
Conductivity	uS/cm	169	168	8807424	49.6		1.0	8807416
pH	pH	7.92	7.96	8807420	7.42			8807415
Physical Properties								
Total Suspended Solids	mg/L	<1.0		8806592	<1.0		1.0	8806592
Total Dissolved Solids	mg/L	100		8806573	44		10	8806587
RDL = Reportable Detection Limit								
Lab-Dup = Laboratory Initiated Duplicate								

Maxxam Job #: B793988
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LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
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RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SH6087	SH6087			SH6088		
Sampling Date		2017/10/21 13:15	2017/10/21 13:15			2017/10/21 13:40		
COC Number		538344-03-01	538344-03-01			538344-03-01		
	UNITS	IC-3.0	IC-3.0 Lab-Dup	RDL	QC Batch	IC-4.5	RDL	QC Batch
Parameter								
ORP	mV	295			8807920	295		8807920
Calculated Parameters								
Filter and HNO3 Preservation	N/A	LAB			8805320	LAB		8805320
Nitrate (N)	mg/L	0.902		0.0020	8805081	0.465	0.0020	8805081
Misc. Inorganics								
Weak Acid Dissoc. Cyanide (CN)	mg/L	0.00096		0.00050	8813885	0.00094	0.00050	8813885
Fluoride (F)	mg/L	0.065		0.010	8808371	0.069	0.010	8808371
Dissolved Organic Carbon (C)	mg/L	8.71		0.50	8810692	7.49	0.50	8818954
Alkalinity (Total as CaCO3)	mg/L	67.4		0.50	8807425	49.3	0.50	8807298
Total Organic Carbon (C)	mg/L	10.0		0.50	8810670	7.71	0.50	8818956
Alkalinity (PP as CaCO3)	mg/L	<0.50		0.50	8807425	<0.50	0.50	8807298
Bicarbonate (HCO3)	mg/L	82.2		0.50	8807425	60.1	0.50	8807298
Carbonate (CO3)	mg/L	<0.50		0.50	8807425	<0.50	0.50	8807298
Hydroxide (OH)	mg/L	<0.50		0.50	8807425	<0.50	0.50	8807298
Anions								
Dissolved Sulphate (SO4)	mg/L	61.4		0.50	8808250	43.3	0.50	8808236
Dissolved Chloride (Cl)	mg/L	0.68		0.50	8808242	0.88	0.50	8808228
Nutrients								
Total Ammonia (N)	mg/L	<0.020	<0.020	0.020	8808094	<0.020	0.020	8808088
Nitrate plus Nitrite (N)	mg/L	0.902		0.0020	8808490	0.465	0.0020	8808490
Nitrite (N)	mg/L	<0.0020		0.0020	8808493	<0.0020	0.0020	8808493
Physical Properties								
Conductivity	uS/cm	279		1.0	8807424	206	1.0	8807416
pH	pH	7.99			8807420	7.86		8807415
Physical Properties								
Total Suspended Solids	mg/L	<1.1 (1)		1.1	8806592	<1.0	1.0	8806592
Total Dissolved Solids	mg/L	168		10	8806587	118	10	8806587
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate (1) RDL raised due to limited initial sample amount.								

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
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RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SH6089		SH6090	SH6090		SH6091		
Sampling Date		2017/10/21 09:35		2017/10/21 10:30	2017/10/21 10:30		2017/10/21 11:00		
COC Number		538344-03-01		538344-03-01	538344-03-01		538344-03-01		
	UNITS	ML-1.0 (YT-24)	QC Batch	ML-A	ML-A Lab-Dup	QC Batch	ML-B	RDL	QC Batch
Parameter									
ORP	mV	295	8807920	295		8807920	294		8807920
Calculated Parameters									
Filter and HNO3 Preservation	N/A	LAB	8805320	LAB		8805320	LAB		8805320
Nitrate (N)	mg/L	1.02	8805081	0.817		8805081	1.31	0.0020	8805081
Misc. Inorganics									
Weak Acid Dissoc. Cyanide (CN)	mg/L	0.00104	8813885	0.00109		8813885	0.00068	0.00050	8813885
Fluoride (F)	mg/L	0.079	8808371	0.070		8808371	0.043	0.010	8808371
Dissolved Organic Carbon (C)	mg/L	9.13	8810689	9.04		8810692	7.81	0.50	8806958
Alkalinity (Total as CaCO3)	mg/L	62.1	8807298	84.2		8807425	38.6	0.50	8807425
Total Organic Carbon (C)	mg/L	8.56	8810667	9.00		8810667	9.80	0.50	8806960
Alkalinity (PP as CaCO3)	mg/L	<0.50	8807298	<0.50		8807425	<0.50	0.50	8807425
Bicarbonate (HCO3)	mg/L	75.7	8807298	103		8807425	47.1	0.50	8807425
Carbonate (CO3)	mg/L	<0.50	8807298	<0.50		8807425	<0.50	0.50	8807425
Hydroxide (OH)	mg/L	<0.50	8807298	<0.50		8807425	<0.50	0.50	8807425
Anions									
Dissolved Sulphate (SO4)	mg/L	90.4	8808236	114	114	8808250	31.0	0.50	8808250
Dissolved Chloride (Cl)	mg/L	1.7	8808228	1.3	1.2	8808242	1.1	0.50	8808242
Nutrients									
Total Ammonia (N)	mg/L	0.044	8808094	<0.020		8808094	0.026	0.020	8808088
Nitrate plus Nitrite (N)	mg/L	1.02	8808490	0.817		8808490	1.31	0.0020	8808495
Nitrite (N)	mg/L	<0.0020	8808493	<0.0020		8808493	0.0027	0.0020	8808497
Physical Properties									
Conductivity	uS/cm	330	8807416	417		8807424	164	1.0	8807424
pH	pH	7.93	8807415	8.06		8807420	7.71		8807420
Physical Properties									
Total Suspended Solids	mg/L	<1.0	8806592	<1.0		8806592	39.3	1.0	8806592
Total Dissolved Solids	mg/L	202	8806587	258		8806587	102	10	8806587
RDL = Reportable Detection Limit									
Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SH6091			SH6092		SH6093		
Sampling Date		2017/10/21 11:00			2017/10/21 11:25		2017/10/20 10:35		
COC Number		538344-03-01			538344-03-01		538344-03-01		
	UNITS	ML-B Lab-Dup	RDL	QC Batch	ML-C (YUK-24-2)	QC Batch	YUK-2.0	RDL	QC Batch
Parameter									
ORP	mV			8807920	295	8807920	297		8807920
Calculated Parameters									
Filter and HNO3 Preservation	N/A			8805320	LAB	8805320	LAB		8805320
Nitrate (N)	mg/L		0.0020	8805081	1.97	8805081	0.0316	0.0020	8805081
Misc. Inorganics									
Weak Acid Dissoc. Cyanide (CN)	mg/L		0.00050	8813885	0.00107	8813885	0.00092	0.00050	8813885
Fluoride (F)	mg/L		0.010	8808371	0.038	8808371	0.120	0.010	8808371
Dissolved Organic Carbon (C)	mg/L		0.50	8806958	7.94	8806958	<0.50	0.50	8806958
Alkalinity (Total as CaCO3)	mg/L		0.50	8807425	20.3	8807425	79.0	0.50	8807425
Total Organic Carbon (C)	mg/L		0.50	8806960	7.64	8806957	2.30	0.50	8806960
Alkalinity (PP as CaCO3)	mg/L		0.50	8807425	<0.50	8807425	<0.50	0.50	8807425
Bicarbonate (HCO3)	mg/L		0.50	8807425	24.8	8807425	96.4	0.50	8807425
Carbonate (CO3)	mg/L		0.50	8807425	<0.50	8807425	<0.50	0.50	8807425
Hydroxide (OH)	mg/L		0.50	8807425	<0.50	8807425	<0.50	0.50	8807425
Anions									
Dissolved Sulphate (SO4)	mg/L		0.50	8808250	4.96	8808250	27.9	0.50	8808250
Dissolved Chloride (Cl)	mg/L		0.50	8808242	1.1	8808242	0.63	0.50	8808242
Nutrients									
Total Ammonia (N)	mg/L		0.020	8808088	<0.020	8808087	0.024	0.020	8808088
Nitrate plus Nitrite (N)	mg/L	1.30	0.0020	8808495	1.97	8808490	0.0351	0.0020	8808495
Nitrite (N)	mg/L	0.0020	0.0020	8808497	<0.0020	8808493	0.0035	0.0020	8808497
Physical Properties									
Conductivity	uS/cm		1.0	8807424	76.0	8807424	214	1.0	8807424
pH	pH			8807420	7.48	8807420	8.10		8807420
Physical Properties									
Total Suspended Solids	mg/L		1.0	8806592	24.3 (1)	8806592	5.2 (1)	1.1	8806592
Total Dissolved Solids	mg/L	110	10	8806587	48	8806587	124	10	8806573
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate (1) RDL raised due to limited initial sample amount.									

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SH6094		SH6094		SH6095		
Sampling Date		2017/10/21 14:25		2017/10/21 14:25		2017/10/20 10:15		
COC Number		538344-03-01		538344-03-01		538344-03-01		
	UNITS	YUK-5.0	RDL	YUK-5.0 Lab-Dup	QC Batch	BALLARAT U/S Y.R.	RDL	QC Batch
Parameter								
ORP	mV	297		297	8807920	283		8807920
Calculated Parameters								
Filter and HNO3 Preservation	N/A	LAB			8805320	LAB		8805320
Nitrate (N)	mg/L	0.0372	0.0020		8805081	0.159	0.0020	8805081
Misc. Inorganics								
Weak Acid Dissoc. Cyanide (CN)	mg/L	0.00099	0.00050		8813885	0.00099	0.00050	8813885
Fluoride (F)	mg/L	0.110	0.010		8808371	0.180	0.010	8808371
Dissolved Organic Carbon (C)	mg/L	0.58	0.50		8806959	7.66	0.50	8810692
Alkalinity (Total as CaCO3)	mg/L	77.3	0.50		8807425	147	0.50	8809055
Total Organic Carbon (C)	mg/L	1.32	0.50		8806957	7.99	0.50	8810670
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50		8807425	<0.50	0.50	8809055
Bicarbonate (HCO3)	mg/L	94.3	0.50		8807425	180	0.50	8809055
Carbonate (CO3)	mg/L	<0.50	0.50		8807425	<0.50	0.50	8809055
Hydroxide (OH)	mg/L	<0.50	0.50		8807425	<0.50	0.50	8809055
Anions								
Dissolved Sulphate (SO4)	mg/L	26.9	0.50		8808250	164	0.50	8809740
Dissolved Chloride (Cl)	mg/L	0.58	0.50		8808242	1.2	0.50	8809732
Nutrients								
Total Ammonia (N)	mg/L	<0.020	0.020		8808087	0.020	0.020	8809201
Nitrate plus Nitrite (N)	mg/L	0.0372	0.0020		8808490	0.159	0.0020	8809772
Nitrite (N)	mg/L	<0.0020	0.0020		8808493	<0.0020	0.0020	8809779
Physical Properties								
Conductivity	uS/cm	210	1.0		8807424	593	1.0	8809052
pH	pH	8.10			8807420	8.19		8809049
Physical Properties								
Total Suspended Solids	mg/L	3.3	1.0		8806589	<1.0	1.0	8807358
Total Dissolved Solids	mg/L	98	10		8806587	392	10	8808639
RDL = Reportable Detection Limit								
Lab-Dup = Laboratory Initiated Duplicate								

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SH6096			SH6097		
Sampling Date		2017/10/21 15:55			2017/10/21 15:00		
COC Number		538344-03-01			538344-04-01		
	UNITS	BARKER U/S S.R.	RDL	QC Batch	BLACKHILLS U/S S.R.	RDL	QC Batch
Parameter							
ORP	mV	299		8807920	298		8807920
Calculated Parameters							
Filter and HNO3 Preservation	N/A	LAB		8805320	LAB		8805320
Nitrate (N)	mg/L	0.339	0.0020	8805081	0.170	0.0020	8805081
Misc. Inorganics							
Weak Acid Dissoc. Cyanide (CN)	mg/L	0.00128	0.00050	8813885	0.00127	0.00050	8813885
Fluoride (F)	mg/L	0.120	0.010	8808371	0.140	0.010	8808371
Dissolved Organic Carbon (C)	mg/L	9.45	0.50	8806958	10.4	0.50	8806959
Alkalinity (Total as CaCO3)	mg/L	133	0.50	8807425	129	0.50	8807425
Total Organic Carbon (C)	mg/L	9.05	0.50	8806957	10.7	0.50	8806960
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	8807425	<0.50	0.50	8807425
Bicarbonate (HCO3)	mg/L	162	0.50	8807425	157	0.50	8807425
Carbonate (CO3)	mg/L	<0.50	0.50	8807425	<0.50	0.50	8807425
Hydroxide (OH)	mg/L	<0.50	0.50	8807425	<0.50	0.50	8807425
Anions							
Dissolved Sulphate (SO4)	mg/L	89.0	0.50	8808250	82.0	0.50	8808250
Dissolved Chloride (Cl)	mg/L	2.6	0.50	8808242	2.0	0.50	8808242
Nutrients							
Total Ammonia (N)	mg/L	0.040	0.020	8808087	0.063	0.020	8808088
Nitrate plus Nitrite (N)	mg/L	0.341	0.0020	8808490	0.172	0.0020	8808490
Nitrite (N)	mg/L	0.0024	0.0020	8808493	0.0025	0.0020	8808493
Physical Properties							
Conductivity	uS/cm	441	1.0	8807424	421	1.0	8807424
pH	pH	8.21		8807420	8.21		8807420
Physical Properties							
Total Suspended Solids	mg/L	5.1 (1)	1.1	8807358	3.9	1.0	8807358
Total Dissolved Solids	mg/L	270	10	8806587	250	10	8806587
RDL = Reportable Detection Limit							
(1) RDL raised due to limited initial sample amount.							

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SH6098		SH6099		SH6100		
Sampling Date		2017/10/21 15:20		2017/10/21 15:45		2017/10/20 11:00		
COC Number		538344-04-01		538344-04-01		538344-04-01		
	UNITS	MAISYMAY U/S S.R.	QC Batch	STEWART D/S M.M.	QC Batch	CC-X	RDL	QC Batch
Parameter								
ORP	mV	298	8807920	297	8807920	284		8807920
Calculated Parameters								
Filter and HNO3 Preservation	N/A	LAB	8805320	LAB	8805320	LAB		8805320
Nitrate (N)	mg/L	0.143	8805081	0.114	8805081	0.370	0.0020	8805081
Misc. Inorganics								
Weak Acid Dissoc. Cyanide (CN)	mg/L	0.00105	8813885	0.00091	8813885	0.00092	0.00050	8813887
Fluoride (F)	mg/L	0.160	8808371	0.100	8808371	0.070	0.010	8808548
Dissolved Organic Carbon (C)	mg/L	5.25	8806958	2.11	8810689	8.97	0.50	8810692
Alkalinity (Total as CaCO3)	mg/L	176	8807425	118	8807298	58.8	0.50	8809055
Total Organic Carbon (C)	mg/L	8.36	8806957	2.17	8810667	8.56	0.50	8810670
Alkalinity (PP as CaCO3)	mg/L	<0.50	8807425	<0.50	8807298	<0.50	0.50	8809055
Bicarbonate (HCO3)	mg/L	215	8807425	143	8807298	71.7	0.50	8809055
Carbonate (CO3)	mg/L	<0.50	8807425	<0.50	8807298	<0.50	0.50	8809055
Hydroxide (OH)	mg/L	<0.50	8807425	<0.50	8807298	<0.50	0.50	8809055
Anions								
Dissolved Sulphate (SO4)	mg/L	145	8808250	105	8808236	63.6	0.50	8809740
Dissolved Chloride (Cl)	mg/L	1.6	8808242	0.84	8808228	0.85	0.50	8809732
Nutrients								
Total Ammonia (N)	mg/L	0.047	8808087	0.033	8808094	<0.020	0.020	8809198
Nitrate plus Nitrite (N)	mg/L	0.149	8808490	0.117	8808487	0.370	0.0020	8809772
Nitrite (N)	mg/L	0.0061	8808493	0.0029	8808489	<0.0020	0.0020	8809779
Physical Properties								
Conductivity	uS/cm	625	8807424	435	8807416	256	1.0	8809052
pH	pH	8.28	8807420	8.20	8807415	7.88		8809049
Physical Properties								
Total Suspended Solids	mg/L	11.0	8807358	8.7	8807358	<1.0	1.0	8807358
Total Dissolved Solids	mg/L	398	8806587	252	8806587	168	10	8808639
RDL = Reportable Detection Limit								

Maxxam Job #: B793988
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LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
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RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SH6100		SH6101	SH6101		SH6102		
Sampling Date		2017/10/20 11:00		2017/10/19 16:00	2017/10/19 16:00				
COC Number		538344-04-01		538344-04-01	538344-04-01		538344-05-01		
	UNITS	CC-X Lab-Dup	QC Batch	LATTE MIX	LATTE MIX Lab-Dup	QC Batch	SAMPLE C	RDL	QC Batch
Parameter									
ORP	mV		8807920	297		8807920	299		8807920
Calculated Parameters									
Filter and HNO3 Preservation	N/A		8805320	LAB		8805320	LAB		8805320
Nitrate (N)	mg/L		8805081	0.422		8805081	0.114	0.0020	8805081
Misc. Inorganics									
Weak Acid Dissoc. Cyanide (CN)	mg/L	0.00088	8813887	0.00102		8813887	0.00084	0.00050	8813887
Fluoride (F)	mg/L		8808548	0.085	0.084	8808548	0.100	0.010	8808548
Dissolved Organic Carbon (C)	mg/L		8810692	9.09		8810689	2.17	0.50	8810689
Alkalinity (Total as CaCO3)	mg/L		8809055	63.6		8807298	117	0.50	8807298
Total Organic Carbon (C)	mg/L		8810670	9.25		8810667	2.05	0.50	8810667
Alkalinity (PP as CaCO3)	mg/L		8809055	<0.50		8807298	<0.50	0.50	8807298
Bicarbonate (HCO3)	mg/L		8809055	77.6		8807298	143	0.50	8807298
Carbonate (CO3)	mg/L		8809055	<0.50		8807298	<0.50	0.50	8807298
Hydroxide (OH)	mg/L		8809055	<0.50		8807298	<0.50	0.50	8807298
Anions									
Dissolved Sulphate (SO4)	mg/L		8809740	70.4		8808236	106	0.50	8808236
Dissolved Chloride (Cl)	mg/L		8809732	1.1		8808228	0.69	0.50	8808228
Nutrients									
Total Ammonia (N)	mg/L		8809198	<0.020		8808091	0.027	0.020	8808094
Nitrate plus Nitrite (N)	mg/L		8809772	0.422		8808490	0.116	0.0020	8808487
Nitrite (N)	mg/L		8809779	<0.0020		8808493	0.0020	0.0020	8808489
Physical Properties									
Conductivity	uS/cm		8809052	285		8807416	435	1.0	8807416
pH	pH		8809049	7.95		8807415	8.19		8807415
Physical Properties									
Total Suspended Solids	mg/L		8807358	<1.0		8807358	8.6	1.0	8807358
Total Dissolved Solids	mg/L		8808639	184		8806545	246	10	8806587
RDL = Reportable Detection Limit									
Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SH6102			SH6103			SH6104		
Sampling Date					2017/10/19 19:30					
COC Number		538344-05-01			538344-05-01			538344-05-01		
	UNITS	SAMPLE C Lab-Dup	RDL	QC Batch	FIELD BLANK	RDL	QC Batch	TRIP BLANK	RDL	QC Batch
Parameter										
ORP	mV			8807920	294		8807920	296		8807920
Calculated Parameters										
Filter and HNO3 Preservation	N/A			8805320	LAB		8805320			8805320
Nitrate (N)	mg/L		0.0020	8805081	<0.0020	0.0020	8805081	<0.0020	0.0020	8805081
Misc. Inorganics										
Weak Acid Dissoc. Cyanide (CN)	mg/L		0.00050	8813887	0.00060	0.00050	8813887	0.00087	0.00050	8813887
Fluoride (F)	mg/L		0.010	8808548	<0.010	0.010	8808548	<0.010	0.010	8808548
Dissolved Organic Carbon (C)	mg/L		0.50	8810689	<0.50	0.50	8810689	1.50	0.50	8810689
Alkalinity (Total as CaCO3)	mg/L		0.50	8807298	0.63	0.50	8807298	<0.50	0.50	8806793
Total Organic Carbon (C)	mg/L	1.89	0.50	8810667	<0.50	0.50	8810667	0.64	0.50	8810667
Alkalinity (PP as CaCO3)	mg/L		0.50	8807298	<0.50	0.50	8807298	<0.50	0.50	8806793
Bicarbonate (HCO3)	mg/L		0.50	8807298	0.77	0.50	8807298	<0.50	0.50	8806793
Carbonate (CO3)	mg/L		0.50	8807298	<0.50	0.50	8807298	<0.50	0.50	8806793
Hydroxide (OH)	mg/L		0.50	8807298	<0.50	0.50	8807298	<0.50	0.50	8806793
Anions										
Dissolved Sulphate (SO4)	mg/L		0.50	8808236	<0.50	0.50	8808236	0.67	0.50	8808408
Dissolved Chloride (Cl)	mg/L		0.50	8808228	<0.50	0.50	8808228	0.57	0.50	8808405
Nutrients										
Total Ammonia (N)	mg/L		0.020	8808094	<0.020	0.020	8808094	<0.020	0.020	8808091
Nitrate plus Nitrite (N)	mg/L		0.0020	8808487	<0.0020	0.0020	8808487	<0.0020	0.0020	8808495
Nitrite (N)	mg/L		0.0020	8808489	<0.0020	0.0020	8808489	<0.0020	0.0020	8808497
Physical Properties										
Conductivity	uS/cm		1.0	8807416	1.2	1.0	8807416	<1.0	1.0	8806789
pH	pH			8807415	5.51		8807415	5.37		8806751
Physical Properties										
Total Suspended Solids	mg/L		1.0	8807358	<1.1 (1)	1.1	8807358	<1.0	1.0	8807358
Total Dissolved Solids	mg/L		10	8806587	<10	10	8806545	<10	10	8808639
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										
(1) RDL raised due to limited initial sample amount.										

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
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RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SH7906	SH7906		SH7907		
Sampling Date							
COC Number		538344-04-01	538344-04-01		538344-04-01		
	UNITS	SAMPLE A	SAMPLE A Lab-Dup	QC Batch	SAMPLE B	RDL	QC Batch
Parameter							
ORP	mV	286		8807920	288		8807920
Calculated Parameters							
Filter and HNO3 Preservation	N/A	LAB		8805320	LAB		8805320
Nitrate (N)	mg/L	0.390		8806893	0.508	0.0020	8806893
Misc. Inorganics							
Weak Acid Dissoc. Cyanide (CN)	mg/L	0.00119		8813887	0.00142	0.00050	8813887
Fluoride (F)	mg/L	0.067		8808548	0.076	0.010	8808548
Dissolved Organic Carbon (C)	mg/L	8.53	8.51	8810692	8.69	0.50	8810692
Alkalinity (Total as CaCO3)	mg/L	59.4		8809055	79.0	0.50	8809055
Total Organic Carbon (C)	mg/L	8.46		8810670	9.12	0.50	8810677
Alkalinity (PP as CaCO3)	mg/L	<0.50		8809055	<0.50	0.50	8809055
Bicarbonate (HCO3)	mg/L	72.5		8809055	96.4	0.50	8809055
Carbonate (CO3)	mg/L	<0.50		8809055	<0.50	0.50	8809055
Hydroxide (OH)	mg/L	<0.50		8809055	<0.50	0.50	8809055
Anions							
Dissolved Sulphate (SO4)	mg/L	65.4		8809740	49.0	0.50	8809740
Dissolved Chloride (Cl)	mg/L	1.1		8809732	1.1	0.50	8809732
Nutrients							
Total Ammonia (N)	mg/L	<0.020		8809200	<0.020	0.020	8809201
Nitrate plus Nitrite (N)	mg/L	0.390		8809770	0.508	0.0020	8809770
Nitrite (N)	mg/L	<0.0020		8809771	<0.0020	0.0020	8809771
Physical Properties							
Conductivity	uS/cm	258		8809052	258	1.0	8809052
pH	pH	7.90		8809049	8.00		8809049
Physical Properties							
Total Suspended Solids	mg/L	<1.0		8807358	<1.0	1.0	8807358
Total Dissolved Solids	mg/L	176		8808639	172	10	8808639
RDL = Reportable Detection Limit							
Lab-Dup = Laboratory Initiated Duplicate							

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SH6067		SH6068	SH6068	SH6068	SH6069	SH6070		
Sampling Date		2017/10/20 11:50		2017/10/19 14:50	2017/10/19 14:50	2017/10/19 14:50	2017/10/19 15:20	2017/10/20 12:10		
COC Number		538344-01-01		538344-01-01	538344-01-01	538344-01-01	538344-01-01	538344-01-01		
	UNITS	CC-0.5	QC Batch	CC-1.0	CC-1.0 Lab-Dup	CC-1.5	CC-3.5	RDL	QC Batch	

Misc. Inorganics

Dissolved Hardness (CaCO3)	mg/L	120	8804813	492		256	202	0.50	8804813
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Elements

Dissolved Mercury (Hg)	ug/L	0.0021	8812262	<0.0020		0.0024	0.0024	0.0020	8812262
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Dissolved Metals by ICPMS

Dissolved Aluminum (Al)	ug/L	27.4	8806580	6.59	6.33	25.0	19.7	0.50	8806576
Dissolved Antimony (Sb)	ug/L	0.101	8806580	0.142	0.143	0.109	0.081	0.020	8806576
Dissolved Arsenic (As)	ug/L	0.332	8806580	1.03	1.03	0.559	0.247	0.020	8806576
Dissolved Barium (Ba)	ug/L	53.4	8806580	98.5	98.8	55.6	71.5	0.020	8806576
Dissolved Beryllium (Be)	ug/L	<0.010	8806580	<0.010	<0.010	0.011	<0.010	0.010	8806576
Dissolved Bismuth (Bi)	ug/L	<0.0050	8806580	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8806576
Dissolved Boron (B)	ug/L	<10	8806580	<10	<10	<10	<10	10	8806576
Dissolved Cadmium (Cd)	ug/L	0.0075	8806580	<0.0050	<0.0050	0.0060	0.0066	0.0050	8806576
Dissolved Chromium (Cr)	ug/L	0.20	8806580	<0.10	<0.10	0.17	0.13	0.10	8806576
Dissolved Cobalt (Co)	ug/L	0.0460	8806580	0.0178	0.0191	0.0262	0.0252	0.0050	8806576
Dissolved Copper (Cu)	ug/L	1.50	8806580	0.596	0.589	1.09	0.909	0.050	8806576
Dissolved Iron (Fe)	ug/L	28.4	8806580	2.6	2.6	11.3	6.9	1.0	8806576
Dissolved Lead (Pb)	ug/L	<0.0050	8806580	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8806576
Dissolved Lithium (Li)	ug/L	1.54	8806580	5.43	5.40	2.11	0.54	0.50	8806576
Dissolved Manganese (Mn)	ug/L	14.7	8806580	0.224	0.217	4.64	0.325	0.050	8806576
Dissolved Molybdenum (Mo)	ug/L	0.764	8806580	0.322	0.329	0.262	0.346	0.050	8806576
Dissolved Nickel (Ni)	ug/L	0.810	8806580	0.385	0.418	0.400	0.422	0.020	8806576
Dissolved Phosphorus (P)	ug/L	3.3	8806580	2.7	2.7	3.2	2.8	2.0	8806576
Dissolved Selenium (Se)	ug/L	0.096	8806580	0.378	0.414	0.109	0.066	0.040	8806576
Dissolved Silicon (Si)	ug/L	5180	8806580	5480	5570	5590	4530	50	8806576
Dissolved Silver (Ag)	ug/L	<0.0050	8806580	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8806576
Dissolved Strontium (Sr)	ug/L	148	8806580	1160	1180	479	336	0.050	8806576
Dissolved Thallium (Tl)	ug/L	0.0032	8806580	0.0041	0.0038	0.0027	<0.0020	0.0020	8806576
Dissolved Tin (Sn)	ug/L	<0.20	8806580	<0.20	<0.20	<0.20	<0.20	0.20	8806576
Dissolved Titanium (Ti)	ug/L	<0.50	8806580	<0.50	<0.50	<0.50	<0.50	0.50	8806576
Dissolved Uranium (U)	ug/L	10.0	8806580	32.6	32.4	13.7	12.5	0.0020	8806576

RDL = Reportable Detection Limit

Lab-Dup = Laboratory Initiated Duplicate

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SH6067		SH6068	SH6068	SH6069	SH6070		
Sampling Date		2017/10/20 11:50		2017/10/19 14:50	2017/10/19 14:50	2017/10/19 15:20	2017/10/20 12:10		
COC Number		538344-01-01		538344-01-01	538344-01-01	538344-01-01	538344-01-01		
	UNITS	CC-0.5	QC Batch	CC-1.0	CC-1.0 Lab-Dup	CC-1.5	CC-3.5	RDL	QC Batch
Dissolved Vanadium (V)	ug/L	0.25	8806580	<0.20	<0.20	<0.20	<0.20	0.20	8806576
Dissolved Zinc (Zn)	ug/L	0.39	8806580	0.18	0.16	0.34	0.21	0.10	8806576
Dissolved Zirconium (Zr)	ug/L	0.28	8806580	<0.10	<0.10	0.32	0.31	0.10	8806576
Dissolved Calcium (Ca)	mg/L	29.5	8805096	122		67.7	53.8	0.050	8805096
Dissolved Magnesium (Mg)	mg/L	11.2	8805096	45.7		21.2	16.3	0.050	8805096
Dissolved Potassium (K)	mg/L	1.32	8805096	5.90		3.66	2.54	0.050	8805096
Dissolved Sodium (Na)	mg/L	5.16	8805096	5.43		5.13	4.70	0.050	8805096
Dissolved Sulphur (S)	mg/L	23.4	8805096	67.9		42.9	33.2	3.0	8805096
RDL = Reportable Detection Limit									
Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SH6071	SH6072	SH6073	SH6074		SH6075		
Sampling Date		2017/10/19 16:35	2017/10/20 13:30	2017/10/20 14:10	2017/10/20 13:50		2017/10/20 14:25		
COC Number		538344-01-01	538344-01-01	538344-01-01	538344-01-01		538344-01-01		
	UNITS	CC-4.5	CC-5.0	CC-5.5	CC-6.0	QC Batch	CC-A	RDL	QC Batch
Misc. Inorganics									
Dissolved Hardness (CaCO3)	mg/L	120	15.4	10.8	13.9	8804813	130	0.50	8805971
Elements									
Dissolved Mercury (Hg)	ug/L	<0.0020	0.0038	0.0036	0.0037	8812262	0.0035	0.0020	8812262
Dissolved Metals by ICPMS									
Dissolved Aluminum (Al)	ug/L	26.4	93.5	137	103	8806576	36.6	0.50	8806576
Dissolved Antimony (Sb)	ug/L	0.085	0.073	0.106	0.061	8806576	0.092	0.020	8806576
Dissolved Arsenic (As)	ug/L	0.271	0.460	0.339	0.403	8806576	0.307	0.020	8806576
Dissolved Barium (Ba)	ug/L	60.8	12.1	12.6	11.8	8806576	34.6	0.020	8806576
Dissolved Beryllium (Be)	ug/L	0.010	0.021	0.023	0.016	8806576	0.014	0.010	8806576
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	8806576	<0.0050	0.0050	8806576
Dissolved Boron (B)	ug/L	<10	<10	<10	<10	8806576	<10	10	8806576
Dissolved Cadmium (Cd)	ug/L	0.0083	0.0146	0.0129	0.0074	8806576	<0.0050	0.0050	8806576
Dissolved Chromium (Cr)	ug/L	0.18	0.41	0.51	0.42	8806576	0.20	0.10	8806576
Dissolved Cobalt (Co)	ug/L	0.0344	0.206	0.0462	0.123	8806576	0.0304	0.0050	8806576
Dissolved Copper (Cu)	ug/L	1.32	1.15	1.22	1.05	8806576	1.28	0.050	8806576
Dissolved Iron (Fe)	ug/L	16.1	187	86.3	149	8806576	16.7	1.0	8806576
Dissolved Lead (Pb)	ug/L	<0.0050	0.0086	0.0095	0.0050	8806576	<0.0050	0.0050	8806576
Dissolved Lithium (Li)	ug/L	0.63	<0.50	<0.50	<0.50	8806576	1.46	0.50	8806576
Dissolved Manganese (Mn)	ug/L	6.75	111	7.81	66.5	8806576	3.62	0.050	8806576
Dissolved Molybdenum (Mo)	ug/L	0.683	0.052	<0.050	<0.050	8806576	0.131	0.050	8806576
Dissolved Nickel (Ni)	ug/L	0.654	0.825	0.704	0.746	8806576	0.401	0.020	8806576
Dissolved Phosphorus (P)	ug/L	3.1	5.5	5.3	5.9	8806576	3.7	2.0	8806576
Dissolved Selenium (Se)	ug/L	0.068	<0.040	<0.040	<0.040	8806576	0.049	0.040	8806576
Dissolved Silicon (Si)	ug/L	4900	6300	6920	6680	8806576	5910	50	8806576
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	8806576	<0.0050	0.0050	8806576
Dissolved Strontium (Sr)	ug/L	153	19.8	15.8	18.7	8806576	222	0.050	8806576
Dissolved Thallium (Tl)	ug/L	0.0020	0.0021	<0.0020	<0.0020	8806576	0.0031	0.0020	8806576
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	8806576	<0.20	0.20	8806576
Dissolved Titanium (Ti)	ug/L	<0.50	0.58	0.70	0.51	8806576	<0.50	0.50	8806576
Dissolved Uranium (U)	ug/L	5.18	0.293	0.408	0.324	8806576	4.05	0.0020	8806576
Dissolved Vanadium (V)	ug/L	<0.20	<0.20	<0.20	<0.20	8806576	<0.20	0.20	8806576
RDL = Reportable Detection Limit									

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SH6071	SH6072	SH6073	SH6074		SH6075		
Sampling Date		2017/10/19 16:35	2017/10/20 13:30	2017/10/20 14:10	2017/10/20 13:50		2017/10/20 14:25		
COC Number		538344-01-01	538344-01-01	538344-01-01	538344-01-01		538344-01-01		
	UNITS	CC-4.5	CC-5.0	CC-5.5	CC-6.0	QC Batch	CC-A	RDL	QC Batch
Dissolved Zinc (Zn)	ug/L	0.40	1.11	1.53	0.76	8806576	0.27	0.10	8806576
Dissolved Zirconium (Zr)	ug/L	0.29	0.69	0.81	0.70	8806576	0.42	0.10	8806576
Dissolved Calcium (Ca)	mg/L	30.5	4.09	2.88	3.72	8805096	36.2	0.050	8805096
Dissolved Magnesium (Mg)	mg/L	10.8	1.25	0.888	1.11	8805096	9.54	0.050	8805096
Dissolved Potassium (K)	mg/L	1.43	0.143	0.059	0.105	8805096	1.86	0.050	8805096
Dissolved Sodium (Na)	mg/L	4.62	1.31	1.06	1.17	8805096	4.14	0.050	8805096
Dissolved Sulphur (S)	mg/L	21.4	<3.0	<3.0	<3.0	8805096	23.9	3.0	8805096
RDL = Reportable Detection Limit									

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SH6076	SH6077	SH6078		SH6079	SH6079		
Sampling Date		2017/10/20 12:35	2017/10/19 17:25	2017/10/20 13:10		2017/10/19 14:00	2017/10/19 14:00		
COC Number		538344-01-01	538344-02-01	538344-02-01		538344-02-01	538344-02-01		
	UNITS	CC-B	CC-C	CC-D	QC Batch	HC-2.5	HC-2.5 Lab-Dup	RDL	QC Batch

Misc. Inorganics

Dissolved Hardness (CaCO3)	mg/L	287	497	475	8805971	131		0.50	8805971
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Elements

Dissolved Mercury (Hg)	ug/L	0.0021	<0.0020	<0.0020	8812262	0.0044	0.0025	0.0020	8812611
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Dissolved Metals by ICPMS

Dissolved Aluminum (Al)	ug/L	24.1	7.54	4.95	8806576	39.6		0.50	8806576
Dissolved Antimony (Sb)	ug/L	0.108	0.147	0.159	8806576	0.511		0.020	8806576
Dissolved Arsenic (As)	ug/L	0.536	1.08	0.523	8806576	0.843		0.020	8806576
Dissolved Barium (Ba)	ug/L	65.0	101	94.6	8806576	40.8		0.020	8806576
Dissolved Beryllium (Be)	ug/L	<0.010	<0.010	<0.010	8806576	0.015		0.010	8806576
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	8806576	<0.0050		0.0050	8806576
Dissolved Boron (B)	ug/L	<10	<10	<10	8806576	<10		10	8806576
Dissolved Cadmium (Cd)	ug/L	<0.0050	<0.0050	<0.0050	8806576	<0.0050		0.0050	8806576
Dissolved Chromium (Cr)	ug/L	0.15	<0.10	<0.10	8806576	0.24		0.10	8806576
Dissolved Cobalt (Co)	ug/L	0.0275	0.0185	0.0205	8806576	0.0306		0.0050	8806576
Dissolved Copper (Cu)	ug/L	0.933	0.586	0.514	8806576	1.05		0.050	8806576
Dissolved Iron (Fe)	ug/L	9.5	2.8	2.4	8806576	16.8		1.0	8806576
Dissolved Lead (Pb)	ug/L	<0.0050	<0.0050	<0.0050	8806576	0.0083		0.0050	8806576
Dissolved Lithium (Li)	ug/L	1.62	5.47	5.24	8806576	1.25		0.50	8806576
Dissolved Manganese (Mn)	ug/L	1.91	0.217	4.11	8806576	2.91		0.050	8806576
Dissolved Molybdenum (Mo)	ug/L	0.465	0.342	0.300	8806576	1.53		0.050	8806576
Dissolved Nickel (Ni)	ug/L	0.314	0.435	0.432	8806576	0.446		0.020	8806576
Dissolved Phosphorus (P)	ug/L	3.3	3.0	2.9	8806576	4.0		2.0	8806576
Dissolved Selenium (Se)	ug/L	0.093	0.360	0.353	8806576	0.057		0.040	8806576
Dissolved Silicon (Si)	ug/L	5430	5680	5640	8806576	5960		50	8806576
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	8806576	<0.0050		0.0050	8806576
Dissolved Strontium (Sr)	ug/L	608	1220	1150	8806576	326		0.050	8806576
Dissolved Thallium (Tl)	ug/L	0.0022	0.0040	<0.0020	8806576	<0.0020		0.0020	8806576
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	<0.20	8806576	<0.20		0.20	8806576
Dissolved Titanium (Ti)	ug/L	<0.50	<0.50	<0.50	8806576	<0.50		0.50	8806576
Dissolved Uranium (U)	ug/L	19.3	31.9	33.6	8806576	35.8		0.0020	8806576

RDL = Reportable Detection Limit

Lab-Dup = Laboratory Initiated Duplicate

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SH6076	SH6077	SH6078		SH6079	SH6079		
Sampling Date		2017/10/20 12:35	2017/10/19 17:25	2017/10/20 13:10		2017/10/19 14:00	2017/10/19 14:00		
COC Number		538344-01-01	538344-02-01	538344-02-01		538344-02-01	538344-02-01		
	UNITS	CC-B	CC-C	CC-D	QC Batch	HC-2.5	HC-2.5 Lab-Dup	RDL	QC Batch
Dissolved Vanadium (V)	ug/L	<0.20	<0.20	<0.20	8806576	<0.20		0.20	8806576
Dissolved Zinc (Zn)	ug/L	0.34	0.20	0.21	8806576	0.36		0.10	8806576
Dissolved Zirconium (Zr)	ug/L	0.29	<0.10	<0.10	8806576	0.37		0.10	8806576
Dissolved Calcium (Ca)	mg/L	75.5	125	118	8805096	32.3		0.050	8805096
Dissolved Magnesium (Mg)	mg/L	24.0	45.2	43.6	8805096	12.2		0.050	8805096
Dissolved Potassium (K)	mg/L	4.55	5.76	5.48	8805096	2.15		0.050	8805096
Dissolved Sodium (Na)	mg/L	5.07	5.46	4.89	8805096	3.44		0.050	8805096
Dissolved Sulphur (S)	mg/L	48.9	70.3	63.3	8805096	14.6		3.0	8805096
RDL = Reportable Detection Limit									
Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SH6080	SH6081	SH6082		SH6083		
Sampling Date		2017/10/20 15:40	2017/10/20 16:35	2017/10/20 15:15		2017/10/20 14:50		
COC Number		538344-02-01	538344-02-01	538344-02-01		538344-02-01		
	UNITS	HC-5.0	HC-A	HC-B	QC Batch	HC-C	RDL	QC Batch
Misc. Inorganics								
Dissolved Hardness (CaCO3)	mg/L	131	130	134	8805971	139	0.50	8805971
Elements								
Dissolved Mercury (Hg)	ug/L	0.0022	0.0021	0.0023	8812611	0.0025	0.0020	8812611
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	ug/L	21.6	24.3	24.2	8806576	22.9	0.50	8806576
Dissolved Antimony (Sb)	ug/L	0.195	0.254	0.294	8806576	0.337	0.020	8806576
Dissolved Arsenic (As)	ug/L	0.482	0.533	0.676	8806576	0.647	0.020	8806576
Dissolved Barium (Ba)	ug/L	48.1	51.6	42.1	8806576	43.0	0.020	8806576
Dissolved Beryllium (Be)	ug/L	<0.010	<0.010	0.011	8806576	0.011	0.010	8806576
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	8806576	<0.0050	0.0050	8806576
Dissolved Boron (B)	ug/L	<10	<10	<10	8806576	<10	10	8806576
Dissolved Cadmium (Cd)	ug/L	<0.0050	0.0197	<0.0050	8806576	<0.0050	0.0050	8806576
Dissolved Chromium (Cr)	ug/L	0.21	0.23	0.21	8806576	0.18	0.10	8806576
Dissolved Cobalt (Co)	ug/L	0.0356	0.0326	0.0305	8806576	0.0319	0.0050	8806576
Dissolved Copper (Cu)	ug/L	1.36	1.38	1.02	8806576	1.02	0.050	8806576
Dissolved Iron (Fe)	ug/L	10.1	10.8	12.1	8806576	10.0	1.0	8806576
Dissolved Lead (Pb)	ug/L	<0.0050	0.0120	<0.0050	8806576	<0.0050	0.0050	8806576
Dissolved Lithium (Li)	ug/L	0.90	0.74	0.90	8806576	1.09	0.50	8806576
Dissolved Manganese (Mn)	ug/L	0.164	0.308	1.55	8806576	6.31	0.050	8806576
Dissolved Molybdenum (Mo)	ug/L	0.625	0.683	0.847	8806576	0.924	0.050	8806576
Dissolved Nickel (Ni)	ug/L	0.638	0.526	0.416	8806576	0.415	0.020	8806576
Dissolved Phosphorus (P)	ug/L	3.5	4.1	4.2	8806576	4.2	2.0	8806576
Dissolved Selenium (Se)	ug/L	0.064	0.042	<0.040	8806576	<0.040	0.040	8806576
Dissolved Silicon (Si)	ug/L	5010	5100	5370	8806576	5400	50	8806576
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	8806576	<0.0050	0.0050	8806576
Dissolved Strontium (Sr)	ug/L	258	285	291	8806576	301	0.050	8806576
Dissolved Thallium (Tl)	ug/L	0.0023	<0.0020	<0.0020	8806576	<0.0020	0.0020	8806576
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	<0.20	8806576	<0.20	0.20	8806576
Dissolved Titanium (Ti)	ug/L	<0.50	<0.50	<0.50	8806576	<0.50	0.50	8806576
Dissolved Uranium (U)	ug/L	12.4	16.1	25.5	8806576	27.5	0.0020	8806576
Dissolved Vanadium (V)	ug/L	<0.20	<0.20	<0.20	8806576	<0.20	0.20	8806576
RDL = Reportable Detection Limit								

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SH6080	SH6081	SH6082		SH6083		
Sampling Date		2017/10/20 15:40	2017/10/20 16:35	2017/10/20 15:15		2017/10/20 14:50		
COC Number		538344-02-01	538344-02-01	538344-02-01		538344-02-01		
	UNITS	HC-5.0	HC-A	HC-B	QC Batch	HC-C	RDL	QC Batch
Dissolved Zinc (Zn)	ug/L	0.19	2.11	0.19	8806576	0.68	0.10	8816333
Dissolved Zirconium (Zr)	ug/L	0.33	0.36	0.33	8806576	0.33	0.10	8806576
Dissolved Calcium (Ca)	mg/L	34.5	33.4	33.6	8805096	34.7	0.050	8805096
Dissolved Magnesium (Mg)	mg/L	10.8	11.2	12.2	8805096	12.8	0.050	8805096
Dissolved Potassium (K)	mg/L	2.37	2.39	1.77	8805096	1.80	0.050	8805096
Dissolved Sodium (Na)	mg/L	3.79	3.82	3.85	8805096	3.89	0.050	8805096
Dissolved Sulphur (S)	mg/L	17.1	17.5	17.7	8805096	17.5	3.0	8805096
RDL = Reportable Detection Limit								

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SH6084	SH6085	SH6086		SH6087		
Sampling Date		2017/10/21 12:25	2017/10/21 12:10	2017/10/21 12:55		2017/10/21 13:15		
COC Number		538344-02-01	538344-02-01	538344-02-01		538344-03-01		
	UNITS	IC-0.5	IC-1.5	IC-2.5	QC Batch	IC-3.0	RDL	QC Batch
Misc. Inorganics								
Dissolved Hardness (CaCO3)	mg/L	145	79.0	24.1	8805971	134	0.50	8805971
Elements								
Dissolved Mercury (Hg)	ug/L	0.0029	0.0035	0.0034	8812611	0.0026	0.0020	8812611
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	ug/L	53.8	37.7	102	8806576	26.5	0.50	8806576
Dissolved Antimony (Sb)	ug/L	0.093	0.110	0.116	8806576	0.327	0.020	8806576
Dissolved Arsenic (As)	ug/L	0.441	0.206	0.753	8806576	0.800	0.020	8806576
Dissolved Barium (Ba)	ug/L	34.3	33.5	13.7	8806576	47.5	0.020	8806576
Dissolved Beryllium (Be)	ug/L	0.012	0.010	0.011	8806576	0.013	0.010	8806576
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	8806576	<0.0050	0.0050	8806576
Dissolved Boron (B)	ug/L	<10	<10	<10	8806576	<10	10	8806576
Dissolved Cadmium (Cd)	ug/L	0.0216	<0.0050	<0.0050	8806576	<0.0050	0.0050	8806576
Dissolved Chromium (Cr)	ug/L	0.30	0.22	0.47	8806576	0.21	0.10	8806576
Dissolved Cobalt (Co)	ug/L	0.0454	0.0245	0.0455	8806576	0.0389	0.0050	8806576
Dissolved Copper (Cu)	ug/L	2.04	1.17	1.28	8806576	1.34	0.050	8806576
Dissolved Iron (Fe)	ug/L	31.1	16.8	214	8806576	12.1	1.0	8806576
Dissolved Lead (Pb)	ug/L	<0.0050	<0.0050	0.0093	8806576	<0.0050	0.0050	8806576
Dissolved Lithium (Li)	ug/L	2.59	3.15	0.66	8806576	<0.50	0.50	8806576
Dissolved Manganese (Mn)	ug/L	5.79	0.715	1.45	8806576	3.42	0.050	8816333
Dissolved Molybdenum (Mo)	ug/L	0.404	0.302	0.101	8806576	0.396	0.050	8806576
Dissolved Nickel (Ni)	ug/L	1.79	0.543	0.775	8806576	0.578	0.020	8806576
Dissolved Phosphorus (P)	ug/L	4.0	3.5	5.0	8806576	4.2	2.0	8806576
Dissolved Selenium (Se)	ug/L	0.229	<0.040	0.045	8806576	0.049	0.040	8806576
Dissolved Silicon (Si)	ug/L	5890	5520	6820	8806576	5050	50	8806576
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	8806576	<0.0050	0.0050	8806576
Dissolved Strontium (Sr)	ug/L	101	128	29.7	8806576	206	0.050	8806576
Dissolved Thallium (Tl)	ug/L	0.0035	0.0028	<0.0020	8806576	0.0028	0.0020	8806576
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	<0.20	8806576	<0.20	0.20	8806576
Dissolved Titanium (Ti)	ug/L	<0.50	<0.50	1.14	8806576	<0.50	0.50	8806576
Dissolved Uranium (U)	ug/L	1.14	3.18	0.570	8806576	4.84	0.0020	8806576
Dissolved Vanadium (V)	ug/L	<0.20	<0.20	0.28	8806576	<0.20	0.20	8806576
RDL = Reportable Detection Limit								

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SH6084	SH6085	SH6086		SH6087		
Sampling Date		2017/10/21 12:25	2017/10/21 12:10	2017/10/21 12:55		2017/10/21 13:15		
COC Number		538344-02-01	538344-02-01	538344-02-01		538344-03-01		
	UNITS	IC-0.5	IC-1.5	IC-2.5	QC Batch	IC-3.0	RDL	QC Batch
Dissolved Zinc (Zn)	ug/L	1.51	0.45	0.42	8806576	1.28	0.10	8816333
Dissolved Zirconium (Zr)	ug/L	0.52	0.42	1.04	8806576	0.40	0.10	8806576
Dissolved Calcium (Ca)	mg/L	34.0	20.9	6.46	8805972	41.5	0.050	8805972
Dissolved Magnesium (Mg)	mg/L	14.7	6.53	1.92	8805972	7.36	0.050	8805972
Dissolved Potassium (K)	mg/L	1.13	1.04	0.229	8805972	2.25	0.050	8805972
Dissolved Sodium (Na)	mg/L	4.15	4.27	1.68	8805972	3.99	0.050	8805972
Dissolved Sulphur (S)	mg/L	29.8	7.5	<3.0	8805972	20.4	3.0	8805972
RDL = Reportable Detection Limit								

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SH6088	SH6088	SH6089	SH6090	SH6091	SH6092		
Sampling Date		2017/10/21 13:40	2017/10/21 13:40	2017/10/21 09:35	2017/10/21 10:30	2017/10/21 11:00	2017/10/21 11:25		
COC Number		538344-03-01	538344-03-01	538344-03-01	538344-03-01	538344-03-01	538344-03-01		
	UNITS	IC-4.5	IC-4.5 Lab-Dup	ML-1.0 (YT-24)	ML-A	ML-B	ML-C (YUK-24-2)	RDL	QC Batch

Misc. Inorganics

Dissolved Hardness (CaCO3)	mg/L	90.5		151	197	72.7	32.9	0.50	8805971
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Elements

Dissolved Mercury (Hg)	ug/L	0.0026		0.0026	0.0022	0.0037	0.0068	0.0020	8812611
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Dissolved Metals by ICPMS

Dissolved Aluminum (Al)	ug/L	35.8	36.2	23.4	20.9	47.4	58.8	0.50	8806580
Dissolved Antimony (Sb)	ug/L	0.086	0.093	0.144	0.138	0.195	0.400	0.020	8806580
Dissolved Arsenic (As)	ug/L	0.306	0.317	0.327	0.363	0.350	1.29	0.020	8806580
Dissolved Barium (Ba)	ug/L	44.5	44.0	80.3	101	46.4	24.9	0.020	8806580
Dissolved Beryllium (Be)	ug/L	<0.010	<0.010	<0.010	0.012	0.020	0.016	0.010	8806580
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8806580
Dissolved Boron (B)	ug/L	<10	<10	<10	<10	<10	<10	10	8806580
Dissolved Cadmium (Cd)	ug/L	0.0078	0.0082	0.0067	0.0057	0.0077	0.0058	0.0050	8806580
Dissolved Chromium (Cr)	ug/L	0.25	0.24	0.18	0.20	0.30	0.34	0.10	8806580
Dissolved Cobalt (Co)	ug/L	0.0333	0.0318	0.0487	0.0455	0.0505	0.0569	0.0050	8806580
Dissolved Copper (Cu)	ug/L	1.46	1.44	1.33	1.33	1.50	1.52	0.050	8806580
Dissolved Iron (Fe)	ug/L	25.0	25.1	10.8	12.1	20.3	26.5	1.0	8806580
Dissolved Lead (Pb)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0061	0.0050	8806580
Dissolved Lithium (Li)	ug/L	1.12	1.13	<0.50	1.08	<0.50	<0.50	0.50	8806580
Dissolved Manganese (Mn)	ug/L	2.46	2.47	0.288	3.47	2.37	0.464	0.050	8806580
Dissolved Molybdenum (Mo)	ug/L	0.275	0.279	0.469	0.597	0.657	0.139	0.050	8806580
Dissolved Nickel (Ni)	ug/L	0.854	0.864	0.639	0.585	0.782	0.725	0.020	8806580
Dissolved Phosphorus (P)	ug/L	3.6	3.6	3.5	4.2	4.3	4.8	2.0	8806580
Dissolved Selenium (Se)	ug/L	0.063	0.051	0.053	0.044	<0.040	<0.040	0.040	8806580
Dissolved Silicon (Si)	ug/L	5100	5090	3980	4160	4490	4170	50	8806580
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8806580
Dissolved Strontium (Sr)	ug/L	128	128	254	450	119	35.1	0.050	8806580
Dissolved Thallium (Tl)	ug/L	0.0022	0.0026	<0.0020	<0.0020	<0.0020	0.0020	0.0020	8806580
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	8806580
Dissolved Titanium (Ti)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.59	0.50	8806580
Dissolved Uranium (U)	ug/L	1.02	1.00	1.56	9.24	3.15	0.330	0.0020	8806580

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SH6088	SH6088	SH6089	SH6090	SH6091	SH6092		
Sampling Date		2017/10/21 13:40	2017/10/21 13:40	2017/10/21 09:35	2017/10/21 10:30	2017/10/21 11:00	2017/10/21 11:25		
COC Number		538344-03-01	538344-03-01	538344-03-01	538344-03-01	538344-03-01	538344-03-01		
	UNITS	IC-4.5	IC-4.5 Lab-Dup	ML-1.0 (YT-24)	ML-A	ML-B	ML-C (YUK-24-2)	RDL	QC Batch
Dissolved Vanadium (V)	ug/L	0.23	0.21	<0.20	<0.20	<0.20	0.25	0.20	8806580
Dissolved Zinc (Zn)	ug/L	0.46	0.41	0.23	0.27	0.35	0.30	0.10	8806580
Dissolved Zirconium (Zr)	ug/L	0.45	0.46	0.31	0.44	0.80	0.49	0.10	8806580
Dissolved Calcium (Ca)	mg/L	24.0		42.4	51.6	21.8	10.1	0.050	8805972
Dissolved Magnesium (Mg)	mg/L	7.40		10.9	16.5	4.42	1.85	0.050	8805972
Dissolved Potassium (K)	mg/L	1.19		2.16	2.56	0.901	0.589	0.050	8805972
Dissolved Sodium (Na)	mg/L	3.80		3.98	5.11	1.96	1.22	0.050	8805972
Dissolved Sulphur (S)	mg/L	15.2		30.1	38.3	10.5	<3.0	3.0	8805972
RDL = Reportable Detection Limit									
Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SH6093	SH6094	SH6095	SH6096	SH6097		
Sampling Date		2017/10/20 10:35	2017/10/21 14:25	2017/10/20 10:15	2017/10/21 15:55	2017/10/21 15:00		
COC Number		538344-03-01	538344-03-01	538344-03-01	538344-03-01	538344-04-01		
	UNITS	YUK-2.0	YUK-5.0	BALLARAT U/S Y.R.	BARKER U/S S.R.	BLACKHILLS U/S S.R.	RDL	QC Batch

Misc. Inorganics

Dissolved Hardness (CaCO3)	mg/L	104	100	301	214	200	0.50	8805971
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Elements

Dissolved Mercury (Hg)	ug/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8812611
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Dissolved Metals by ICPMS

Dissolved Aluminum (Al)	ug/L	15.5	14.8	6.28	20.0	7.52	0.50	8806580
Dissolved Antimony (Sb)	ug/L	0.089	0.084	0.025	0.064	0.114	0.020	8806580
Dissolved Arsenic (As)	ug/L	0.358	0.345	0.179	0.384	0.872	0.020	8806580
Dissolved Barium (Ba)	ug/L	42.6	43.0	67.3	86.4	89.0	0.020	8806580
Dissolved Beryllium (Be)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	8806580
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8806580
Dissolved Boron (B)	ug/L	<10	<10	<10	<10	<10	10	8806580
Dissolved Cadmium (Cd)	ug/L	0.0272	0.0266	<0.0050	0.0193	0.0097	0.0050	8806580
Dissolved Chromium (Cr)	ug/L	<0.10	0.11	0.13	0.35	0.26	0.10	8806580
Dissolved Cobalt (Co)	ug/L	0.0104	0.0109	0.0304	0.264	0.335	0.0050	8806580
Dissolved Copper (Cu)	ug/L	0.552	0.606	1.26	1.94	1.57	0.050	8806580
Dissolved Iron (Fe)	ug/L	12.7	7.8	14.4	102	400	1.0	8806580
Dissolved Lead (Pb)	ug/L	0.0051	<0.0050	<0.0050	0.0097	0.0503	0.0050	8806580
Dissolved Lithium (Li)	ug/L	1.72	1.59	0.79	2.25	3.04	0.50	8806580
Dissolved Manganese (Mn)	ug/L	0.893	1.74	4.63	226	242	0.050	8806580
Dissolved Molybdenum (Mo)	ug/L	1.21	1.22	0.775	0.901	1.04	0.050	8806580
Dissolved Nickel (Ni)	ug/L	1.33	1.24	0.348	1.24	2.05	0.020	8806580
Dissolved Phosphorus (P)	ug/L	2.9	4.3	3.4	15.4	9.2	2.0	8806580
Dissolved Selenium (Se)	ug/L	0.312	0.303	0.134	0.178	0.220	0.040	8806580
Dissolved Silicon (Si)	ug/L	2730	2750	4350	5230	6460	50	8806580
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8806580
Dissolved Strontium (Sr)	ug/L	131	127	542	307	224	0.050	8806580
Dissolved Thallium (Tl)	ug/L	0.0022	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8806580
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	8806580
Dissolved Titanium (Ti)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	8806580
Dissolved Uranium (U)	ug/L	1.05	1.08	4.12	3.64	2.11	0.0020	8806580
Dissolved Vanadium (V)	ug/L	0.20	<0.20	0.30	0.58	0.95	0.20	8806580

RDL = Reportable Detection Limit

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SH6093	SH6094	SH6095	SH6096	SH6097		
Sampling Date		2017/10/20 10:35	2017/10/21 14:25	2017/10/20 10:15	2017/10/21 15:55	2017/10/21 15:00		
COC Number		538344-03-01	538344-03-01	538344-03-01	538344-03-01	538344-04-01		
	UNITS	YUK-2.0	YUK-5.0	BALLARAT U/S Y.R.	BARKER U/S S.R.	BLACKHILLS U/S S.R.	RDL	QC Batch
Dissolved Zinc (Zn)	ug/L	1.32	1.51	0.18	0.73	0.19	0.10	8806580
Dissolved Zirconium (Zr)	ug/L	<0.10	<0.10	0.12	0.32	0.37	0.10	8806580
Dissolved Calcium (Ca)	mg/L	28.1	27.2	69.2	53.6	52.6	0.050	8805972
Dissolved Magnesium (Mg)	mg/L	8.26	7.82	31.1	19.5	16.8	0.050	8805972
Dissolved Potassium (K)	mg/L	0.782	0.795	3.09	2.14	2.19	0.050	8805972
Dissolved Sodium (Na)	mg/L	2.11	2.10	8.89	9.64	7.52	0.050	8805972
Dissolved Sulphur (S)	mg/L	9.1	8.9	55.3	29.7	27.4	3.0	8805972
RDL = Reportable Detection Limit								

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SH6098		SH6099		SH6100		
Sampling Date		2017/10/21 15:20		2017/10/21 15:45		2017/10/20 11:00		
COC Number		538344-04-01		538344-04-01		538344-04-01		
	UNITS	MAISY MAY U/S S.R.	QC Batch	STEWART D/S M.M.	QC Batch	CC-X	RDL	QC Batch
Misc. Inorganics								
Dissolved Hardness (CaCO3)	mg/L	326	8805971	222	8805971	117	0.50	8805971
Elements								
Dissolved Mercury (Hg)	ug/L	0.0027	8812611	<0.0020	8812670	0.0021	0.0020	8812670
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	ug/L	5.15	8806580	46.5	8806580	25.7	0.50	8806580
Dissolved Antimony (Sb)	ug/L	0.062	8806580	0.112	8806580	0.092	0.020	8806580
Dissolved Arsenic (As)	ug/L	0.418	8806580	0.406	8806580	0.276	0.020	8806580
Dissolved Barium (Ba)	ug/L	88.2	8806580	65.9	8806580	64.6	0.020	8806580
Dissolved Beryllium (Be)	ug/L	<0.010	8806580	<0.010	8806580	<0.010	0.010	8806580
Dissolved Bismuth (Bi)	ug/L	<0.0050	8806580	<0.0050	8806580	<0.0050	0.0050	8806580
Dissolved Boron (B)	ug/L	<10	8806580	<10	8806580	<10	10	8806580
Dissolved Cadmium (Cd)	ug/L	0.0111	8806580	0.221	8806580	0.0085	0.0050	8806580
Dissolved Chromium (Cr)	ug/L	0.15	8806580	<0.10	8806580	0.20	0.10	8806580
Dissolved Cobalt (Co)	ug/L	0.310	8806580	0.122	8806580	0.0340	0.0050	8806580
Dissolved Copper (Cu)	ug/L	1.49	8806580	0.827	8806580	1.45	0.050	8806580
Dissolved Iron (Fe)	ug/L	22.2	8806580	7.8	8806580	17.9	1.0	8806580
Dissolved Lead (Pb)	ug/L	<0.0050	8806580	0.0050	8806580	<0.0050	0.0050	8806580
Dissolved Lithium (Li)	ug/L	3.64	8806580	4.38	8806580	0.74	0.50	8806580
Dissolved Manganese (Mn)	ug/L	338	8806580	21.0	8806580	4.99	0.050	8806580
Dissolved Molybdenum (Mo)	ug/L	1.34	8806580	0.617	8806580	0.685	0.050	8806580
Dissolved Nickel (Ni)	ug/L	2.14	8806580	7.00	8806580	0.710	0.020	8806580
Dissolved Phosphorus (P)	ug/L	4.9	8806580	2.9	8806580	7.4	2.0	8806580
Dissolved Selenium (Se)	ug/L	0.344	8806580	0.724	8806580	0.055	0.040	8806580
Dissolved Silicon (Si)	ug/L	5680	8806580	2590	8806580	4670	50	8806580
Dissolved Silver (Ag)	ug/L	<0.0050	8806580	<0.0050	8806580	<0.0050	0.0050	8806580
Dissolved Strontium (Sr)	ug/L	283	8806580	249	8806580	152	0.050	8806580
Dissolved Thallium (Tl)	ug/L	0.0025	8806580	0.0038	8806580	0.0025	0.0020	8806580
Dissolved Tin (Sn)	ug/L	<0.20	8806580	<0.20	8806580	<0.20	0.20	8806580
Dissolved Titanium (Ti)	ug/L	<0.50	8806580	<0.50	8806580	<0.50	0.50	8806580
Dissolved Uranium (U)	ug/L	2.95	8806580	1.28	8806580	4.84	0.0020	8806580
Dissolved Vanadium (V)	ug/L	0.52	8806580	<0.20	8806580	0.26	0.20	8806580
RDL = Reportable Detection Limit								

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SH6098		SH6099		SH6100		
Sampling Date		2017/10/21 15:20		2017/10/21 15:45		2017/10/20 11:00		
COC Number		538344-04-01		538344-04-01		538344-04-01		
	UNITS	MAISYMAY U/S S.R.	QC Batch	STEWART D/S M.M.	QC Batch	CC-X	RDL	QC Batch
Dissolved Zinc (Zn)	ug/L	0.16	8806580	9.76	8806580	1.15	0.10	8816333
Dissolved Zirconium (Zr)	ug/L	0.18	8806580	<0.10	8806580	0.28	0.10	8806580
Dissolved Calcium (Ca)	mg/L	74.9	8805972	54.8	8805972	29.6	0.050	8805972
Dissolved Magnesium (Mg)	mg/L	33.7	8805972	20.7	8805972	10.6	0.050	8805972
Dissolved Potassium (K)	mg/L	3.46	8805972	0.626	8805972	1.50	0.050	8805972
Dissolved Sodium (Na)	mg/L	7.48	8805972	2.48	8805972	4.61	0.050	8805972
Dissolved Sulphur (S)	mg/L	49.6	8805972	33.1	8805972	21.2	3.0	8805972
RDL = Reportable Detection Limit								

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SH6101	SH6102	SH6103	SH6104		SH7906		
Sampling Date		2017/10/19 16:00		2017/10/19 19:30					
COC Number		538344-04-01	538344-05-01	538344-05-01	538344-05-01		538344-04-01		
	UNITS	LATTE MIX	SAMPLE C	FIELD BLANK	TRIP BLANK	QC Batch	SAMPLE A	RDL	QC Batch
Misc. Inorganics									
Dissolved Hardness (CaCO3)	mg/L	129	227	<0.50	<0.50	8805971	120	0.50	8806340
Elements									
Dissolved Mercury (Hg)	ug/L	0.0025	0.0026	<0.0020	<0.0020	8812670	0.0027	0.0020	8812670
Dissolved Metals by ICPMS									
Dissolved Aluminum (Al)	ug/L	24.8	48.1	<0.50	<0.50	8806580	26.2	0.50	8806580
Dissolved Antimony (Sb)	ug/L	0.093	0.118	<0.020	<0.020	8806580	0.083	0.020	8806580
Dissolved Arsenic (As)	ug/L	0.329	0.419	<0.020	<0.020	8806580	0.281	0.020	8806580
Dissolved Barium (Ba)	ug/L	56.3	66.8	<0.020	<0.020	8806580	65.0	0.020	8806580
Dissolved Beryllium (Be)	ug/L	<0.010	<0.010	<0.010	<0.010	8806580	<0.010	0.010	8806580
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	8806580	<0.0050	0.0050	8806580
Dissolved Boron (B)	ug/L	<10	<10	<10	<10	8806580	<10	10	8806580
Dissolved Cadmium (Cd)	ug/L	0.0085	0.211	<0.0050	<0.0050	8806580	0.0067	0.0050	8806580
Dissolved Chromium (Cr)	ug/L	0.18	<0.10	<0.10	<0.10	8806580	0.19	0.10	8806580
Dissolved Cobalt (Co)	ug/L	0.0464	0.114	<0.0050	<0.0050	8806580	0.0312	0.0050	8806580
Dissolved Copper (Cu)	ug/L	1.42	0.847	<0.050	<0.050	8806580	1.38	0.050	8806580
Dissolved Iron (Fe)	ug/L	26.2	8.2	<1.0	<1.0	8806580	17.9	1.0	8806580
Dissolved Lead (Pb)	ug/L	<0.0050	0.0066	<0.0050	<0.0050	8806580	<0.0050	0.0050	8806580
Dissolved Lithium (Li)	ug/L	1.50	4.45	<0.50	<0.50	8806580	0.76	0.50	8806580
Dissolved Manganese (Mn)	ug/L	14.5	19.5	<0.050	<0.050	8806580	5.17	0.050	8806580
Dissolved Molybdenum (Mo)	ug/L	0.716	0.616	<0.050	<0.050	8806580	0.682	0.050	8806580
Dissolved Nickel (Ni)	ug/L	0.702	6.97	<0.020	<0.020	8806580	0.706	0.020	8806580
Dissolved Phosphorus (P)	ug/L	3.4	3.0	2.3	3.0	8806580	3.2	2.0	8806580
Dissolved Selenium (Se)	ug/L	0.073	0.731	<0.040	<0.040	8806580	0.086	0.040	8806580
Dissolved Silicon (Si)	ug/L	4940	2680	<50	<50	8806580	4730	50	8806580
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	8806580	<0.0050	0.0050	8806580
Dissolved Strontium (Sr)	ug/L	170	250	<0.050	<0.050	8806580	156	0.050	8806580
Dissolved Thallium (Tl)	ug/L	0.0035	0.0026	<0.0020	<0.0020	8806580	0.0021	0.0020	8806580
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	8806580	<0.20	0.20	8806580
Dissolved Titanium (Ti)	ug/L	<0.50	<0.50	<0.50	<0.50	8806580	<0.50	0.50	8806580
Dissolved Uranium (U)	ug/L	12.2	1.27	<0.0020	<0.0020	8806580	5.09	0.0020	8806580
Dissolved Vanadium (V)	ug/L	0.26	<0.20	<0.20	<0.20	8806580	0.26	0.20	8806580
RDL = Reportable Detection Limit									

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SH6101	SH6102	SH6103	SH6104		SH7906		
Sampling Date		2017/10/19 16:00		2017/10/19 19:30					
COC Number		538344-04-01	538344-05-01	538344-05-01	538344-05-01		538344-04-01		
	UNITS	LATTE MIX	SAMPLE C	FIELD BLANK	TRIP BLANK	QC Batch	SAMPLE A	RDL	QC Batch
Dissolved Zinc (Zn)	ug/L	0.40	9.78	<0.10	<0.10	8806580	0.32	0.10	8806580
Dissolved Zirconium (Zr)	ug/L	0.29	<0.10	<0.10	<0.10	8806580	0.28	0.10	8806580
Dissolved Calcium (Ca)	mg/L	31.9	56.3	<0.050	<0.050	8805972	30.0	0.050	8806341
Dissolved Magnesium (Mg)	mg/L	12.0	21.0	<0.050	<0.050	8805972	10.9	0.050	8806341
Dissolved Potassium (K)	mg/L	1.49	0.628	<0.050	<0.050	8805972	1.52	0.050	8806341
Dissolved Sodium (Na)	mg/L	5.26	2.49	<0.050	<0.050	8805972	4.65	0.050	8806341
Dissolved Sulphur (S)	mg/L	23.5	33.3	<3.0	<3.0	8805972	21.0	3.0	8806341
RDL = Reportable Detection Limit									

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SH7907		
Sampling Date				
COC Number		538344-04-01		
	UNITS	SAMPLE B	RDL	QC Batch
Misc. Inorganics				
Dissolved Hardness (CaCO3)	mg/L	123	0.50	8806340
Elements				
Dissolved Mercury (Hg)	ug/L	0.0026	0.0020	8812670
Dissolved Metals by ICPMS				
Dissolved Aluminum (Al)	ug/L	19.8	0.50	8806580
Dissolved Antimony (Sb)	ug/L	0.202	0.020	8806580
Dissolved Arsenic (As)	ug/L	0.501	0.020	8806580
Dissolved Barium (Ba)	ug/L	49.1	0.020	8806580
Dissolved Beryllium (Be)	ug/L	<0.010	0.010	8806580
Dissolved Bismuth (Bi)	ug/L	<0.0050	0.0050	8806580
Dissolved Boron (B)	ug/L	<10	10	8806580
Dissolved Cadmium (Cd)	ug/L	<0.0050	0.0050	8806580
Dissolved Chromium (Cr)	ug/L	0.20	0.10	8806580
Dissolved Cobalt (Co)	ug/L	0.0312	0.0050	8806580
Dissolved Copper (Cu)	ug/L	1.38	0.050	8806580
Dissolved Iron (Fe)	ug/L	9.9	1.0	8806580
Dissolved Lead (Pb)	ug/L	<0.0050	0.0050	8806580
Dissolved Lithium (Li)	ug/L	0.96	0.50	8806580
Dissolved Manganese (Mn)	ug/L	0.192	0.050	8806580
Dissolved Molybdenum (Mo)	ug/L	0.608	0.050	8806580
Dissolved Nickel (Ni)	ug/L	0.696	0.020	8806580
Dissolved Phosphorus (P)	ug/L	6.4	2.0	8806580
Dissolved Selenium (Se)	ug/L	0.073	0.040	8806580
Dissolved Silicon (Si)	ug/L	4670	50	8806580
Dissolved Silver (Ag)	ug/L	<0.0050	0.0050	8806580
Dissolved Strontium (Sr)	ug/L	250	0.050	8806580
Dissolved Thallium (Tl)	ug/L	0.0021	0.0020	8806580
Dissolved Tin (Sn)	ug/L	<0.20	0.20	8806580
Dissolved Titanium (Ti)	ug/L	<0.50	0.50	8806580
Dissolved Uranium (U)	ug/L	11.9	0.0020	8806580
Dissolved Vanadium (V)	ug/L	0.27	0.20	8806580
RDL = Reportable Detection Limit				

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SH7907		
Sampling Date				
COC Number		538344-04-01		
	UNITS	SAMPLE B	RDL	QC Batch
Dissolved Zinc (Zn)	ug/L	0.18	0.10	8806580
Dissolved Zirconium (Zr)	ug/L	0.32	0.10	8806580
Dissolved Calcium (Ca)	mg/L	32.0	0.050	8806341
Dissolved Magnesium (Mg)	mg/L	10.4	0.050	8806341
Dissolved Potassium (K)	mg/L	2.28	0.050	8806341
Dissolved Sodium (Na)	mg/L	3.58	0.050	8806341
Dissolved Sulphur (S)	mg/L	16.5	3.0	8806341
RDL = Reportable Detection Limit				

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		SH6067	SH6068		SH6070		SH6076		
Sampling Date		2017/10/20 11:50	2017/10/19 14:50		2017/10/20 12:10		2017/10/20 12:35		
COC Number		538344-01-01	538344-01-01		538344-01-01		538344-01-01		
	UNITS	CC-0.5	CC-1.0	QC Batch	CC-3.5	QC Batch	CC-B	RDL	QC Batch
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	121	463	8805855	188	8805855	276	0.50	8805855
Elements									
Total Mercury (Hg)	ug/L	<0.0020	<0.0020	8812408	0.0020	8812408	<0.0020	0.0020	8813221
Total Metals by ICPMS									
Total Aluminum (Al)	ug/L	40.3	8.38	8807644	19.3	8807644	25.8	0.50	8807644
Total Antimony (Sb)	ug/L	0.104	0.156	8807644	0.084	8807644	0.122	0.020	8807644
Total Arsenic (As)	ug/L	0.379	1.09	8807644	0.274	8807644	0.570	0.020	8807644
Total Barium (Ba)	ug/L	54.6	105	8807644	75.2	8807644	68.9	0.020	8807644
Total Beryllium (Be)	ug/L	<0.010	<0.010	8807644	<0.010	8807644	<0.010	0.010	8807644
Total Bismuth (Bi)	ug/L	<0.0050	<0.0050	8807644	<0.0050	8807644	<0.0050	0.0050	8807644
Total Boron (B)	ug/L	<10	<10	8807644	<10	8807644	<10	10	8807644
Total Cadmium (Cd)	ug/L	0.0100	<0.0050	8807644	0.0050	8807644	0.0050	0.0050	8807644
Total Chromium (Cr)	ug/L	0.22	0.10	8807644	0.12	8807644	0.16	0.10	8807644
Total Cobalt (Co)	ug/L	0.0550	0.0200	8807644	0.0260	8807644	0.0250	0.0050	8807644
Total Copper (Cu)	ug/L	1.54	0.640	8807644	0.966	8807644	0.992	0.050	8807644
Total Iron (Fe)	ug/L	45.0	5.2	8807644	6.9	8807644	12.3	1.0	8807644
Total Lead (Pb)	ug/L	0.0090	0.0060	8807644	<0.0050	8807644	0.0110	0.0050	8807644
Total Lithium (Li)	ug/L	1.61	5.75	8807644	0.54	8807644	1.68	0.50	8807644
Total Manganese (Mn)	ug/L	19.4	0.568	8807644	0.471	8807644	2.41	0.050	8807644
Total Molybdenum (Mo)	ug/L	0.774	0.348	8807644	0.351	8807644	0.479	0.050	8807644
Total Nickel (Ni)	ug/L	0.818	0.422	8807644	0.458	8807644	0.373	0.020	8807644
Total Phosphorus (P)	ug/L	4.2	3.2	8807644	2.1	8807644	4.0	2.0	8807644
Total Selenium (Se)	ug/L	0.096	0.360	8807644	0.075	8807644	0.087	0.040	8807644
Total Silicon (Si)	ug/L	4840	4750	8807644	3960	8807644	4610	50	8807644
Total Silver (Ag)	ug/L	<0.0050	<0.0050	8807644	<0.0050	8807644	<0.0050	0.0050	8807644
Total Strontium (Sr)	ug/L	160	1320	8807644	369	8807644	655	0.050	8807644
Total Thallium (Tl)	ug/L	0.0040	0.0040	8807644	0.0020	8807644	0.0030	0.0020	8807644
Total Tin (Sn)	ug/L	<0.20	<0.20	8807644	<0.20	8807644	<0.20	0.20	8807644
Total Titanium (Ti)	ug/L	0.99	<0.50	8807644	<0.50	8807644	0.52	0.50	8807644
Total Uranium (U)	ug/L	11.0	33.2	8807644	13.0	8807644	20.2	0.0020	8807644
Total Vanadium (V)	ug/L	0.30	0.27	8807644	0.22	8807644	0.27	0.20	8807644
RDL = Reportable Detection Limit									

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		SH6067	SH6068		SH6070		SH6076		
Sampling Date		2017/10/20 11:50	2017/10/19 14:50		2017/10/20 12:10		2017/10/20 12:35		
COC Number		538344-01-01	538344-01-01		538344-01-01		538344-01-01		
	UNITS	CC-0.5	CC-1.0	QC Batch	CC-3.5	QC Batch	CC-B	RDL	QC Batch
Total Zinc (Zn)	ug/L	1.02	0.47	8807644	0.10	8807644	0.14	0.10	8807644
Total Zirconium (Zr)	ug/L	0.28	<0.10	8807644	0.28	8807644	0.27	0.10	8807644
Total Calcium (Ca)	mg/L	29.1	113	8805097	50.3	8805973	72.8	0.050	8805973
Total Magnesium (Mg)	mg/L	11.9	43.7	8805097	15.2	8805973	23.0	0.050	8805973
Total Potassium (K)	mg/L	1.38	5.72	8805097	2.46	8805973	4.50	0.050	8805973
Total Sodium (Na)	mg/L	5.44	5.25	8805097	4.62	8805973	5.00	0.050	8805973
Total Sulphur (S)	mg/L	23.6	69.5	8805097	32.9	8805973	46.8	3.0	8805973
RDL = Reportable Detection Limit									

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		SH6083	SH6084	SH6085	SH6087	SH6088	SH6089		
Sampling Date		2017/10/20 14:50	2017/10/21 12:25	2017/10/21 12:10	2017/10/21 13:15	2017/10/21 13:40	2017/10/21 09:35		
COC Number		538344-02-01	538344-02-01	538344-02-01	538344-03-01	538344-03-01	538344-03-01		
	UNITS	HC-C	IC-0.5	IC-1.5	IC-3.0	IC-4.5	ML-1.0 (YT-24)	RDL	QC Batch
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	130	139	75.1	123	91.1	150	0.50	8805855
Elements									
Total Mercury (Hg)	ug/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8813221
Total Metals by ICPMS									
Total Aluminum (Al)	ug/L	31.2	57.0	47.7	28.0	43.7	61.5	0.50	8807644
Total Antimony (Sb)	ug/L	0.328	0.095	0.119	0.320	0.098	0.149	0.020	8807644
Total Arsenic (As)	ug/L	0.704	0.492	0.233	0.861	0.363	0.373	0.020	8807644
Total Barium (Ba)	ug/L	44.5	36.0	36.1	40.7	45.7	83.1	0.020	8807644
Total Beryllium (Be)	ug/L	0.011	0.015	0.010	0.013	0.012	0.010	0.010	8807644
Total Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8807644
Total Boron (B)	ug/L	<10	<10	<10	<10	<10	<10	10	8807644
Total Cadmium (Cd)	ug/L	0.0050	0.0220	0.0060	<0.0050	0.0110	0.0090	0.0050	8807644
Total Chromium (Cr)	ug/L	0.21	0.31	0.22	0.20	0.26	0.24	0.10	8807644
Total Cobalt (Co)	ug/L	0.0420	0.0520	0.0320	0.0380	0.0360	0.0740	0.0050	8807644
Total Copper (Cu)	ug/L	1.07	2.18	1.26	1.45	1.50	1.44	0.050	8807644
Total Iron (Fe)	ug/L	20.0	36.3	28.7	13.7	32.7	61.3	1.0	8807644
Total Lead (Pb)	ug/L	0.0100	0.0050	0.0140	<0.0050	0.0080	0.0470	0.0050	8807644
Total Lithium (Li)	ug/L	1.19	2.84	3.37	<0.50	1.22	0.56	0.50	8807644
Total Manganese (Mn)	ug/L	10.0	6.97	1.79	0.709	4.62	1.93	0.050	8807644
Total Molybdenum (Mo)	ug/L	0.937	0.426	0.307	0.409	0.294	0.473	0.050	8807644
Total Nickel (Ni)	ug/L	0.427	1.88	0.575	0.610	0.892	0.673	0.020	8807644
Total Phosphorus (P)	ug/L	4.3	3.9	4.5	3.7	6.1	5.5	2.0	8807644
Total Selenium (Se)	ug/L	<0.040	0.257	0.043	0.040	0.066	0.065	0.040	8807644
Total Silicon (Si)	ug/L	4660	5420	5110	4580	4470	3690	50	8807644
Total Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8807644
Total Strontium (Sr)	ug/L	321	107	136	221	136	273	0.050	8807644
Total Thallium (Tl)	ug/L	<0.0020	0.0040	0.0030	0.0020	0.0020	0.0020	0.0020	8807644
Total Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	8807644
Total Titanium (Ti)	ug/L	0.76	<0.50	0.72	<0.50	<0.50	2.56	0.50	8807644
Total Uranium (U)	ug/L	28.8	1.25	3.52	5.32	1.11	1.75	0.0020	8807644
Total Vanadium (V)	ug/L	0.26	0.32	0.29	0.26	0.27	0.33	0.20	8807644
RDL = Reportable Detection Limit									

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		SH6083	SH6084	SH6085	SH6087	SH6088	SH6089		
Sampling Date		2017/10/20 14:50	2017/10/21 12:25	2017/10/21 12:10	2017/10/21 13:15	2017/10/21 13:40	2017/10/21 09:35		
COC Number		538344-02-01	538344-02-01	538344-02-01	538344-03-01	538344-03-01	538344-03-01		
	UNITS	HC-C	IC-0.5	IC-1.5	IC-3.0	IC-4.5	ML-1.0 (YT-24)	RDL	QC Batch
Total Zinc (Zn)	ug/L	<0.10	1.54	0.59	<0.10	0.52	0.34	0.10	8807644
Total Zirconium (Zr)	ug/L	0.30	0.49	0.38	0.39	0.50	0.31	0.10	8807644
Total Calcium (Ca)	mg/L	31.8	31.6	19.5	37.0	23.7	40.9	0.050	8805973
Total Magnesium (Mg)	mg/L	12.2	14.6	6.42	7.35	7.78	11.6	0.050	8805973
Total Potassium (K)	mg/L	1.77	1.14	1.06	2.13	1.25	2.17	0.050	8805973
Total Sodium (Na)	mg/L	3.84	4.18	4.34	3.86	4.03	4.25	0.050	8805973
Total Sulphur (S)	mg/L	16.7	30.5	7.6	22.2	15.9	31.2	3.0	8805973
RDL = Reportable Detection Limit									

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		SH6093	SH6093	SH6094	SH6095	SH6100		
Sampling Date		2017/10/20 10:35	2017/10/20 10:35	2017/10/21 14:25	2017/10/20 10:15	2017/10/20 11:00		
COC Number		538344-03-01	538344-03-01	538344-03-01	538344-03-01	538344-04-01		
	UNITS	YUK-2.0	YUK-2.0 Lab-Dup	YUK-5.0	BALLARAT U/S Y.R.	CC-X	RDL	QC Batch

Calculated Parameters

Total Hardness (CaCO3)	mg/L	102		98.9	325	114	0.50	8805855
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Elements

Total Mercury (Hg)	ug/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8813222
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Total Metals by ICPMS

Total Aluminum (Al)	ug/L	142		115	10.4	49.0	0.50	8807644
Total Antimony (Sb)	ug/L	0.093		0.093	0.039	0.096	0.020	8807644
Total Arsenic (As)	ug/L	0.491		0.454	0.173	0.328	0.020	8807644
Total Barium (Ba)	ug/L	48.7		47.5	69.7	67.4	0.020	8807644
Total Beryllium (Be)	ug/L	0.011		<0.010	<0.010	<0.010	0.010	8807644
Total Bismuth (Bi)	ug/L	<0.0050		<0.0050	<0.0050	<0.0050	0.0050	8807644
Total Boron (B)	ug/L	<10		<10	<10	<10	10	8807644
Total Cadmium (Cd)	ug/L	0.0620		0.0440	<0.0050	0.0100	0.0050	8807644
Total Chromium (Cr)	ug/L	0.28		0.25	0.14	0.23	0.10	8807644
Total Cobalt (Co)	ug/L	0.156		0.106	0.0390	0.0570	0.0050	8807644
Total Copper (Cu)	ug/L	0.987		0.830	1.34	1.46	0.050	8807644
Total Iron (Fe)	ug/L	256		184	24.1	50.0	1.0	8807644
Total Lead (Pb)	ug/L	0.163		0.102	<0.0050	0.0170	0.0050	8807644
Total Lithium (Li)	ug/L	1.89		1.73	0.77	0.75	0.50	8807644
Total Manganese (Mn)	ug/L	18.3		12.0	7.47	10.8	0.050	8807644
Total Molybdenum (Mo)	ug/L	1.24		1.23	0.809	0.707	0.050	8807644
Total Nickel (Ni)	ug/L	1.99		1.65	0.355	0.700	0.020	8807644
Total Phosphorus (P)	ug/L	12.9		10.2	4.6	3.7	2.0	8807644
Total Selenium (Se)	ug/L	0.365		0.334	0.154	0.068	0.040	8807644
Total Silicon (Si)	ug/L	2860		2720	4080	4430	50	8807644
Total Silver (Ag)	ug/L	<0.0050		<0.0050	<0.0050	<0.0050	0.0050	8807644
Total Strontium (Sr)	ug/L	138		137	616	165	0.050	8807644
Total Thallium (Tl)	ug/L	0.0040		0.0030	<0.0020	0.0020	0.0020	8807644
Total Tin (Sn)	ug/L	<0.20		<0.20	<0.20	<0.20	0.20	8807644
Total Titanium (Ti)	ug/L	4.21		2.79	<0.50	2.12	0.50	8807644
Total Uranium (U)	ug/L	1.17		1.21	4.52	5.53	0.0020	8807644

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		SH6093	SH6093	SH6094	SH6095	SH6100		
Sampling Date		2017/10/20 10:35	2017/10/20 10:35	2017/10/21 14:25	2017/10/20 10:15	2017/10/20 11:00		
COC Number		538344-03-01	538344-03-01	538344-03-01	538344-03-01	538344-04-01		
	UNITS	YUK-2.0	YUK-2.0 Lab-Dup	YUK-5.0	BALLARAT U/S Y.R.	CC-X	RDL	QC Batch
Total Vanadium (V)	ug/L	0.57		0.50	0.35	0.35	0.20	8807644
Total Zinc (Zn)	ug/L	5.09		3.64	0.12	0.52	0.10	8807644
Total Zirconium (Zr)	ug/L	<0.10		<0.10	0.12	0.27	0.10	8807644
Total Calcium (Ca)	mg/L	27.1		26.4	76.8	27.7	0.050	8805973
Total Magnesium (Mg)	mg/L	8.37		7.98	32.4	10.7	0.050	8805973
Total Potassium (K)	mg/L	0.803		0.818	3.18	1.45	0.050	8805973
Total Sodium (Na)	mg/L	2.14		2.20	9.21	4.66	0.050	8805973
Total Sulphur (S)	mg/L	9.0		8.4	57.8	21.4	3.0	8805973
RDL = Reportable Detection Limit								
Lab-Dup = Laboratory Initiated Duplicate								

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		SH6103	SH6103	SH6104	SH6104		SH7906		
Sampling Date		2017/10/19 19:30	2017/10/19 19:30						
COC Number		538344-05-01	538344-05-01	538344-05-01	538344-05-01		538344-04-01		
	UNITS	FIELD BLANK	FIELD BLANK Lab-Dup	TRIP BLANK	TRIP BLANK Lab-Dup	QC Batch	SAMPLE A	RDL	QC Batch

Calculated Parameters

Total Hardness (CaCO3)	mg/L	<0.50		<0.50		8805855	118	0.50	8806308
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Elements

Total Mercury (Hg)	ug/L	<0.0020		<0.0020		8813222	<0.0020	0.0020	8813222
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Total Metals by ICPMS

Total Aluminum (Al)	ug/L	<0.50	<0.50	<0.50	<0.50	8807644	30.1	0.50	8807644
Total Antimony (Sb)	ug/L	<0.020	<0.020	<0.020	<0.020	8807644	0.089	0.020	8807644
Total Arsenic (As)	ug/L	<0.020	<0.020	<0.020	<0.020	8807644	0.293	0.020	8807644
Total Barium (Ba)	ug/L	<0.020	<0.020	<0.020	<0.020	8807644	63.2	0.020	8807644
Total Beryllium (Be)	ug/L	<0.010	<0.010	<0.010	<0.010	8807644	<0.010	0.010	8807644
Total Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	8807644	<0.0050	0.0050	8807644
Total Boron (B)	ug/L	<10	<10	<10	<10	8807644	<10	10	8807644
Total Cadmium (Cd)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	8807644	0.0080	0.0050	8807644
Total Chromium (Cr)	ug/L	<0.10	<0.10	<0.10	<0.10	8807644	0.19	0.10	8807644
Total Cobalt (Co)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	8807644	0.0390	0.0050	8807644
Total Copper (Cu)	ug/L	<0.050	<0.050	<0.050	<0.050	8807644	1.46	0.050	8807644
Total Iron (Fe)	ug/L	<1.0	<1.0	<1.0	<1.0	8807644	27.0	1.0	8807644
Total Lead (Pb)	ug/L	0.0060	<0.0050	<0.0050	<0.0050	8807644	0.0060	0.0050	8807644
Total Lithium (Li)	ug/L	<0.50	<0.50	<0.50	<0.50	8807644	0.68	0.50	8807644
Total Manganese (Mn)	ug/L	<0.050	<0.050	<0.050	<0.050	8807644	7.17	0.050	8807644
Total Molybdenum (Mo)	ug/L	<0.050	<0.050	<0.050	<0.050	8807644	0.686	0.050	8807644
Total Nickel (Ni)	ug/L	<0.020	<0.020	<0.020	<0.020	8807644	0.720	0.020	8807644
Total Phosphorus (P)	ug/L	<2.0	<2.0	<2.0	<2.0	8807644	2.8	2.0	8807644
Total Selenium (Se)	ug/L	<0.040	<0.040	<0.040	<0.040	8807644	0.075	0.040	8807644
Total Silicon (Si)	ug/L	<50	<50	<50	<50	8807644	4480	50	8807644
Total Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	8807644	<0.0050	0.0050	8807644
Total Strontium (Sr)	ug/L	<0.050	<0.050	<0.050	<0.050	8807644	165	0.050	8807644
Total Thallium (Tl)	ug/L	<0.0020	<0.0020	<0.0020	<0.0020	8807644	0.0020	0.0020	8807644
Total Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	8807644	<0.20	0.20	8807644
Total Titanium (Ti)	ug/L	<0.50	<0.50	<0.50	<0.50	8807644	0.68	0.50	8807644
Total Uranium (U)	ug/L	<0.0020	<0.0020	<0.0020	<0.0020	8807644	5.28	0.0020	8807644

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		SH6103	SH6103	SH6104	SH6104		SH7906		
Sampling Date		2017/10/19 19:30	2017/10/19 19:30						
COC Number		538344-05-01	538344-05-01	538344-05-01	538344-05-01		538344-04-01		
	UNITS	FIELD BLANK	FIELD BLANK Lab-Dup	TRIP BLANK	TRIP BLANK Lab-Dup	QC Batch	SAMPLE A	RDL	QC Batch
Total Vanadium (V)	ug/L	<0.20	<0.20	<0.20	<0.20	8807644	0.27	0.20	8807644
Total Zinc (Zn)	ug/L	<0.10	<0.10	<0.10	<0.10	8807644	0.26	0.10	8807644
Total Zirconium (Zr)	ug/L	<0.10	<0.10	<0.10	<0.10	8807644	0.29	0.10	8807644
Total Calcium (Ca)	mg/L	<0.050		<0.050		8805973	28.8	0.050	8806442
Total Magnesium (Mg)	mg/L	<0.050		<0.050		8805973	11.1	0.050	8806442
Total Potassium (K)	mg/L	<0.050		<0.050		8805973	1.49	0.050	8806442
Total Sodium (Na)	mg/L	<0.050		<0.050		8805973	4.76	0.050	8806442
Total Sulphur (S)	mg/L	<3.0		<3.0		8805973	21.5	3.0	8806442
RDL = Reportable Detection Limit									
Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		SH7907	SH7907		
Sampling Date					
COC Number		538344-04-01	538344-04-01		
	UNITS	SAMPLE B	SAMPLE B Lab-Dup	RDL	QC Batch
Calculated Parameters					
Total Hardness (CaCO3)	mg/L	119		0.50	8806308
Elements					
Total Mercury (Hg)	ug/L	<0.0020		0.0020	8813222
Total Metals by ICPMS					
Total Aluminum (Al)	ug/L	22.1	22.9	0.50	8807644
Total Antimony (Sb)	ug/L	0.204	0.210	0.020	8807644
Total Arsenic (As)	ug/L	0.507	0.500	0.020	8807644
Total Barium (Ba)	ug/L	49.6	50.0	0.020	8807644
Total Beryllium (Be)	ug/L	<0.010	<0.010	0.010	8807644
Total Bismuth (Bi)	ug/L	<0.0050	<0.0050	0.0050	8807644
Total Boron (B)	ug/L	<10	<10	10	8807644
Total Cadmium (Cd)	ug/L	<0.0050	<0.0050	0.0050	8807644
Total Chromium (Cr)	ug/L	0.21	0.21	0.10	8807644
Total Cobalt (Co)	ug/L	0.0340	0.0330	0.0050	8807644
Total Copper (Cu)	ug/L	1.38	1.38	0.050	8807644
Total Iron (Fe)	ug/L	11.4	11.7	1.0	8807644
Total Lead (Pb)	ug/L	<0.0050	<0.0050	0.0050	8807644
Total Lithium (Li)	ug/L	0.85	0.91	0.50	8807644
Total Manganese (Mn)	ug/L	0.329	0.281	0.050	8807644
Total Molybdenum (Mo)	ug/L	0.626	0.648	0.050	8807644
Total Nickel (Ni)	ug/L	0.675	0.706	0.020	8807644
Total Phosphorus (P)	ug/L	3.2	3.5	2.0	8807644
Total Selenium (Se)	ug/L	0.067	0.063	0.040	8807644
Total Silicon (Si)	ug/L	4290	4390	50	8807644
Total Silver (Ag)	ug/L	<0.0050	<0.0050	0.0050	8807644
Total Strontium (Sr)	ug/L	271	263	0.050	8807644
Total Thallium (Tl)	ug/L	0.0020	0.0020	0.0020	8807644
Total Tin (Sn)	ug/L	<0.20	<0.20	0.20	8807644
Total Titanium (Ti)	ug/L	<0.50	0.55	0.50	8807644
Total Uranium (U)	ug/L	12.9	12.9	0.0020	8807644
RDL = Reportable Detection Limit					
Lab-Dup = Laboratory Initiated Duplicate					

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		SH7907	SH7907		
Sampling Date					
COC Number		538344-04-01	538344-04-01		
	UNITS	SAMPLE B	SAMPLE B Lab-Dup	RDL	QC Batch
Total Vanadium (V)	ug/L	0.26	0.29	0.20	8807644
Total Zinc (Zn)	ug/L	0.26	0.22	0.10	8807644
Total Zirconium (Zr)	ug/L	0.31	0.29	0.10	8807644
Total Calcium (Ca)	mg/L	30.8		0.050	8806442
Total Magnesium (Mg)	mg/L	10.3		0.050	8806442
Total Potassium (K)	mg/L	2.23		0.050	8806442
Total Sodium (Na)	mg/L	3.62		0.050	8806442
Total Sulphur (S)	mg/L	17.1		3.0	8806442
RDL = Reportable Detection Limit					
Lab-Dup = Laboratory Initiated Duplicate					

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		SH6069	SH6069		SH6071	SH6072		
Sampling Date		2017/10/19 15:20	2017/10/19 15:20		2017/10/19 16:35	2017/10/20 13:30		
COC Number		538344-01-01	538344-01-01		538344-01-01	538344-01-01		
	UNITS	CC-1.5	CC-1.5 Lab-Dup	QC Batch	CC-4.5	CC-5.0	RDL	QC Batch
Calculated Parameters								
Total Hardness (CaCO ₃)	mg/L	217		8805855	118	15.3	0.50	8805855
Elements								
Total Mercury (Hg)	ug/L	0.0024		8812408	<0.0020	0.0037	0.0020	8812408
Total Metals by ICPMS								
Total Aluminum (Al)	ug/L	35.7	34.1	8808480	96.2	109	3.0	8808480
Total Antimony (Sb)	ug/L	0.100	0.103	8808480	0.094	0.071	0.020	8808480
Total Arsenic (As)	ug/L	0.560	0.612	8808480	0.372	0.640	0.020	8808480
Total Barium (Ba)	ug/L	59.6	58.1	8808480	67.1	13.5	0.050	8808480
Total Beryllium (Be)	ug/L	<0.010	<0.010	8808480	<0.010	0.017	0.010	8808480
Total Bismuth (Bi)	ug/L	<0.010	<0.010	8808480	<0.010	<0.010	0.010	8808480
Total Boron (B)	ug/L	<10	<10	8808480	<10	<10	10	8808480
Total Cadmium (Cd)	ug/L	0.0080	0.0070	8808480	0.0110	0.0180	0.0050	8808480
Total Chromium (Cr)	ug/L	0.16	0.18	8808480	0.29	0.48	0.10	8808480
Total Cobalt (Co)	ug/L	0.031	0.029	8808480	0.079	0.218	0.010	8808480
Total Copper (Cu)	ug/L	1.23	1.22	8808480	1.60	1.26	0.10	8808480
Total Iron (Fe)	ug/L	29.8	27.8	8808480	112	333	5.0	8808480
Total Lead (Pb)	ug/L	0.113 (1)	0.063 (2)	8808480	0.059	<0.020	0.020	8808480
Total Lithium (Li)	ug/L	2.00	2.05	8808480	0.75	<0.50	0.50	8808480
Total Manganese (Mn)	ug/L	6.25	6.11	8808480	12.4	124	0.10	8808480
Total Molybdenum (Mo)	ug/L	0.384	0.339	8808480	0.750	0.057	0.050	8808480
Total Nickel (Ni)	ug/L	0.47	0.43	8808480	0.74	0.86	0.10	8808480
Total Phosphorus (P)	ug/L	6.6	5.2	8808480	6.1	8.6	5.0	8808480
Total Selenium (Se)	ug/L	0.091	0.090	8808480	0.067	<0.040	0.040	8808480
Total Silicon (Si)	ug/L	5850	5850	8808480	5680	6940	50	8808480
Total Silver (Ag)	ug/L	<0.010	<0.010	8808480	<0.010	<0.010	0.010	8808480
Total Strontium (Sr)	ug/L	455	474	8808480	172	22.3	0.050	8808480
Total Thallium (Tl)	ug/L	0.0030	0.0030	8808480	0.0030	0.0020	0.0020	8808480
Total Tin (Sn)	ug/L	<0.20	<0.20	8808480	<0.20	<0.20	0.20	8808480
RDL = Reportable Detection Limit								
Lab-Dup = Laboratory Initiated Duplicate								
(1) Duplicate RPD for (Lead) above control limit - Reanalysis confirmed sample inhomogeneity.								
(2) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.								

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		SH6069	SH6069		SH6071	SH6072		
Sampling Date		2017/10/19 15:20	2017/10/19 15:20		2017/10/19 16:35	2017/10/20 13:30		
COC Number		538344-01-01	538344-01-01		538344-01-01	538344-01-01		
	UNITS	CC-1.5	CC-1.5 Lab-Dup	QC Batch	CC-4.5	CC-5.0	RDL	QC Batch
Total Titanium (Ti)	ug/L	<2.0	<2.0	8808480	4.4	<2.0	2.0	8808480
Total Uranium (U)	ug/L	12.7	13.2	8808480	5.63	0.335	0.0050	8808480
Total Vanadium (V)	ug/L	0.26	0.25	8808480	0.46	0.29	0.20	8808480
Total Zinc (Zn)	ug/L	<1.0	<1.0	8808480	<1.0	1.2	1.0	8808480
Total Zirconium (Zr)	ug/L	0.31	0.31	8808480	0.21	0.65	0.10	8808480
Total Calcium (Ca)	mg/L	57.4		8805097	29.6	4.05	0.25	8805973
Total Magnesium (Mg)	mg/L	17.8		8805097	10.7	1.27	0.25	8805973
Total Potassium (K)	mg/L	3.10		8805097	1.53	<0.25	0.25	8805973
Total Sodium (Na)	mg/L	4.67		8805097	4.59	1.30	0.25	8805973
Total Sulphur (S)	mg/L	40.7		8805097	22.6	<3.0	3.0	8805973
RDL = Reportable Detection Limit								
Lab-Dup = Laboratory Initiated Duplicate								

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		SH6073	SH6073	SH6074	SH6075	SH6077	SH6078		
Sampling Date		2017/10/20 14:10	2017/10/20 14:10	2017/10/20 13:50	2017/10/20 14:25	2017/10/19 17:25	2017/10/20 13:10		
COC Number		538344-01-01	538344-01-01	538344-01-01	538344-01-01	538344-02-01	538344-02-01		
	UNITS	CC-5.5	CC-5.5 Lab-Dup	CC-6.0	CC-A	CC-C	CC-D	RDL	QC Batch

Calculated Parameters

Total Hardness (CaCO3)	mg/L	11.4		13.3	126	483	459	0.50	8805855
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Elements

Total Mercury (Hg)	ug/L	0.0039	0.0047	0.0037	0.0025	<0.0020	<0.0020	0.0020	8813221
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Total Metals by ICPMS

Total Aluminum (Al)	ug/L	351		115	42.5	990	17.8	3.0	8808480
Total Antimony (Sb)	ug/L	0.142		0.063	0.098	0.177	0.155	0.020	8808480
Total Arsenic (As)	ug/L	0.755		0.481	0.380	3.15	0.598	0.020	8808480
Total Barium (Ba)	ug/L	19.8		13.0	38.2	120	98.4	0.050	8808480
Total Beryllium (Be)	ug/L	0.032		0.015	0.011	0.037	<0.010	0.010	8808480
Total Bismuth (Bi)	ug/L	<0.010		<0.010	<0.010	0.011	<0.010	0.010	8808480
Total Boron (B)	ug/L	<10		<10	<10	<10	<10	10	8808480
Total Cadmium (Cd)	ug/L	0.0230		0.0090	0.0060	0.0210	0.0050	0.0050	8808480
Total Chromium (Cr)	ug/L	0.85		0.41	0.23	3.08	0.11	0.10	8808480
Total Cobalt (Co)	ug/L	0.277		0.143	0.029	0.753	0.026	0.010	8808480
Total Copper (Cu)	ug/L	1.61		1.11	1.40	2.38	0.66	0.10	8808480
Total Iron (Fe)	ug/L	505		241	21.9	1360	16.9	5.0	8808480
Total Lead (Pb)	ug/L	0.245		<0.020	<0.020	0.656	<0.020	0.020	8808480
Total Lithium (Li)	ug/L	0.50		<0.50	1.62	6.69	5.86	0.50	8808480
Total Manganese (Mn)	ug/L	67.6		74.1	4.30	53.0	6.02	0.10	8808480
Total Molybdenum (Mo)	ug/L	<0.050		<0.050	0.155	0.330	0.322	0.050	8808480
Total Nickel (Ni)	ug/L	0.94		0.72	0.41	2.67	0.45	0.10	8808480
Total Phosphorus (P)	ug/L	17.9		7.2	7.4	50.9	<5.0	5.0	8808480
Total Selenium (Se)	ug/L	0.040		0.047	<0.040	0.387	0.335	0.040	8808480
Total Silicon (Si)	ug/L	7390		6810	6470	7590	6000	50	8808480
Total Silver (Ag)	ug/L	<0.010		<0.010	<0.010	<0.010	<0.010	0.010	8808480
Total Strontium (Sr)	ug/L	18.2		20.4	251	1320	1270	0.050	8808480
Total Thallium (Tl)	ug/L	0.0030		<0.0020	0.0030	0.0200	0.0030	0.0020	8808480
Total Tin (Sn)	ug/L	<0.20		<0.20	<0.20	<0.20	<0.20	0.20	8808480
Total Titanium (Ti)	ug/L	9.5		<2.0	<2.0	53.7	<2.0	2.0	8808480
Total Uranium (U)	ug/L	0.612		0.348	4.38	32.4	34.0	0.0050	8808480

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		SH6073	SH6073	SH6074	SH6075	SH6077	SH6078		
Sampling Date		2017/10/20 14:10	2017/10/20 14:10	2017/10/20 13:50	2017/10/20 14:25	2017/10/19 17:25	2017/10/20 13:10		
COC Number		538344-01-01	538344-01-01	538344-01-01	538344-01-01	538344-02-01	538344-02-01		
	UNITS	CC-5.5	CC-5.5 Lab-Dup	CC-6.0	CC-A	CC-C	CC-D	RDL	QC Batch
Total Vanadium (V)	ug/L	1.02		0.26	0.22	2.59	0.22	0.20	8808480
Total Zinc (Zn)	ug/L	2.5		<1.0	<1.0	4.1	<1.0	1.0	8808480
Total Zirconium (Zr)	ug/L	0.68		0.65	0.39	0.12	<0.10	0.10	8808480
Total Calcium (Ca)	mg/L	2.94		3.51	35.6	122	113	0.25	8805973
Total Magnesium (Mg)	mg/L	0.99		1.11	8.98	43.3	43.1	0.25	8805973
Total Potassium (K)	mg/L	<0.25		<0.25	1.78	5.83	5.59	0.25	8805973
Total Sodium (Na)	mg/L	1.06		1.12	3.90	5.29	4.81	0.25	8805973
Total Sulphur (S)	mg/L	<3.0		<3.0	26.4	73.2	69.1	3.0	8805973
RDL = Reportable Detection Limit									
Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		SH6079	SH6080	SH6081	SH6082	SH6086	SH6090		
Sampling Date		2017/10/19 14:00	2017/10/20 15:40	2017/10/20 16:35	2017/10/20 15:15	2017/10/21 12:55	2017/10/21 10:30		
COC Number		538344-02-01	538344-02-01	538344-02-01	538344-02-01	538344-02-01	538344-03-01		
	UNITS	HC-2.5	HC-5.0	HC-A	HC-B	IC-2.5	ML-A	RDL	QC Batch
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	126	130	128	128	22.2	199	0.50	8805855
Elements									
Total Mercury (Hg)	ug/L	<0.0020	<0.0020	0.0021	<0.0020	0.0026	<0.0020	0.0020	8813221
Total Metals by ICPMS									
Total Aluminum (Al)	ug/L	40.5	25.6	28.1	27.0	126	27.3	3.0	8808480
Total Antimony (Sb)	ug/L	0.552	0.223	0.260	0.313	0.124	0.154	0.020	8808480
Total Arsenic (As)	ug/L	1.00	0.618	0.632	0.734	0.987	0.404	0.020	8808480
Total Barium (Ba)	ug/L	44.2	53.8	53.3	44.5	14.9	104	0.050	8808480
Total Beryllium (Be)	ug/L	<0.010	<0.010	<0.010	<0.010	0.017	0.012	0.010	8808480
Total Bismuth (Bi)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	8808480
Total Boron (B)	ug/L	<10	<10	<10	<10	<10	<10	10	8808480
Total Cadmium (Cd)	ug/L	0.0060	<0.0050	0.0260	0.0060	<0.0050	0.0070	0.0050	8808480
Total Chromium (Cr)	ug/L	0.27	0.23	0.26	0.28	0.52	0.21	0.10	8808480
Total Cobalt (Co)	ug/L	0.036	0.035	0.037	0.034	0.052	0.045	0.010	8808480
Total Copper (Cu)	ug/L	1.23	1.49	1.60	1.10	1.37	1.41	0.10	8808480
Total Iron (Fe)	ug/L	23.7	13.5	15.6	14.8	320	17.2	5.0	8808480
Total Lead (Pb)	ug/L	0.076	<0.020	0.029	<0.020	0.034	<0.020	0.020	8808480
Total Lithium (Li)	ug/L	1.35	1.02	0.85	0.99	0.79	1.18	0.50	8808480
Total Manganese (Mn)	ug/L	4.03	0.45	0.51	1.61	2.86	3.80	0.10	8808480
Total Molybdenum (Mo)	ug/L	1.68	0.688	0.702	0.890	0.103	0.672	0.050	8808480
Total Nickel (Ni)	ug/L	0.53	0.79	0.64	0.46	0.83	0.68	0.10	8808480
Total Phosphorus (P)	ug/L	<5.0	7.2	9.8	5.1	7.9	5.2	5.0	8808480
Total Selenium (Se)	ug/L	0.060	0.069	0.060	0.044	0.044	0.062	0.040	8808480
Total Silicon (Si)	ug/L	6060	5740	5500	5750	7230	4550	50	8808480
Total Silver (Ag)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	8808480
Total Strontium (Sr)	ug/L	362	297	317	310	29.9	493	0.050	8808480
Total Thallium (Tl)	ug/L	0.0020	0.0030	0.0020	<0.0020	<0.0020	0.0030	0.0020	8808480
Total Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	8808480
Total Titanium (Ti)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	8808480
Total Uranium (U)	ug/L	37.5	13.9	16.6	26.8	0.538	10.3	0.0050	8808480
Total Vanadium (V)	ug/L	0.31	0.30	0.27	0.24	0.46	0.20	0.20	8808480
RDL = Reportable Detection Limit									

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		SH6079	SH6080	SH6081	SH6082	SH6086	SH6090		
Sampling Date		2017/10/19 14:00	2017/10/20 15:40	2017/10/20 16:35	2017/10/20 15:15	2017/10/21 12:55	2017/10/21 10:30		
COC Number		538344-02-01	538344-02-01	538344-02-01	538344-02-01	538344-02-01	538344-03-01		
	UNITS	HC-2.5	HC-5.0	HC-A	HC-B	IC-2.5	ML-A	RDL	QC Batch
Total Zinc (Zn)	ug/L	<1.0	<1.0	2.2	<1.0	<1.0	1.0	1.0	8808480
Total Zirconium (Zr)	ug/L	0.32	0.27	0.30	0.25	0.99	0.40	0.10	8808480
Total Calcium (Ca)	mg/L	31.1	33.7	33.1	31.9	5.91	52.1	0.25	8805973
Total Magnesium (Mg)	mg/L	11.8	11.1	10.9	11.7	1.80	16.7	0.25	8805973
Total Potassium (K)	mg/L	2.20	2.45	2.42	1.75	<0.25	2.54	0.25	8805973
Total Sodium (Na)	mg/L	3.36	3.94	3.83	3.76	1.62	5.21	0.25	8805973
Total Sulphur (S)	mg/L	15.9	18.8	18.4	17.8	<3.0	42.4	3.0	8805973
RDL = Reportable Detection Limit									

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		SH6091	SH6092		SH6096	SH6097		
Sampling Date		2017/10/21 11:00	2017/10/21 11:25		2017/10/21 15:55	2017/10/21 15:00		
COC Number		538344-03-01	538344-03-01		538344-03-01	538344-04-01		
	UNITS	ML-B	ML-C (YUK-24-2)	QC Batch	BARKER U/S S.R.	BLACKHILLS U/S S.R.	RDL	QC Batch
Calculated Parameters								
Total Hardness (CaCO3)	mg/L	75.1	34.1	8805855	218	207	0.50	8805855
Elements								
Total Mercury (Hg)	ug/L	0.0023	0.0035	8813221	<0.0020	<0.0020	0.0020	8813222
Total Metals by ICPMS								
Total Aluminum (Al)	ug/L	389	186	8808480	126	105	3.0	8808480
Total Antimony (Sb)	ug/L	0.223	0.456	8808480	0.078	0.127	0.020	8808480
Total Arsenic (As)	ug/L	0.732	2.10	8808480	0.576	1.31	0.020	8808480
Total Barium (Ba)	ug/L	54.0	30.6	8808480	92.0	99.1	0.050	8808480
Total Beryllium (Be)	ug/L	0.052	0.037	8808480	0.011	0.015	0.010	8808480
Total Bismuth (Bi)	ug/L	<0.010	<0.010	8808480	<0.010	<0.010	0.010	8808480
Total Boron (B)	ug/L	<10	<10	8808480	<10	<10	10	8808480
Total Cadmium (Cd)	ug/L	0.0160	0.0120	8808480	0.0280	0.0150	0.0050	8808480
Total Chromium (Cr)	ug/L	0.79	0.51	8808480	0.52	0.49	0.10	8808480
Total Cobalt (Co)	ug/L	0.258	0.108	8808480	0.356	0.416	0.010	8808480
Total Copper (Cu)	ug/L	2.12	1.85	8808480	2.92	2.00	0.10	8808480
Total Iron (Fe)	ug/L	469	195	8808480	383	838	5.0	8808480
Total Lead (Pb)	ug/L	0.349	0.281	8808480	0.119	0.198	0.020	8808480
Total Lithium (Li)	ug/L	0.76	<0.50	8808480	2.47	3.49	0.50	8808480
Total Manganese (Mn)	ug/L	14.7	4.21	8808480	243	259	0.10	8808480
Total Molybdenum (Mo)	ug/L	0.666	0.147	8808480	0.973	1.15	0.050	8808480
Total Nickel (Ni)	ug/L	1.19	0.89	8808480	1.31	2.25	0.10	8808480
Total Phosphorus (P)	ug/L	24.2	12.4	8808480	16.7	16.9	5.0	8808480
Total Selenium (Se)	ug/L	0.054	0.053	8808480	0.171	0.239	0.040	8808480
Total Silicon (Si)	ug/L	5710	5200	8808480	6310	7170	50	8808480
Total Silver (Ag)	ug/L	<0.010	<0.010	8808480	<0.010	<0.010	0.010	8808480
Total Strontium (Sr)	ug/L	134	39.0	8808480	344	256	0.050	8808480
Total Thallium (Tl)	ug/L	0.0070	0.0050	8808480	0.0020	0.0020	0.0020	8808480
Total Tin (Sn)	ug/L	<0.20	<0.20	8808480	<0.20	<0.20	0.20	8808480
Total Titanium (Ti)	ug/L	17.8	5.8	8808480	3.6	5.4	2.0	8808480
Total Uranium (U)	ug/L	4.71	0.516	8808480	3.99	2.44	0.0050	8808480
Total Vanadium (V)	ug/L	1.10	0.56	8808480	1.11	1.58	0.20	8808480
RDL = Reportable Detection Limit								

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		SH6091	SH6092		SH6096	SH6097		
Sampling Date		2017/10/21 11:00	2017/10/21 11:25		2017/10/21 15:55	2017/10/21 15:00		
COC Number		538344-03-01	538344-03-01		538344-03-01	538344-04-01		
	UNITS	ML-B	ML-C (YUK-24-2)	QC Batch	BARKER U/S S.R.	BLACKHILLS U/S S.R.	RDL	QC Batch
Total Zinc (Zn)	ug/L	1.8	1.0	8808480	1.3	<1.0	1.0	8808480
Total Zirconium (Zr)	ug/L	0.67	0.54	8808480	0.28	0.47	0.10	8808480
Total Calcium (Ca)	mg/L	22.4	10.4	8805973	54.6	54.9	0.25	8805973
Total Magnesium (Mg)	mg/L	4.67	2.00	8805973	19.7	17.0	0.25	8805973
Total Potassium (K)	mg/L	0.95	0.65	8805973	2.17	2.19	0.25	8805973
Total Sodium (Na)	mg/L	2.05	1.30	8805973	9.50	7.48	0.25	8805973
Total Sulphur (S)	mg/L	11.5	<3.0	8805973	33.1	30.2	3.0	8805973
RDL = Reportable Detection Limit								

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		SH6098	SH6099		SH6101	SH6101		
Sampling Date		2017/10/21 15:20	2017/10/21 15:45		2017/10/19 16:00	2017/10/19 16:00		
COC Number		538344-04-01	538344-04-01		538344-04-01	538344-04-01		
	UNITS	MAISY MAY U/S S.R.	STEWART D/S M.M.	QC Batch	LATTE MIX	LATTE MIX Lab-Dup	RDL	QC Batch
Calculated Parameters								
Total Hardness (CaCO3)	mg/L	324	236	8805855	119		0.50	8805855
Elements								
Total Mercury (Hg)	ug/L	<0.0020	<0.0020	8813222	<0.0020		0.0020	8813222
Total Metals by ICPMS								
Total Aluminum (Al)	ug/L	226	178	8808480	29.9	28.7	3.0	8808595
Total Antimony (Sb)	ug/L	0.074	0.144	8808480	0.106	0.102	0.020	8808595
Total Arsenic (As)	ug/L	0.812	0.811	8808480	0.352	0.347	0.020	8808595
Total Barium (Ba)	ug/L	100	76.8	8808480	54.3	54.2	0.050	8808595
Total Beryllium (Be)	ug/L	0.017	0.013	8808480	<0.010	<0.010	0.010	8808595
Total Bismuth (Bi)	ug/L	<0.010	<0.010	8808480	<0.010	<0.010	0.010	8808595
Total Boron (B)	ug/L	<10	<10	8808480	<10	<10	10	8808595
Total Cadmium (Cd)	ug/L	0.0240	0.323	8808480	0.0083	0.0080	0.0050	8808595
Total Chromium (Cr)	ug/L	0.83	0.20	8808480	0.16	0.17	0.10	8808595
Total Cobalt (Co)	ug/L	0.571	0.279	8808480	0.039	0.042	0.010	8808595
Total Copper (Cu)	ug/L	2.41	1.57	8808480	1.41	1.39	0.10	8808595
Total Iron (Fe)	ug/L	823	291	8808480	30.7	30.7	5.0	8808595
Total Lead (Pb)	ug/L	0.349	0.227	8808480	<0.020	<0.020	0.020	8808595
Total Lithium (Li)	ug/L	4.04	4.94	8808480	1.46	1.48	0.50	8808595
Total Manganese (Mn)	ug/L	351	37.2	8808480	14.6	14.6	0.10	8808595
Total Molybdenum (Mo)	ug/L	1.43	0.702	8808480	0.683	0.680	0.050	8808595
Total Nickel (Ni)	ug/L	2.95	8.50	8808480	0.72	0.68	0.10	8808595
Total Phosphorus (P)	ug/L	17.4	13.7	8808480	<5.0	<5.0	5.0	8808595
Total Selenium (Se)	ug/L	0.415	0.847	8808480	0.106	0.096	0.040	8808595
Total Silicon (Si)	ug/L	6400	3410	8808480	4940	5010	50	8808595
Total Silver (Ag)	ug/L	0.014	<0.010	8808480	<0.010	<0.010	0.010	8808595
Total Strontium (Sr)	ug/L	307	295	8808480	160	158	0.050	8808595
Total Thallium (Tl)	ug/L	0.0060	0.0050	8808480	0.0027	0.0030	0.0020	8808595
Total Tin (Sn)	ug/L	<0.20	<0.20	8808480	<0.20	<0.20	0.20	8808595
Total Titanium (Ti)	ug/L	11.2	2.7	8808480	<2.0	<2.0	2.0	8808595
Total Uranium (U)	ug/L	3.32	1.45	8808480	12.2	12.2	0.0050	8808595
RDL = Reportable Detection Limit								
Lab-Dup = Laboratory Initiated Duplicate								

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		SH6098	SH6099		SH6101	SH6101		
Sampling Date		2017/10/21 15:20	2017/10/21 15:45		2017/10/19 16:00	2017/10/19 16:00		
COC Number		538344-04-01	538344-04-01		538344-04-01	538344-04-01		
	UNITS	MAISYMAY U/S S.R.	STEWART D/S M.M.	QC Batch	LATTE MIX	LATTE MIX Lab-Dup	RDL	QC Batch
Total Vanadium (V)	ug/L	1.92	0.44	8808480	0.22	0.24	0.20	8808595
Total Zinc (Zn)	ug/L	1.7	21.5	8808480	<1.0	<1.0	1.0	8808595
Total Zirconium (Zr)	ug/L	0.24	<0.10	8808480	0.24	0.24	0.10	8808595
Total Calcium (Ca)	mg/L	77.5	57.4	8805973	29.7		0.25	8805973
Total Magnesium (Mg)	mg/L	31.7	22.6	8805973	10.8		0.25	8805973
Total Potassium (K)	mg/L	3.31	0.71	8805973	1.49		0.25	8805973
Total Sodium (Na)	mg/L	7.27	2.76	8805973	4.79		0.25	8805973
Total Sulphur (S)	mg/L	53.9	40.4	8805973	23.9		3.0	8805973
RDL = Reportable Detection Limit								
Lab-Dup = Laboratory Initiated Duplicate								

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		SH6102		
Sampling Date				
COC Number		538344-05-01		
	UNITS	SAMPLE C	RDL	QC Batch
Calculated Parameters				
Total Hardness (CaCO3)	mg/L	206	0.50	8805855
Elements				
Total Mercury (Hg)	ug/L	<0.0020	0.0020	8813222
Total Metals by ICPMS				
Total Aluminum (Al)	ug/L	133	3.0	8808595
Total Antimony (Sb)	ug/L	0.134	0.020	8808595
Total Arsenic (As)	ug/L	0.636	0.020	8808595
Total Barium (Ba)	ug/L	68.5	0.050	8808595
Total Beryllium (Be)	ug/L	0.013	0.010	8808595
Total Bismuth (Bi)	ug/L	<0.010	0.010	8808595
Total Boron (B)	ug/L	<10	10	8808595
Total Cadmium (Cd)	ug/L	0.301	0.0050	8808595
Total Chromium (Cr)	ug/L	0.13	0.10	8808595
Total Cobalt (Co)	ug/L	0.232	0.010	8808595
Total Copper (Cu)	ug/L	1.37	0.10	8808595
Total Iron (Fe)	ug/L	223	5.0	8808595
Total Lead (Pb)	ug/L	0.184	0.020	8808595
Total Lithium (Li)	ug/L	4.39	0.50	8808595
Total Manganese (Mn)	ug/L	31.9	0.10	8808595
Total Molybdenum (Mo)	ug/L	0.595	0.050	8808595
Total Nickel (Ni)	ug/L	7.51	0.10	8808595
Total Phosphorus (P)	ug/L	9.8	5.0	8808595
Total Selenium (Se)	ug/L	0.836	0.040	8808595
Total Silicon (Si)	ug/L	2770	50	8808595
Total Silver (Ag)	ug/L	<0.010	0.010	8808595
Total Strontium (Sr)	ug/L	238	0.050	8808595
Total Thallium (Tl)	ug/L	0.0042	0.0020	8808595
Total Tin (Sn)	ug/L	<0.20	0.20	8808595
Total Titanium (Ti)	ug/L	<2.0	2.0	8808595
Total Uranium (U)	ug/L	1.25	0.0050	8808595
Total Vanadium (V)	ug/L	0.30	0.20	8808595
RDL = Reportable Detection Limit				

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		SH6102		
Sampling Date				
COC Number		538344-05-01		
	UNITS	SAMPLE C	RDL	QC Batch
Total Zinc (Zn)	ug/L	19.7	1.0	8808595
Total Zirconium (Zr)	ug/L	<0.10	0.10	8808595
Total Calcium (Ca)	mg/L	51.0	0.25	8805973
Total Magnesium (Mg)	mg/L	19.1	0.25	8805973
Total Potassium (K)	mg/L	0.63	0.25	8805973
Total Sodium (Na)	mg/L	2.40	0.25	8805973
Total Sulphur (S)	mg/L	35.0	3.0	8805973
RDL = Reportable Detection Limit				

Maxxam Job #: B793988
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LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

GENERAL COMMENTS

Sample SH6067 [CC-0.5] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SH6068 [CC-1.0] : Sample received past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample received past method specified hold time for Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SH6069 [CC-1.5] : Sample received past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample received past method specified hold time for Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SH6070 [CC-3.5] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SH6071 [CC-4.5] : Sample received past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample received past method specified hold time for Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SH6072 [CC-5.0] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SH6073 [CC-5.5] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SH6074 [CC-6.0] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SH6075 [CC-A] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SH6076 [CC-B] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SH6077 [CC-C] : Sample received past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample received past method specified hold time for Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SH6078 [CC-D] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SH6079 [HC-2.5] : Sample received past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample received past method specified hold time for Nitrite

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(N) (low level). Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SH6080 [HC-5.0] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SH6081 [HC-A] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SH6082 [HC-B] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SH6083 [HC-C] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SH6084 [IC-0.5] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SH6085 [IC-1.5] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SH6086 [IC-2.5] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SH6087 [IC-3.0] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SH6088 [IC-4.5] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SH6089 [ML-1.0 (YT-24)] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SH6090 [ML-A] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SH6091 [ML-B] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SH6092 [ML-C (YUK-24-2)] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SH6093 [YUK-2.0] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified

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hold time for Nitrite (N) (low level).

Sample SH6094 [YUK-5.0] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SH6095 [BALLARAT U/S Y.R.] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SH6096 [BARKER U/S S.R.] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SH6097 [BLACKHILLS U/S S.R.] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SH6098 [MAISY MAY U/S S.R.] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SH6099 [STEWART D/S M.M.] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SH6100 [CC-X] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SH6101 [LATTE MIX] : Sample received past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample received past method specified hold time for Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SH6103 [FIELD BLANK] : Sample received past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample received past method specified hold time for Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SH6083, Elements by ICPMS Low Level (dissolved): Test repeated.

Sample SH6087, Elements by ICPMS Low Level (dissolved): Test repeated.

Sample SH6100, Elements by ICPMS Low Level (dissolved): Test repeated.

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8806545	Total Dissolved Solids	2017/10/26	100	80 - 120	101	80 - 120	<10	mg/L	0.63	20
8806573	Total Dissolved Solids	2017/10/26	98	80 - 120	95	80 - 120	<10	mg/L	0	20
8806576	Dissolved Aluminum (Al)	2017/10/25	110	80 - 120	111	80 - 120	<0.50	ug/L	3.9	20
8806576	Dissolved Antimony (Sb)	2017/10/25	104	80 - 120	106	80 - 120	<0.020	ug/L	1.1	20
8806576	Dissolved Arsenic (As)	2017/10/25	105	80 - 120	101	80 - 120	<0.020	ug/L	0.48	20
8806576	Dissolved Barium (Ba)	2017/10/25	NC	80 - 120	100	80 - 120	<0.020	ug/L	0.27	20
8806576	Dissolved Beryllium (Be)	2017/10/25	98	80 - 120	101	80 - 120	<0.010	ug/L	NC	20
8806576	Dissolved Bismuth (Bi)	2017/10/25	98	80 - 120	102	80 - 120	<0.0050	ug/L	NC	20
8806576	Dissolved Boron (B)	2017/10/25	101	80 - 120	98	80 - 120	<10	ug/L	NC	20
8806576	Dissolved Cadmium (Cd)	2017/10/25	98	80 - 120	103	80 - 120	<0.0050	ug/L	NC	20
8806576	Dissolved Chromium (Cr)	2017/10/25	100	80 - 120	100	80 - 120	<0.10	ug/L	NC	20
8806576	Dissolved Cobalt (Co)	2017/10/25	93	80 - 120	98	80 - 120	<0.0050	ug/L	7.0	20
8806576	Dissolved Copper (Cu)	2017/10/25	91	80 - 120	98	80 - 120	<0.050	ug/L	1.3	20
8806576	Dissolved Iron (Fe)	2017/10/25	104	80 - 120	104	80 - 120	<1.0	ug/L	1.6	20
8806576	Dissolved Lead (Pb)	2017/10/25	97	80 - 120	98	80 - 120	<0.0050	ug/L	NC	20
8806576	Dissolved Lithium (Li)	2017/10/25	100	80 - 120	104	80 - 120	<0.50	ug/L	0.51	20
8806576	Dissolved Manganese (Mn)	2017/10/25	97	80 - 120	97	80 - 120	<0.050	ug/L	3.2	20
8806576	Dissolved Molybdenum (Mo)	2017/10/25	108	80 - 120	104	80 - 120	<0.050	ug/L	2.1	20
8806576	Dissolved Nickel (Ni)	2017/10/25	94	80 - 120	101	80 - 120	<0.020	ug/L	8.4	20
8806576	Dissolved Phosphorus (P)	2017/10/25					<2.0	ug/L	0.97	20
8806576	Dissolved Selenium (Se)	2017/10/25	109	80 - 120	111	80 - 120	<0.040	ug/L	9.0	20
8806576	Dissolved Silicon (Si)	2017/10/25					<50	ug/L	1.6	20
8806576	Dissolved Silver (Ag)	2017/10/25	104	80 - 120	106	80 - 120	<0.0050	ug/L	NC	20
8806576	Dissolved Strontium (Sr)	2017/10/25	NC	80 - 120	99	80 - 120	<0.050	ug/L	1.6	20
8806576	Dissolved Thallium (Tl)	2017/10/25	100	80 - 120	101	80 - 120	<0.0020	ug/L	7.6	20
8806576	Dissolved Tin (Sn)	2017/10/25	98	80 - 120	97	80 - 120	<0.20	ug/L	NC	20
8806576	Dissolved Titanium (Ti)	2017/10/25	101	80 - 120	103	80 - 120	<0.50	ug/L	NC	20
8806576	Dissolved Uranium (U)	2017/10/25	NC	80 - 120	99	80 - 120	<0.0020	ug/L	0.57	20
8806576	Dissolved Vanadium (V)	2017/10/25	100	80 - 120	99	80 - 120	<0.20	ug/L	NC	20
8806576	Dissolved Zinc (Zn)	2017/10/25	95	80 - 120	108	80 - 120	<0.10	ug/L	10	20
8806576	Dissolved Zirconium (Zr)	2017/10/25	101	80 - 120	96	80 - 120	<0.10	ug/L	NC	20

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QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8806580	Dissolved Aluminum (Al)	2017/10/26	98	80 - 120	107	80 - 120	<0.50	ug/L	1.2	20
8806580	Dissolved Antimony (Sb)	2017/10/26	96	80 - 120	104	80 - 120	<0.020	ug/L	7.4	20
8806580	Dissolved Arsenic (As)	2017/10/26	95	80 - 120	105	80 - 120	<0.020	ug/L	3.3	20
8806580	Dissolved Barium (Ba)	2017/10/26	NC	80 - 120	106	80 - 120	<0.020	ug/L	1.2	20
8806580	Dissolved Beryllium (Be)	2017/10/26	95	80 - 120	101	80 - 120	<0.010	ug/L	NC	20
8806580	Dissolved Bismuth (Bi)	2017/10/26	94	80 - 120	104	80 - 120	<0.0050	ug/L	NC	20
8806580	Dissolved Boron (B)	2017/10/26	101	80 - 120	104	80 - 120	<10	ug/L	NC	20
8806580	Dissolved Cadmium (Cd)	2017/10/26	96	80 - 120	105	80 - 120	<0.0050	ug/L	5.0	20
8806580	Dissolved Chromium (Cr)	2017/10/26	95	80 - 120	107	80 - 120	<0.10	ug/L	1.8	20
8806580	Dissolved Cobalt (Co)	2017/10/26	94	80 - 120	105	80 - 120	<0.0050	ug/L	4.6	20
8806580	Dissolved Copper (Cu)	2017/10/26	93	80 - 120	105	80 - 120	<0.050	ug/L	0.70	20
8806580	Dissolved Iron (Fe)	2017/10/26	94	80 - 120	111	80 - 120	<1.0	ug/L	0.48	20
8806580	Dissolved Lead (Pb)	2017/10/26	94	80 - 120	101	80 - 120	<0.0050	ug/L	NC	20
8806580	Dissolved Lithium (Li)	2017/10/26	97	80 - 120	106	80 - 120	<0.50	ug/L	0.77	20
8806580	Dissolved Manganese (Mn)	2017/10/26	92	80 - 120	100	80 - 120	<0.050	ug/L	0.68	20
8806580	Dissolved Molybdenum (Mo)	2017/10/26	99	80 - 120	108	80 - 120	<0.050	ug/L	1.3	20
8806580	Dissolved Nickel (Ni)	2017/10/26	94	80 - 120	105	80 - 120	<0.020	ug/L	1.3	20
8806580	Dissolved Phosphorus (P)	2017/10/26					<2.0	ug/L	0.67	20
8806580	Dissolved Selenium (Se)	2017/10/26	98	80 - 120	109	80 - 120	<0.040	ug/L	20	20
8806580	Dissolved Silicon (Si)	2017/10/26					<50	ug/L	0.18	20
8806580	Dissolved Silver (Ag)	2017/10/26	100	80 - 120	111	80 - 120	<0.0050	ug/L	NC	20
8806580	Dissolved Strontium (Sr)	2017/10/26	NC	80 - 120	101	80 - 120	<0.050	ug/L	0.086	20
8806580	Dissolved Thallium (Tl)	2017/10/26	98	80 - 120	102	80 - 120	<0.0020	ug/L	17	20
8806580	Dissolved Tin (Sn)	2017/10/26	95	80 - 120	104	80 - 120	<0.20	ug/L	NC	20
8806580	Dissolved Titanium (Ti)	2017/10/26	97	80 - 120	103	80 - 120	<0.50	ug/L	NC	20
8806580	Dissolved Uranium (U)	2017/10/26	93	80 - 120	98	80 - 120	<0.0020	ug/L	1.3	20
8806580	Dissolved Vanadium (V)	2017/10/26	97	80 - 120	106	80 - 120	<0.20	ug/L	7.3	20
8806580	Dissolved Zinc (Zn)	2017/10/26	95	80 - 120	109	80 - 120	<0.10	ug/L	13	20
8806580	Dissolved Zirconium (Zr)	2017/10/26	89	80 - 120	87	80 - 120	<0.10	ug/L	2.2	20
8806587	Total Dissolved Solids	2017/10/26	100	80 - 120	95	80 - 120	<10	mg/L	7.5	20
8806589	Total Suspended Solids	2017/10/26			102	80 - 120	<1.0	mg/L		

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QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8806592	Total Suspended Solids	2017/10/26			102	80 - 120	<1.0	mg/L		
8806751	pH	2017/10/25			102	97 - 103			0.88	20
8806789	Conductivity	2017/10/25			100	80 - 120	<1.0	uS/cm		
8806793	Alkalinity (PP as CaCO3)	2017/10/25					<0.50	mg/L	NC	20
8806793	Alkalinity (Total as CaCO3)	2017/10/25	97	80 - 120	101	80 - 120	<0.50	mg/L	NC	20
8806793	Bicarbonate (HCO3)	2017/10/25					<0.50	mg/L	NC	20
8806793	Carbonate (CO3)	2017/10/25					<0.50	mg/L	NC	20
8806793	Hydroxide (OH)	2017/10/25					<0.50	mg/L	NC	20
8806957	Total Organic Carbon (C)	2017/10/25	86	80 - 120	112	80 - 120	<0.50	mg/L	16	20
8806958	Dissolved Organic Carbon (C)	2017/10/25	93	80 - 120	112	80 - 120	<0.50	mg/L	18	20
8806959	Dissolved Organic Carbon (C)	2017/10/25	99	80 - 120	102	80 - 120	<0.50	mg/L	10	20
8806960	Total Organic Carbon (C)	2017/10/25	99	80 - 120	102	80 - 120	<0.50	mg/L	7.0	20
8807298	Alkalinity (PP as CaCO3)	2017/10/25					<0.50	mg/L	NC	20
8807298	Alkalinity (Total as CaCO3)	2017/10/25	99	80 - 120	98	80 - 120	0.51, RDL=0.50	mg/L	2.5	20
8807298	Bicarbonate (HCO3)	2017/10/25					0.62, RDL=0.50	mg/L	2.5	20
8807298	Carbonate (CO3)	2017/10/25					<0.50	mg/L	NC	20
8807298	Hydroxide (OH)	2017/10/25					<0.50	mg/L	NC	20
8807358	Total Suspended Solids	2017/10/26			99	80 - 120	<1.0	mg/L		
8807415	pH	2017/10/25			102	97 - 103			0.39	20
8807416	Conductivity	2017/10/25			101	80 - 120	<1.0	uS/cm	2.1	20
8807420	pH	2017/10/25			102	97 - 103			0.50	20
8807424	Conductivity	2017/10/25			101	80 - 120	<1.0	uS/cm	0.24	20
8807425	Alkalinity (PP as CaCO3)	2017/10/25					<0.50	mg/L	NC	20
8807425	Alkalinity (Total as CaCO3)	2017/10/25	NC	80 - 120	95	80 - 120	<0.50	mg/L	3.4	20
8807425	Bicarbonate (HCO3)	2017/10/25					<0.50	mg/L	3.4	20
8807425	Carbonate (CO3)	2017/10/25					<0.50	mg/L	NC	20
8807425	Hydroxide (OH)	2017/10/25					<0.50	mg/L	NC	20
8807644	Total Aluminum (Al)	2017/10/27	106	80 - 120	104	80 - 120	<0.50	ug/L	3.8	20
8807644	Total Antimony (Sb)	2017/10/27	102	80 - 120	98	80 - 120	<0.020	ug/L	2.9	20
8807644	Total Arsenic (As)	2017/10/27	102	80 - 120	96	80 - 120	<0.020	ug/L	1.4	20
8807644	Total Barium (Ba)	2017/10/27	NC	80 - 120	100	80 - 120	<0.020	ug/L	0.90	20

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QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8807644	Total Beryllium (Be)	2017/10/27	104	80 - 120	97	80 - 120	<0.010	ug/L	NC	20
8807644	Total Bismuth (Bi)	2017/10/27	97	80 - 120	97	80 - 120	<0.0050	ug/L	NC	20
8807644	Total Boron (B)	2017/10/27	98	80 - 120	96	80 - 120	<10	ug/L	NC	20
8807644	Total Cadmium (Cd)	2017/10/27	98	80 - 120	96	80 - 120	<0.0050	ug/L	NC	20
8807644	Total Chromium (Cr)	2017/10/27	99	80 - 120	96	80 - 120	<0.10	ug/L	0.96	20
8807644	Total Cobalt (Co)	2017/10/27	97	80 - 120	95	80 - 120	<0.0050	ug/L	3.0	20
8807644	Total Copper (Cu)	2017/10/27	96	80 - 120	96	80 - 120	<0.050	ug/L	0.22	20
8807644	Total Iron (Fe)	2017/10/27	97	80 - 120	95	80 - 120	<1.0	ug/L	2.8	20
8807644	Total Lead (Pb)	2017/10/27	99	80 - 120	99	80 - 120	<0.0050	ug/L	NC	20
8807644	Total Lithium (Li)	2017/10/27	104	80 - 120	99	80 - 120	<0.50	ug/L	7.1	20
8807644	Total Manganese (Mn)	2017/10/27	101	80 - 120	97	80 - 120	<0.050	ug/L	16	20
8807644	Total Molybdenum (Mo)	2017/10/27	98	80 - 120	98	80 - 120	<0.050	ug/L	3.5	20
8807644	Total Nickel (Ni)	2017/10/27	98	80 - 120	98	80 - 120	<0.020	ug/L	4.5	20
8807644	Total Phosphorus (P)	2017/10/27					<2.0	ug/L	9.0	20
8807644	Total Selenium (Se)	2017/10/27	104	80 - 120	99	80 - 120	<0.040	ug/L	6.2	20
8807644	Total Silicon (Si)	2017/10/27					<50	ug/L	2.2	20
8807644	Total Silver (Ag)	2017/10/27	106	80 - 120	103	80 - 120	<0.0050	ug/L	NC	20
8807644	Total Strontium (Sr)	2017/10/27	NC	80 - 120	95	80 - 120	<0.050	ug/L	2.8	20
8807644	Total Thallium (Tl)	2017/10/27	96	80 - 120	94	80 - 120	<0.0020	ug/L	0	20
8807644	Total Tin (Sn)	2017/10/27	97	80 - 120	97	80 - 120	<0.20	ug/L	NC	20
8807644	Total Titanium (Ti)	2017/10/27	98	80 - 120	87	80 - 120	<0.50	ug/L	9.9	20
8807644	Total Uranium (U)	2017/10/27	NC	80 - 120	102	80 - 120	<0.0020	ug/L	0.50	20
8807644	Total Vanadium (V)	2017/10/27	99	80 - 120	95	80 - 120	<0.20	ug/L	14	20
8807644	Total Zinc (Zn)	2017/10/27	101	80 - 120	97	80 - 120	<0.10	ug/L	17	20
8807644	Total Zirconium (Zr)	2017/10/27	100	80 - 120	88	80 - 120	<0.10	ug/L	6.7	20
8807920	ORP	2017/10/30							0	20
8808087	Total Ammonia (N)	2017/10/26	NC	80 - 120	97	80 - 120	<0.020	mg/L	0.85	20
8808088	Total Ammonia (N)	2017/10/26	NC	80 - 120	106	80 - 120	<0.020	mg/L	1.7	20
8808091	Total Ammonia (N)	2017/10/26	94	80 - 120	99	80 - 120	<0.020	mg/L	NC	20
8808094	Total Ammonia (N)	2017/10/26	93	80 - 120	100	80 - 120	<0.020	mg/L	NC	20

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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8808183	Fluoride (F)	2017/10/26	100	80 - 120	102	80 - 120	0.010, RDL=0.010	mg/L	8.7	20
8808228	Dissolved Chloride (Cl)	2017/10/25	113	80 - 120	96	80 - 120	<0.50	mg/L	0.51	20
8808236	Dissolved Sulphate (SO4)	2017/10/25	NC	80 - 120	94	80 - 120	<0.50	mg/L	0.16	20
8808242	Dissolved Chloride (Cl)	2017/10/25	111	80 - 120	97	80 - 120	<0.50	mg/L	6.5	20
8808250	Dissolved Sulphate (SO4)	2017/10/25	NC	80 - 120	96	80 - 120	<0.50	mg/L	0.27	20
8808371	Fluoride (F)	2017/10/26	98	80 - 120	100	80 - 120	0.012, RDL=0.010	mg/L	3.3	20
8808405	Dissolved Chloride (Cl)	2017/10/25			97	80 - 120	<0.50	mg/L		
8808408	Dissolved Sulphate (SO4)	2017/10/25			96	80 - 120	<0.50	mg/L		
8808480	Total Aluminum (Al)	2017/10/28	109	80 - 120	114	80 - 120	<3.0	ug/L	4.5	20
8808480	Total Antimony (Sb)	2017/10/28	99	80 - 120	105	80 - 120	<0.020	ug/L	3.0	20
8808480	Total Arsenic (As)	2017/10/28	106	80 - 120	107	80 - 120	<0.020	ug/L	8.9	20
8808480	Total Barium (Ba)	2017/10/28	NC	80 - 120	108	80 - 120	<0.050	ug/L	2.7	20
8808480	Total Beryllium (Be)	2017/10/28	102	80 - 120	106	80 - 120	<0.010	ug/L	NC	20
8808480	Total Bismuth (Bi)	2017/10/28	100	80 - 120	104	80 - 120	<0.010	ug/L	NC	20
8808480	Total Boron (B)	2017/10/28	99	80 - 120	104	80 - 120	<10	ug/L	NC	20
8808480	Total Cadmium (Cd)	2017/10/28	98	80 - 120	104	80 - 120	<0.0050	ug/L	13	20
8808480	Total Chromium (Cr)	2017/10/28	99	80 - 120	105	80 - 120	<0.10	ug/L	12	20
8808480	Total Cobalt (Co)	2017/10/28	96	80 - 120	100	80 - 120	<0.010	ug/L	6.7	20
8808480	Total Copper (Cu)	2017/10/28	93	80 - 120	102	80 - 120	<0.10	ug/L	0.74	20
8808480	Total Iron (Fe)	2017/10/28	111	80 - 120	105	80 - 120	<5.0	ug/L	7.2	20
8808480	Total Lead (Pb)	2017/10/28	101	80 - 120	105	80 - 120	<0.020	ug/L	57 (1)	20
8808480	Total Lithium (Li)	2017/10/28	101	80 - 120	107	80 - 120	<0.50	ug/L	2.5	20
8808480	Total Manganese (Mn)	2017/10/28	103	80 - 120	100	80 - 120	<0.10	ug/L	2.3	20
8808480	Total Molybdenum (Mo)	2017/10/28	108	80 - 120	109	80 - 120	<0.050	ug/L	12	20
8808480	Total Nickel (Ni)	2017/10/28	96	80 - 120	103	80 - 120	<0.10	ug/L	8.0	20
8808480	Total Phosphorus (P)	2017/10/28					<5.0	ug/L	NC	20
8808480	Total Selenium (Se)	2017/10/28	106	80 - 120	106	80 - 120	<0.040	ug/L	1.1	20
8808480	Total Silicon (Si)	2017/10/28					<50	ug/L	0.015	20
8808480	Total Silver (Ag)	2017/10/28	107	80 - 120	112	80 - 120	<0.010	ug/L	NC	20
8808480	Total Strontium (Sr)	2017/10/28	NC	80 - 120	102	80 - 120	<0.050	ug/L	4.2	20

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QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8808480	Total Thallium (Tl)	2017/10/28	102	80 - 120	104	80 - 120	<0.0020	ug/L	0	20
8808480	Total Tin (Sn)	2017/10/28	101	80 - 120	106	80 - 120	<0.20	ug/L	NC	20
8808480	Total Titanium (Ti)	2017/10/28	103	80 - 120	103	80 - 120	<2.0	ug/L	NC	20
8808480	Total Uranium (U)	2017/10/28	NC	80 - 120	105	80 - 120	<0.0050	ug/L	3.8	20
8808480	Total Vanadium (V)	2017/10/28	101	80 - 120	103	80 - 120	<0.20	ug/L	1.2	20
8808480	Total Zinc (Zn)	2017/10/28	98	80 - 120	103	80 - 120	<1.0	ug/L	NC	20
8808480	Total Zirconium (Zr)	2017/10/28	104	80 - 120	106	80 - 120	<0.10	ug/L	0	20
8808487	Nitrate plus Nitrite (N)	2017/10/25	NC	80 - 120	107	80 - 120	<0.0020	mg/L	1.1	25
8808489	Nitrite (N)	2017/10/25	95	80 - 120	101	80 - 120	<0.0020	mg/L	0	25
8808490	Nitrate plus Nitrite (N)	2017/10/25	98	80 - 120	105	80 - 120	<0.0020	mg/L	0.80	25
8808493	Nitrite (N)	2017/10/25	97	80 - 120	100	80 - 120	<0.0020	mg/L	NC	25
8808495	Nitrate plus Nitrite (N)	2017/10/25	NC	80 - 120	104	80 - 120	<0.0020	mg/L	0.65	25
8808497	Nitrite (N)	2017/10/25	96	80 - 120	102	80 - 120	<0.0020	mg/L	NC	25
8808548	Fluoride (F)	2017/10/26	97	80 - 120	100	80 - 120	<0.010	mg/L	1.2	20
8808595	Total Aluminum (Al)	2017/10/31	107	80 - 120	108	80 - 120	<3.0	ug/L	4.1	20
8808595	Total Antimony (Sb)	2017/10/31	107	80 - 120	105	80 - 120	<0.020	ug/L	4.3	20
8808595	Total Arsenic (As)	2017/10/31	113	80 - 120	99	80 - 120	<0.020	ug/L	1.3	20
8808595	Total Barium (Ba)	2017/10/31	NC	80 - 120	102	80 - 120	<0.050	ug/L	0.22	20
8808595	Total Beryllium (Be)	2017/10/31	106	80 - 120	105	80 - 120	<0.010	ug/L	NC	20
8808595	Total Bismuth (Bi)	2017/10/31	105	80 - 120	100	80 - 120	<0.010	ug/L	NC	20
8808595	Total Boron (B)	2017/10/31	104	80 - 120	107	80 - 120	<10	ug/L	NC	20
8808595	Total Cadmium (Cd)	2017/10/31	100	80 - 120	101	80 - 120	<0.0050	ug/L	3.7	20
8808595	Total Chromium (Cr)	2017/10/31	101	80 - 120	100	80 - 120	<0.10	ug/L	5.1	20
8808595	Total Cobalt (Co)	2017/10/31	98	80 - 120	100	80 - 120	<0.010	ug/L	6.6	20
8808595	Total Copper (Cu)	2017/10/31	97	80 - 120	101	80 - 120	<0.10	ug/L	1.2	20
8808595	Total Iron (Fe)	2017/10/31	102	80 - 120	102	80 - 120	<5.0	ug/L	0.14	20
8808595	Total Lead (Pb)	2017/10/31	100	80 - 120	101	80 - 120	<0.020	ug/L	NC	20
8808595	Total Lithium (Li)	2017/10/31	104	80 - 120	105	80 - 120	<0.50	ug/L	1.6	20
8808595	Total Manganese (Mn)	2017/10/31	NC	80 - 120	97	80 - 120	<0.10	ug/L	0.15	20
8808595	Total Molybdenum (Mo)	2017/10/31	113	80 - 120	99	80 - 120	<0.050	ug/L	0.48	20
8808595	Total Nickel (Ni)	2017/10/31	97	80 - 120	101	80 - 120	<0.10	ug/L	5.7	20

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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8808595	Total Phosphorus (P)	2017/10/31					<5.0	ug/L	NC	20
8808595	Total Selenium (Se)	2017/10/31	106	80 - 120	106	80 - 120	<0.040	ug/L	9.8	20
8808595	Total Silicon (Si)	2017/10/31					<50	ug/L	1.4	20
8808595	Total Silver (Ag)	2017/10/31	109	80 - 120	108	80 - 120	<0.010	ug/L	NC	20
8808595	Total Strontium (Sr)	2017/10/31	NC	80 - 120	95	80 - 120	<0.050	ug/L	1.0	20
8808595	Total Thallium (Tl)	2017/10/31	103	80 - 120	102	80 - 120	<0.0020	ug/L	11	20
8808595	Total Tin (Sn)	2017/10/31	97	80 - 120	96	80 - 120	<0.20	ug/L	NC	20
8808595	Total Titanium (Ti)	2017/10/31	110	80 - 120	96	80 - 120	<2.0	ug/L	NC	20
8808595	Total Uranium (U)	2017/10/31	NC	80 - 120	98	80 - 120	<0.0050	ug/L	0.19	20
8808595	Total Vanadium (V)	2017/10/31	101	80 - 120	100	80 - 120	<0.20	ug/L	7.5	20
8808595	Total Zinc (Zn)	2017/10/31	100	80 - 120	104	80 - 120	<1.0	ug/L	NC	20
8808595	Total Zirconium (Zr)	2017/10/31	99	80 - 120	97	80 - 120	<0.10	ug/L	0.66	20
8808639	Total Dissolved Solids	2017/10/27	100	80 - 120	103	80 - 120	<10	mg/L	0.92	20
8809049	pH	2017/10/26			102	97 - 103			7.4	20
8809052	Conductivity	2017/10/26			101	80 - 120	<1.0	uS/cm		
8809055	Alkalinity (PP as CaCO3)	2017/10/26					<0.50	mg/L		
8809055	Alkalinity (Total as CaCO3)	2017/10/26			101	80 - 120	<0.50	mg/L		
8809055	Bicarbonate (HCO3)	2017/10/26					<0.50	mg/L		
8809055	Carbonate (CO3)	2017/10/26					<0.50	mg/L		
8809055	Hydroxide (OH)	2017/10/26					<0.50	mg/L		
8809198	Total Ammonia (N)	2017/10/27	NC	80 - 120	98	80 - 120	<0.020	mg/L	0.49	20
8809200	Total Ammonia (N)	2017/10/27	97	80 - 120	102	80 - 120	<0.020	mg/L	NC	20
8809201	Total Ammonia (N)	2017/10/27	88	80 - 120	97	80 - 120	<0.020	mg/L	NC	20
8809205	Total Ammonia (N)	2017/10/27	101	80 - 120	108	80 - 120	<0.020	mg/L	14	20
8809732	Dissolved Chloride (Cl)	2017/10/26			99	80 - 120	<0.50	mg/L		
8809740	Dissolved Sulphate (SO4)	2017/10/26			99	80 - 120	<0.50	mg/L		
8809770	Nitrate plus Nitrite (N)	2017/10/26			103	80 - 120	<0.0020	mg/L		
8809771	Nitrite (N)	2017/10/26			101	80 - 120	<0.0020	mg/L		
8809772	Nitrate plus Nitrite (N)	2017/10/26	94	80 - 120	104	80 - 120	<0.0020	mg/L	6.7	25
8809779	Nitrite (N)	2017/10/26	91	80 - 120	101	80 - 120	<0.0020	mg/L	14	25
8810355	Weak Acid Dissoc. Cyanide (CN)	2017/10/27	NC	80 - 120	97	80 - 120	<0.00050	mg/L	2.5	20

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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8810667	Total Organic Carbon (C)	2017/10/27	107	80 - 120	115	80 - 120	<0.50	mg/L	8.1	20
8810670	Total Organic Carbon (C)	2017/10/27	109	80 - 120	108	80 - 120	<0.50	mg/L	NC	20
8810677	Total Organic Carbon (C)	2017/10/27			112	80 - 120	<0.50	mg/L		
8810689	Dissolved Organic Carbon (C)	2017/10/27	100	80 - 120	117	80 - 120	<0.50	mg/L	2.5	20
8810692	Dissolved Organic Carbon (C)	2017/10/27	102	80 - 120	104	80 - 120	<0.50	mg/L	0.23	20
8812262	Dissolved Mercury (Hg)	2017/10/30	98	80 - 120	98	80 - 120	<0.0020	ug/L	NC	20
8812408	Total Mercury (Hg)	2017/10/30	94	80 - 120	96	80 - 120	<0.0020	ug/L	NC	20
8812611	Dissolved Mercury (Hg)	2017/10/30	87	80 - 120	95	80 - 120	<0.0020	ug/L	NC	20
8812670	Dissolved Mercury (Hg)	2017/10/30	100	80 - 120	99	80 - 120	<0.0020	ug/L	NC	20
8813221	Total Mercury (Hg)	2017/10/31	85	80 - 120	96	80 - 120	<0.0020	ug/L	NC	20
8813222	Total Mercury (Hg)	2017/10/31	90	80 - 120	91	80 - 120	<0.0020	ug/L	NC	20
8813820	Dissolved Organic Carbon (C)	2017/10/31	97	80 - 120	102	80 - 120	<0.50	mg/L	2.6	20
8813837	Total Organic Carbon (C)	2017/10/31	101	80 - 120	104	80 - 120	<0.50	mg/L	4.9	20
8813885	Weak Acid Dissoc. Cyanide (CN)	2017/10/31	100	80 - 120	102	80 - 120	<0.00050	mg/L	10	20
8813887	Weak Acid Dissoc. Cyanide (CN)	2017/10/31	102	80 - 120	104	80 - 120	<0.00050	mg/L	4.4	20
8816333	Dissolved Manganese (Mn)	2017/11/02			97	80 - 120	<0.050	ug/L		
8816333	Dissolved Zinc (Zn)	2017/11/02			104	80 - 120	<0.10	ug/L		
8818954	Dissolved Organic Carbon (C)	2017/11/03	108	80 - 120	103	80 - 120	<0.50	mg/L	1.0	20
8818956	Total Organic Carbon (C)	2017/11/03	102	80 - 120	107	80 - 120	<0.50	mg/L	9.5	20

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

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

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

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

Maxxam Job #: B793988
Report Date: 2017/11/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Andy Lu, Ph.D., P.Chem., Scientific Specialist

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Maxxam Analytics International Corporation o/a Maxxam Analytics
 4606 Canada Way, Burnaby, British Columbia Canada V5G 1K5 Tel:(604) 734 7276 Toll-free 800-563-6266 Fax:(604) 731 2386 www.maxxam.ca

Chain Of Custody Record

INVOICE TO:		Report Information			Project Information			Laboratory Use Only	
Company Name	#3604 LORAX ENVIRONMENTAL SERVICES LTD.	Company Name	David Flather		Quotation #	B40231		Maxxam Job #	Bottle Order #:
Contact Name	Aida Piaseczny	Contact Name	David Flather		P.O. #			B793988	
Address	2289 BARRARD STREET VANCOUVER BC V6J 3H9	Address			Project #	Gold Corp Coffee Creek-SW		538344	Project Manager
Phone	(604) 688-7173 x Fax: (604) 688-7175 x	Phone			Project Name			Chain Of Custody Record	Megan Smith
Email	aida.piaseczny@lorax.ca; shukling.ng@lorax.ca	Email	David.Flather@lorax.ca		Site #				
					Sampled By			C#538344-01-01	

Regulatory Criteria	Special Instructions	Analysis Requested										Turnaround Time (TAT) Required		
		Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	Routine (Alk, EC, pH, TDS)	TSS-Low Level	Anions (Cl, F, NO2, NO3, NH4, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	Please provide advance notice for rush projects	
<p>Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form</p> <p>Samples must be kept cool (< 10°C) from time of sampling until delivery to maxxam</p>													<p>Regular (Standard) TAT (will be applied if Rush TAT is not specified) Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.</p> <p>Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____ Rush Confirmation Number _____ (call lab for #)</p>	

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	Routine (Alk, EC, pH, TDS)	TSS-Low Level	Anions (Cl, F, NO2, NO3, NH4, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	# of Bottles	Comments
	CC-0.5	OCT. 20/11	11:50	H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	
	CC-1.0	OCT 19/11	14:50		N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	
	CC-1.5	OCT. 19/11	15:20		N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	RECEIVED IN WHITEHORSE
	CC-3.5	OCT 20/11	12:10		N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	BY: <i>Suzanne</i> 1540
	CC-4.5	OCT 19/11	16:35		N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	2017-10-23
	CC-5.0	OCT. 20/11	13:30		N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	TEMP: 5°C in shade
	CC-5.5	OCT. 20/11	14:10		N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	3
	CC-6.0	OCT. 20/11	13:50		N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	3
	CC-A	OCT. 20/11	14:25		N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	3
	CC-B	OCT. 20/11	12:35		N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	3

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Lab Use Only	
<i>[Signature]</i>	11/10/22	15:40	<i>[Signature]</i> RON MAPUE	2017/10/24	13:00		Time Sensitive <input type="checkbox"/>	Temperature (°C) on Receipt: ACTE
							Custody Seal Intact on Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.
 * IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.



B793988_COC



Maxxam Analytics International Corporation o/a Maxxam Analytics
 4606 Canada Way, Burnaby, British Columbia Canada V5G 1K5 Tel:(604) 734 7276 Toll-free 800-563-6266 Fax:(604) 731 2386 www.maxxam.ca

Chain Of Custody Record

INVOICE TO:		Report Information				Project Information				Laboratory Use Only			
Company Name #3604 LORAX ENVIRONMENTAL SERVICES LTD.		Company Name David Flather		Quotation # B40231		Maxxam Job #		Bottle Order #:		536344		B793988	
Contact Name Aida Piaseczny		Contact Name David Flather		P.O. #		Chain Of Custody Record		Project Manager		Megan Smith		C#536344-02-01	
Address 2289 BURRARD STREET VANCOUVER BC V6J 3H9		Address		Project # Gold Corp Coffee Creek-SW		Site #		Sampled By		C#536344-02-01		Megan Smith	
Phone (604) 688-7173 x Fax (604) 688-7175 x		Phone Fax		Site #		Sampled By		Sampled By		C#536344-02-01		Megan Smith	
Email aida.piaseczny@lorax.ca; shukling.ng@lorax.ca		Email David.Flather@lorax.ca		Sampled By		Sampled By		Sampled By		C#536344-02-01		Megan Smith	

Regulatory Criteria		Special Instructions		Analysis Requested										Turnaround Time (TAT) Required													
				Regulated Drinking Water? (Y/N)		Metals Field Filtered? (Y/N)		Routine (Alk, EC, pH, TDS)		TSS-Low Level		Anions (Cl, F, NO2, NO3, NH4, SO4)		Cyanide - WAD		TOC		DOC		Low Level Dissolved Metals incl. CV Hg		Low Level Total Metals incl. CV Hg		ORP		Please provide advance notice for rush projects	
																								Regular (Standard) TAT (will be applied if Rush TAT is not specified) Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.			
																								Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____ Rush Confirmation Number _____ (call lab for #)			

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 10°C) from time of sampling until delivery to maxxam

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	Routine (Alk, EC, pH, TDS)	TSS-Low Level	Anions (Cl, F, NO2, NO3, NH4, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	# of Bottles	Comments
1 SID#149899	CC-C	OCT. 19/17	17:25	H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	RECEIVED IN WHITEHORSE BY: <u>shukling@1540</u> 2017-10-23 5 4 4 TEMP: 3 1 3 1 3 5 6 6 8 8 8 6 3 3
2 SID#149900	CC-D	OCT. 20/17	13:10	H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	
3 SID#149901	HC-2.5	OCT. 19/17	14:00	H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	
4 SID#149902	HC-5.0	OCT. 20/17	15:40	H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	
5 SID#149903	HC-A	OCT. 20/17	16:35	H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	
6 SID#149904	HC-B	OCT. 20/17	15:15	H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	
7 SID#094856	HC-C	OCT. 20/17	14:50	H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	
8 SID#176820	IC-0.5	OCT. 21/17	12:25	H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	
9 SID#176821	IC-1.5	OCT. 21/17	12:10	H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	
10 SID#176822	IC-2.5	OCT. 21/17	12:55	H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	

* RELINQUISHED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	# jars used and not submitted	Lab Use Only	
<u>Aida Piaseczny</u>		17/10/17	15:40	<u>RON MARIE</u>		20/10/17	13:00		Time Sensitive <input type="checkbox"/>	Temperature (°C) on Receipt ACTR.
										Custody Seal Intact on Cooler? <input type="checkbox"/> Yes <input type="checkbox"/> No

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.
 IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

INVOICE TO:		Report Information				Project Information				Laboratory Use Only	
Company Name	#3604 LORAX ENVIRONMENTAL SERVICES LTD.	Company Name	David Flather			Quotation #	B40231			Maxxam Job #	Bottle Order #:
Contact Name	Aida Piaseczny	Contact Name	David Flather			P.O. #				538344	
Address	2289 BURRARD STREET VANCOUVER BC V6J 3H9	Address				Project #	Gold Corp Coffee Creek-SW			Chain Of Custody Record	Project Manager
Phone	(604) 688-7173 x	Phone				Project Name					Megan Smith
Email	aida.piaseczny@lorax.ca; shukling.ng@lorax.ca	Email	David.Flather@lorax.ca			Site #				CF538344-03-01	

Regulatory Criteria	Special Instructions	Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	Routine (Alk, EC, pH, TDS)	TSS-Low Level	Anions (Cl, F, NO2, NO3, NH4, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	Turnaround Time (TAT) Required
<p>Regular (Standard) TAT (will be applied if Rush TAT is not specified) Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.</p> <p>Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____</p> <p>Rush Confirmation Number _____ (call lab for #)</p>													

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form
Samples must be kept cool (< 10°C) from time of sampling until delivery to maxxam

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	Routine (Alk, EC, pH, TDS)	TSS-Low Level	Anions (Cl, F, NO2, NO3, NH4, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	# of Bottles	Comments
1 SID#176823	IC-3.0	OCT. 21/17	13:15	H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	RECEIVED IN WHITEHORSE BY: <u>Alyson@1540</u>
2 SID#176824	IC-4.5	OCT. 21/17	13:40		N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	
3 SID#176825	ML-1.0 (YT-24)	OCT. 21/17	09:35		N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	2017-10-23 5 4 3 1 3 1 4
4 SID#178956	ML-A	OCT. 21/17	10:30		N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	TEMP: 20 1 3 1 4
5 SID#178957	ML-B	OCT. 21/17	11:00		N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	20 1 3 1 4
6 SID#178958	ML-C (YUK-24-2)	OCT. 21/17	11:25		N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	20 1 3 1 4
7 SID#178959	YUK-2.0	OCT. 20/17	10:55		N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	
8 SID#178960	YUK-5.0	OCT. 21/17	14:25		N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	
9 SID#178961	Ballarat U/S Y.R.	OCT. 20/17	10:15		N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	
10 SID#178962	Barker U/S S.R.	OCT. 21/17	15:55		N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	

RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# Jars used and not submitted	Lab Use Only	
<u>Aida Piaseczny</u>	17/10/17	17:40	<u>RON MAPLE</u>	20/10/17	13:00		Time Sensitive <input type="checkbox"/>	Temperature (°C) on Receipt: <u>ACTR</u>
* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.							Custody Seal Intact on Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.							White: Maxxam Yellow: Client	



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 4606 Canada Way, Burnaby, British Columbia Canada V5G 1K5 Tel: (604) 734 7276 Toll-free: 800-563-6266 Fax: (604) 731 2386 www.maxxam.ca

Chain Of Custody Record

INVOICE TO:		Report Information				Project Information				Laboratory Use Only			
Company Name: #3604 LORAX ENVIRONMENTAL SERVICES LTD.		Company Name: Aida Piaseczny		Quotation #: B40231		Maxxam Job #: B7 93988		Bottle Order #: 538344		Project Manager: Megan Smith		Chain Of Custody Record	
Contact Name: Aida Piaseczny		Contact Name: David Flather		P.O. #: Gold Corp Coffee Creek-SW		Site #:		C#538344-04-01		Project Manager: Megan Smith		Chain Of Custody Record	
Address: 2289 BURRARD STREET VANCOUVER BC V6J 3H9		Address: David.Flather@lorax.ca		Project Name:		Site #:		C#538344-04-01		Project Manager: Megan Smith		Chain Of Custody Record	
Phone: (604) 688-7173 x Fax: (604) 688-7175 x		Phone: David.Flather@lorax.ca Fax:		Site #:		Site #:		C#538344-04-01		Project Manager: Megan Smith		Chain Of Custody Record	
Email: aida.piaseczny@lorax.ca; shuking.ng@lorax.ca		Email: David.Flather@lorax.ca		Site #:		Site #:		C#538344-04-01		Project Manager: Megan Smith		Chain Of Custody Record	

Regulatory Criteria		Special Instructions		Analysis Requested										Turnaround Time (TAT) Required	
				Regulated Drinking Water? (Y/N) <input type="checkbox"/> Metals Field Filtered? (Y/N) <input type="checkbox"/> Routine (Alk, EC, pH, TDS) <input type="checkbox"/> TSS-Low Level <input type="checkbox"/> Anions (Cl, F, NO2, NO3, NH4, SO4) <input type="checkbox"/> Cyanide - WAD <input type="checkbox"/> TOC <input type="checkbox"/> DOC <input type="checkbox"/> Low Level Dissolved Metals incl. CV Hg <input type="checkbox"/> Low Level Total Metals incl. CV Hg <input type="checkbox"/> ORP <input type="checkbox"/>										Please provide advance notice for rush projects Regular (Standard) TAT (will be applied if Rush TAT is not specified) <input checked="" type="checkbox"/> Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details. Job Specific Rush TAT (if applies to entire submission) <input type="checkbox"/> Date Required: _____ Time Required: _____ Rush Confirmation Number _____ (call lab for #)	

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form
 Samples must be kept cool (< 10°C) from time of sampling until delivery to maxxam

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	Routine (Alk, EC, pH, TDS)	TSS-Low Level	Anions (Cl, F, NO2, NO3, NH4, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	# of Bottles	Comments
1 SID#178963	Blackhills U/S S.R.	OCT. 21/11	15:00	H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	RECEIVED IN WHITEHORSE
2 SID#178964	MaisyMay U/S S.R.	OCT. 21/11	15:20		N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	BY: S! GUMO@D1540
3 SID#178965	Stewart D/S M.M.	OCT. 21/11	15:45		N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	2017-10-23
4 SID#184576	CC-X	OCT. 20/11	11:00		N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	TEMP: 25.5 27.5 28.5 29.5 30.5 31.5 32.5 33.5 34.5 35.5
5 SID#184577	Coffee Mix	0															
6 SID#184578	Halfway Mix																
7 SID#184579	Latte Mix	OCT. 19/11	16:00	H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	
8 SID#184580	YT-24 Mix																
9 SID#184581	Sample A																
10 SID#184582	Sample B																

* RELINQUISHED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	# Jars used and not submitted	Lab Use Only		
		11/10/23	15:40			2017/10/24	13:00		Time Sensitive <input type="checkbox"/>	Temperature (°C) on Receipt: ACTR	Custody Seal Intact on Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS. * IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.											

INVOICE TO:		Report Information			Project Information			Laboratory Use Only	
Company Name	#3604 LORAX ENVIRONMENTAL SERVICES LTD.	Company Name	David Flather		Quotation #	B40231		Maxxam Job #	Bottle Order #:
Contact Name	Aida Piaseczny	Contact Name	David Flather		P.O. #			538344	
Address	2289 BURRARD STREET VANCOUVER BC V6J 3H9	Address			Project #	Gold Corp Coffee Creek-SW		Chain Of Custody Record	Project Manager
Phone	(604) 688-7173 x	Phone			Project Name				Megan Smith
Email	aida.piaseczny@lorax.ca; shuking.ng@lorax.ca	Email	David.Flather@lorax.ca		Site #			C#538344-05-01	

Regulatory Criteria	Special Instructions	Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	Routine (Alk, EC, pH, TDS)	TSS-Low Level	Anions (Cl, F, NO2, NO3, NH4, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	Turnaround Time (TAT) Required
<p>Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form</p> <p>Samples must be kept cool (< 10°C) from time of sampling until delivery to maxxam</p>													
<p>Analysis Requested</p> <p>Regular (Standard) TAT (will be applied if Rush TAT is not specified) <input checked="" type="checkbox"/> Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.</p> <p>Job Specific Rush TAT (if applies to entire submission) <input type="checkbox"/> Date Required: _____ Time Required: _____ Rush Confirmation Number _____ (call lab for #)</p>													

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	Routine (Alk, EC, pH, TDS)	TSS-Low Level	Anions (Cl, F, NO2, NO3, NH4, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	# of Bottles	Comments
SID#188275	Sample C			H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	RECEIVED IN WHITEHORSE
SID#188276	FIELD BLANK	Oct. 19/14	19:30	(N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	BY: <i>Styano@1540</i>
SID#189835	TRIP BLANK				N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	2017-10-23
SID#189836																	TEMP: 5 3 2 2
SID#189837																	4 3 2 3
																	1 1 1 3
																	1 1 1 3

RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# Jars used and not submitted	Time Sensitive <input type="checkbox"/>	Temperature (°C) on Receipt	Custody Seal Intact on Cooler? <input type="checkbox"/> Yes <input type="checkbox"/> No
<i>[Signature]</i>	17/10/13	15:40	<i>[Signature]</i> RON MARUE	20/10/24	13:00			ACSR	

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.



Maxxam Analytics International Corporation o/a Maxxam Analytics
 4606 Canada Way, Burnaby, British Columbia Canada V5G 1K5 Tel: (604) 734 7276 Toll-free 800-563-6266 Fax: (604) 731 2386 www.maxxam.ca

INVOICE TO:		Report Information		Project Information	
Company Name #3604 LORAX ENVIRONMENTAL SERVICES LTD.	Company Name Aida Piaseczny	Contact Name David Flather	Quotation # B40231	P.O. #	
Contact Name Aida Piaseczny	Address 2289 BURRARD STREET VANCOUVER BC V6J 3H9	Address	Project # Gold Corp Coffee Creek-SW	Project Name	
Phone (604) 688-7173 x	Fax (604) 688-7175 x	Phone	Site #	Sampled By	
Email aida.piaseczny@lorax.ca; shuking.ng@lorax.ca		Email David.Flather@lorax.ca			



B793988_COC

Order #:
538344
Project Manager

Megan Smith

Regulatory Criteria	Special Instructions	Analysis Requested										Turnaround Time (TAT) Required		
		Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	Routine (Alk, EC, pH, TDS)	TSS-Low Level	Anions (Cl, F, NO2, NO3, NH4, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	Please provide advance notice for rush projects	
<p>Regular (Standard) TAT (will be applied if Rush TAT is not specified) Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.</p> <p>Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____</p> <p>Rush Confirmation Number _____ (call lab for #)</p>														

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 10°C) from time of sampling until delivery to maxxam

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	Routine (Alk, EC, pH, TDS)	TSS-Low Level	Anions (Cl, F, NO2, NO3, NH4, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	# of Bottles	Comments	
1 SID#178963	Blackhills U/S S.R.																	
2 SID#178964	MaisyMay U/S S.R.																	
3 SID#178965	Stewart D/S M.M.																	
4 SID#184576	CC-X																	
5 SID#184577	Coffee Mix																	
6 SID#184578	Halfway Mix																	
7 SID#184579	Latte Mix																	
8 SID#184580	YT-24 Mix																	
9 SID#184581	Sample A						H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	12
10 SID#184582	Sample B						H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	12

RECEIVED IN WHITEHORSE
 BY: *[Signature]* @ 1000
 2017-10-23
 TEMP: 1 | 1 | 1 | 1

RELINQUISHED BY: (Signature/Print) <i>[Signature]</i> KEN NORDIN	Date: (YY/MM/DD) 17/10/24	Time 10:00	RECEIVED BY: (Signature/Print) <i>[Signature]</i> KEM CHAN	Date: (YY/MM/DD) 2017/10/25	Time 09:40	# Jars used and not submitted 2/2	Lab Use Only	
						Time Sensitive <input checked="" type="checkbox"/>	Temperature (°C) on Receipt 22.3	Custody Seal Intact on Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.
 * IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

Your Project #: Gold Corp Coffee Creek
 Site Location: COFFEE CREEK - SURFACE WATER
 Your C.O.C. #: 537489-01-01

Attention:David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
 2289 BURRARD STREET
 VANCOUVER, BC
 CANADA V6J 3H9

Report Date: 2017/11/08

Report #: R2473827

Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B796803

Received: 2017/10/30, 12:50

Sample Matrix: Water
 # Samples Received: 4

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity - Low Level	4	2017/11/01	2017/11/01	BBY6SOP-00026	SM 22 2320 B m
Chloride - Low Level	4	N/A	2017/11/02	BBY6SOP-00011	SM 22 4500-Cl- E m
Cyanide (weak acid dissociable) (1)	4	N/A	2017/11/08	EENVSOP-00062	SM 4500-CN-I
Carbon (DOC) - field filtered/preserved (2)	4	N/A	2017/11/01	BBY6SOP-00003	SM 22 5310 C m
Conductance - Low Level	4	2017/11/01	2017/11/01	BBY6SOP-00026	SM 22 2510 B m
Fluoride - Low Level	4	N/A	2017/11/01	BBY6SOP-00048	SM 22 4500-F C m
Hardness Total (calculated as CaCO3) (3)	4	N/A	2017/11/06	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3)	4	N/A	2017/11/03	BBY WI-00033	Auto Calc
Mercury (Dissolved-LowLevel) by CVAf	4	N/A	2017/11/06	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Total-LowLevel) by CVAf	4	2017/11/06	2017/11/06	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	4	N/A	2017/11/03	BBY7SOP-00002	EPA 6020B R2 m
Elements by ICPMS Low Level (dissolved)	4	N/A	2017/11/03	BBY7SOP-00002	EPA 6020B R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total)	4	N/A	2017/11/06	BBY7SOP-00003,	BCLM2005,EPA6020bR2m
Elements by ICPMS Low Level (total)	4	N/A	2017/11/04	BBY7SOP-00003,	BCLM2005,EPA6020bR2m
Ammonia-N Low Level (Preserved)	4	N/A	2017/11/01	BBY6SOP-00009	EPA 350.1 m
Nitrate+Nitrite (N) (low level)	4	N/A	2017/10/31	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrite (N) (low level)	4	N/A	2017/10/31	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrogen - Nitrate (as N) Low Level Calc	4	N/A	2017/11/01	BBY6SOP-00010	SM 22 4500-NO3- I m
Filter and HNO3 Preserve for Metals	4	N/A	2017/11/01	BBY7 WI-00004	BCMOE Reqs 08/14
pH Water (4)	4	2017/11/01	2017/11/01	BBY6SOP-00026	SM 22 4500-H+ B m
Sulphate - Low Level	3	N/A	2017/11/02	BBY6SOP-00017	SM 22 4500-SO42- E m
Sulphate - Low Level	1	N/A	2017/11/03	BBY6SOP-00017	SM 22 4500-SO42- E m
Total Dissolved Solids (Filt. Residue)	4	2017/11/01	2017/11/02	BBY6SOP-00033	SM 22 2540 C m
Carbon (Total Organic) (5)	4	N/A	2017/11/01	BBY6SOP-00003	SM 22 5310 C m
Total Suspended Solids	4	2017/11/01	2017/11/02	BBY6SOP-00034	SM 22 2540 D

Remarks:

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Maxxam's profession using

Your Project #: Gold Corp Coffee Creek
Site Location: COFFEE CREEK - SURFACE WATER
Your C.O.C. #: 537489-01-01

Attention:David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
2289 BURRARD STREET
VANCOUVER, BC
CANADA V6J 3H9

Report Date: 2017/11/08
Report #: R2473827
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B796803

Received: 2017/10/30, 12:50

accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Maxxam in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported: unless indicated otherwise, associated sample data are not blank corrected.

Maxxam Analytics' liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Maxxam has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Maxxam, unless otherwise agreed in writing.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

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

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

- (1) This test was performed by Maxxam Edmonton Environmental
- (2) DOC present in the sample should be considered as non-purgeable DOC.
- (3) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).
- (4) The BC-MOE and APHA Standard Method require pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the BC-MOE/APHA Standard Method holding time.
- (5) TOC present in the sample should be considered as non-purgeable TOC.

Encryption Key



Maxxam
08 Nov 2017 13:52:37

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Megan Smith, Project Manager
Email: msmith@maxxam.ca
Phone# (604) 734 7276



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This report has been generated and distributed using a secure automated process. Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Job #: B796803
Report Date: 2017/11/08

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: CB

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SJ2398	SJ2398		SJ2399	SJ2399		
Sampling Date		2017/10/28 11:15	2017/10/28 11:15		2017/10/28 11:48	2017/10/28 11:48		
COC Number		537489-01-01	537489-01-01		537489-01-01	537489-01-01		
	UNITS	HC-2.5	HC-2.5 Lab-Dup	QC Batch	CC-1.5	CC-1.5 Lab-Dup	RDL	QC Batch
Calculated Parameters								
Filter and HNO3 Preservation	N/A	LAB		8815259	LAB			8815259
Nitrate (N)	mg/L	0.628		8813846	0.371		0.0020	8813846
Misc. Inorganics								
Weak Acid Dissoc. Cyanide (CN)	mg/L	<0.0010	<0.0010	8823150	<0.0010		0.0010	8823150
Fluoride (F)	mg/L	0.100		8815429	0.100		0.010	8815429
Dissolved Organic Carbon (C)	mg/L	6.21		8815893	7.15		0.50	8815893
Alkalinity (Total as CaCO3)	mg/L	95.5		8815933	143		0.50	8815933
Total Organic Carbon (C)	mg/L	7.36		8815900	6.97		0.50	8815900
Alkalinity (PP as CaCO3)	mg/L	<0.50		8815933	<0.50		0.50	8815933
Bicarbonate (HCO3)	mg/L	117		8815933	175		0.50	8815933
Carbonate (CO3)	mg/L	<0.50		8815933	<0.50		0.50	8815933
Hydroxide (OH)	mg/L	<0.50		8815933	<0.50		0.50	8815933
Anions								
Dissolved Sulphate (SO4)	mg/L	48.6		8816151	168		0.50	8820572
Dissolved Chloride (Cl)	mg/L	0.60		8816150	0.61		0.50	8816150
Nutrients								
Total Ammonia (N)	mg/L	<0.0050	<0.0050	8814932	<0.0050		0.0050	8814932
Nitrate plus Nitrite (N)	mg/L	0.628		8815315	0.371	0.373	0.0020	8815315
Nitrite (N)	mg/L	<0.0020		8815318	<0.0020	<0.0020	0.0020	8815318
Physical Properties								
Conductivity	uS/cm	281		8815929	572		1.0	8815929
pH	pH	7.94		8815907	8.05			8815907
Physical Properties								
Total Suspended Solids	mg/L	<4.0		8815567	<4.0		4.0	8815567
Total Dissolved Solids	mg/L	172		8815316	340		10	8815330
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate								

Maxxam Job #: B796803
Report Date: 2017/11/08

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: CB

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SJ2400	SJ2401		
Sampling Date		2017/10/28 12:13	2017/10/28 12:30		
COC Number		537489-01-01	537489-01-01		
	UNITS	Latte Mix	CC-4.5	RDL	QC Batch
Calculated Parameters					
Filter and HNO3 Preservation	N/A	LAB	LAB		8815259
Nitrate (N)	mg/L	0.466	0.430	0.0020	8813846
Misc. Inorganics					
Weak Acid Dissoc. Cyanide (CN)	mg/L	<0.0010	<0.0010	0.0010	8823150
Fluoride (F)	mg/L	0.096	0.084	0.010	8815429
Dissolved Organic Carbon (C)	mg/L	8.80	9.28	0.50	8815893
Alkalinity (Total as CaCO3)	mg/L	61.4	59.6	0.50	8815933
Total Organic Carbon (C)	mg/L	8.55	8.41	0.50	8815900
Alkalinity (PP as CaCO3)	mg/L	<0.50	<0.50	0.50	8815933
Bicarbonate (HCO3)	mg/L	75.0	72.7	0.50	8815933
Carbonate (CO3)	mg/L	<0.50	<0.50	0.50	8815933
Hydroxide (OH)	mg/L	<0.50	<0.50	0.50	8815933
Anions					
Dissolved Sulphate (SO4)	mg/L	75.8	71.2	0.50	8816151
Dissolved Chloride (Cl)	mg/L	0.95	1.0	0.50	8816150
Nutrients					
Total Ammonia (N)	mg/L	<0.0050	<0.0050	0.0050	8814932
Nitrate plus Nitrite (N)	mg/L	0.466	0.430	0.0020	8815315
Nitrite (N)	mg/L	<0.0020	<0.0020	0.0020	8815318
Physical Properties					
Conductivity	uS/cm	283	270	1.0	8815929
pH	pH	7.82	7.79		8815907
Physical Properties					
Total Suspended Solids	mg/L	<4.0	<4.0	4.0	8815567
Total Dissolved Solids	mg/L	180	168	10	8815330
RDL = Reportable Detection Limit					

Maxxam Job #: B796803
Report Date: 2017/11/08

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: CB

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SJ2398	SJ2398	SJ2399		SJ2400	SJ2401		
Sampling Date		2017/10/28 11:15	2017/10/28 11:15	2017/10/28 11:48		2017/10/28 12:13	2017/10/28 12:30		
COC Number		537489-01-01	537489-01-01	537489-01-01		537489-01-01	537489-01-01		
	UNITS	HC-2.5	HC-2.5 Lab-Dup	CC-1.5	QC Batch	Latte Mix	CC-4.5	RDL	QC Batch

Misc. Inorganics									
Dissolved Hardness (CaCO3)	mg/L	139		308	8813398	137	131	0.50	8813398
Elements									
Dissolved Mercury (Hg)	ug/L	0.0028		0.0022	8820965	<0.0020	<0.0020	0.0020	8820965
Dissolved Metals by ICPMS									
Dissolved Aluminum (Al)	ug/L	27.5	27.3	20.2	8815608	26.7	25.7	0.50	8815608
Dissolved Antimony (Sb)	ug/L	0.554	0.574	0.108	8815608	0.101	0.093	0.020	8815608
Dissolved Arsenic (As)	ug/L	0.894	0.906	0.716	8815608	0.332	0.298	0.020	8815608
Dissolved Barium (Ba)	ug/L	46.8	46.4	74.1	8815608	60.7	71.0	0.020	8815608
Dissolved Beryllium (Be)	ug/L	<0.010	<0.010	<0.010	8815608	<0.010	<0.010	0.010	8815608
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	8815608	<0.0050	<0.0050	0.0050	8815608
Dissolved Boron (B)	ug/L	<10	<10	<10	8815608	<10	<10	10	8815608
Dissolved Cadmium (Cd)	ug/L	<0.0050	<0.0050	0.0070	8815608	0.0080	0.0086	0.0050	8815608
Dissolved Chromium (Cr)	ug/L	0.18	0.19	0.14	8815608	0.17	0.17	0.10	8815608
Dissolved Cobalt (Co)	ug/L	0.0303	0.0317	0.0240	8815608	0.0407	0.0360	0.0050	8815608
Dissolved Copper (Cu)	ug/L	0.983	0.971	1.11	8815608	1.42	1.40	0.050	8815608
Dissolved Iron (Fe)	ug/L	14.4	14.3	10.1	8815608	28.1	18.5	1.0	8815608
Dissolved Lead (Pb)	ug/L	<0.0050	<0.0050	<0.0050	8815608	<0.0050	<0.0050	0.0050	8815608
Dissolved Lithium (Li)	ug/L	1.31	1.27	2.18	8815608	1.39	0.76	0.50	8815608
Dissolved Manganese (Mn)	ug/L	4.38	4.39	5.39	8815608	13.6	7.72	0.050	8815608
Dissolved Molybdenum (Mo)	ug/L	1.66	1.67	0.306	8815608	0.767	0.723	0.050	8815608
Dissolved Nickel (Ni)	ug/L	0.427	0.442	0.427	8815608	0.757	0.687	0.020	8815608
Dissolved Phosphorus (P)	ug/L	3.4	3.4	3.5	8815608	3.5	2.7	2.0	8815608
Dissolved Selenium (Se)	ug/L	0.067	0.072	0.116	8815608	0.087	0.076	0.040	8815608
Dissolved Silicon (Si)	ug/L	5810	5820	5240	8815608	5130	4690	50	8815608
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	8815608	<0.0050	<0.0050	0.0050	8815608
Dissolved Strontium (Sr)	ug/L	357	357	616	8815608	173	171	0.050	8815608
Dissolved Thallium (Tl)	ug/L	<0.0020	<0.0020	0.0029	8815608	0.0041	0.0021	0.0020	8815608
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	<0.20	8815608	<0.20	<0.20	0.20	8815608
Dissolved Titanium (Ti)	ug/L	<0.50	<0.50	<0.50	8815608	<0.50	<0.50	0.50	8815608
Dissolved Uranium (U)	ug/L	43.9	44.1	17.4	8815608	10.6	5.63	0.0020	8815608

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Maxxam Job #: B796803
Report Date: 2017/11/08

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: CB

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SJ2398	SJ2398	SJ2399		SJ2400	SJ2401		
Sampling Date		2017/10/28 11:15	2017/10/28 11:15	2017/10/28 11:48		2017/10/28 12:13	2017/10/28 12:30		
COC Number		537489-01-01	537489-01-01	537489-01-01		537489-01-01	537489-01-01		
	UNITS	HC-2.5	HC-2.5 Lab-Dup	CC-1.5	QC Batch	Latte Mix	CC-4.5	RDL	QC Batch
Dissolved Vanadium (V)	ug/L	0.27	0.28	0.22	8815608	0.26	0.26	0.20	8815608
Dissolved Zinc (Zn)	ug/L	0.25	0.25	0.25	8815608	0.41	0.36	0.10	8822325
Dissolved Zirconium (Zr)	ug/L	0.30	0.31	0.28	8815608	0.28	0.28	0.10	8815608
Dissolved Calcium (Ca)	mg/L	34.7		81.9	8813625	34.7	33.2	0.050	8813625
Dissolved Magnesium (Mg)	mg/L	12.7		25.1	8813625	12.2	11.6	0.050	8813625
Dissolved Potassium (K)	mg/L	2.28		4.64	8813625	1.57	1.62	0.050	8813625
Dissolved Sodium (Na)	mg/L	3.41		5.70	8813625	5.20	4.86	0.050	8813625
Dissolved Sulphur (S)	mg/L	16.6		49.2	8813625	23.7	21.7	3.0	8813625

RDL = Reportable Detection Limit

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Maxxam Job #: B796803
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LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: CB

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		SJ2398	SJ2398	SJ2399	SJ2400	SJ2401		
Sampling Date		2017/10/28 11:15	2017/10/28 11:15	2017/10/28 11:48	2017/10/28 12:13	2017/10/28 12:30		
COC Number		537489-01-01	537489-01-01	537489-01-01	537489-01-01	537489-01-01		
	UNITS	HC-2.5	HC-2.5 Lab-Dup	CC-1.5	Latte Mix	CC-4.5	RDL	QC Batch
Calculated Parameters								
Total Hardness (CaCO3)	mg/L	140		302	134	129	0.50	8814308
Elements								
Total Mercury (Hg)	ug/L	0.0023	0.0025	0.0022	0.0048	<0.0020	0.0020	8821020
Total Metals by ICPMS								
Total Aluminum (Al)	ug/L	31.8	31.9	19.3	29.3	26.1	0.50	8817237
Total Antimony (Sb)	ug/L	0.552	0.559	0.107	0.091	0.091	0.020	8817237
Total Arsenic (As)	ug/L	0.882	0.890	0.698	0.331	0.298	0.020	8817237
Total Barium (Ba)	ug/L	44.9	44.7	68.6	56.1	65.3	0.020	8817237
Total Beryllium (Be)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	8817237
Total Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8817237
Total Boron (B)	ug/L	<10	<10	<10	<10	<10	10	8817237
Total Cadmium (Cd)	ug/L	<0.0050	<0.0050	0.0070	0.0070	0.0084	0.0050	8817237
Total Chromium (Cr)	ug/L	0.21	0.21	0.15	0.18	0.17	0.10	8817237
Total Cobalt (Co)	ug/L	0.0338	0.0313	0.0237	0.0440	0.0330	0.0050	8817237
Total Copper (Cu)	ug/L	1.08	1.11	0.992	1.35	1.30	0.050	8817237
Total Iron (Fe)	ug/L	19.6	19.3	8.9	29.0	18.2	1.0	8817237
Total Lead (Pb)	ug/L	0.0058	0.0062	<0.0050	<0.0050	<0.0050	0.0050	8817237
Total Lithium (Li)	ug/L	1.36	1.39	2.41	1.54	0.83	0.50	8817237
Total Manganese (Mn)	ug/L	4.93	5.00	5.27	13.7	7.64	0.050	8817237
Total Molybdenum (Mo)	ug/L	1.62	1.64	0.298	0.752	0.701	0.050	8817237
Total Nickel (Ni)	ug/L	0.439	0.422	0.450	0.750	0.704	0.020	8817237
Total Phosphorus (P)	ug/L	3.7	3.6	3.8	3.1	2.9	2.0	8817237
Total Selenium (Se)	ug/L	0.111	0.102	0.172	0.137	0.107	0.040	8817237
Total Silicon (Si)	ug/L	5970	5740	5700	5380	5150	50	8817237
Total Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8817237
Total Strontium (Sr)	ug/L	346	355	579	162	159	0.050	8817237
Total Thallium (Tl)	ug/L	0.0020	<0.0020	0.0033	0.0026	<0.0020	0.0020	8817237
Total Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	8817237
Total Titanium (Ti)	ug/L	0.54	<0.50	<0.50	<0.50	<0.50	0.50	8817237
Total Uranium (U)	ug/L	43.3	43.3	17.3	10.5	5.44	0.0020	8817237
RDL = Reportable Detection Limit								
Lab-Dup = Laboratory Initiated Duplicate								

Maxxam Job #: B796803
Report Date: 2017/11/08

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: CB

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		SJ2398	SJ2398	SJ2399	SJ2400	SJ2401		
Sampling Date		2017/10/28 11:15	2017/10/28 11:15	2017/10/28 11:48	2017/10/28 12:13	2017/10/28 12:30		
COC Number		537489-01-01	537489-01-01	537489-01-01	537489-01-01	537489-01-01		
	UNITS	HC-2.5	HC-2.5 Lab-Dup	CC-1.5	Latte Mix	CC-4.5	RDL	QC Batch
Total Vanadium (V)	ug/L	0.29	0.27	0.23	0.27	0.25	0.20	8817237
Total Zinc (Zn)	ug/L	0.18	0.16	0.23	0.34	0.31	0.10	8817237
Total Zirconium (Zr)	ug/L	0.31	0.32	0.30	0.27	0.28	0.10	8817237
Total Calcium (Ca)	mg/L	34.3		78.5	33.1	32.1	0.050	8813845
Total Magnesium (Mg)	mg/L	13.2		25.7	12.5	11.8	0.050	8813845
Total Potassium (K)	mg/L	2.29		4.25	1.46	1.47	0.050	8813845
Total Sodium (Na)	mg/L	3.55		5.71	5.42	5.06	0.050	8813845
Total Sulphur (S)	mg/L	16.4		55.8	26.0	24.4	3.0	8813845
RDL = Reportable Detection Limit								
Lab-Dup = Laboratory Initiated Duplicate								

Maxxam Job #: B796803
Report Date: 2017/11/08

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: CB

GENERAL COMMENTS

Sample SJ2400, Elements by ICPMS Low Level (dissolved): Test repeated.
Sample SJ2401, Elements by ICPMS Low Level (dissolved): Test repeated.

Results relate only to the items tested.

Maxxam Job #: B796803
Report Date: 2017/11/08

QUALITY ASSURANCE REPORT

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: CB

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8814932	Total Ammonia (N)	2017/11/01	87	80 - 120	108	80 - 120	<0.0050	mg/L	NC	20
8815315	Nitrate plus Nitrite (N)	2017/10/31	NC	80 - 120	106	80 - 120	<0.0020	mg/L	0.62	25
8815316	Total Dissolved Solids	2017/11/02	100	80 - 120	109	80 - 120	<10	mg/L	5.0	20
8815318	Nitrite (N)	2017/10/31	99	80 - 120	96	80 - 120	<0.0020	mg/L	NC	25
8815330	Total Dissolved Solids	2017/11/02	101	80 - 120	93	80 - 120	<10	mg/L	4.4	20
8815429	Fluoride (F)	2017/11/01	NC	80 - 120	104	80 - 120	0.015, RDL=0.010	mg/L	0	20
8815567	Total Suspended Solids	2017/11/02	105	80 - 120	100	80 - 120	<4.0	mg/L	NC	20
8815608	Dissolved Aluminum (Al)	2017/11/03	102	80 - 120	109	80 - 120	<0.50	ug/L	0.65	20
8815608	Dissolved Antimony (Sb)	2017/11/03	101	80 - 120	105	80 - 120	<0.020	ug/L	3.5	20
8815608	Dissolved Arsenic (As)	2017/11/03	98	80 - 120	101	80 - 120	<0.020	ug/L	1.2	20
8815608	Dissolved Barium (Ba)	2017/11/03	NC	80 - 120	107	80 - 120	<0.020	ug/L	0.95	20
8815608	Dissolved Beryllium (Be)	2017/11/03	91	80 - 120	97	80 - 120	<0.010	ug/L	NC	20
8815608	Dissolved Bismuth (Bi)	2017/11/03	96	80 - 120	104	80 - 120	<0.0050	ug/L	NC	20
8815608	Dissolved Boron (B)	2017/11/03	89	80 - 120	97	80 - 120	<10	ug/L	NC	20
8815608	Dissolved Cadmium (Cd)	2017/11/03	98	80 - 120	101	80 - 120	<0.0050	ug/L	NC	20
8815608	Dissolved Chromium (Cr)	2017/11/03	94	80 - 120	99	80 - 120	<0.10	ug/L	2.7	20
8815608	Dissolved Cobalt (Co)	2017/11/03	93	80 - 120	101	80 - 120	<0.0050	ug/L	4.5	20
8815608	Dissolved Copper (Cu)	2017/11/03	94	80 - 120	102	80 - 120	<0.050	ug/L	1.2	20
8815608	Dissolved Iron (Fe)	2017/11/03	101	80 - 120	111	80 - 120	<1.0	ug/L	0.56	20
8815608	Dissolved Lead (Pb)	2017/11/03	95	80 - 120	102	80 - 120	<0.0050	ug/L	NC	20
8815608	Dissolved Lithium (Li)	2017/11/03	88	80 - 120	101	80 - 120	<0.50	ug/L	2.9	20
8815608	Dissolved Manganese (Mn)	2017/11/03	88	80 - 120	96	80 - 120	<0.050	ug/L	0.10	20
8815608	Dissolved Molybdenum (Mo)	2017/11/03	NC	80 - 120	102	80 - 120	<0.050	ug/L	0.53	20
8815608	Dissolved Nickel (Ni)	2017/11/03	95	80 - 120	105	80 - 120	<0.020	ug/L	3.3	20
8815608	Dissolved Phosphorus (P)	2017/11/03					<2.0	ug/L	1.7	20
8815608	Dissolved Selenium (Se)	2017/11/03	101	80 - 120	106	80 - 120	<0.040	ug/L	8.2	20
8815608	Dissolved Silicon (Si)	2017/11/03					<50	ug/L	0.22	20
8815608	Dissolved Silver (Ag)	2017/11/03	105	80 - 120	112	80 - 120	<0.0050	ug/L	NC	20
8815608	Dissolved Strontium (Sr)	2017/11/03	NC	80 - 120	99	80 - 120	<0.050	ug/L	0.16	20
8815608	Dissolved Thallium (Tl)	2017/11/03	97	80 - 120	104	80 - 120	<0.0020	ug/L	NC	20

Maxxam Job #: B796803
Report Date: 2017/11/08

QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: CB

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8815608	Dissolved Tin (Sn)	2017/11/03	94	80 - 120	102	80 - 120	<0.20	ug/L	NC	20
8815608	Dissolved Titanium (Ti)	2017/11/03	99	80 - 120	101	80 - 120	<0.50	ug/L	NC	20
8815608	Dissolved Uranium (U)	2017/11/03	NC	80 - 120	100	80 - 120	<0.0020	ug/L	0.45	20
8815608	Dissolved Vanadium (V)	2017/11/03	98	80 - 120	103	80 - 120	<0.20	ug/L	5.1	20
8815608	Dissolved Zinc (Zn)	2017/11/03	100	80 - 120	101	80 - 120	<0.10	ug/L	3.9	20
8815608	Dissolved Zirconium (Zr)	2017/11/03	91	80 - 120	98	80 - 120	<0.10	ug/L	1.9	20
8815893	Dissolved Organic Carbon (C)	2017/11/01			105	80 - 120	<0.50	mg/L		
8815900	Total Organic Carbon (C)	2017/11/01	104	80 - 120	113	80 - 120	<0.50	mg/L	NC	20
8815907	pH	2017/11/01			101	97 - 103			0.94	20
8815929	Conductivity	2017/11/01			100	80 - 120	<1.0	uS/cm		
8815933	Alkalinity (PP as CaCO3)	2017/11/01					<0.50	mg/L		
8815933	Alkalinity (Total as CaCO3)	2017/11/01			101	80 - 120	<0.50	mg/L		
8815933	Bicarbonate (HCO3)	2017/11/01					<0.50	mg/L		
8815933	Carbonate (CO3)	2017/11/01					<0.50	mg/L		
8815933	Hydroxide (OH)	2017/11/01					<0.50	mg/L		
8816150	Dissolved Chloride (Cl)	2017/11/02			99	80 - 120	0.61, RDL=0.50	mg/L		
8816151	Dissolved Sulphate (SO4)	2017/11/02			98	80 - 120	<0.50	mg/L		
8817237	Total Aluminum (Al)	2017/11/04	104	80 - 120	112	80 - 120	<0.50	ug/L	0.40	20
8817237	Total Antimony (Sb)	2017/11/04	98	80 - 120	105	80 - 120	<0.020	ug/L	1.4	20
8817237	Total Arsenic (As)	2017/11/04	98	80 - 120	102	80 - 120	<0.020	ug/L	0.95	20
8817237	Total Barium (Ba)	2017/11/04	NC	80 - 120	104	80 - 120	<0.020	ug/L	0.45	20
8817237	Total Beryllium (Be)	2017/11/04	97	80 - 120	102	80 - 120	<0.010	ug/L	NC	20
8817237	Total Bismuth (Bi)	2017/11/04	95	80 - 120	102	80 - 120	<0.0050	ug/L	NC	20
8817237	Total Boron (B)	2017/11/04	97	80 - 120	102	80 - 120	<10	ug/L	NC	20
8817237	Total Cadmium (Cd)	2017/11/04	96	80 - 120	100	80 - 120	<0.0050	ug/L	NC	20
8817237	Total Chromium (Cr)	2017/11/04	95	80 - 120	105	80 - 120	<0.10	ug/L	0.094	20
8817237	Total Cobalt (Co)	2017/11/04	92	80 - 120	102	80 - 120	<0.0050	ug/L	7.7	20
8817237	Total Copper (Cu)	2017/11/04	89	80 - 120	102	80 - 120	<0.050	ug/L	2.2	20
8817237	Total Iron (Fe)	2017/11/04	98	80 - 120	110	80 - 120	<1.0	ug/L	1.4	20
8817237	Total Lead (Pb)	2017/11/04	95	80 - 120	103	80 - 120	<0.0050	ug/L	6.7	20
8817237	Total Lithium (Li)	2017/11/04	97	80 - 120	105	80 - 120	<0.50	ug/L	1.9	20

Maxxam Job #: B796803
Report Date: 2017/11/08

QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: CB

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8817237	Total Manganese (Mn)	2017/11/04	88	80 - 120	99	80 - 120	<0.050	ug/L	1.3	20
8817237	Total Molybdenum (Mo)	2017/11/04	NC	80 - 120	103	80 - 120	<0.050	ug/L	1.5	20
8817237	Total Nickel (Ni)	2017/11/04	92	80 - 120	104	80 - 120	<0.020	ug/L	3.9	20
8817237	Total Phosphorus (P)	2017/11/04					<2.0	ug/L	3.5	20
8817237	Total Selenium (Se)	2017/11/04	103	80 - 120	106	80 - 120	<0.040	ug/L	8.4	20
8817237	Total Silicon (Si)	2017/11/04					<50	ug/L	3.9	20
8817237	Total Silver (Ag)	2017/11/04	103	80 - 120	110	80 - 120	<0.0050	ug/L	NC	20
8817237	Total Strontium (Sr)	2017/11/04	NC	80 - 120	99	80 - 120	<0.050	ug/L	2.7	20
8817237	Total Thallium (Tl)	2017/11/04	96	80 - 120	102	80 - 120	<0.0020	ug/L	0	20
8817237	Total Tin (Sn)	2017/11/04	97	80 - 120	101	80 - 120	<0.20	ug/L	NC	20
8817237	Total Titanium (Ti)	2017/11/04	95	80 - 120	93	80 - 120	<0.50	ug/L	8.2	20
8817237	Total Uranium (U)	2017/11/04	NC	80 - 120	99	80 - 120	<0.0020	ug/L	0.091	20
8817237	Total Vanadium (V)	2017/11/04	96	80 - 120	104	80 - 120	<0.20	ug/L	5.8	20
8817237	Total Zinc (Zn)	2017/11/04	99	80 - 120	110	80 - 120	<0.10	ug/L	10	20
8817237	Total Zirconium (Zr)	2017/11/04	92	80 - 120	99	80 - 120	<0.10	ug/L	3.1	20
8820572	Dissolved Sulphate (SO4)	2017/11/03			103	80 - 120	<0.50	mg/L		
8820965	Dissolved Mercury (Hg)	2017/11/06	94	80 - 120	105	80 - 120	<0.0020	ug/L	NC	20
8821020	Total Mercury (Hg)	2017/11/06	106	80 - 120	92	80 - 120	<0.0020	ug/L	9.3	20
8822325	Dissolved Zinc (Zn)	2017/11/07			102	80 - 120	<0.10	ug/L		
8823150	Weak Acid Dissoc. Cyanide (CN)	2017/11/08	108	80 - 120	101	80 - 120	<0.0010	mg/L	NC	20

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

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

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

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

Maxxam Job #: B796803
Report Date: 2017/11/08

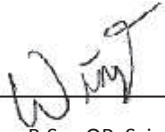
LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: CB

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Andy Lu, Ph.D., P.Chem., Scientific Specialist



Winnie Au, B.Sc., QP, Scientific Specialist

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



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INVOICE TO:		Report Information		Project Information	
Company Name	#3604 LORAX ENVIRONMENTAL SERVICES LTD.	Company Name		Quotation #	B40231
Contact Name	Aida Piaseczny	Contact Name	David Flather	P.O. #	
Address	2289 BURRARD STREET VANCOUVER BC V6J 3H9	Address		Project #	Gold Corp Coffee Creek
Phone	(604) 688-7173 x Fax: (604) 688-7175 x	Phone		Project Name	
Email	aida.piaseczny@lorax.ca; shuking.ng@lorax.ca	Email	David.Flather@lorax.ca	Site #	
				Sampled By	



Order #:
537489
Project Manager
Megan Smith

Regulatory Criteria	Special Instructions RUN ORP if enough H2O for all other parameters	Analysis Requested	Tumaround Time (TAT) Required
<p>Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form</p> <p>Samples must be kept cool (< 10°C) from time of sampling until delivery to maxxam</p>		<input type="checkbox"/> Regulated Drinking Water ? (Y/N) <input type="checkbox"/> Metals Field Filtered ? (Y/N) <input type="checkbox"/> Routine (Alk, EC, pH, TDS) <input type="checkbox"/> TSS - Legionella <input type="checkbox"/> Anions (Cl, F, NO2, NO3, NH4, SO4) <input type="checkbox"/> Cyanide - WAD <input type="checkbox"/> TOC <input type="checkbox"/> DOC <input type="checkbox"/> Low Level Dissolved Metals incl. CV Hg <input type="checkbox"/> Low Level Total Metals incl. CV Hg <input type="checkbox"/> ORP	<p>Please provide advance notice for rush projects</p> <p>Regular (Standard) TAT (will be applied if Rush TAT is not specified) Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.</p> <p>Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____ Rush Confirmation Number _____ (call lab for #)</p>

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	Routine (Alk, EC, pH, TDS)	TSS - Legionella	Anions (Cl, F, NO2, NO3, NH4, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	# of Bottles	Comments
1 SID#162743	HC-2.5	OCT 28		H2O	N	Y	X	X	X	X	X	X	X	X	X	11	dissolved metals vials
2 SID#162744	CC-1.5	OCT 28		↓	↓	↓	X	X	X	X	X	X	X	X	X	11	have been field
3 SID#162745	Latte Mix	OCT 28		↓	↓	↓	X	X	X	X	X	X	X	X	X	11	filtered but not
4 SID#162746	CC-4.5	OCT 28		↓	↓	↓	X	X	X	X	X	X	X	X	X	11	preserved.
5																	
6																	RECEIVED IN WHITEHORSE
7																	BY: <i>shuking</i> @ 1250
8																	2017-10-30
9																	TEMP: 2, 2, 2
10																	

* RELINQUISHED BY: (Signature/Print) <i>Crystal Secordy</i>	Date: (YY/MM/DD) OCT 30	Time 12:50	RECEIVED BY: (Signature/Print) <i>EVA SROGA</i>	Date: (YY/MM/DD) 2017/10/31	Time 13:47	# jars used and not submitted	Lab Use Only
							Time Sensitive <input type="checkbox"/> Temperature (°C) on Receipt: <i>8.9</i> Custody Seal Intact on Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>CSNA</i>

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

4.5.6
57.7
2017/10/31



CLIENT INFORMATION
 Client Name: **2000 INTERNATIONAL SERVICES LTD**
 Client Address: **17125V**
 Client Phone: **704-535-7775**
 Client Email: **info@2000intl.com**

PROJECT INFORMATION
 Project Name: **David Fisher**
 Project Address: **David Fisher**
 Project Phone: **David Fisher**
 Project Email: **David Fisher**

ANALYSIS INFORMATION
 Analysis Requested: **Regular Drinking Water (TYP)**
 Analysis Location: **David Fisher**

Special instructions:
 RUN ORP if enough
 H₂O for all other
 parameters

Lot	Sample Location/Identification	Date Sampled	Time Sampled	Notes	Regular Drinking Water (TYP)	Trace Lead Filtered (TFL)	Residual (AL, EC, pH, TDS)	Turbidity	Iron (I, F, NO ₂ , NO ₃ , NH ₄ , SO ₄)	Cyanide - WAD	TDC	DOC	Low Level Dissolved Metals (col, CU, Hg)	Low Level Total Metals (col, CU, Hg)	ORP	Lot Status	Comments
0000	HC-2.5	OCT 28	11:15	H ₂ O	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	11	dissolved met
0000	CC-1.5	OCT 28	11:48	↓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	11	have been
0000	Lot# Ma	OCT 28	12:13	↓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	11	filtered b
0000	CC-4.5	OCT 28	12:30	↓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	11	preserved.

2 2
 2 2

Signature/Phone **Date (YYMMDD)** **Time** **RECEIVED BY: (Signature/Phone)** **Date (YYMMDD)** **Time**

Received by: **Beaudry** Date: **OCT 30** Time: **12:50**

IED TO BE PRINTED WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXLAB'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE ON OUR WEBSITE. TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORDING AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL DELAYS.

Your Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

Attention:David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
2289 BURRARD STREET
VANCOUVER, BC
CANADA V6J 3H9

Your C.O.C. #: 540800-01-01, 540800-02-01, 540800-03-01, 540800-04-01

Report Date: 2017/11/27
Report #: R2483129
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B7A1648

Received: 2017/11/14, 11:15

Sample Matrix: Water
Samples Received: 25

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity - Low Level	9	2017/11/17	2017/11/18	BBY6SOP-00026	SM 22 2320 B m
Alkalinity - Low Level	9	2017/11/17	2017/11/19	BBY6SOP-00026	SM 22 2320 B m
Alkalinity - Low Level	1	2017/11/17	2017/11/20	BBY6SOP-00026	SM 22 2320 B m
Alkalinity - Low Level	6	2017/11/17	2018/11/18	BBY6SOP-00026	SM 22 2320 B m
Chloride - Low Level	25	N/A	2017/11/16	BBY6SOP-00011	SM 22 4500-Cl- E m
Cyanide WAD (weak acid dissociable)	17	N/A	2017/11/20	BBY6SOP-00004	SM 22 4500-CN O m
Cyanide WAD (weak acid dissociable)	8	N/A	2017/11/21	BBY6SOP-00004	SM 22 4500-CN O m
Carbon (DOC) - field filtered/preserved (1)	3	N/A	2017/11/20	BBY6SOP-00003	SM 22 5310 C m
Carbon (DOC) - field filtered/preserved (1)	20	N/A	2017/11/21	BBY6SOP-00003	SM 22 5310 C m
Carbon (DOC) - field filtered/preserved (1)	2	N/A	2017/11/27	BBY6SOP-00003	SM 22 5310 C m
Conductance - Low Level	8	2017/11/17	2017/11/18	BBY6SOP-00026	SM 22 2510 B m
Conductance - Low Level	9	2017/11/17	2017/11/19	BBY6SOP-00026	SM 22 2510 B m
Conductance - Low Level	6	2017/11/17	2018/11/18	BBY6SOP-00026	SM 22 2510 B m
Conductance - Low Level	2	2017/11/18	2017/11/18	BBY6SOP-00026	SM 22 2510 B m
Fluoride - Low Level	25	N/A	2017/11/17	BBY6SOP-00048	SM 22 4500-F C m
Hardness Total (calculated as CaCO3) (2)	20	N/A	2017/11/20	BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO3) (2)	3	N/A	2017/11/21	BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO3) (2)	2	N/A	2017/11/22	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3)	25	N/A	2017/11/20	BBY WI-00033	Auto Calc
Mercury (Dissolved-LowLevel) by CVAf	20	N/A	2017/11/17	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Dissolved-LowLevel) by CVAf	5	N/A	2017/11/20	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Total-LowLevel) by CVAf	20	2017/11/17	2017/11/17	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Total-LowLevel) by CVAf	5	2017/11/20	2017/11/20	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	25	N/A	2017/11/20	BBY7SOP-00002	EPA 6020B R2 m
Elements by ICPMS Low Level (dissolved)	5	N/A	2017/11/17	BBY7SOP-00002	EPA 6020B R2 m
Elements by ICPMS Low Level (dissolved)	20	N/A	2017/11/18	BBY7SOP-00002	EPA 6020B R2 m
Elements by ICPMS Digested LL (total)	2	2017/11/17	2017/11/20	BBY7SOP-00003,	BCLM2005,EPA6020bR2m

Your Project #: Gold Corp Coffee Creek-SW
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CANADA V6J 3H9

Your C.O.C. #: 540800-01-01, 540800-02-01, 540800-03-01, 540800-04-01

Report Date: 2017/11/27
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Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B7A1648

Received: 2017/11/14, 11:15

Sample Matrix: Water
Samples Received: 25

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Elements by ICPMS Digested LL (total)	1	2017/11/20	2017/11/21	BBY7SOP-00003,	BCLM2005,EPA6020bR2m
Elements by ICPMS Digested LL (total)	2	2017/11/21	2017/11/22	BBY7SOP-00003,	BCLM2005,EPA6020bR2m
Na, K, Ca, Mg, S by CRC ICPMS (total)	20	N/A	2017/11/20	BBY7SOP-00003,	BCLM2005,EPA6020bR2m
Na, K, Ca, Mg, S by CRC ICPMS (total)	3	N/A	2017/11/21	BBY7SOP-00003,	BCLM2005,EPA6020bR2m
Na, K, Ca, Mg, S by CRC ICPMS (total)	2	N/A	2017/11/22	BBY7SOP-00003,	BCLM2005,EPA6020bR2m
Elements by ICPMS Low Level (total)	20	N/A	2017/11/17	BBY7SOP-00003,	BCLM2005,EPA6020bR2m
Ammonia-N Low Level (Preserved)	25	N/A	2017/11/16	BBY6SOP-00009	EPA 350.1 m
Nitrate+Nitrite (N) (low level)	25	N/A	2017/11/16	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrite (N) (low level)	25	N/A	2017/11/16	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrogen - Nitrate (as N) Low Level Calc	25	N/A	2017/11/17	BBY6SOP-00010	SM 22 4500-NO3- I m
ORP Analysis on Water by ARD LAB	1	N/A	2017/11/16	BBY0SOP-00004	SM 22 2580 B
ORP Analysis on Water by ARD LAB	24	N/A	2017/11/17	BBY0SOP-00004	SM 22 2580 B
Filter and HNO3 Preserve for Metals	24	N/A	2017/11/16	BBY7 WI-00004	BCMOE Reqs 08/14
pH Water (3)	7	2017/11/17	2017/11/18	BBY6SOP-00026	SM 22 4500-H+ B m
pH Water (3)	9	2017/11/17	2017/11/19	BBY6SOP-00026	SM 22 4500-H+ B m
pH Water (3)	7	2017/11/17	2018/11/18	BBY6SOP-00026	SM 22 4500-H+ B m
pH Water (3)	2	2017/11/18	2017/11/18	BBY6SOP-00026	SM 22 4500-H+ B m
Sulphate - Low Level	22	N/A	2017/11/16	BBY6SOP-00017	SM 22 4500-SO42- E m
Sulphate - Low Level	3	N/A	2017/11/17	BBY6SOP-00017	SM 22 4500-SO42- E m
Total Dissolved Solids (Filt. Residue)	22	2017/11/16	2017/11/17	BBY6SOP-00033	SM 22 2540 C m
Total Dissolved Solids (Filt. Residue)	3	2017/11/17	2017/11/20	BBY6SOP-00033	SM 22 2540 C m
Carbon (Total Organic) (4)	23	N/A	2017/11/20	BBY6SOP-00003	SM 22 5310 C m
Carbon (Total Organic) (4)	2	N/A	2017/11/27	BBY6SOP-00003	SM 22 5310 C m
Total Suspended Solids-Low Level	25	2017/11/16	2017/11/17	BBY6SOP-00034	SM 22 2540 D

Remarks:

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted,

Your Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

Attention:David Flather

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Your C.O.C. #: 540800-01-01, 540800-02-01, 540800-03-01, 540800-04-01

Report Date: 2017/11/27
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Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B7A1648

Received: 2017/11/14, 11:15

procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Maxxam's profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Maxxam in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported: unless indicated otherwise, associated sample data are not blank corrected.

Maxxam Analytics' liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Maxxam has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Maxxam, unless otherwise agreed in writing.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

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

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

- (1) DOC present in the sample should be considered as non-purgeable DOC.
- (2) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).
- (3) The BC-MOE and APHA Standard Method require pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the BC-MOE/APHA Standard Method holding time.
- (4) TOC present in the sample should be considered as non-purgeable TOC.

Encryption Key



Maxxam
27 Nov 2017 18:59:54

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Megan Smith, Project Manager

Email: msmith@maxxam.ca

Phone# (604) 734 7276

=====
This report has been generated and distributed using a secure automated process.

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total Cover Pages : 3

Page 3 of 60

Maxxam Job #: B7A1648
Report Date: 2017/11/27

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SM3058			SM3058		SM3059		
Sampling Date		2017/11/11 10:35			2017/11/11 10:35		2017/11/11 14:50		
COC Number		540800-01-01			540800-01-01		540800-01-01		
	UNITS	CC-0.5	RDL	QC Batch	CC-0.5 Lab-Dup	QC Batch	CC-1.0	RDL	QC Batch
Parameter									
ORP	mV	279		8831744	281	8831744	285		8831744
Calculated Parameters									
Filter and HNO3 Preservation	N/A	LAB		8831807			LAB		8831807
Nitrate (N)	mg/L	0.443	0.0020	8830953			0.615	0.0020	8830953
Misc. Inorganics									
Weak Acid Dissoc. Cyanide (CN)	mg/L	0.00054	0.00050	8835955			<0.00050	0.00050	8835955
Fluoride (F)	mg/L	0.088	0.010	8833372			0.090	0.010	8833372
Dissolved Organic Carbon (C)	mg/L	7.28	0.50	8837065			4.13	0.50	8844067
Alkalinity (Total as CaCO3)	mg/L	76.2	0.50	8834245			279	0.50	8834245
Total Organic Carbon (C)	mg/L	6.97	0.50	8836181			3.57	0.50	8844066
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	8834245			8.67	0.50	8834245
Bicarbonate (HCO3)	mg/L	93.0	0.50	8834245			319	0.50	8834245
Carbonate (CO3)	mg/L	<0.50	0.50	8834245			10.4	0.50	8834245
Hydroxide (OH)	mg/L	<0.50	0.50	8834245			<0.50	0.50	8834245
Anions									
Dissolved Sulphate (SO4)	mg/L	80.1	0.50	8832726			220 (1)	5.0	8832726
Dissolved Chloride (Cl)	mg/L	0.99	0.50	8832725			0.63	0.50	8832725
Nutrients									
Total Ammonia (N)	mg/L	<0.0050	0.0050	8831318			<0.0050	0.0050	8831318
Nitrate plus Nitrite (N)	mg/L	0.443	0.0020	8833279			0.615	0.0020	8833279
Nitrite (N)	mg/L	<0.0020	0.0020	8833283			<0.0020	0.0020	8833283
Physical Properties									
Conductivity	uS/cm	319	1.0	8834243			874	1.0	8834243
pH	pH	8.03		8834241			8.47		8834241
Physical Properties									
Total Suspended Solids	mg/L	<1.0	1.0	8831903			<1.0	1.0	8831903
Total Dissolved Solids	mg/L	196	10	8832181			588	10	8832181
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate (1) Detection limits raised due to dilution to bring analyte within the calibrated range.									

Maxxam Job #: B7A1648
Report Date: 2017/11/27

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SM3060		SM3061		SM3062		
Sampling Date		2017/11/11 15:20		2017/11/11 11:00		2017/11/11 10:10		
COC Number		540800-01-01		540800-01-01		540800-01-01		
	UNITS	CC-1.5	QC Batch	CC-3.5	QC Batch	CC-4.5	RDL	QC Batch
Parameter								
ORP	mV	284	8831744	284	8831744	285		8831744
Calculated Parameters								
Filter and HNO3 Preservation	N/A	LAB	8831807	LAB	8831807	LAB		8831807
Nitrate (N)	mg/L	0.308	8830953	0.460	8830953	0.419	0.0020	8830953
Misc. Inorganics								
Weak Acid Dissoc. Cyanide (CN)	mg/L	0.00057	8835955	0.00065	8835955	0.00059	0.00050	8835955
Fluoride (F)	mg/L	0.083	8833372	0.060	8833372	0.062	0.010	8833372
Dissolved Organic Carbon (C)	mg/L	6.03	8837065	6.50	8837064	8.16	0.50	8837064
Alkalinity (Total as CaCO3)	mg/L	162	8834245	107	8834245	62.5	0.50	8834240
Total Organic Carbon (C)	mg/L	5.51	8836181	5.98	8836182	7.02	0.50	8836182
Alkalinity (PP as CaCO3)	mg/L	<0.50	8834245	<0.50	8834245	<0.50	0.50	8834240
Bicarbonate (HCO3)	mg/L	197	8834245	131	8834245	76.2	0.50	8834240
Carbonate (CO3)	mg/L	<0.50	8834245	<0.50	8834245	<0.50	0.50	8834240
Hydroxide (OH)	mg/L	<0.50	8834245	<0.50	8834245	<0.50	0.50	8834240
Anions								
Dissolved Sulphate (SO4)	mg/L	179	8836643	102	8836643	70.7	0.50	8832718
Dissolved Chloride (Cl)	mg/L	<0.50	8832725	0.67	8832715	0.97	0.50	8832715
Nutrients								
Total Ammonia (N)	mg/L	0.0080	8831318	<0.0050	8831318	<0.0050	0.0050	8831318
Nitrate plus Nitrite (N)	mg/L	0.308	8833279	0.460	8833274	0.419	0.0020	8833274
Nitrite (N)	mg/L	<0.0020	8833283	<0.0020	8833284	<0.0020	0.0020	8833284
Physical Properties								
Conductivity	uS/cm	621	8834243	401	8834243	274	1.0	8834239
pH	pH	8.30	8834241	8.17	8834241	7.94		8834238
Physical Properties								
Total Suspended Solids	mg/L	<1.0	8831903	1.0	8831903	1.0	1.0	8831903
Total Dissolved Solids	mg/L	418	8832181	256	8833350	162	10	8832181
RDL = Reportable Detection Limit								

Maxxam Job #: B7A1648
Report Date: 2017/11/27

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SM3063		SM3064			SM3064		
Sampling Date		2017/11/11 12:45		2017/11/11 14:25			2017/11/11 14:25		
COC Number		540800-01-01		540800-01-01			540800-01-01		
	UNITS	CC-A	QC Batch	CC-B	RDL	QC Batch	CC-B Lab-Dup	RDL	QC Batch
Parameter									
ORP	mV	288	8831744	290		8831744			
Calculated Parameters									
Filter and HNO3 Preservation	N/A	LAB	8831807	LAB		8831807			
Nitrate (N)	mg/L	0.314	8830953	0.356	0.0020	8830953			
Misc. Inorganics									
Weak Acid Dissoc. Cyanide (CN)	mg/L	0.00067	8835955	0.00051	0.00050	8835955			
Fluoride (F)	mg/L	0.059	8833372	0.074	0.010	8833372			
Dissolved Organic Carbon (C)	mg/L	7.05	8844067	6.22	0.50	8837062	6.23	0.50	8837062
Alkalinity (Total as CaCO3)	mg/L	90.2	8834240	176	0.50	8834240			
Total Organic Carbon (C)	mg/L	6.41	8844066	5.23	0.50	8836181			
Alkalinity (PP as CaCO3)	mg/L	<0.50	8834240	0.85	0.50	8834240			
Bicarbonate (HCO3)	mg/L	110	8834240	213	0.50	8834240			
Carbonate (CO3)	mg/L	<0.50	8834240	1.02	0.50	8834240			
Hydroxide (OH)	mg/L	<0.50	8834240	<0.50	0.50	8834240			
Anions									
Dissolved Sulphate (SO4)	mg/L	135	8832718	169	0.50	8832710			
Dissolved Chloride (Cl)	mg/L	<0.50	8832715	<0.50	0.50	8832709			
Nutrients									
Total Ammonia (N)	mg/L	<0.0050	8831318	<0.0050	0.0050	8831318			
Nitrate plus Nitrite (N)	mg/L	0.314	8833274	0.356	0.0020	8833274			
Nitrite (N)	mg/L	<0.0020	8833284	<0.0020	0.0020	8833284			
Physical Properties									
Conductivity	uS/cm	444	8834239	636	1.0	8834239			
pH	pH	8.06	8834238	8.30		8834238			
Physical Properties									
Total Suspended Solids	mg/L	1.4	8831903	1.1	1.0	8831903			
Total Dissolved Solids	mg/L	270	8832181	418	10	8832181			
RDL = Reportable Detection Limit									
Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B7A1648
Report Date: 2017/11/27

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SM3065			SM3066		SM3068		
Sampling Date		2017/11/11 16:00			2017/11/11 10:00		2017/11/12 11:50		
COC Number		540800-01-01			540800-01-01		540800-02-01		
	UNITS	CC-C	RDL	QC Batch	CC-X	QC Batch	HC-2.5	RDL	QC Batch
Parameter									
ORP	mV	292		8831744	289	8831744	293		8831744
Calculated Parameters									
Filter and HNO3 Preservation	N/A	LAB		8831807	LAB	8831807	LAB		8831807
Nitrate (N)	mg/L	0.616	0.0020	8830953	0.448	8830953	0.564	0.0020	8830953
Misc. Inorganics									
Weak Acid Dissoc. Cyanide (CN)	mg/L	0.00063	0.00050	8835955	0.00056	8835955	0.00053	0.00050	8835955
Fluoride (F)	mg/L	0.086	0.010	8833372	0.061	8833372	0.061	0.010	8833372
Dissolved Organic Carbon (C)	mg/L	4.32	0.50	8837062	7.15	8837059	6.50	0.50	8837062
Alkalinity (Total as CaCO3)	mg/L	287	0.50	8834240	57.1	8834245	110	0.50	8834245
Total Organic Carbon (C)	mg/L	4.62	0.50	8836181	7.38	8836181	6.10	0.50	8836181
Alkalinity (PP as CaCO3)	mg/L	8.27	0.50	8834240	<0.50	8834245	<0.50	0.50	8834245
Bicarbonate (HCO3)	mg/L	330	0.50	8834240	69.6	8834245	134	0.50	8834245
Carbonate (CO3)	mg/L	9.92	0.50	8834240	<0.50	8834245	<0.50	0.50	8834245
Hydroxide (OH)	mg/L	<0.50	0.50	8834240	<0.50	8834245	<0.50	0.50	8834245
Anions									
Dissolved Sulphate (SO4)	mg/L	201 (1)	5.0	8832718	73.4	8836643	53.5	0.50	8832726
Dissolved Chloride (Cl)	mg/L	0.61	0.50	8832715	0.85	8832725	<0.50	0.50	8832725
Nutrients									
Total Ammonia (N)	mg/L	0.0060	0.0050	8831795	<0.0050	8831795	<0.0050	0.0050	8831795
Nitrate plus Nitrite (N)	mg/L	0.616	0.0020	8833274	0.448	8833279	0.564	0.0020	8833279
Nitrite (N)	mg/L	<0.0020	0.0020	8833284	<0.0020	8833283	<0.0020	0.0020	8833283
Physical Properties									
Conductivity	uS/cm	864	1.0	8834239	268	8834243	320	1.0	8834243
pH	pH	8.46		8834238	7.94	8834241	8.17		8834241
Physical Properties									
Total Suspended Solids	mg/L	2.1	1.0	8831903	<1.0	8831903	1.2	1.0	8831903
Total Dissolved Solids	mg/L	590	10	8832181	166	8832181	182	10	8832215
RDL = Reportable Detection Limit									
(1) Detection limits raised due to dilution to bring analyte within the calibrated range.									

Maxxam Job #: B7A1648
Report Date: 2017/11/27

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SM3068		SM3069		SM3070		
Sampling Date		2017/11/12 11:50		2017/11/12 11:40		2017/11/12 11:00		
COC Number		540800-02-01		540800-02-01		540800-02-01		
	UNITS	HC-2.5 Lab-Dup	QC Batch	HC-C	QC Batch	IC-0.5	RDL	QC Batch
Parameter								
ORP	mV	294	8831744	295	8831744	311		8831744
Calculated Parameters								
Filter and HNO3 Preservation	N/A			LAB	8831807	LAB		8831807
Nitrate (N)	mg/L			0.504	8830953	0.690	0.0020	8830953
Misc. Inorganics								
Weak Acid Dissoc. Cyanide (CN)	mg/L			0.00060	8835955	0.00060	0.00050	8835955
Fluoride (F)	mg/L			0.059	8833372	0.075	0.010	8833372
Dissolved Organic Carbon (C)	mg/L			7.32	8837062	9.59	0.50	8836184
Alkalinity (Total as CaCO3)	mg/L			99.9	8834240	78.1	0.50	8834240
Total Organic Carbon (C)	mg/L			6.77	8836181	9.20	0.50	8836181
Alkalinity (PP as CaCO3)	mg/L			<0.50	8834240	<0.50	0.50	8834240
Bicarbonate (HCO3)	mg/L			122	8834240	95.3	0.50	8834240
Carbonate (CO3)	mg/L			<0.50	8834240	<0.50	0.50	8834240
Hydroxide (OH)	mg/L			<0.50	8834240	<0.50	0.50	8834240
Anions								
Dissolved Sulphate (SO4)	mg/L			63.3	8832718	173	0.50	8832710
Dissolved Chloride (Cl)	mg/L			0.53	8832715	0.56	0.50	8832709
Nutrients								
Total Ammonia (N)	mg/L			0.0070	8831795	<0.0050	0.0050	8831795
Nitrate plus Nitrite (N)	mg/L			0.504	8833274	0.690	0.0020	8833274
Nitrite (N)	mg/L			<0.0020	8833284	<0.0020	0.0020	8833284
Physical Properties								
Conductivity	uS/cm			321	8834239	509	1.0	8834239
pH	pH			8.11	8834238	7.95		8834238
Physical Properties								
Total Suspended Solids	mg/L			1.3	8831903	7.0	1.0	8831903
Total Dissolved Solids	mg/L			202	8832215	330	10	8832215
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate								

Maxxam Job #: B7A1648
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LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SM3071		SM3072			SM3073		
Sampling Date		2017/11/12 10:45		2017/11/12 10:00			2017/11/12 09:30		
COC Number		540800-02-01		540800-02-01			540800-03-01		
	UNITS	IC-1.5	QC Batch	IC-4.5	RDL	QC Batch	YUK-5.0	RDL	QC Batch
Parameter									
ORP	mV	309	8831744	310		8831744	311		8831744
Calculated Parameters									
Filter and HNO3 Preservation	N/A	LAB	8831807	LAB		8831807	LAB		8831807
Nitrate (N)	mg/L	0.488	8830953	0.495	0.0020	8830953	0.0389	0.0020	8830953
Misc. Inorganics									
Weak Acid Dissoc. Cyanide (CN)	mg/L	0.00069	8835955	0.00085	0.00050	8835955	<0.00050	0.00050	8835955
Fluoride (F)	mg/L	0.100	8833372	0.062	0.010	8833372	0.120	0.010	8833372
Dissolved Organic Carbon (C)	mg/L	7.37	8837062	9.17	0.50	8837059	3.18	0.50	8837062
Alkalinity (Total as CaCO3)	mg/L	75.5	8834240	50.8	0.50	8834240	83.3	0.50	8834240
Total Organic Carbon (C)	mg/L	7.18	8836181	8.56	0.50	8836181	2.72	0.50	8836181
Alkalinity (PP as CaCO3)	mg/L	<0.50	8834240	<0.50	0.50	8834240	<0.50	0.50	8834240
Bicarbonate (HCO3)	mg/L	92.1	8834240	62.0	0.50	8834240	102	0.50	8834240
Carbonate (CO3)	mg/L	<0.50	8834240	<0.50	0.50	8834240	<0.50	0.50	8834240
Hydroxide (OH)	mg/L	<0.50	8834240	<0.50	0.50	8834240	<0.50	0.50	8834240
Anions									
Dissolved Sulphate (SO4)	mg/L	28.2	8832710	47.3	0.50	8832710	18.8	0.50	8832710
Dissolved Chloride (Cl)	mg/L	0.52	8832709	0.64	0.50	8832709	0.56	0.50	8832709
Nutrients									
Total Ammonia (N)	mg/L	<0.0050	8831795	<0.0050	0.0050	8831795	<0.0050	0.0050	8831795
Nitrate plus Nitrite (N)	mg/L	0.488	8833274	0.495	0.0020	8833274	0.0389	0.0020	8833274
Nitrite (N)	mg/L	<0.0020	8833284	<0.0020	0.0020	8833284	<0.0020	0.0020	8833284
Physical Properties									
Conductivity	uS/cm	204	8834239	210	1.0	8834239	194	1.0	8834239
pH	pH	7.99	8834238	7.81		8834238	8.04		8834238
Physical Properties									
Total Suspended Solids	mg/L	1.2	8831903	<1.0	1.0	8831903	1.8 (1)	1.1	8831903
Total Dissolved Solids	mg/L	130	8832215	122	10	8832215	102	10	8832215
RDL = Reportable Detection Limit									
(1) RDL raised due to limited initial sample amount.									

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LORAX ENVIRONMENTAL SERVICES LTD.
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RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SM3073			SM3074		SM3075		
Sampling Date		2017/11/12 09:30			2017/11/11 09:35		2017/11/11 12:55		
COC Number		540800-03-01			540800-03-01		540800-03-01		
	UNITS	YUK-5.0 Lab-Dup	RDL	QC Batch	Ballarat U/S Y.R.	QC Batch	Barker U/S S.R.	RDL	QC Batch
Parameter									
ORP	mV				314	8831744	314		8831744
Calculated Parameters									
Filter and HNO3 Preservation	N/A				LAB	8831807	LAB		8831807
Nitrate (N)	mg/L				0.216	8830953	0.300	0.0020	8830953
Misc. Inorganics									
Weak Acid Dissoc. Cyanide (CN)	mg/L				<0.00050	8835955	0.00069	0.00050	8835955
Fluoride (F)	mg/L				0.170	8833372	0.100	0.010	8833984
Dissolved Organic Carbon (C)	mg/L				7.70	8837062	13.5	0.50	8837059
Alkalinity (Total as CaCO3)	mg/L				147	8834245	147	0.50	8834240
Total Organic Carbon (C)	mg/L				6.31	8836181	12.6	0.50	8836179
Alkalinity (PP as CaCO3)	mg/L				0.81	8834245	<0.50	0.50	8834240
Bicarbonate (HCO3)	mg/L				177	8834245	179	0.50	8834240
Carbonate (CO3)	mg/L				0.97	8834245	<0.50	0.50	8834240
Hydroxide (OH)	mg/L				<0.50	8834245	<0.50	0.50	8834240
Anions									
Dissolved Sulphate (SO4)	mg/L				171	8832726	94.0	0.50	8832718
Dissolved Chloride (Cl)	mg/L				1.0	8832725	2.9	0.50	8832715
Nutrients									
Total Ammonia (N)	mg/L				<0.0050	8831795	0.016	0.0050	8831795
Nitrate plus Nitrite (N)	mg/L	0.0408	0.0020	8833274	0.216	8833279	0.300	0.0020	8833274
Nitrite (N)	mg/L	<0.0020	0.0020	8833284	<0.0020	8833283	<0.0020	0.0020	8833284
Physical Properties									
Conductivity	uS/cm				612	8834243	471	1.0	8834239
pH	pH				8.30	8834241	8.24		8834238
Physical Properties									
Total Suspended Solids	mg/L				<1.0	8831903	10.1	1.0	8831903
Total Dissolved Solids	mg/L				402	8832215	306	10	8832215
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate									

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LORAX ENVIRONMENTAL SERVICES LTD.
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RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SM3076			SM3076		
Sampling Date		2017/11/11 11:50			2017/11/11 11:50		
COC Number		540800-03-01			540800-03-01		
	UNITS	Blackhills U/S S.R.	RDL	QC Batch	Blackhills U/S S.R. Lab-Dup	RDL	QC Batch
Parameter							
ORP	mV	314		8831744			
Calculated Parameters							
Filter and HNO3 Preservation	N/A	LAB		8831807			
Nitrate (N)	mg/L	0.172	0.0020	8830953			
Misc. Inorganics							
Weak Acid Dissoc. Cyanide (CN)	mg/L	0.00061	0.00050	8838880			
Fluoride (F)	mg/L	0.140	0.010	8833984	0.140	0.010	8833984
Dissolved Organic Carbon (C)	mg/L	10.3	0.50	8837062			
Alkalinity (Total as CaCO3)	mg/L	168	0.50	8834240			
Total Organic Carbon (C)	mg/L	9.94	0.50	8836181			
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	8834240			
Bicarbonate (HCO3)	mg/L	205	0.50	8834240			
Carbonate (CO3)	mg/L	<0.50	0.50	8834240			
Hydroxide (OH)	mg/L	<0.50	0.50	8834240			
Anions							
Dissolved Sulphate (SO4)	mg/L	99.1	0.50	8832710			
Dissolved Chloride (Cl)	mg/L	2.2	0.50	8832709			
Nutrients							
Total Ammonia (N)	mg/L	0.037	0.0050	8831795			
Nitrate plus Nitrite (N)	mg/L	0.172	0.0020	8833274			
Nitrite (N)	mg/L	<0.0020	0.0020	8833284			
Physical Properties							
Conductivity	uS/cm	495	1.0	8834239			
pH	pH	8.20		8834238			
Physical Properties							
Total Suspended Solids	mg/L	4.8	1.0	8831916			
Total Dissolved Solids	mg/L	320	10	8832215			
RDL = Reportable Detection Limit							
Lab-Dup = Laboratory Initiated Duplicate							

Maxxam Job #: B7A1648
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LORAX ENVIRONMENTAL SERVICES LTD.
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RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SM3077		SM3086			SM3086		
Sampling Date		2017/11/11 12:00		2017/11/11 12:35			2017/11/11 12:35		
COC Number		540800-03-01		540800-04-01			540800-04-01		
	UNITS	MaisyMay U/S S.R.	QC Batch	Stewart D/S M.M.	RDL	QC Batch	Stewart D/S M.M. Lab-Dup	RDL	QC Batch
Parameter									
ORP	mV	316	8831744	317		8831744			
Calculated Parameters									
Filter and HNO3 Preservation	N/A	LAB	8831807	LAB		8831807			
Nitrate (N)	mg/L	0.144	8830953	0.168	0.0020	8830953			
Misc. Inorganics									
Weak Acid Dissoc. Cyanide (CN)	mg/L	0.00122	8836944	0.00068	0.00050	8836944			
Fluoride (F)	mg/L	0.170	8833984	0.120	0.010	8833984			
Dissolved Organic Carbon (C)	mg/L	8.49	8836184	2.77	0.50	8836184	2.44	0.50	8836184
Alkalinity (Total as CaCO3)	mg/L	199	8834245	153	0.50	8834245			
Total Organic Carbon (C)	mg/L	8.22	8836182	2.64	0.50	8836181			
Alkalinity (PP as CaCO3)	mg/L	0.88	8834245	1.13	0.50	8834245			
Bicarbonate (HCO3)	mg/L	240	8834245	184	0.50	8834245			
Carbonate (CO3)	mg/L	1.06	8834245	1.36	0.50	8834245			
Hydroxide (OH)	mg/L	<0.50	8834245	<0.50	0.50	8834245			
Anions									
Dissolved Sulphate (SO4)	mg/L	170	8832718	127	0.50	8832726			
Dissolved Chloride (Cl)	mg/L	1.6	8832715	0.62	0.50	8832725			
Nutrients									
Total Ammonia (N)	mg/L	0.040	8831795	<0.0050	0.0050	8831795			
Nitrate plus Nitrite (N)	mg/L	0.152	8833274	0.168	0.0020	8833279			
Nitrite (N)	mg/L	0.0082	8833284	<0.0020	0.0020	8833283			
Physical Properties									
Conductivity	uS/cm	680	8834243	520	1.0	8834243			
pH	pH	8.30	8834241	8.32		8834241			
Physical Properties									
Total Suspended Solids	mg/L	10.7	8831916	143	1.0	8831916			
Total Dissolved Solids	mg/L	450	8832215	320	10	8832215			
RDL = Reportable Detection Limit									
Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B7A1648
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LORAX ENVIRONMENTAL SERVICES LTD.
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RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SM3087			SM3087		SM3088		
Sampling Date		2017/11/11 10:25			2017/11/11 10:25				
COC Number		540800-04-01			540800-04-01		540800-04-01		
	UNITS	Latte Mix	RDL	QC Batch	Latte Mix Lab-Dup	QC Batch	Sample A	RDL	QC Batch
Parameter									
ORP	mV	316		8831744	317	8831744	317		8831744
Calculated Parameters									
Filter and HNO3 Preservation	N/A	LAB		8831807			LAB		8831807
Nitrate (N)	mg/L	0.440	0.0020	8830953			0.483	0.0020	8830953
Misc. Inorganics									
Weak Acid Dissoc. Cyanide (CN)	mg/L	0.00082	0.00050	8836944			0.00105	0.00050	8836944
Fluoride (F)	mg/L	0.085	0.010	8833984			0.062	0.010	8833984
Dissolved Organic Carbon (C)	mg/L	7.54	0.50	8837059			9.45	0.50	8837059
Alkalinity (Total as CaCO3)	mg/L	80.8	0.50	8834240			49.8	0.50	8834240
Total Organic Carbon (C)	mg/L	6.50	0.50	8836182			8.14	0.50	8836181
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	8834240			<0.50	0.50	8834240
Bicarbonate (HCO3)	mg/L	98.6	0.50	8834240			60.8	0.50	8834240
Carbonate (CO3)	mg/L	<0.50	0.50	8834240			<0.50	0.50	8834240
Hydroxide (OH)	mg/L	<0.50	0.50	8834240			<0.50	0.50	8834240
Anions									
Dissolved Sulphate (SO4)	mg/L	81.5	0.50	8832718			48.1	0.50	8832710
Dissolved Chloride (Cl)	mg/L	0.90	0.50	8832715			0.61	0.50	8832709
Nutrients									
Total Ammonia (N)	mg/L	<0.0050	0.0050	8831795			<0.0050	0.0050	8831795
Nitrate plus Nitrite (N)	mg/L	0.440	0.0020	8833274			0.483	0.0020	8833274
Nitrite (N)	mg/L	<0.0020	0.0020	8833284			<0.0020	0.0020	8833284
Physical Properties									
Conductivity	uS/cm	334	1.0	8834239			208	1.0	8834239
pH	pH	8.05		8834238			7.81		8834238
Physical Properties									
Total Suspended Solids	mg/L	1.1	1.0	8831916			1.4	1.0	8831916
Total Dissolved Solids	mg/L	198	10	8832215			116	10	8832215
RDL = Reportable Detection Limit									
Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B7A1648
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LORAX ENVIRONMENTAL SERVICES LTD.
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RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SM3088			SM3089			SM3089	
Sampling Date									
COC Number		540800-04-01			540800-04-01			540800-04-01	
	UNITS	Sample A Lab-Dup	RDL	QC Batch	Sample C	RDL	QC Batch	Sample C Lab-Dup	QC Batch
Parameter									
ORP	mV				320		8831744	320	8831744
Calculated Parameters									
Filter and HNO3 Preservation	N/A				LAB		8831807		
Nitrate (N)	mg/L				0.141	0.0020	8830953		
Misc. Inorganics									
Weak Acid Dissoc. Cyanide (CN)	mg/L				0.00098	0.00050	8836944		
Fluoride (F)	mg/L				0.170	0.010	8833984		
Dissolved Organic Carbon (C)	mg/L	9.36	0.50	8837059	9.64	0.50	8837064		
Alkalinity (Total as CaCO3)	mg/L				199	0.50	8834240		
Total Organic Carbon (C)	mg/L				7.95	0.50	8836181		
Alkalinity (PP as CaCO3)	mg/L				2.89	0.50	8834240		
Bicarbonate (HCO3)	mg/L				236	0.50	8834240		
Carbonate (CO3)	mg/L				3.47	0.50	8834240		
Hydroxide (OH)	mg/L				<0.50	0.50	8834240		
Anions									
Dissolved Sulphate (SO4)	mg/L				172	0.50	8832710		
Dissolved Chloride (Cl)	mg/L				1.6	0.50	8832709		
Nutrients									
Total Ammonia (N)	mg/L				0.071	0.0050	8831795		
Nitrate plus Nitrite (N)	mg/L				0.150	0.0020	8833274		
Nitrite (N)	mg/L				0.0088	0.0020	8833284		
Physical Properties									
Conductivity	uS/cm				686	1.0	8834239		
pH	pH				8.35		8834238		
Physical Properties									
Total Suspended Solids	mg/L				11.7	1.0	8831903		
Total Dissolved Solids	mg/L				386	10	8833350		
RDL = Reportable Detection Limit									
Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B7A1648
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LORAX ENVIRONMENTAL SERVICES LTD.
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RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SM3090		SM3091			SM3091		
Sampling Date		2017/11/11 19:00		2017/11/15			2017/11/15		
COC Number		540800-04-01		540800-04-01			540800-04-01		
	UNITS	FIELD BLANK	QC Batch	TRIP BLANK	RDL	QC Batch	TRIP BLANK Lab-Dup	RDL	QC Batch
Parameter									
ORP	mV	309	8831744	309		8831744			
Calculated Parameters									
Filter and HNO3 Preservation	N/A	LAB	8831807						
Nitrate (N)	mg/L	<0.0020	8830953	<0.0020	0.0020	8830953			
Misc. Inorganics									
Weak Acid Dissoc. Cyanide (CN)	mg/L	<0.00050	8838880	<0.00050	0.00050	8838880			
Fluoride (F)	mg/L	0.018	8833984	0.014	0.010	8833984			
Dissolved Organic Carbon (C)	mg/L	0.80	8837065	0.67	0.50	8837064	0.56	0.50	8837064
Alkalinity (Total as CaCO3)	mg/L	<0.50	8834236	<0.50	0.50	8834236	<0.50	0.50	8834236
Total Organic Carbon (C)	mg/L	0.92	8836179	0.75	0.50	8836179			
Alkalinity (PP as CaCO3)	mg/L	<0.50	8834236	<0.50	0.50	8834236	<0.50	0.50	8834236
Bicarbonate (HCO3)	mg/L	<0.50	8834236	<0.50	0.50	8834236	<0.50	0.50	8834236
Carbonate (CO3)	mg/L	<0.50	8834236	<0.50	0.50	8834236	<0.50	0.50	8834236
Hydroxide (OH)	mg/L	<0.50	8834236	<0.50	0.50	8834236	<0.50	0.50	8834236
Anions									
Dissolved Sulphate (SO4)	mg/L	<0.50	8832718	<0.50	0.50	8832718	<0.50	0.50	8832718
Dissolved Chloride (Cl)	mg/L	<0.50	8832715	<0.50	0.50	8832715	<0.50	0.50	8832715
Nutrients									
Total Ammonia (N)	mg/L	<0.0050	8831795	<0.0050	0.0050	8831795	<0.0050	0.0050	8831795
Nitrate plus Nitrite (N)	mg/L	<0.0020	8833274	<0.0020	0.0020	8833279			
Nitrite (N)	mg/L	<0.0020	8833284	<0.0020	0.0020	8833283			
Physical Properties									
Conductivity	uS/cm	1.1	8834234	1.0	1.0	8834234	1.0	1.0	8834234
pH	pH	5.08	8834226	5.08		8834226	5.07		8834226
Physical Properties									
Total Suspended Solids	mg/L	<1.0	8831903	<1.0	1.0	8831903			
Total Dissolved Solids	mg/L	<10	8832215	<10	10	8833938			
RDL = Reportable Detection Limit									
Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B7A1648
Report Date: 2017/11/27

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SM3058			SM3058			SM3059		
Sampling Date		2017/11/11 10:35			2017/11/11 10:35			2017/11/11 14:50		
COC Number		540800-01-01			540800-01-01			540800-01-01		
	UNITS	CC-0.5	RDL	QC Batch	CC-0.5 Lab-Dup	RDL	QC Batch	CC-1.0	RDL	QC Batch

Misc. Inorganics

Dissolved Hardness (CaCO3)	mg/L	147	0.50	8830414				502	0.50	8830414
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Elements

Dissolved Mercury (Hg)	ug/L	0.0021	0.0020	8833494	<0.0020	0.0020	8833494	<0.0020	0.0020	8833494
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Dissolved Metals by ICPMS

Dissolved Aluminum (Al)	ug/L	18.6	0.50	8833233	17.8	0.50	8833233	4.43	0.50	8833233
Dissolved Antimony (Sb)	ug/L	0.093	0.020	8833233	0.095	0.020	8833233	0.182	0.020	8833233
Dissolved Arsenic (As)	ug/L	0.299	0.020	8833233	0.282	0.020	8833233	1.10	0.020	8833233
Dissolved Barium (Ba)	ug/L	64.3	0.020	8833233	64.6	0.020	8833233	107	0.020	8833233
Dissolved Beryllium (Be)	ug/L	<0.010	0.010	8833233	<0.010	0.010	8833233	<0.010	0.010	8833233
Dissolved Bismuth (Bi)	ug/L	<0.0050	0.0050	8833233	<0.0050	0.0050	8833233	<0.0050	0.0050	8833233
Dissolved Boron (B)	ug/L	<10	10	8833233	<10	10	8833233	<10	10	8833233
Dissolved Cadmium (Cd)	ug/L	0.0129	0.0050	8833233	0.0126	0.0050	8833233	0.0159	0.0050	8833233
Dissolved Chromium (Cr)	ug/L	0.18	0.10	8833233	0.15	0.10	8833233	<0.10	0.10	8833233
Dissolved Cobalt (Co)	ug/L	0.0414	0.0050	8833233	0.0360	0.0050	8833233	0.0198	0.0050	8833233
Dissolved Copper (Cu)	ug/L	1.08	0.050	8833233	1.08	0.050	8833233	0.811	0.050	8833233
Dissolved Iron (Fe)	ug/L	19.1	1.0	8833233	19.1	1.0	8833233	2.8	1.0	8833233
Dissolved Lead (Pb)	ug/L	<0.0050	0.0050	8833233	<0.0050	0.0050	8833233	0.0145	0.0050	8833233
Dissolved Lithium (Li)	ug/L	2.09	0.50	8833233	2.09	0.50	8833233	5.77	0.50	8833233
Dissolved Manganese (Mn)	ug/L	18.1	0.050	8833233	18.4	0.050	8833233	0.601	0.050	8833233
Dissolved Molybdenum (Mo)	ug/L	0.669	0.050	8833233	0.668	0.050	8833233	0.329	0.050	8833233
Dissolved Nickel (Ni)	ug/L	0.593	0.020	8833233	0.603	0.020	8833233	0.420	0.020	8833233
Dissolved Phosphorus (P)	ug/L	2.7	2.0	8833233	2.8	2.0	8833233	3.4	2.0	8833233
Dissolved Selenium (Se)	ug/L	0.112	0.040	8833233	0.101	0.040	8833233	0.422	0.040	8833233
Dissolved Silicon (Si)	ug/L	5340	50	8833233	5530	50	8833233	5550	50	8833233
Dissolved Silver (Ag)	ug/L	<0.0050	0.0050	8833233	<0.0050	0.0050	8833233	<0.0050	0.0050	8833233
Dissolved Strontium (Sr)	ug/L	179	0.050	8833233	178	0.050	8833233	1190	0.050	8833233
Dissolved Thallium (Tl)	ug/L	0.0025	0.0020	8833233	0.0020	0.0020	8833233	0.0041	0.0020	8833233
Dissolved Tin (Sn)	ug/L	<0.20	0.20	8833233	<0.20	0.20	8833233	<0.20	0.20	8833233
Dissolved Titanium (Ti)	ug/L	<0.50	0.50	8833233	<0.50	0.50	8833233	<0.50	0.50	8833233
Dissolved Uranium (U)	ug/L	18.7	0.0020	8833233	18.7	0.0020	8833233	32.1	0.0020	8833233

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Maxxam Job #: B7A1648
Report Date: 2017/11/27

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SM3058			SM3058			SM3059		
Sampling Date		2017/11/11 10:35			2017/11/11 10:35			2017/11/11 14:50		
COC Number		540800-01-01			540800-01-01			540800-01-01		
	UNITS	CC-0.5	RDL	QC Batch	CC-0.5 Lab-Dup	RDL	QC Batch	CC-1.0	RDL	QC Batch
Dissolved Vanadium (V)	ug/L	0.25	0.20	8833233	0.26	0.20	8833233	0.26	0.20	8833233
Dissolved Zinc (Zn)	ug/L	0.91 (1)	0.10	8833233	1.00	0.10	8833233	3.47	0.10	8833233
Dissolved Zirconium (Zr)	ug/L	0.26	0.10	8833233	0.27	0.10	8833233	<0.10	0.10	8833233
Dissolved Calcium (Ca)	mg/L	37.0	0.050	8830416				125	0.050	8830416
Dissolved Magnesium (Mg)	mg/L	13.2	0.050	8830416				46.0	0.050	8830416
Dissolved Potassium (K)	mg/L	1.33	0.050	8830416				5.66	0.050	8830416
Dissolved Sodium (Na)	mg/L	5.91	0.050	8830416				5.60	0.050	8830416
Dissolved Sulphur (S)	mg/L	26.2	3.0	8830416				70.6	3.0	8830416
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate (1) Dissolved greater than total. Reanalysis yields similar results.										

Maxxam Job #: B7A1648
Report Date: 2017/11/27

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SM3060		SM3061	SM3062	SM3063	SM3064		
Sampling Date		2017/11/11 15:20		2017/11/11 11:00	2017/11/11 10:10	2017/11/11 12:45	2017/11/11 14:25		
COC Number		540800-01-01		540800-01-01	540800-01-01	540800-01-01	540800-01-01		
	UNITS	CC-1.5	QC Batch	CC-3.5	CC-4.5	CC-A	CC-B	RDL	QC Batch

Misc. Inorganics

Dissolved Hardness (CaCO3)	mg/L	324	8830414	192	128	212	333	0.50	8831270
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Elements

Dissolved Mercury (Hg)	ug/L	0.0023	8833494	0.0024	0.0021	0.0025	<0.0020	0.0020	8833494
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Dissolved Metals by ICPMS

Dissolved Aluminum (Al)	ug/L	14.9	8833233	12.8	15.5	19.0	12.8	0.50	8833233
Dissolved Antimony (Sb)	ug/L	0.095	8833233	0.075	0.087	0.090	0.112	0.020	8833233
Dissolved Arsenic (As)	ug/L	0.777	8833233	0.239	0.258	0.320	0.535	0.020	8833233
Dissolved Barium (Ba)	ug/L	73.4	8833233	78.2	71.2	54.6	85.5	0.020	8833233
Dissolved Beryllium (Be)	ug/L	<0.010	8833233	<0.010	<0.010	0.016	<0.010	0.010	8833233
Dissolved Bismuth (Bi)	ug/L	<0.0050	8833233	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8833233
Dissolved Boron (B)	ug/L	<10	8833233	<10	<10	<10	<10	10	8833233
Dissolved Cadmium (Cd)	ug/L	0.0104	8833233	0.0066	0.0076	0.0159	0.0058	0.0050	8833233
Dissolved Chromium (Cr)	ug/L	0.12	8833233	<0.10	0.13	0.12	0.11	0.10	8833233
Dissolved Cobalt (Co)	ug/L	0.0203	8833233	0.0246	0.0265	0.0312	0.0178	0.0050	8833233
Dissolved Copper (Cu)	ug/L	0.960	8833233	0.752	1.11	1.42	0.799	0.050	8833233
Dissolved Iron (Fe)	ug/L	6.0	8833233	4.6	9.9	13.6	5.9	1.0	8833233
Dissolved Lead (Pb)	ug/L	<0.0050	8833233	0.0080	<0.0050	0.0102	<0.0050	0.0050	8833233
Dissolved Lithium (Li)	ug/L	2.29	8833233	0.60	0.56	2.12	1.80	0.50	8833233
Dissolved Manganese (Mn)	ug/L	6.87	8833233	0.328	5.90	10.1	1.31	0.050	8833233
Dissolved Molybdenum (Mo)	ug/L	0.312	8833233	0.358	0.642	0.264 (1)	0.513	0.050	8833233
Dissolved Nickel (Ni)	ug/L	0.360	8833233	0.374	0.593	0.326	0.303	0.020	8833233
Dissolved Phosphorus (P)	ug/L	5.1	8833233	3.2	3.3	4.0	3.5	2.0	8833233
Dissolved Selenium (Se)	ug/L	0.172	8833233	0.107	0.073	0.048	0.125	0.040	8833233
Dissolved Silicon (Si)	ug/L	5210	8833233	4420	4690	5910	5170	50	8833233
Dissolved Silver (Ag)	ug/L	<0.0050	8833233	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8833233
Dissolved Strontium (Sr)	ug/L	627	8833233	316	162	386	721	0.050	8833233
Dissolved Thallium (Tl)	ug/L	0.0031	8833233	<0.0020	0.0023	0.0029	0.0025	0.0020	8833233
Dissolved Tin (Sn)	ug/L	<0.20	8833233	<0.20	<0.20	<0.20	<0.20	0.20	8833233
Dissolved Titanium (Ti)	ug/L	<0.50	8833233	<0.50	<0.50	<0.50	<0.50	0.50	8833233
Dissolved Uranium (U)	ug/L	20.9	8833233	10.7	3.53	8.21	24.3	0.0020	8833233

RDL = Reportable Detection Limit

(1) Dissolved greater than total. Reanalysis yields similar results.

Maxxam Job #: B7A1648
Report Date: 2017/11/27

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SM3060		SM3061	SM3062	SM3063	SM3064		
Sampling Date		2017/11/11 15:20		2017/11/11 11:00	2017/11/11 10:10	2017/11/11 12:45	2017/11/11 14:25		
COC Number		540800-01-01		540800-01-01	540800-01-01	540800-01-01	540800-01-01		
	UNITS	CC-1.5	QC Batch	CC-3.5	CC-4.5	CC-A	CC-B	RDL	QC Batch
Dissolved Vanadium (V)	ug/L	0.25	8833233	0.21	0.26	0.21	0.28	0.20	8833233
Dissolved Zinc (Zn)	ug/L	1.45 (1)	8833233	0.50	0.26	1.54	0.27	0.10	8833233
Dissolved Zirconium (Zr)	ug/L	0.27	8833233	0.24	0.26	0.27	0.27	0.10	8833233
Dissolved Calcium (Ca)	mg/L	85.8	8830416	52.6	32.9	60.2	88.7	0.050	8830416
Dissolved Magnesium (Mg)	mg/L	26.7	8830416	14.8	11.1	14.9	27.0	0.050	8830416
Dissolved Potassium (K)	mg/L	4.11	8830416	2.27	1.35	2.51	4.87	0.050	8830416
Dissolved Sodium (Na)	mg/L	5.85	8830416	4.23	4.63	5.76	5.25	0.050	8830416
Dissolved Sulphur (S)	mg/L	57.9	8830416	30.8	23.5	42.8	55.6	3.0	8830416

RDL = Reportable Detection Limit

(1) Dissolved greater than total. Reanalysis yields similar results.

Maxxam Job #: B7A1648
Report Date: 2017/11/27

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SM3065	SM3066	SM3068	SM3069	SM3070	SM3071		
Sampling Date		2017/11/11 16:00	2017/11/11 10:00	2017/11/12 11:50	2017/11/12 11:40	2017/11/12 11:00	2017/11/12 10:45		
COC Number		540800-01-01	540800-01-01	540800-02-01	540800-02-01	540800-02-01	540800-02-01		
	UNITS	CC-C	CC-X	HC-2.5	HC-C	IC-0.5	IC-1.5	RDL	QC Batch

Misc. Inorganics

Dissolved Hardness (CaCO3)	mg/L	490	126	160	155	256	93.9	0.50	8831270
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Elements

Dissolved Mercury (Hg)	ug/L	0.0021	<0.0020	0.0021	0.0024	0.0026	0.0035	0.0020	8833494
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Dissolved Metals by ICPMS

Dissolved Aluminum (Al)	ug/L	3.40	22.3	16.5	12.4	28.9	20.1	0.50	8833233
Dissolved Antimony (Sb)	ug/L	0.142	0.090	0.556	0.262	0.084	0.108	0.020	8833233
Dissolved Arsenic (As)	ug/L	1.13	0.275	0.711	0.556	0.518	0.226	0.020	8833233
Dissolved Barium (Ba)	ug/L	106	71.6	49.1	49.7	61.9	39.0	0.020	8833233
Dissolved Beryllium (Be)	ug/L	<0.010	<0.010	<0.010	<0.010	0.014	0.013	0.010	8833233
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8833233
Dissolved Boron (B)	ug/L	<10	<10	<10	<10	<10	<10	10	8833233
Dissolved Cadmium (Cd)	ug/L	<0.0050	0.0097	0.0118	0.0152	0.0268	0.0066	0.0050	8833233
Dissolved Chromium (Cr)	ug/L	<0.10	0.14	0.13	0.14	0.22	0.13	0.10	8833233
Dissolved Cobalt (Co)	ug/L	0.0182	0.0281	0.0257	0.0307	0.0311	0.0232	0.0050	8833233
Dissolved Copper (Cu)	ug/L	0.601	1.13	0.848	1.06	1.47	1.01	0.050	8833233
Dissolved Iron (Fe)	ug/L	2.4	11.2	7.4	6.1	12.6	7.9	1.0	8833233
Dissolved Lead (Pb)	ug/L	<0.0050	<0.0050	<0.0050	0.0058	<0.0050	<0.0050	0.0050	8833233
Dissolved Lithium (Li)	ug/L	5.73	<0.50	1.53	1.41	2.85	2.87	0.50	8833233
Dissolved Manganese (Mn)	ug/L	0.448	3.55	8.14	15.0	0.818	1.56	0.050	8833233
Dissolved Molybdenum (Mo)	ug/L	0.317	0.662	1.61	0.794	0.311	0.402	0.050	8833233
Dissolved Nickel (Ni)	ug/L	0.382	0.588	0.361	0.350	1.22	0.635	0.020	8833233
Dissolved Phosphorus (P)	ug/L	3.0	2.8	3.5	4.0	4.6	2.8	2.0	8833233
Dissolved Selenium (Se)	ug/L	0.436	0.060	0.065	0.046	0.391	0.047	0.040	8833233
Dissolved Silicon (Si)	ug/L	5330	4850	5770	5190	6350	5710	50	8833233
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8833233
Dissolved Strontium (Sr)	ug/L	1170	162	368	327	180	143	0.050	8833233
Dissolved Thallium (Tl)	ug/L	0.0046	<0.0020	0.0020	<0.0020	0.0028	0.0023	0.0020	8833233
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	8833233
Dissolved Titanium (Ti)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	8833233
Dissolved Uranium (U)	ug/L	32.6	2.51	50.2	38.4	2.31	3.72	0.0020	8833233
Dissolved Vanadium (V)	ug/L	0.24	0.27	0.29	0.24	0.31	0.26	0.20	8833233

RDL = Reportable Detection Limit

Maxxam Job #: B7A1648
Report Date: 2017/11/27

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SM3065	SM3066	SM3068	SM3069	SM3070	SM3071		
Sampling Date		2017/11/11 16:00	2017/11/11 10:00	2017/11/12 11:50	2017/11/12 11:40	2017/11/12 11:00	2017/11/12 10:45		
COC Number		540800-01-01	540800-01-01	540800-02-01	540800-02-01	540800-02-01	540800-02-01		
	UNITS	CC-C	CC-X	HC-2.5	HC-C	IC-0.5	IC-1.5	RDL	QC Batch
Dissolved Zinc (Zn)	ug/L	0.62	0.37	0.80	1.44	1.07	0.68	0.10	8833233
Dissolved Zirconium (Zr)	ug/L	<0.10	0.26	0.26	0.30	0.39	0.35	0.10	8833233
Dissolved Calcium (Ca)	mg/L	122	32.5	39.3	38.7	59.0	25.3	0.050	8830416
Dissolved Magnesium (Mg)	mg/L	44.8	10.8	15.1	14.1	26.3	7.49	0.050	8830416
Dissolved Potassium (K)	mg/L	5.44	1.33	2.30	1.69	1.30	1.03	0.050	8830416
Dissolved Sodium (Na)	mg/L	5.39	4.50	3.77	4.49	5.79	4.84	0.050	8830416
Dissolved Sulphur (S)	mg/L	69.9	24.0	18.4	21.4	59.2	9.0	3.0	8830416
RDL = Reportable Detection Limit									

Maxxam Job #: B7A1648
Report Date: 2017/11/27

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SM3072	SM3073	SM3074	SM3075	SM3076		
Sampling Date		2017/11/12 10:00	2017/11/12 09:30	2017/11/11 09:35	2017/11/11 12:55	2017/11/11 11:50		
COC Number		540800-02-01	540800-03-01	540800-03-01	540800-03-01	540800-03-01		
	UNITS	IC-4.5	YUK-5.0	Ballarat U/S Y.R.	Barker U/S S.R.	Blackhills U/S S.R.	RDL	QC Batch
Misc. Inorganics								
Dissolved Hardness (CaCO3)	mg/L	96.0	98.2	315	237	250	0.50	8831270
Elements								
Dissolved Mercury (Hg)	ug/L	0.0026	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8833494
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	ug/L	33.6	3.63	6.24	20.3	11.9	0.50	8833233
Dissolved Antimony (Sb)	ug/L	0.086	0.086	0.037	0.084	0.117	0.020	8833233
Dissolved Arsenic (As)	ug/L	0.275	0.388	0.171	0.357	0.545	0.020	8833233
Dissolved Barium (Ba)	ug/L	50.2	43.1	79.0	104	111	0.020	8833233
Dissolved Beryllium (Be)	ug/L	0.012	<0.010	<0.010	<0.010	0.014	0.010	8833233
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0069	0.0050	8833233
Dissolved Boron (B)	ug/L	<10	<10	<10	<10	13	10	8833233
Dissolved Cadmium (Cd)	ug/L	0.0142	0.0195	<0.0050	0.0200	0.0170	0.0050	8833233
Dissolved Chromium (Cr)	ug/L	0.18	<0.10	0.10	0.22	0.25	0.10	8833233
Dissolved Cobalt (Co)	ug/L	0.0283	0.0121	0.0269	0.241	0.561	0.0050	8833233
Dissolved Copper (Cu)	ug/L	1.30	0.459	1.20	2.03	1.96	0.050	8833233
Dissolved Iron (Fe)	ug/L	12.6	3.6	11.7	106	188	1.0	8833233
Dissolved Lead (Pb)	ug/L	<0.0050	<0.0050	0.0050	0.0086	0.0583	0.0050	8833233
Dissolved Lithium (Li)	ug/L	0.82	1.26	0.60	2.18	3.42	0.50	8833233
Dissolved Manganese (Mn)	ug/L	8.30	2.19	5.56	171	325	0.050	8833233
Dissolved Molybdenum (Mo)	ug/L	0.236	1.39	0.737	0.654	1.00	0.050	8833233
Dissolved Nickel (Ni)	ug/L	0.812	0.553	0.340	1.46	2.41	0.020	8833233
Dissolved Phosphorus (P)	ug/L	3.3	2.4	3.3	6.1	17.8	2.0	8833233
Dissolved Selenium (Se)	ug/L	0.080	0.217	0.140	0.155	0.217	0.040	8833233
Dissolved Silicon (Si)	ug/L	5060	3050	4510	5510	7260	50	8833233
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8833233
Dissolved Strontium (Sr)	ug/L	126	125	543	321	280	0.050	8833233
Dissolved Thallium (Tl)	ug/L	0.0030	0.0021	<0.0020	0.0031	0.0053	0.0020	8833233
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	8833233
Dissolved Titanium (Ti)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	8833233
Dissolved Uranium (U)	ug/L	0.540	1.15	4.61	3.34	2.45	0.0020	8833233
Dissolved Vanadium (V)	ug/L	0.26	0.22	0.29	0.48	0.44	0.20	8833233
RDL = Reportable Detection Limit								

Maxxam Job #: B7A1648
Report Date: 2017/11/27

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SM3072	SM3073	SM3074	SM3075	SM3076		
Sampling Date		2017/11/12 10:00	2017/11/12 09:30	2017/11/11 09:35	2017/11/11 12:55	2017/11/11 11:50		
COC Number		540800-02-01	540800-03-01	540800-03-01	540800-03-01	540800-03-01		
	UNITS	IC-4.5	YUK-5.0	Ballarat U/S Y.R.	Barker U/S S.R.	Blackhills U/S S.R.	RDL	QC Batch
Dissolved Zinc (Zn)	ug/L	0.40	0.65	0.45	0.58	1.05	0.10	8833233
Dissolved Zirconium (Zr)	ug/L	0.44	<0.10	0.14	0.33	0.40	0.10	8833233
Dissolved Calcium (Ca)	mg/L	25.9	27.7	73.8	59.9	67.5	0.050	8830416
Dissolved Magnesium (Mg)	mg/L	7.63	7.04	31.6	21.2	19.9	0.050	8830416
Dissolved Potassium (K)	mg/L	1.13	0.812	2.88	2.22	2.49	0.050	8830416
Dissolved Sodium (Na)	mg/L	3.75	2.20	8.81	9.73	8.53	0.050	8830416
Dissolved Sulphur (S)	mg/L	16.1	6.2	56.7	32.2	33.3	3.0	8830416
RDL = Reportable Detection Limit								

Maxxam Job #: B7A1648
Report Date: 2017/11/27

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SM3077	SM3086		SM3087	SM3088		
Sampling Date		2017/11/11 12:00	2017/11/11 12:35		2017/11/11 10:25			
COC Number		540800-03-01	540800-04-01		540800-04-01	540800-04-01		
	UNITS	MaisyMay U/S S.R.	Stewart D/S M.M.	QC Batch	Latte Mix	Sample A	RDL	QC Batch
Misc. Inorganics								
Dissolved Hardness (CaCO3)	mg/L	373	272	8831270	159	94.0	0.50	8831270
Elements								
Dissolved Mercury (Hg)	ug/L	<0.0020	<0.0020	8833494	0.0021	0.0025	0.0020	8835363
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	ug/L	3.29	15.1	8833233	17.9	33.6	0.50	8833316
Dissolved Antimony (Sb)	ug/L	0.077	0.163	8833233	0.098	0.084	0.020	8833316
Dissolved Arsenic (As)	ug/L	0.336	0.460	8833233	0.292	0.275	0.020	8833316
Dissolved Barium (Ba)	ug/L	104	89.6	8833233	67.7	50.3	0.020	8833316
Dissolved Beryllium (Be)	ug/L	<0.010	<0.010	8833233	<0.010	0.011	0.010	8833316
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	8833233	0.0066	<0.0050	0.0050	8833316
Dissolved Boron (B)	ug/L	<10	<10	8833233	<10	<10	10	8833316
Dissolved Cadmium (Cd)	ug/L	0.0177	0.129	8833233	0.0082	0.0153	0.0050	8833316
Dissolved Chromium (Cr)	ug/L	0.12	<0.10	8833233	0.14	0.20	0.10	8833316
Dissolved Cobalt (Co)	ug/L	0.315	0.0301	8833233	0.0405	0.0335	0.0050	8833316
Dissolved Copper (Cu)	ug/L	1.29	0.664	8833233	1.08	1.28	0.050	8833316
Dissolved Iron (Fe)	ug/L	21.2	3.3	8833233	20.4	13.1	1.0	8833316
Dissolved Lead (Pb)	ug/L	<0.0050	<0.0050	8833233	<0.0050	<0.0050	0.0050	8833316
Dissolved Lithium (Li)	ug/L	4.04	5.33	8833233	1.82	0.77	0.50	8833316
Dissolved Manganese (Mn)	ug/L	427	8.74	8833233	17.6	8.16	0.050	8833316
Dissolved Molybdenum (Mo)	ug/L	1.20	0.754	8833233	0.658	0.244	0.050	8833316
Dissolved Nickel (Ni)	ug/L	2.03	4.46	8833233	0.596	0.868	0.020	8833316
Dissolved Phosphorus (P)	ug/L	4.9	4.3	8833233	2.8	2.9	2.0	8833316
Dissolved Selenium (Se)	ug/L	0.396	0.989	8833233	0.101	0.091	0.040	8833316
Dissolved Silicon (Si)	ug/L	6360	3350	8833233	5390	4660	50	8833316
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	8833233	<0.0050	<0.0050	0.0050	8833316
Dissolved Strontium (Sr)	ug/L	310	296	8833233	204	126	0.050	8833316
Dissolved Thallium (Tl)	ug/L	0.0026	0.0041	8833233	0.0027	<0.0020	0.0020	8833316
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	8833233	<0.20	<0.20	0.20	8833316
Dissolved Titanium (Ti)	ug/L	<0.50	<0.50	8833233	<0.50	<0.50	0.50	8833316
Dissolved Uranium (U)	ug/L	3.52	1.68	8833233	18.9	0.543	0.0020	8833316
Dissolved Vanadium (V)	ug/L	0.44	<0.20	8833233	0.26	0.26	0.20	8833316
RDL = Reportable Detection Limit								

Maxxam Job #: B7A1648
Report Date: 2017/11/27

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SM3077	SM3086		SM3087	SM3088		
Sampling Date		2017/11/11 12:00	2017/11/11 12:35		2017/11/11 10:25			
COC Number		540800-03-01	540800-04-01		540800-04-01	540800-04-01		
	UNITS	MaisyMay U/S S.R.	Stewart D/S M.M.	QC Batch	Latte Mix	Sample A	RDL	QC Batch
Dissolved Zinc (Zn)	ug/L	0.44	4.60	8833233	0.49	0.40	0.10	8833316
Dissolved Zirconium (Zr)	ug/L	0.20	<0.10	8833233	0.27	0.43	0.10	8833316
Dissolved Calcium (Ca)	mg/L	87.4	69.2	8830416	41.4	25.1	0.050	8830416
Dissolved Magnesium (Mg)	mg/L	37.6	24.0	8830416	13.6	7.61	0.050	8830416
Dissolved Potassium (K)	mg/L	3.48	0.776	8830416	1.49	1.16	0.050	8830416
Dissolved Sodium (Na)	mg/L	8.40	3.26	8830416	5.69	3.75	0.050	8830416
Dissolved Sulphur (S)	mg/L	56.7	39.4	8830416	26.5	15.3	3.0	8830416
RDL = Reportable Detection Limit								

Maxxam Job #: B7A1648
Report Date: 2017/11/27

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SM3089		SM3090		SM3091		
Sampling Date				2017/11/11 19:00		2017/11/15		
COC Number		540800-04-01		540800-04-01		540800-04-01		
	UNITS	Sample C	QC Batch	FIELD BLANK	QC Batch	TRIP BLANK	RDL	QC Batch
Misc. Inorganics								
Dissolved Hardness (CaCO3)	mg/L	374	8831270	<0.50	8831270	<0.50	0.50	8831270
Elements								
Dissolved Mercury (Hg)	ug/L	<0.0020	8835363	<0.0020	8835363	<0.0020	0.0020	8835363
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	ug/L	3.96	8833316	<0.50	8838337	<0.50	0.50	8833316
Dissolved Antimony (Sb)	ug/L	0.076	8833316	<0.020	8833316	<0.020	0.020	8833316
Dissolved Arsenic (As)	ug/L	0.355	8833316	<0.020	8833316	<0.020	0.020	8833316
Dissolved Barium (Ba)	ug/L	103	8833316	<0.020	8833316	<0.020	0.020	8833316
Dissolved Beryllium (Be)	ug/L	<0.010	8833316	<0.010	8833316	<0.010	0.010	8833316
Dissolved Bismuth (Bi)	ug/L	<0.0050	8833316	<0.0050	8833316	<0.0050	0.0050	8833316
Dissolved Boron (B)	ug/L	<10	8833316	<10	8833316	<10	10	8833316
Dissolved Cadmium (Cd)	ug/L	0.0171	8833316	<0.0050	8833316	<0.0050	0.0050	8833316
Dissolved Chromium (Cr)	ug/L	0.14	8833316	<0.10	8833316	<0.10	0.10	8833316
Dissolved Cobalt (Co)	ug/L	0.332	8833316	<0.0050	8833316	<0.0050	0.0050	8833316
Dissolved Copper (Cu)	ug/L	1.34	8833316	<0.050	8833316	<0.050	0.050	8833316
Dissolved Iron (Fe)	ug/L	22.1	8833316	<1.0	8833316	<1.0	1.0	8833316
Dissolved Lead (Pb)	ug/L	<0.0050	8833316	<0.0050	8833316	<0.0050	0.0050	8833316
Dissolved Lithium (Li)	ug/L	4.14	8833316	<0.50	8833316	<0.50	0.50	8833316
Dissolved Manganese (Mn)	ug/L	424	8833316	<0.050	8833316	<0.050	0.050	8833316
Dissolved Molybdenum (Mo)	ug/L	1.20	8833316	<0.050	8833316	<0.050	0.050	8833316
Dissolved Nickel (Ni)	ug/L	2.12	8833316	<0.020	8833316	<0.020	0.020	8833316
Dissolved Phosphorus (P)	ug/L	4.2	8833316	<2.0	8833316	<2.0	2.0	8833316
Dissolved Selenium (Se)	ug/L	0.428	8833316	<0.040	8833316	<0.040	0.040	8833316
Dissolved Silicon (Si)	ug/L	6240	8833316	<50	8833316	<50	50	8833316
Dissolved Silver (Ag)	ug/L	<0.0050	8833316	<0.0050	8833316	<0.0050	0.0050	8833316
Dissolved Strontium (Sr)	ug/L	305	8833316	<0.050	8833316	<0.050	0.050	8833316
Dissolved Thallium (Tl)	ug/L	0.0022	8833316	<0.0020	8833316	<0.0020	0.0020	8833316
Dissolved Tin (Sn)	ug/L	<0.20	8833316	<0.20	8833316	<0.20	0.20	8833316
Dissolved Titanium (Ti)	ug/L	<0.50	8833316	<0.50	8833316	<0.50	0.50	8833316
Dissolved Uranium (U)	ug/L	3.45	8833316	<0.0020	8833316	<0.0020	0.0020	8833316
Dissolved Vanadium (V)	ug/L	0.47	8833316	<0.20	8833316	<0.20	0.20	8833316
RDL = Reportable Detection Limit								

Maxxam Job #: B7A1648
Report Date: 2017/11/27

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SM3089		SM3090		SM3091		
Sampling Date				2017/11/11 19:00		2017/11/15		
COC Number		540800-04-01		540800-04-01		540800-04-01		
	UNITS	Sample C	QC Batch	FIELD BLANK	QC Batch	TRIP BLANK	RDL	QC Batch
Dissolved Zinc (Zn)	ug/L	0.31	8833316	<0.10	8833316	<0.10	0.10	8833316
Dissolved Zirconium (Zr)	ug/L	0.19	8833316	<0.10	8833316	<0.10	0.10	8833316
Dissolved Calcium (Ca)	mg/L	88.6	8830416	<0.050	8830416	<0.050	0.050	8830416
Dissolved Magnesium (Mg)	mg/L	37.1	8830416	<0.050	8830416	<0.050	0.050	8830416
Dissolved Potassium (K)	mg/L	3.54	8830416	<0.050	8830416	<0.050	0.050	8830416
Dissolved Sodium (Na)	mg/L	8.52	8830416	<0.050	8830416	<0.050	0.050	8830416
Dissolved Sulphur (S)	mg/L	54.4	8830416	<3.0	8830416	<3.0	3.0	8830416
RDL = Reportable Detection Limit								

Maxxam Job #: B7A1648
Report Date: 2017/11/27

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		SM3058			SM3058			SM3059		
Sampling Date		2017/11/11 10:35			2017/11/11 10:35			2017/11/11 14:50		
COC Number		540800-01-01			540800-01-01			540800-01-01		
	UNITS	CC-0.5	RDL	QC Batch	CC-0.5 Lab-Dup	RDL	QC Batch	CC-1.0	RDL	QC Batch

Calculated Parameters

Total Hardness (CaCO3)	mg/L	138	0.50	8830340				464	0.50	8830340
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Elements

Total Mercury (Hg)	ug/L	<0.0020	0.0020	8833205				<0.0020	0.0020	8833205
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Total Metals by ICPMS

Total Aluminum (Al)	ug/L	23.2	0.50	8832435	23.8	0.50	8832435	18.6	0.50	8832435
Total Antimony (Sb)	ug/L	0.094	0.020	8832435	0.093	0.020	8832435	0.249	0.020	8832435
Total Arsenic (As)	ug/L	0.351	0.020	8832435	0.345	0.020	8832435	1.26	0.020	8832435
Total Barium (Ba)	ug/L	65.5	0.020	8832435	63.7	0.020	8832435	109	0.020	8832435
Total Beryllium (Be)	ug/L	<0.010	0.010	8832435	<0.010	0.010	8832435	<0.010	0.010	8832435
Total Bismuth (Bi)	ug/L	<0.0050	0.0050	8832435	<0.0050	0.0050	8832435	0.0060	0.0050	8832435
Total Boron (B)	ug/L	<10	10	8832435	<10	10	8832435	<10	10	8832435
Total Cadmium (Cd)	ug/L	0.0100	0.0050	8832435	0.0110	0.0050	8832435	0.0210	0.0050	8832435
Total Chromium (Cr)	ug/L	0.15	0.10	8832435	0.15	0.10	8832435	0.22	0.10	8832435
Total Cobalt (Co)	ug/L	0.0410	0.0050	8832435	0.0410	0.0050	8832435	0.0310	0.0050	8832435
Total Copper (Cu)	ug/L	1.37	0.050	8832435	1.39	0.050	8832435	1.21	0.050	8832435
Total Iron (Fe)	ug/L	26.7	1.0	8832435	27.0	1.0	8832435	25.4	1.0	8832435
Total Lead (Pb)	ug/L	0.0220	0.0050	8832435	0.0200	0.0050	8832435	0.0810	0.0050	8832435
Total Lithium (Li)	ug/L	1.97	0.50	8832435	1.95	0.50	8832435	5.40	0.50	8832435
Total Manganese (Mn)	ug/L	20.3	0.050	8832435	20.1	0.050	8832435	1.37	0.050	8832435
Total Molybdenum (Mo)	ug/L	0.702	0.050	8832435	0.711	0.050	8832435	0.332	0.050	8832435
Total Nickel (Ni)	ug/L	0.672	0.020	8832435	0.643	0.020	8832435	0.592	0.020	8832435
Total Phosphorus (P)	ug/L	2.2	2.0	8832435	2.0	2.0	8832435	7.5	2.0	8832435
Total Selenium (Se)	ug/L	0.094	0.040	8832435	0.116	0.040	8832435	0.401	0.040	8832435
Total Silicon (Si)	ug/L	5920	50	8832435	5770	50	8832435	5190	50	8832435
Total Silver (Ag)	ug/L	<0.0050	0.0050	8832435	<0.0050	0.0050	8832435	0.0090	0.0050	8832435
Total Strontium (Sr)	ug/L	190	0.050	8832435	193	0.050	8832435	1370	0.050	8832435
Total Thallium (Tl)	ug/L	0.0030	0.0020	8832435	0.0030	0.0020	8832435	0.0040	0.0020	8832435
Total Tin (Sn)	ug/L	<0.20	0.20	8832435	<0.20	0.20	8832435	<0.20	0.20	8832435
Total Titanium (Ti)	ug/L	0.74	0.50	8832435	<0.50	0.50	8832435	0.56	0.50	8832435
Total Uranium (U)	ug/L	20.0	0.0020	8832435	20.3	0.0020	8832435	30.8	0.0020	8832435

RDL = Reportable Detection Limit

Lab-Dup = Laboratory Initiated Duplicate

Maxxam Job #: B7A1648
Report Date: 2017/11/27

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		SM3058			SM3058			SM3059		
Sampling Date		2017/11/11 10:35			2017/11/11 10:35			2017/11/11 14:50		
COC Number		540800-01-01			540800-01-01			540800-01-01		
	UNITS	CC-0.5	RDL	QC Batch	CC-0.5 Lab-Dup	RDL	QC Batch	CC-1.0	RDL	QC Batch
Total Vanadium (V)	ug/L	0.22	0.20	8832435	0.23	0.20	8832435	0.27	0.20	8832435
Total Zinc (Zn)	ug/L	0.68	0.10	8832435	0.63	0.10	8832435	4.44	0.10	8832435
Total Zirconium (Zr)	ug/L	0.27	0.10	8832435	0.27	0.10	8832435	<0.10	0.10	8832435
Total Calcium (Ca)	mg/L	34.5	0.050	8830952				114	0.050	8830952
Total Magnesium (Mg)	mg/L	12.5	0.050	8830952				43.6	0.050	8830952
Total Potassium (K)	mg/L	1.35	0.050	8830952				5.68	0.050	8830952
Total Sodium (Na)	mg/L	5.72	0.050	8830952				5.38	0.050	8830952
Total Sulphur (S)	mg/L	26.5	3.0	8830952				71.8	3.0	8830952
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B7A1648
Report Date: 2017/11/27

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		SM3060	SM3061	SM3062	SM3063	SM3064	SM3065		
Sampling Date		2017/11/11 15:20	2017/11/11 11:00	2017/11/11 10:10	2017/11/11 12:45	2017/11/11 14:25	2017/11/11 16:00		
COC Number		540800-01-01	540800-01-01	540800-01-01	540800-01-01	540800-01-01	540800-01-01		
	UNITS	CC-1.5	CC-3.5	CC-4.5	CC-A	CC-B	CC-C	RDL	QC Batch
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	319	187	124	202	321	470	0.50	8830340
Elements									
Total Mercury (Hg)	ug/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8833205
Total Metals by ICPMS									
Total Aluminum (Al)	ug/L	19.3	20.4	112	32.6	28.3	35.2	0.50	8832435
Total Antimony (Sb)	ug/L	0.101	0.104	0.090	0.105	0.131	0.148	0.020	8832435
Total Arsenic (As)	ug/L	0.842	0.282	0.357	0.395	0.617	1.30	0.020	8832435
Total Barium (Ba)	ug/L	77.7	83.1	72.4	54.7	89.4	106	0.020	8832435
Total Beryllium (Be)	ug/L	0.010	<0.010	0.010	<0.010	<0.010	<0.010	0.010	8832435
Total Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8832435
Total Boron (B)	ug/L	<10	<10	<10	<10	<10	<10	10	8832435
Total Cadmium (Cd)	ug/L	0.0080	0.0070	0.0140	0.0180	0.0060	0.0050	0.0050	8832435
Total Chromium (Cr)	ug/L	0.13	0.13	0.30	0.21	0.15	0.19	0.10	8832435
Total Cobalt (Co)	ug/L	0.0210	0.0300	0.103	0.0370	0.0270	0.0460	0.0050	8832435
Total Copper (Cu)	ug/L	1.18	0.891	1.60	1.69	0.998	0.773	0.050	8832435
Total Iron (Fe)	ug/L	12.8	13.4	154	37.5	26.8	43.0	1.0	8832435
Total Lead (Pb)	ug/L	0.0050	0.0220	0.0730	0.0420	0.0230	0.0270	0.0050	8832435
Total Lithium (Li)	ug/L	2.19	0.57	0.56	2.02	1.72	5.36	0.50	8832435
Total Manganese (Mn)	ug/L	8.78	0.872	17.8	12.2	2.27	3.71	0.050	8832435
Total Molybdenum (Mo)	ug/L	0.332	0.384	0.657	0.156	0.566	0.332	0.050	8832435
Total Nickel (Ni)	ug/L	0.436	0.476	0.758	0.421	0.353	0.518	0.020	8832435
Total Phosphorus (P)	ug/L	3.5	2.7	11.8	4.7	4.6	3.0	2.0	8832435
Total Selenium (Se)	ug/L	0.130	0.111	0.061	0.047	0.095	0.414	0.040	8832435
Total Silicon (Si)	ug/L	5760	4680	4710	6270	5190	5420	50	8832435
Total Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8832435
Total Strontium (Sr)	ug/L	679	344	170	428	804	1350	0.050	8832435
Total Thallium (Tl)	ug/L	0.0040	<0.0020	0.0030	0.0030	0.0030	0.0040	0.0020	8832435
Total Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	8832435
Total Titanium (Ti)	ug/L	0.58	0.62	6.80	1.21	0.88	2.35	0.50	8832435
Total Uranium (U)	ug/L	21.9	11.5	3.68	8.09	24.5	31.2	0.0020	8832435
Total Vanadium (V)	ug/L	0.25	0.22	0.56	<0.20	0.33	0.31	0.20	8832435
RDL = Reportable Detection Limit									

Maxxam Job #: B7A1648
Report Date: 2017/11/27

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		SM3060	SM3061	SM3062	SM3063	SM3064	SM3065		
Sampling Date		2017/11/11 15:20	2017/11/11 11:00	2017/11/11 10:10	2017/11/11 12:45	2017/11/11 14:25	2017/11/11 16:00		
COC Number		540800-01-01	540800-01-01	540800-01-01	540800-01-01	540800-01-01	540800-01-01		
	UNITS	CC-1.5	CC-3.5	CC-4.5	CC-A	CC-B	CC-C	RDL	QC Batch
Total Zinc (Zn)	ug/L	0.62	0.59	1.20	1.85	0.45	0.74	0.10	8832435
Total Zirconium (Zr)	ug/L	0.30	0.26	0.24	0.22	0.25	<0.10	0.10	8832435
Total Calcium (Ca)	mg/L	84.0	51.7	31.2	56.6	85.6	118	0.050	8830952
Total Magnesium (Mg)	mg/L	26.6	14.1	11.3	14.6	26.0	42.4	0.050	8830952
Total Potassium (K)	mg/L	4.38	2.36	1.44	2.64	5.00	5.52	0.050	8830952
Total Sodium (Na)	mg/L	5.82	4.21	4.64	5.69	5.09	5.28	0.050	8830952
Total Sulphur (S)	mg/L	57.8	30.7	23.1	42.5	54.5	71.4	3.0	8830952
RDL = Reportable Detection Limit									

Maxxam Job #: B7A1648
 Report Date: 2017/11/27

LORAX ENVIRONMENTAL SERVICES LTD.
 Client Project #: Gold Corp Coffee Creek-SW
 Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		SM3066	SM3068	SM3069	SM3070	SM3071	SM3072		
Sampling Date		2017/11/11 10:00	2017/11/12 11:50	2017/11/12 11:40	2017/11/12 11:00	2017/11/12 10:45	2017/11/12 10:00		
COC Number		540800-01-01	540800-02-01	540800-02-01	540800-02-01	540800-02-01	540800-02-01		
	UNITS	CC-X	HC-2.5	HC-C	IC-0.5	IC-1.5	IC-4.5	RDL	QC Batch
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	117	149	148	240	91.0	89.7	0.50	8830340
Elements									
Total Mercury (Hg)	ug/L	<0.0020	<0.0020	<0.0020	<0.0020	0.0025	<0.0020	0.0020	8833205
Total Metals by ICPMS									
Total Aluminum (Al)	ug/L	28.0	21.0	24.4	49.1	28.7	38.6	0.50	8832435
Total Antimony (Sb)	ug/L	0.085	0.507	0.336	0.087	0.117	0.085	0.020	8832435
Total Arsenic (As)	ug/L	0.263	0.755	0.695	0.640	0.259	0.321	0.020	8832435
Total Barium (Ba)	ug/L	70.9	46.1	50.4	61.6	40.1	50.3	0.020	8832435
Total Beryllium (Be)	ug/L	<0.010	<0.010	<0.010	0.014	0.013	<0.010	0.010	8832435
Total Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8832435
Total Boron (B)	ug/L	<10	<10	<10	<10	<10	<10	10	8832435
Total Cadmium (Cd)	ug/L	0.0090	0.0120	0.0180	0.0270	0.0100	0.0150	0.0050	8832435
Total Chromium (Cr)	ug/L	0.17	0.20	0.29	0.27	0.17	0.21	0.10	8832435
Total Cobalt (Co)	ug/L	0.0320	0.0260	0.0450	0.0510	0.0240	0.0300	0.0050	8832435
Total Copper (Cu)	ug/L	1.34	0.995	1.36	1.74	1.18	1.41	0.050	8832435
Total Iron (Fe)	ug/L	18.3	14.3	21.2	35.7	17.1	17.2	1.0	8832435
Total Lead (Pb)	ug/L	0.0060	0.0190	0.0370	0.0190	0.0110	<0.0050	0.0050	8832435
Total Lithium (Li)	ug/L	<0.50	1.28	1.31	2.67	2.73	0.75	0.50	8832435
Total Manganese (Mn)	ug/L	4.17	10.0	25.1	3.35	2.21	9.72	0.050	8832435
Total Molybdenum (Mo)	ug/L	0.640	1.59	0.839	0.331	0.417	0.249	0.050	8832435
Total Nickel (Ni)	ug/L	0.658	0.395	0.469	1.36	0.691	0.901	0.020	8832435
Total Phosphorus (P)	ug/L	2.2	3.5	7.0	5.3	2.4	2.9	2.0	8832435
Total Selenium (Se)	ug/L	0.068	0.069	0.052	0.401	0.051	0.082	0.040	8832435
Total Silicon (Si)	ug/L	4770	5420	4920	6250	5650	5160	50	8832435
Total Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8832435
Total Strontium (Sr)	ug/L	163	383	363	190	155	134	0.050	8832435
Total Thallium (Tl)	ug/L	0.0020	<0.0020	<0.0020	0.0030	0.0030	0.0020	0.0020	8832435
Total Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	8832435
Total Titanium (Ti)	ug/L	<0.50	<0.50	0.67	1.08	0.66	0.51	0.50	8832435
Total Uranium (U)	ug/L	2.57	44.5	36.0	2.32	3.77	0.538	0.0020	8832435
Total Vanadium (V)	ug/L	<0.20	0.27	0.27	0.37	0.24	0.20	0.20	8832435
RDL = Reportable Detection Limit									

Maxxam Job #: B7A1648
Report Date: 2017/11/27

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		SM3066	SM3068	SM3069	SM3070	SM3071	SM3072		
Sampling Date		2017/11/11 10:00	2017/11/12 11:50	2017/11/12 11:40	2017/11/12 11:00	2017/11/12 10:45	2017/11/12 10:00		
COC Number		540800-01-01	540800-02-01	540800-02-01	540800-02-01	540800-02-01	540800-02-01		
	UNITS	CC-X	HC-2.5	HC-C	IC-0.5	IC-1.5	IC-4.5	RDL	QC Batch
Total Zinc (Zn)	ug/L	0.48	1.09	1.97	1.38	0.79	0.40	0.10	8832435
Total Zirconium (Zr)	ug/L	0.25	0.23	0.29	0.39	0.33	0.46	0.10	8832435
Total Calcium (Ca)	mg/L	29.3	36.6	36.1	54.4	24.3	23.7	0.050	8830952
Total Magnesium (Mg)	mg/L	10.6	13.9	14.0	25.3	7.35	7.40	0.050	8830952
Total Potassium (K)	mg/L	1.41	2.27	1.82	1.41	1.10	1.19	0.050	8830952
Total Sodium (Na)	mg/L	4.34	3.56	4.58	5.64	4.75	3.66	0.050	8830952
Total Sulphur (S)	mg/L	22.3	16.8	21.3	58.8	8.7	15.2	3.0	8830952
RDL = Reportable Detection Limit									

Maxxam Job #: B7A1648
Report Date: 2017/11/27

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		SM3073	SM3074		SM3087	SM3088	SM3090		
Sampling Date		2017/11/12 09:30	2017/11/11 09:35		2017/11/11 10:25		2017/11/11 19:00		
COC Number		540800-03-01	540800-03-01		540800-04-01	540800-04-01	540800-04-01		
	UNITS	YUK-5.0	Ballarat U/S Y.R.	QC Batch	Latte Mix	Sample A	FIELD BLANK	RDL	QC Batch

Calculated Parameters

Total Hardness (CaCO3)	mg/L	94.5	304	8830340	149	89.9	<0.50	0.50	8830340
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Elements

Total Mercury (Hg)	ug/L	<0.0020	<0.0020	8833205	<0.0020	<0.0020	<0.0020	0.0020	8835353
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Total Metals by ICPMS

Total Aluminum (Al)	ug/L	76.0	12.7	8832435	23.9	40.2	<0.50	0.50	8832435
Total Antimony (Sb)	ug/L	0.091	0.043	8832435	0.101	0.085	<0.020	0.020	8832435
Total Arsenic (As)	ug/L	0.521	0.243	8832435	0.364	0.299	0.035	0.020	8832435
Total Barium (Ba)	ug/L	44.6	79.5	8832435	71.1	51.0	<0.020	0.020	8832435
Total Beryllium (Be)	ug/L	<0.010	<0.010	8832435	<0.010	<0.010	<0.010	0.010	8832435
Total Bismuth (Bi)	ug/L	<0.0050	<0.0050	8832435	0.0080	<0.0050	<0.0050	0.0050	8832435
Total Boron (B)	ug/L	<10	<10	8832435	<10	<10	<10	10	8832435
Total Cadmium (Cd)	ug/L	0.0270	0.0060	8832435	0.0070	0.0160	<0.0050	0.0050	8832435
Total Chromium (Cr)	ug/L	0.24	0.13	8832435	0.15	0.24	0.15	0.10	8832435
Total Cobalt (Co)	ug/L	0.0800	0.0340	8832435	0.0460	0.0320	<0.0050	0.0050	8832435
Total Copper (Cu)	ug/L	0.747	1.35	8832435	1.27	1.47	<0.050	0.050	8832435
Total Iron (Fe)	ug/L	111	24.6	8832435	28.5	17.8	11.6 (1)	1.0	8832435
Total Lead (Pb)	ug/L	0.0710	0.0070	8832435	0.0140	0.0070	<0.0050	0.0050	8832435
Total Lithium (Li)	ug/L	1.27	0.53	8832435	1.79	0.75	<0.50	0.50	8832435
Total Manganese (Mn)	ug/L	11.3	8.79	8832435	20.2	9.88	<0.050	0.050	8832435
Total Molybdenum (Mo)	ug/L	1.45	0.776	8832435	0.691	0.249	<0.050	0.050	8832435
Total Nickel (Ni)	ug/L	0.938	0.358	8832435	0.713	1.00	<0.020	0.020	8832435
Total Phosphorus (P)	ug/L	7.1	4.0	8832435	3.0	3.0	<2.0	2.0	8832435
Total Selenium (Se)	ug/L	0.283	0.123	8832435	0.110	0.082	<0.040	0.040	8832435
Total Silicon (Si)	ug/L	3170	4590	8832435	4860	5090	<50	50	8832435
Total Silver (Ag)	ug/L	<0.0050	<0.0050	8832435	<0.0050	<0.0050	<0.0050	0.0050	8832435
Total Strontium (Sr)	ug/L	134	587	8832435	225	132	<0.050	0.050	8832435
Total Thallium (Tl)	ug/L	0.0030	<0.0020	8832435	0.0030	0.0020	<0.0020	0.0020	8832435
Total Tin (Sn)	ug/L	<0.20	<0.20	8832435	<0.20	<0.20	<0.20	0.20	8832435
Total Titanium (Ti)	ug/L	2.52	<0.50	8832435	<0.50	0.56	<0.50	0.50	8832435
Total Uranium (U)	ug/L	1.14	4.64	8832435	19.6	0.571	<0.0020	0.0020	8832435

RDL = Reportable Detection Limit

(1) Duplicate RPD for (Iron) above control limit - (10% of analytes failure allowed).

Maxxam Job #: B7A1648
Report Date: 2017/11/27

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		SM3073	SM3074		SM3087	SM3088	SM3090		
Sampling Date		2017/11/12 09:30	2017/11/11 09:35		2017/11/11 10:25		2017/11/11 19:00		
COC Number		540800-03-01	540800-03-01		540800-04-01	540800-04-01	540800-04-01		
	UNITS	YUK-5.0	Ballarat U/S Y.R.	QC Batch	Latte Mix	Sample A	FIELD BLANK	RDL	QC Batch
Total Vanadium (V)	ug/L	0.45	0.31	8832435	0.27	0.21	<0.20	0.20	8832435
Total Zinc (Zn)	ug/L	1.77	0.25	8832435	0.58	0.47	<0.10	0.10	8832435
Total Zirconium (Zr)	ug/L	<0.10	0.14	8832435	0.21	0.41	<0.10	0.10	8832435
Total Calcium (Ca)	mg/L	26.0	72.6	8830952	37.0	23.4	<0.050	0.050	8830952
Total Magnesium (Mg)	mg/L	7.18	29.8	8830952	13.8	7.65	<0.050	0.050	8830952
Total Potassium (K)	mg/L	0.894	2.89	8830952	1.63	1.21	<0.050	0.050	8830952
Total Sodium (Na)	mg/L	2.33	8.60	8830952	5.96	3.86	<0.050	0.050	8830952
Total Sulphur (S)	mg/L	5.8	55.1	8830952	27.1	15.6	<3.0	3.0	8830952
RDL = Reportable Detection Limit									

Maxxam Job #: B7A1648
Report Date: 2017/11/27

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		SM3090			SM3091			SM3091		
Sampling Date		2017/11/11 19:00			2017/11/15			2017/11/15		
COC Number		540800-04-01			540800-04-01			540800-04-01		
	UNITS	FIELD BLANK Lab-Dup	RDL	QC Batch	TRIP BLANK	RDL	QC Batch	TRIP BLANK Lab-Dup	RDL	QC Batch

Calculated Parameters

Total Hardness (CaCO3)	mg/L				<0.50	0.50	8830340			
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Elements

Total Mercury (Hg)	ug/L				<0.0020	0.0020	8835353			
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Total Metals by ICPMS

Total Aluminum (Al)	ug/L	<0.50	0.50	8832435	<0.50	0.50	8832435	<0.50	0.50	8832435
Total Antimony (Sb)	ug/L	<0.020	0.020	8832435	<0.020	0.020	8832435	<0.020	0.020	8832435
Total Arsenic (As)	ug/L	0.024	0.020	8832435	<0.020	0.020	8832435	<0.020	0.020	8832435
Total Barium (Ba)	ug/L	<0.020	0.020	8832435	0.030	0.020	8832435	0.026	0.020	8832435
Total Beryllium (Be)	ug/L	<0.010	0.010	8832435	<0.010	0.010	8832435	<0.010	0.010	8832435
Total Bismuth (Bi)	ug/L	<0.0050	0.0050	8832435	<0.0050	0.0050	8832435	<0.0050	0.0050	8832435
Total Boron (B)	ug/L	<10	10	8832435	<10	10	8832435	<10	10	8832435
Total Cadmium (Cd)	ug/L	<0.0050	0.0050	8832435	<0.0050	0.0050	8832435	<0.0050	0.0050	8832435
Total Chromium (Cr)	ug/L	<0.10	0.10	8832435	<0.10	0.10	8832435	<0.10	0.10	8832435
Total Cobalt (Co)	ug/L	<0.0050	0.0050	8832435	<0.0050	0.0050	8832435	<0.0050	0.0050	8832435
Total Copper (Cu)	ug/L	<0.050	0.050	8832435	<0.050	0.050	8832435	<0.050	0.050	8832435
Total Iron (Fe)	ug/L	8.8 (1)	1.0	8832435	<1.0	1.0	8832435	<1.0	1.0	8832435
Total Lead (Pb)	ug/L	<0.0050	0.0050	8832435	<0.0050	0.0050	8832435	<0.0050	0.0050	8832435
Total Lithium (Li)	ug/L	<0.50	0.50	8832435	<0.50	0.50	8832435	<0.50	0.50	8832435
Total Manganese (Mn)	ug/L	<0.050	0.050	8832435	<0.050	0.050	8832435	<0.050	0.050	8832435
Total Molybdenum (Mo)	ug/L	<0.050	0.050	8832435	<0.050	0.050	8832435	<0.050	0.050	8832435
Total Nickel (Ni)	ug/L	<0.020	0.020	8832435	<0.020	0.020	8832435	<0.020	0.020	8832435
Total Phosphorus (P)	ug/L	<2.0	2.0	8832435	<2.0	2.0	8832435	<2.0	2.0	8832435
Total Selenium (Se)	ug/L	<0.040	0.040	8832435	<0.040	0.040	8832435	<0.040	0.040	8832435
Total Silicon (Si)	ug/L	<50	50	8832435	<50	50	8832435	<50	50	8832435
Total Silver (Ag)	ug/L	<0.0050	0.0050	8832435	<0.0050	0.0050	8832435	<0.0050	0.0050	8832435
Total Strontium (Sr)	ug/L	<0.050	0.050	8832435	<0.050	0.050	8832435	<0.050	0.050	8832435
Total Thallium (Tl)	ug/L	<0.0020	0.0020	8832435	<0.0020	0.0020	8832435	<0.0020	0.0020	8832435
Total Tin (Sn)	ug/L	<0.20	0.20	8832435	<0.20	0.20	8832435	<0.20	0.20	8832435
Total Titanium (Ti)	ug/L	<0.50	0.50	8832435	<0.50	0.50	8832435	<0.50	0.50	8832435

RDL = Reportable Detection Limit

Lab-Dup = Laboratory Initiated Duplicate

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

Maxxam Job #: B7A1648
Report Date: 2017/11/27

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		SM3090			SM3091			SM3091		
Sampling Date		2017/11/11 19:00			2017/11/15			2017/11/15		
COC Number		540800-04-01			540800-04-01			540800-04-01		
	UNITS	FIELD BLANK Lab-Dup	RDL	QC Batch	TRIP BLANK	RDL	QC Batch	TRIP BLANK Lab-Dup	RDL	QC Batch
Total Uranium (U)	ug/L	<0.0020	0.0020	8832435	<0.0020	0.0020	8832435	<0.0020	0.0020	8832435
Total Vanadium (V)	ug/L	<0.20	0.20	8832435	<0.20	0.20	8832435	<0.20	0.20	8832435
Total Zinc (Zn)	ug/L	<0.10	0.10	8832435	<0.10	0.10	8832435	<0.10	0.10	8832435
Total Zirconium (Zr)	ug/L	<0.10	0.10	8832435	<0.10	0.10	8832435	<0.10	0.10	8832435
Total Calcium (Ca)	mg/L				<0.050	0.050	8830952			
Total Magnesium (Mg)	mg/L				<0.050	0.050	8830952			
Total Potassium (K)	mg/L				<0.050	0.050	8830952			
Total Sodium (Na)	mg/L				<0.050	0.050	8830952			
Total Sulphur (S)	mg/L				<3.0	3.0	8830952			
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B7A1648
Report Date: 2017/11/27

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		SM3075			SM3075			SM3076		
Sampling Date		2017/11/11 12:55			2017/11/11 12:55			2017/11/11 11:50		
COC Number		540800-03-01			540800-03-01			540800-03-01		
	UNITS	Barker U/S S.R.	RDL	QC Batch	Barker U/S S.R. Lab-Dup	RDL	QC Batch	Blackhills U/S S.R.	RDL	QC Batch

Calculated Parameters

Total Hardness (CaCO3)	mg/L	232	0.50	8830340				248	0.50	8830340
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Elements

Total Mercury (Hg)	ug/L	<0.0020	0.0020	8833205				<0.0020	0.0020	8833205
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Total Metals by ICPMS

Total Aluminum (Al)	ug/L	80.1	3.0	8833960	76.8	3.0	8833960	89.4	3.0	8833960
Total Antimony (Sb)	ug/L	0.081	0.020	8833960	0.080	0.020	8833960	0.115	0.020	8833960
Total Arsenic (As)	ug/L	0.462	0.020	8833960	0.467	0.020	8833960	0.819	0.020	8833960
Total Barium (Ba)	ug/L	102	0.050	8833960	100	0.050	8833960	108	0.050	8833960
Total Beryllium (Be)	ug/L	<0.010	0.010	8833960	<0.010	0.010	8833960	0.011	0.010	8833960
Total Bismuth (Bi)	ug/L	<0.010	0.010	8833960	<0.010	0.010	8833960	<0.010	0.010	8833960
Total Boron (B)	ug/L	<10	10	8833960	<10	10	8833960	14	10	8833960
Total Cadmium (Cd)	ug/L	0.0253	0.0050	8833960	0.0271	0.0050	8833960	0.0183	0.0050	8833960
Total Chromium (Cr)	ug/L	0.46	0.10	8833960	0.48	0.10	8833960	0.43	0.10	8833960
Total Cobalt (Co)	ug/L	0.324	0.010	8833960	0.331	0.010	8833960	0.640	0.010	8833960
Total Copper (Cu)	ug/L	2.44	0.10	8833960	2.41	0.10	8833960	2.20	0.10	8833960
Total Iron (Fe)	ug/L	263	5.0	8833960	251	5.0	8833960	693	5.0	8833960
Total Lead (Pb)	ug/L	0.057	0.020	8833960	0.057	0.020	8833960	0.111	0.020	8833960
Total Lithium (Li)	ug/L	2.07	0.50	8833960	2.06	0.50	8833960	3.27	0.50	8833960
Total Manganese (Mn)	ug/L	191	0.10	8833960	190	0.10	8833960	335	0.10	8833960
Total Molybdenum (Mo)	ug/L	0.669	0.050	8833960	0.725	0.050	8833960	0.969	0.050	8833960
Total Nickel (Ni)	ug/L	1.66	0.10	8833960	1.75	0.10	8833960	2.80	0.10	8833960
Total Phosphorus (P)	ug/L	7.5	5.0	8833960	11.0	5.0	8833960	9.9	5.0	8833960
Total Selenium (Se)	ug/L	0.148	0.040	8833960	0.173	0.040	8833960	0.224	0.040	8833960
Total Silicon (Si)	ug/L	5900	50	8833960	5960	50	8833960	7640	50	8833960
Total Silver (Ag)	ug/L	<0.010	0.010	8833960	<0.010	0.010	8833960	<0.010	0.010	8833960
Total Strontium (Sr)	ug/L	354	0.050	8833960	357	0.050	8833960	298	0.050	8833960
Total Thallium (Tl)	ug/L	0.0034	0.0020	8833960	0.0035	0.0020	8833960	0.0028	0.0020	8833960
Total Tin (Sn)	ug/L	<0.20	0.20	8833960	<0.20	0.20	8833960	<0.20	0.20	8833960
Total Titanium (Ti)	ug/L	2.7	2.0	8833960	2.7	2.0	8833960	5.0	2.0	8833960
Total Uranium (U)	ug/L	3.24	0.0050	8833960	3.26	0.0050	8833960	2.34	0.0050	8833960

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Maxxam Job #: B7A1648
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LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
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LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		SM3075			SM3075			SM3076		
Sampling Date		2017/11/11 12:55			2017/11/11 12:55			2017/11/11 11:50		
COC Number		540800-03-01			540800-03-01			540800-03-01		
	UNITS	Barker U/S S.R.	RDL	QC Batch	Barker U/S S.R. Lab-Dup	RDL	QC Batch	Blackhills U/S S.R.	RDL	QC Batch
Total Vanadium (V)	ug/L	0.69	0.20	8833960	0.69	0.20	8833960	0.91	0.20	8833960
Total Zinc (Zn)	ug/L	<1.0	1.0	8833960	<1.0	1.0	8833960	<1.0	1.0	8833960
Total Zirconium (Zr)	ug/L	0.33	0.10	8833960	0.31	0.10	8833960	0.44	0.10	8833960
Total Calcium (Ca)	mg/L	58.1	0.25	8830952				66.9	0.25	8830952
Total Magnesium (Mg)	mg/L	21.1	0.25	8830952				19.6	0.25	8830952
Total Potassium (K)	mg/L	2.32	0.25	8830952				2.57	0.25	8830952
Total Sodium (Na)	mg/L	9.42	0.25	8830952				8.46	0.25	8830952
Total Sulphur (S)	mg/L	33.9	3.0	8830952				33.0	3.0	8830952
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

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LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		SM3077			SM3077		
Sampling Date		2017/11/11 12:00			2017/11/11 12:00		
COC Number		540800-03-01			540800-03-01		
	UNITS	MaisyMay U/S S.R.	RDL	QC Batch	MaisyMay U/S S.R. Lab-Dup	RDL	QC Batch
Calculated Parameters							
Total Hardness (CaCO3)	mg/L	370	0.50	8830340			
Elements							
Total Mercury (Hg)	ug/L	<0.0020	0.0020	8833205			
Total Metals by ICPMS							
Total Aluminum (Al)	ug/L	312	3.0	8835565	296	3.0	8835565
Total Antimony (Sb)	ug/L	0.083	0.020	8835565	0.084	0.020	8835565
Total Arsenic (As)	ug/L	0.758	0.020	8835565	0.761	0.020	8835565
Total Barium (Ba)	ug/L	108	0.050	8835565	108	0.050	8835565
Total Beryllium (Be)	ug/L	0.015	0.010	8835565	0.014	0.010	8835565
Total Bismuth (Bi)	ug/L	<0.010	0.010	8835565	<0.010	0.010	8835565
Total Boron (B)	ug/L	14	10	8835565	11	10	8835565
Total Cadmium (Cd)	ug/L	0.0258	0.0050	8835565	0.0282	0.0050	8835565
Total Chromium (Cr)	ug/L	1.14	0.10	8835565	1.13	0.10	8835565
Total Cobalt (Co)	ug/L	0.674	0.010	8835565	0.653	0.010	8835565
Total Copper (Cu)	ug/L	2.56	0.10	8835565	2.52	0.10	8835565
Total Iron (Fe)	ug/L	986	5.0	8835565	956	5.0	8835565
Total Lead (Pb)	ug/L	0.381	0.020	8835565	0.368	0.020	8835565
Total Lithium (Li)	ug/L	3.96	0.50	8835565	3.84	0.50	8835565
Total Manganese (Mn)	ug/L	473	0.10	8835565	475	0.10	8835565
Total Molybdenum (Mo)	ug/L	1.30	0.050	8835565	1.26	0.050	8835565
Total Nickel (Ni)	ug/L	3.23	0.10	8835565	3.14	0.10	8835565
Total Phosphorus (P)	ug/L	14.7	5.0	8835565	15.3	5.0	8835565
Total Selenium (Se)	ug/L	0.426	0.040	8835565	0.415	0.040	8835565
Total Silicon (Si)	ug/L	7160	50	8835565	7130	50	8835565
Total Silver (Ag)	ug/L	0.014	0.010	8835565	0.015	0.010	8835565
Total Strontium (Sr)	ug/L	344	0.050	8835565	346	0.050	8835565
Total Thallium (Tl)	ug/L	0.0084	0.0020	8835565	0.0092	0.0020	8835565
Total Tin (Sn)	ug/L	<0.20	0.20	8835565	<0.20	0.20	8835565
Total Titanium (Ti)	ug/L	17.0	2.0	8835565	16.3	2.0	8835565
Total Uranium (U)	ug/L	3.32	0.0050	8835565	3.35	0.0050	8835565
RDL = Reportable Detection Limit							
Lab-Dup = Laboratory Initiated Duplicate							

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LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		SM3077			SM3077		
Sampling Date		2017/11/11 12:00			2017/11/11 12:00		
COC Number		540800-03-01			540800-03-01		
	UNITS	MaisyMay U/S S.R.	RDL	QC Batch	MaisyMay U/S S.R. Lab-Dup	RDL	QC Batch
Total Vanadium (V)	ug/L	2.04	0.20	8835565	2.08	0.20	8835565
Total Zinc (Zn)	ug/L	2.8	1.0	8835565	2.6	1.0	8835565
Total Zirconium (Zr)	ug/L	0.24	0.10	8835565	0.25	0.10	8835565
Total Calcium (Ca)	mg/L	88.8	0.25	8830952			
Total Magnesium (Mg)	mg/L	36.0	0.25	8830952			
Total Potassium (K)	mg/L	3.68	0.25	8830952			
Total Sodium (Na)	mg/L	8.03	0.25	8830952			
Total Sulphur (S)	mg/L	57.2	3.0	8830952			
RDL = Reportable Detection Limit							
Lab-Dup = Laboratory Initiated Duplicate							

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LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		SM3086			SM3086			SM3089		
Sampling Date		2017/11/11 12:35			2017/11/11 12:35					
COC Number		540800-04-01			540800-04-01			540800-04-01		
	UNITS	Stewart D/S M.M.	RDL	QC Batch	Stewart D/S M.M. Lab-Dup	RDL	QC Batch	Sample C	RDL	QC Batch

Calculated Parameters										
Total Hardness (CaCO3)	mg/L	285	0.50	8830340				365	0.50	8830340
Elements										
Total Mercury (Hg)	ug/L	<0.0020	0.0020	8833205	<0.0020	0.0020	8833205	<0.0020	0.0020	8835353
Total Metals by ICPMS										
Total Aluminum (Al)	ug/L	694	3.0	8836949				317	3.0	8836949
Total Antimony (Sb)	ug/L	0.266	0.020	8836949				0.099	0.020	8836949
Total Arsenic (As)	ug/L	1.78	0.020	8836949				0.806	0.020	8836949
Total Barium (Ba)	ug/L	130	0.050	8836949				114	0.050	8836949
Total Beryllium (Be)	ug/L	0.042	0.010	8836949				0.024	0.010	8836949
Total Bismuth (Bi)	ug/L	0.019	0.010	8836949				<0.010	0.010	8836949
Total Boron (B)	ug/L	<10	10	8836949				<10	10	8836949
Total Cadmium (Cd)	ug/L	0.354	0.0050	8836949				0.0289	0.0050	8836949
Total Chromium (Cr)	ug/L	1.09	0.10	8836949				1.22	0.10	8836949
Total Cobalt (Co)	ug/L	0.909	0.010	8836949				0.687	0.010	8836949
Total Copper (Cu)	ug/L	3.50	0.10	8836949				2.70	0.10	8836949
Total Iron (Fe)	ug/L	1630	5.0	8836949				1070	5.0	8836949
Total Lead (Pb)	ug/L	1.01	0.020	8836949				0.376	0.020	8836949
Total Lithium (Li)	ug/L	6.25	0.50	8836949				4.16	0.50	8836949
Total Manganese (Mn)	ug/L	75.6	0.10	8836949				476	0.10	8836949
Total Molybdenum (Mo)	ug/L	0.931	0.050	8836949				1.37	0.050	8836949
Total Nickel (Ni)	ug/L	9.82	0.10	8836949				3.31	0.10	8836949
Total Phosphorus (P)	ug/L	61.5	5.0	8836949				18.8	5.0	8836949
Total Selenium (Se)	ug/L	1.22	0.040	8836949				0.460	0.040	8836949
Total Silicon (Si)	ug/L	4440	50	8836949				7210	50	8836949
Total Silver (Ag)	ug/L	0.023	0.010	8836949				0.014	0.010	8836949
Total Strontium (Sr)	ug/L	338	0.050	8836949				345	0.050	8836949
Total Thallium (Tl)	ug/L	0.0145	0.0020	8836949				0.0085	0.0020	8836949
Total Tin (Sn)	ug/L	<0.20	0.20	8836949				<0.20	0.20	8836949
Total Titanium (Ti)	ug/L	12.8	2.0	8836949				17.1	2.0	8836949
Total Uranium (U)	ug/L	1.76	0.0050	8836949				3.32	0.0050	8836949

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

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LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		SM3086			SM3086			SM3089		
Sampling Date		2017/11/11 12:35			2017/11/11 12:35					
COC Number		540800-04-01			540800-04-01			540800-04-01		
	UNITS	Stewart D/S M.M.	RDL	QC Batch	Stewart D/S M.M. Lab-Dup	RDL	QC Batch	Sample C	RDL	QC Batch
Total Vanadium (V)	ug/L	1.91	0.20	8836949				2.16	0.20	8836949
Total Zinc (Zn)	ug/L	32.0	1.0	8836949				2.7	1.0	8836949
Total Zirconium (Zr)	ug/L	<0.10	0.10	8836949				0.23	0.10	8836949
Total Calcium (Ca)	mg/L	72.8	0.25	8830952				86.1	0.25	8830952
Total Magnesium (Mg)	mg/L	25.0	0.25	8830952				36.5	0.25	8830952
Total Potassium (K)	mg/L	0.95	0.25	8830952				3.84	0.25	8830952
Total Sodium (Na)	mg/L	3.32	0.25	8830952				8.27	0.25	8830952
Total Sulphur (S)	mg/L	44.2	3.0	8830952				60.3	3.0	8830952

RDL = Reportable Detection Limit

Lab-Dup = Laboratory Initiated Duplicate

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LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		SM3089		
Sampling Date				
COC Number		540800-04-01		
	UNITS	Sample C Lab-Dup	RDL	QC Batch
Total Metals by ICPMS				
Total Aluminum (Al)	ug/L	269	3.0	8836949
Total Antimony (Sb)	ug/L	0.103	0.020	8836949
Total Arsenic (As)	ug/L	0.766	0.020	8836949
Total Barium (Ba)	ug/L	112	0.050	8836949
Total Beryllium (Be)	ug/L	0.012	0.010	8836949
Total Bismuth (Bi)	ug/L	<0.010	0.010	8836949
Total Boron (B)	ug/L	<10	10	8836949
Total Cadmium (Cd)	ug/L	0.0280	0.0050	8836949
Total Chromium (Cr)	ug/L	1.04	0.10	8836949
Total Cobalt (Co)	ug/L	0.616	0.010	8836949
Total Copper (Cu)	ug/L	2.47	0.10	8836949
Total Iron (Fe)	ug/L	1020	5.0	8836949
Total Lead (Pb)	ug/L	0.325	0.020	8836949
Total Lithium (Li)	ug/L	4.09	0.50	8836949
Total Manganese (Mn)	ug/L	462	0.10	8836949
Total Molybdenum (Mo)	ug/L	1.40	0.050	8836949
Total Nickel (Ni)	ug/L	3.16	0.10	8836949
Total Phosphorus (P)	ug/L	13.3	5.0	8836949
Total Selenium (Se)	ug/L	0.443	0.040	8836949
Total Silicon (Si)	ug/L	7230	50	8836949
Total Silver (Ag)	ug/L	0.011	0.010	8836949
Total Strontium (Sr)	ug/L	341	0.050	8836949
Total Thallium (Tl)	ug/L	0.0087	0.0020	8836949
Total Tin (Sn)	ug/L	<0.20	0.20	8836949
Total Titanium (Ti)	ug/L	14.2	2.0	8836949
Total Uranium (U)	ug/L	3.29	0.0050	8836949
Total Vanadium (V)	ug/L	1.94	0.20	8836949
Total Zinc (Zn)	ug/L	2.4	1.0	8836949
RDL = Reportable Detection Limit				
Lab-Dup = Laboratory Initiated Duplicate				

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LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		SM3089		
Sampling Date				
COC Number		540800-04-01		
	UNITS	Sample C Lab-Dup	RDL	QC Batch
Total Zirconium (Zr)	ug/L	0.23	0.10	8836949
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate				

GENERAL COMMENTS

Sample SM3058 [CC-0.5] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SM3059 [CC-1.0] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SM3060 [CC-1.5] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SM3061 [CC-3.5] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SM3062 [CC-4.5] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SM3063 [CC-A] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SM3064 [CC-B] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SM3065 [CC-C] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SM3066 [CC-X] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SM3068 [HC-2.5] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SM3069 [HC-C] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SM3070 [IC-0.5] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SM3071 [IC-1.5] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SM3072 [IC-4.5] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for

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Nitrite (N) (low level).

Sample SM3073 [YUK-5.0] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SM3074 [Ballarat U/S Y.R.] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SM3075 [Barker U/S S.R.] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SM3076 [Blackhills U/S S.R.] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SM3077 [MaisyMay U/S S.R.] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SM3086 [Stewart D/S M.M.] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SM3087 [Latte Mix] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SM3090 [FIELD BLANK] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SM3090, Elements by ICPMS Low Level (dissolved): Test repeated.

Results relate only to the items tested.

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QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8831318	Total Ammonia (N)	2017/11/16			100	80 - 120	<0.0050	mg/L		
8831744	ORP	2017/11/17							0.094	20
8831795	Total Ammonia (N)	2017/11/16	100	80 - 120	98	80 - 120	<0.0050	mg/L	NC	20
8831903	Total Suspended Solids	2017/11/17			99	80 - 120	<1.0	mg/L		
8831916	Total Suspended Solids	2017/11/17			101	80 - 120	<1.0	mg/L		
8832181	Total Dissolved Solids	2017/11/17	101	80 - 120	94	80 - 120	<10	mg/L	2.5	20
8832215	Total Dissolved Solids	2017/11/17	99	80 - 120	92	80 - 120	<10	mg/L	5.7	20
8832435	Total Aluminum (Al)	2017/11/17	103	80 - 120	103	80 - 120	<0.50	ug/L	NC	20
8832435	Total Antimony (Sb)	2017/11/17	98	80 - 120	95	80 - 120	<0.020	ug/L	NC	20
8832435	Total Arsenic (As)	2017/11/17	100	80 - 120	99	80 - 120	<0.020	ug/L	NC	20
8832435	Total Barium (Ba)	2017/11/17	NC	80 - 120	98	80 - 120	<0.020	ug/L	14	20
8832435	Total Beryllium (Be)	2017/11/17	98	80 - 120	95	80 - 120	<0.010	ug/L	NC	20
8832435	Total Bismuth (Bi)	2017/11/17	96	80 - 120	95	80 - 120	<0.0050	ug/L	NC	20
8832435	Total Boron (B)	2017/11/17	94	80 - 120	93	80 - 120	<10	ug/L	NC	20
8832435	Total Cadmium (Cd)	2017/11/17	96	80 - 120	95	80 - 120	<0.0050	ug/L	NC	20
8832435	Total Chromium (Cr)	2017/11/17	99	80 - 120	103	80 - 120	<0.10	ug/L	NC	20
8832435	Total Cobalt (Co)	2017/11/17	96	80 - 120	98	80 - 120	<0.0050	ug/L	NC	20
8832435	Total Copper (Cu)	2017/11/17	96	80 - 120	101	80 - 120	<0.050	ug/L	NC	20
8832435	Total Iron (Fe)	2017/11/17	102	80 - 120	97	80 - 120	<1.0	ug/L	NC	20
8832435	Total Lead (Pb)	2017/11/17	97	80 - 120	95	80 - 120	<0.0050	ug/L	NC	20
8832435	Total Lithium (Li)	2017/11/17	93	80 - 120	96	80 - 120	<0.50	ug/L	NC	20
8832435	Total Manganese (Mn)	2017/11/17	NC	80 - 120	101	80 - 120	<0.050	ug/L	NC	20
8832435	Total Molybdenum (Mo)	2017/11/17	103	80 - 120	97	80 - 120	<0.050	ug/L	NC	20
8832435	Total Nickel (Ni)	2017/11/17	97	80 - 120	102	80 - 120	<0.020	ug/L	NC	20
8832435	Total Phosphorus (P)	2017/11/17					<2.0	ug/L	NC	20
8832435	Total Selenium (Se)	2017/11/17	100	80 - 120	101	80 - 120	<0.040	ug/L	NC	20
8832435	Total Silicon (Si)	2017/11/17					<50	ug/L	NC	20
8832435	Total Silver (Ag)	2017/11/17	104	80 - 120	104	80 - 120	<0.0050	ug/L	NC	20
8832435	Total Strontium (Sr)	2017/11/17	NC	80 - 120	97	80 - 120	<0.050	ug/L	NC	20
8832435	Total Thallium (Tl)	2017/11/17	95	80 - 120	93	80 - 120	<0.0020	ug/L	NC	20
8832435	Total Tin (Sn)	2017/11/17	96	80 - 120	93	80 - 120	<0.20	ug/L	NC	20

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QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8832435	Total Titanium (Ti)	2017/11/17	90	80 - 120	102	80 - 120	<0.50	ug/L	NC	20
8832435	Total Uranium (U)	2017/11/17	NC	80 - 120	95	80 - 120	<0.0020	ug/L	NC	20
8832435	Total Vanadium (V)	2017/11/17	99	80 - 120	101	80 - 120	<0.20	ug/L	NC	20
8832435	Total Zinc (Zn)	2017/11/17	105	80 - 120	104	80 - 120	<0.10	ug/L	NC	20
8832435	Total Zirconium (Zr)	2017/11/17	91	80 - 120	97	80 - 120	<0.10	ug/L	NC	20
8832709	Dissolved Chloride (Cl)	2017/11/16	115	80 - 120	98	80 - 120	<0.50	mg/L	4.5	20
8832710	Dissolved Sulphate (SO4)	2017/11/16	NC	80 - 120	97	80 - 120	<0.50	mg/L	0.31	20
8832715	Dissolved Chloride (Cl)	2017/11/16	115	80 - 120	99	80 - 120	<0.50	mg/L	NC	20
8832718	Dissolved Sulphate (SO4)	2017/11/16	115	80 - 120	97	80 - 120	0.60, RDL=0.50	mg/L	NC	20
8832725	Dissolved Chloride (Cl)	2017/11/16			100	80 - 120	<0.50	mg/L		
8832726	Dissolved Sulphate (SO4)	2017/11/16			97	80 - 120	<0.50	mg/L		
8833205	Total Mercury (Hg)	2017/11/17	98	80 - 120	94	80 - 120	<0.0020	ug/L	NC	20
8833233	Dissolved Aluminum (Al)	2017/11/18	98	80 - 120	107	80 - 120	<0.50	ug/L	3.9	20
8833233	Dissolved Antimony (Sb)	2017/11/18	101	80 - 120	105	80 - 120	<0.020	ug/L	1.7	20
8833233	Dissolved Arsenic (As)	2017/11/18	99	80 - 120	101	80 - 120	<0.020	ug/L	5.9	20
8833233	Dissolved Barium (Ba)	2017/11/18	NC	80 - 120	105	80 - 120	<0.020	ug/L	0.45	20
8833233	Dissolved Beryllium (Be)	2017/11/18	99	80 - 120	102	80 - 120	<0.010	ug/L	NC	20
8833233	Dissolved Bismuth (Bi)	2017/11/18	99	80 - 120	108	80 - 120	<0.0050	ug/L	NC	20
8833233	Dissolved Boron (B)	2017/11/18	91	80 - 120	97	80 - 120	<10	ug/L	NC	20
8833233	Dissolved Cadmium (Cd)	2017/11/18	98	80 - 120	104	80 - 120	<0.0050	ug/L	2.4	20
8833233	Dissolved Chromium (Cr)	2017/11/18	90	80 - 120	96	80 - 120	<0.10	ug/L	14	20
8833233	Dissolved Cobalt (Co)	2017/11/18	87	80 - 120	94	80 - 120	<0.0050	ug/L	14	20
8833233	Dissolved Copper (Cu)	2017/11/18	85	80 - 120	93	80 - 120	<0.050	ug/L	0.63	20
8833233	Dissolved Iron (Fe)	2017/11/18	90	80 - 120	96	80 - 120	<1.0	ug/L	0.46	20
8833233	Dissolved Lead (Pb)	2017/11/18	94	80 - 120	102	80 - 120	<0.0050	ug/L	NC	20
8833233	Dissolved Lithium (Li)	2017/11/18	102	80 - 120	107	80 - 120	<0.50	ug/L	0	20
8833233	Dissolved Manganese (Mn)	2017/11/18	NC	80 - 120	98	80 - 120	<0.050	ug/L	1.8	20
8833233	Dissolved Molybdenum (Mo)	2017/11/18	100	80 - 120	104	80 - 120	<0.050	ug/L	0.13	20
8833233	Dissolved Nickel (Ni)	2017/11/18	87	80 - 120	95	80 - 120	<0.020	ug/L	1.7	20
8833233	Dissolved Phosphorus (P)	2017/11/18					<2.0	ug/L	4.5	20
8833233	Dissolved Selenium (Se)	2017/11/18	100	80 - 120	106	80 - 120	<0.040	ug/L	11	20

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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8833233	Dissolved Silicon (Si)	2017/11/18					<50	ug/L	3.4	20
8833233	Dissolved Silver (Ag)	2017/11/18	108	80 - 120	113	80 - 120	<0.0050	ug/L	NC	20
8833233	Dissolved Strontium (Sr)	2017/11/18	NC	80 - 120	100	80 - 120	<0.050	ug/L	0.41	20
8833233	Dissolved Thallium (Tl)	2017/11/18	99	80 - 120	107	80 - 120	<0.0020	ug/L	NC	20
8833233	Dissolved Tin (Sn)	2017/11/18	95	80 - 120	105	80 - 120	<0.20	ug/L	NC	20
8833233	Dissolved Titanium (Ti)	2017/11/18	105	80 - 120	106	80 - 120	<0.50	ug/L	NC	20
8833233	Dissolved Uranium (U)	2017/11/18	NC	80 - 120	105	80 - 120	<0.0020	ug/L	0.025	20
8833233	Dissolved Vanadium (V)	2017/11/18	91	80 - 120	97	80 - 120	<0.20	ug/L	2.3	20
8833233	Dissolved Zinc (Zn)	2017/11/18	93	80 - 120	99	80 - 120	<0.10	ug/L	9.9	20
8833233	Dissolved Zirconium (Zr)	2017/11/18	99	80 - 120	98	80 - 120	<0.10	ug/L	5.1	20
8833274	Nitrate plus Nitrite (N)	2017/11/16	102	80 - 120	104	80 - 120	<0.0020	mg/L	4.8	25
8833279	Nitrate plus Nitrite (N)	2017/11/16	100	80 - 120	104	80 - 120	<0.0020	mg/L	0.67	25
8833283	Nitrite (N)	2017/11/16	99	80 - 120	101	80 - 120	<0.0020	mg/L	0	25
8833284	Nitrite (N)	2017/11/16	99	80 - 120	99	80 - 120	<0.0020	mg/L	NC	25
8833316	Dissolved Aluminum (Al)	2017/11/17	103	80 - 120	106	80 - 120	<0.50	ug/L	11	20
8833316	Dissolved Antimony (Sb)	2017/11/17	99	80 - 120	103	80 - 120	<0.020	ug/L	0.22	20
8833316	Dissolved Arsenic (As)	2017/11/17	98	80 - 120	102	80 - 120	<0.020	ug/L	3.3	20
8833316	Dissolved Barium (Ba)	2017/11/17	NC	80 - 120	106	80 - 120	<0.020	ug/L	0.64	20
8833316	Dissolved Beryllium (Be)	2017/11/17	98	80 - 120	100	80 - 120	<0.010	ug/L	NC	20
8833316	Dissolved Bismuth (Bi)	2017/11/17	100	80 - 120	106	80 - 120	<0.0050	ug/L	NC	20
8833316	Dissolved Boron (B)	2017/11/17	95	80 - 120	96	80 - 120	<10	ug/L	NC	20
8833316	Dissolved Cadmium (Cd)	2017/11/17	98	80 - 120	104	80 - 120	<0.0050	ug/L	NC	20
8833316	Dissolved Chromium (Cr)	2017/11/17	93	80 - 120	98	80 - 120	<0.10	ug/L	1.2	20
8833316	Dissolved Cobalt (Co)	2017/11/17	92	80 - 120	97	80 - 120	<0.0050	ug/L	11	20
8833316	Dissolved Copper (Cu)	2017/11/17	88	80 - 120	96	80 - 120	<0.050	ug/L	5.4	20
8833316	Dissolved Iron (Fe)	2017/11/17	93	80 - 120	100	80 - 120	<1.0	ug/L	7.1	20
8833316	Dissolved Lead (Pb)	2017/11/17	95	80 - 120	102	80 - 120	<0.0050	ug/L	3.2	20
8833316	Dissolved Lithium (Li)	2017/11/17	103	80 - 120	104	80 - 120	<0.50	ug/L	0.31	20
8833316	Dissolved Manganese (Mn)	2017/11/17	94	80 - 120	100	80 - 120	<0.050	ug/L	3.1	20
8833316	Dissolved Molybdenum (Mo)	2017/11/17	102	80 - 120	106	80 - 120	<0.050	ug/L	1.5	20
8833316	Dissolved Nickel (Ni)	2017/11/17	92	80 - 120	98	80 - 120	<0.020	ug/L	0.17	20

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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8833316	Dissolved Phosphorus (P)	2017/11/17					<2.0	ug/L		
8833316	Dissolved Selenium (Se)	2017/11/17	101	80 - 120	106	80 - 120	<0.040	ug/L	0.47	20
8833316	Dissolved Silicon (Si)	2017/11/17					<50	ug/L	1.3	20
8833316	Dissolved Silver (Ag)	2017/11/17	111	80 - 120	114	80 - 120	<0.0050	ug/L	NC	20
8833316	Dissolved Strontium (Sr)	2017/11/17	NC	80 - 120	101	80 - 120	<0.050	ug/L	2.0	20
8833316	Dissolved Thallium (Tl)	2017/11/17	102	80 - 120	105	80 - 120	<0.0020	ug/L	9.3	20
8833316	Dissolved Tin (Sn)	2017/11/17	NC	80 - 120	102	80 - 120	<0.20	ug/L	6.4	20
8833316	Dissolved Titanium (Ti)	2017/11/17	108	80 - 120	104	80 - 120	<0.50	ug/L	NC	20
8833316	Dissolved Uranium (U)	2017/11/17	98	80 - 120	103	80 - 120	<0.0020	ug/L	0.36	20
8833316	Dissolved Vanadium (V)	2017/11/17	96	80 - 120	98	80 - 120	<0.20	ug/L	NC	20
8833316	Dissolved Zinc (Zn)	2017/11/17	99	80 - 120	102	80 - 120	<0.10	ug/L	1.0	20
8833316	Dissolved Zirconium (Zr)	2017/11/17	97	80 - 120	100	80 - 120	<0.10	ug/L	NC	20
8833350	Total Dissolved Solids	2017/11/20	100	80 - 120	95	80 - 120	<10	mg/L	4.4	20
8833372	Fluoride (F)	2017/11/17	NC	80 - 120	104	80 - 120	0.016, RDL=0.010	mg/L	5.6	20
8833494	Dissolved Mercury (Hg)	2017/11/17	99	80 - 120	83	80 - 120	<0.0020	ug/L	5.4	20
8833938	Total Dissolved Solids	2017/11/20	99	80 - 120	103	80 - 120	<10	mg/L	2.2	20
8833960	Total Aluminum (Al)	2017/11/20	117	80 - 120	110	80 - 120	<3.0	ug/L	4.2	20
8833960	Total Antimony (Sb)	2017/11/20	107	80 - 120	103	80 - 120	<0.020	ug/L	1.7	20
8833960	Total Arsenic (As)	2017/11/20	110	80 - 120	104	80 - 120	<0.020	ug/L	1.1	20
8833960	Total Barium (Ba)	2017/11/20	NC	80 - 120	98	80 - 120	<0.050	ug/L	1.7	20
8833960	Total Beryllium (Be)	2017/11/20	102	80 - 120	99	80 - 120	<0.010	ug/L	NC	20
8833960	Total Bismuth (Bi)	2017/11/20	98	80 - 120	102	80 - 120	<0.010	ug/L	NC	20
8833960	Total Boron (B)	2017/11/20	99	80 - 120	97	80 - 120	<10	ug/L	NC	20
8833960	Total Cadmium (Cd)	2017/11/20	105	80 - 120	102	80 - 120	<0.0050	ug/L	6.9	20
8833960	Total Chromium (Cr)	2017/11/20	100	80 - 120	101	80 - 120	<0.10	ug/L	5.2	20
8833960	Total Cobalt (Co)	2017/11/20	98	80 - 120	103	80 - 120	<0.010	ug/L	1.9	20
8833960	Total Copper (Cu)	2017/11/20	95	80 - 120	102	80 - 120	<0.10	ug/L	1.0	20
8833960	Total Iron (Fe)	2017/11/20	NC	80 - 120	106	80 - 120	<5.0	ug/L	4.6	20
8833960	Total Lead (Pb)	2017/11/20	97	80 - 120	99	80 - 120	<0.020	ug/L	0.17	20
8833960	Total Lithium (Li)	2017/11/20	100	80 - 120	99	80 - 120	<0.50	ug/L	0.40	20

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QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8833960	Total Manganese (Mn)	2017/11/20	NC	80 - 120	104	80 - 120	<0.10	ug/L	0.30	20
8833960	Total Molybdenum (Mo)	2017/11/20	116	80 - 120	101	80 - 120	<0.050	ug/L	8.0	20
8833960	Total Nickel (Ni)	2017/11/20	99	80 - 120	103	80 - 120	<0.10	ug/L	5.3	20
8833960	Total Phosphorus (P)	2017/11/20					<5.0	ug/L	NC	20
8833960	Total Selenium (Se)	2017/11/20	113	80 - 120	104	80 - 120	<0.040	ug/L	16	20
8833960	Total Silicon (Si)	2017/11/20					<50	ug/L	1.0	20
8833960	Total Silver (Ag)	2017/11/20	107	80 - 120	110	80 - 120	<0.010	ug/L	NC	20
8833960	Total Strontium (Sr)	2017/11/20	NC	80 - 120	100	80 - 120	<0.050	ug/L	0.99	20
8833960	Total Thallium (Tl)	2017/11/20	104	80 - 120	101	80 - 120	<0.0020	ug/L	2.9	20
8833960	Total Tin (Sn)	2017/11/20	102	80 - 120	103	80 - 120	<0.20	ug/L	NC	20
8833960	Total Titanium (Ti)	2017/11/20	106	80 - 120	101	80 - 120	<2.0	ug/L	2.4	20
8833960	Total Uranium (U)	2017/11/20	103	80 - 120	100	80 - 120	<0.0050	ug/L	0.63	20
8833960	Total Vanadium (V)	2017/11/20	104	80 - 120	102	80 - 120	<0.20	ug/L	0.96	20
8833960	Total Zinc (Zn)	2017/11/20	109	80 - 120	103	80 - 120	<1.0	ug/L	NC	20
8833960	Total Zirconium (Zr)	2017/11/20	101	80 - 120	98	80 - 120	<0.10	ug/L	5.1	20
8833984	Fluoride (F)	2017/11/17	106	80 - 120	104	80 - 120	0.014, RDL=0.010	mg/L	0	20
8834226	pH	2017/11/18			102	97 - 103			0.20	20
8834234	Conductivity	2017/11/18			100	80 - 120	<1.0	uS/cm	0.99	20
8834236	Alkalinity (PP as CaCO3)	2017/11/18					<0.50	mg/L	NC	20
8834236	Alkalinity (Total as CaCO3)	2017/11/18	102	80 - 120	99	80 - 120	<0.50	mg/L	NC	20
8834236	Bicarbonate (HCO3)	2017/11/18					<0.50	mg/L	NC	20
8834236	Carbonate (CO3)	2017/11/18					<0.50	mg/L	NC	20
8834236	Hydroxide (OH)	2017/11/18					<0.50	mg/L	NC	20
8834238	pH	2017/11/18			101	97 - 103			0	20
8834239	Conductivity	2017/11/18			100	80 - 120	<1.0	uS/cm	0.64	20
8834240	Alkalinity (PP as CaCO3)	2017/11/18					<0.50	mg/L	NC	20
8834240	Alkalinity (Total as CaCO3)	2017/11/18	NC	80 - 120	98	80 - 120	<0.50	mg/L	0.13	20
8834240	Bicarbonate (HCO3)	2017/11/18					<0.50	mg/L	0.13	20
8834240	Carbonate (CO3)	2017/11/18					<0.50	mg/L	NC	20
8834240	Hydroxide (OH)	2017/11/18					<0.50	mg/L	NC	20

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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8834241	pH	2017/11/19			102	97 - 103			0.12	20
8834243	Conductivity	2017/11/19			100	80 - 120	<1.0	uS/cm		
8834245	Alkalinity (PP as CaCO3)	2017/11/19					<0.50	mg/L		
8834245	Alkalinity (Total as CaCO3)	2017/11/19			97	80 - 120	0.87, RDL=0.50	mg/L		
8834245	Bicarbonate (HCO3)	2017/11/19					1.06, RDL=0.50	mg/L		
8834245	Carbonate (CO3)	2017/11/19					<0.50	mg/L		
8834245	Hydroxide (OH)	2017/11/19					<0.50	mg/L		
8835353	Total Mercury (Hg)	2017/11/20	95	80 - 120	96	80 - 120	<0.0020	ug/L	NC	20
8835363	Dissolved Mercury (Hg)	2017/11/20	94	80 - 120	96	80 - 120	<0.0020	ug/L	NC	20
8835565	Total Aluminum (Al)	2017/11/21	NC	80 - 120	112	80 - 120	<3.0	ug/L	5.3	20
8835565	Total Antimony (Sb)	2017/11/21	104	80 - 120	102	80 - 120	<0.020	ug/L	0.72	20
8835565	Total Arsenic (As)	2017/11/21	106	80 - 120	100	80 - 120	<0.020	ug/L	0.47	20
8835565	Total Barium (Ba)	2017/11/21	NC	80 - 120	98	80 - 120	<0.050	ug/L	0.18	20
8835565	Total Beryllium (Be)	2017/11/21	99	80 - 120	97	80 - 120	<0.010	ug/L	8.9	20
8835565	Total Bismuth (Bi)	2017/11/21	99	80 - 120	102	80 - 120	<0.010	ug/L	NC	20
8835565	Total Boron (B)	2017/11/21	89	80 - 120	96	80 - 120	<10	ug/L	NC	20
8835565	Total Cadmium (Cd)	2017/11/21	104	80 - 120	102	80 - 120	<0.0050	ug/L	8.9	20
8835565	Total Chromium (Cr)	2017/11/21	97	80 - 120	101	80 - 120	<0.10	ug/L	1.3	20
8835565	Total Cobalt (Co)	2017/11/21	96	80 - 120	102	80 - 120	<0.010	ug/L	3.1	20
8835565	Total Copper (Cu)	2017/11/21	92	80 - 120	100	80 - 120	<0.10	ug/L	1.2	20
8835565	Total Iron (Fe)	2017/11/21	NC	80 - 120	107	80 - 120	<5.0	ug/L	3.1	20
8835565	Total Lead (Pb)	2017/11/21	96	80 - 120	100	80 - 120	<0.020	ug/L	3.4	20
8835565	Total Lithium (Li)	2017/11/21	96	80 - 120	95	80 - 120	<0.50	ug/L	3.2	20
8835565	Total Manganese (Mn)	2017/11/21	NC	80 - 120	105	80 - 120	<0.10	ug/L	0.46	20
8835565	Total Molybdenum (Mo)	2017/11/21	NC	80 - 120	105	80 - 120	<0.050	ug/L	2.5	20
8835565	Total Nickel (Ni)	2017/11/21	94	80 - 120	103	80 - 120	<0.10	ug/L	2.7	20
8835565	Total Phosphorus (P)	2017/11/21					<5.0	ug/L	4.0	20
8835565	Total Selenium (Se)	2017/11/21	108	80 - 120	104	80 - 120	<0.040	ug/L	2.6	20
8835565	Total Silicon (Si)	2017/11/21					<50	ug/L	0.43	20
8835565	Total Silver (Ag)	2017/11/21	109	80 - 120	108	80 - 120	<0.010	ug/L	8.1	20
8835565	Total Strontium (Sr)	2017/11/21	NC	80 - 120	99	80 - 120	<0.050	ug/L	0.65	20

Maxxam Job #: B7A1648
Report Date: 2017/11/27

QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8835565	Total Thallium (Tl)	2017/11/21	103	80 - 120	105	80 - 120	<0.0020	ug/L	9.1	20
8835565	Total Tin (Sn)	2017/11/21	104	80 - 120	98	80 - 120	<0.20	ug/L	NC	20
8835565	Total Titanium (Ti)	2017/11/21	NC	80 - 120	98	80 - 120	<2.0	ug/L	3.8	20
8835565	Total Uranium (U)	2017/11/21	104	80 - 120	100	80 - 120	<0.0050	ug/L	0.97	20
8835565	Total Vanadium (V)	2017/11/21	102	80 - 120	101	80 - 120	<0.20	ug/L	1.6	20
8835565	Total Zinc (Zn)	2017/11/21	99	80 - 120	107	80 - 120	<1.0	ug/L	7.0	20
8835565	Total Zirconium (Zr)	2017/11/21	101	80 - 120	96	80 - 120	<0.10	ug/L	5.9	20
8835955	Weak Acid Dissoc. Cyanide (CN)	2017/11/20	111	80 - 120	99	80 - 120	<0.00050	mg/L	NC	20
8836179	Total Organic Carbon (C)	2017/11/20	103	80 - 120	110	80 - 120	<0.50	mg/L	NC	20
8836181	Total Organic Carbon (C)	2017/11/20	98	80 - 120	106	80 - 120	<0.50	mg/L		
8836182	Total Organic Carbon (C)	2017/11/20	102	80 - 120	108	80 - 120	<0.50	mg/L	5.2	20
8836184	Dissolved Organic Carbon (C)	2017/11/20	106	80 - 120	108	80 - 120	<0.50	mg/L	13	20
8836643	Dissolved Sulphate (SO4)	2017/11/17			96	80 - 120	<0.50	mg/L		
8836944	Weak Acid Dissoc. Cyanide (CN)	2017/11/21			97	80 - 120	<0.00050	mg/L		
8836949	Total Aluminum (Al)	2017/11/22	NC	80 - 120	103	80 - 120	<3.0	ug/L	16	20
8836949	Total Antimony (Sb)	2017/11/22	103	80 - 120	99	80 - 120	<0.020	ug/L	3.4	20
8836949	Total Arsenic (As)	2017/11/22	110	80 - 120	98	80 - 120	<0.020	ug/L	5.1	20
8836949	Total Barium (Ba)	2017/11/22	NC	80 - 120	96	80 - 120	<0.050	ug/L	2.0	20
8836949	Total Beryllium (Be)	2017/11/22	101	80 - 120	92	80 - 120	<0.010	ug/L	NC	20
8836949	Total Bismuth (Bi)	2017/11/22	95	80 - 120	96	80 - 120	<0.010	ug/L	NC	20
8836949	Total Boron (B)	2017/11/22	101	80 - 120	92	80 - 120	<10	ug/L	NC	20
8836949	Total Cadmium (Cd)	2017/11/22	103	80 - 120	97	80 - 120	<0.0050	ug/L	3.2	20
8836949	Total Chromium (Cr)	2017/11/22	98	80 - 120	95	80 - 120	<0.10	ug/L	16	20
8836949	Total Cobalt (Co)	2017/11/22	97	80 - 120	97	80 - 120	<0.010	ug/L	11	20
8836949	Total Copper (Cu)	2017/11/22	95	80 - 120	96	80 - 120	<0.10	ug/L	8.7	20
8836949	Total Iron (Fe)	2017/11/22	NC	80 - 120	103	80 - 120	<5.0	ug/L	5.1	20
8836949	Total Lead (Pb)	2017/11/22	94	80 - 120	92	80 - 120	<0.020	ug/L	15	20
8836949	Total Lithium (Li)	2017/11/22	99	80 - 120	93	80 - 120	<0.50	ug/L	1.7	20
8836949	Total Manganese (Mn)	2017/11/22	NC	80 - 120	99	80 - 120	<0.10	ug/L	3.1	20
8836949	Total Molybdenum (Mo)	2017/11/22	NC	80 - 120	97	80 - 120	<0.050	ug/L	1.7	20
8836949	Total Nickel (Ni)	2017/11/22	96	80 - 120	98	80 - 120	<0.10	ug/L	4.6	20

Maxxam Job #: B7A1648
Report Date: 2017/11/27

QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8836949	Total Phosphorus (P)	2017/11/22					<5.0	ug/L	NC	20
8836949	Total Selenium (Se)	2017/11/22	113	80 - 120	103	80 - 120	<0.040	ug/L	3.8	20
8836949	Total Silicon (Si)	2017/11/22					<50	ug/L	0.31	20
8836949	Total Silver (Ag)	2017/11/22	108	80 - 120	104	80 - 120	<0.010	ug/L	NC	20
8836949	Total Strontium (Sr)	2017/11/22	NC	80 - 120	95	80 - 120	<0.050	ug/L	1.1	20
8836949	Total Thallium (Tl)	2017/11/22	98	80 - 120	95	80 - 120	<0.0020	ug/L	2.3	20
8836949	Total Tin (Sn)	2017/11/22	101	80 - 120	97	80 - 120	<0.20	ug/L	NC	20
8836949	Total Titanium (Ti)	2017/11/22	NC	80 - 120	95	80 - 120	<2.0	ug/L	19	20
8836949	Total Uranium (U)	2017/11/22	99	80 - 120	92	80 - 120	<0.0050	ug/L	1.1	20
8836949	Total Vanadium (V)	2017/11/22	104	80 - 120	96	80 - 120	<0.20	ug/L	11	20
8836949	Total Zinc (Zn)	2017/11/22	98	80 - 120	98	80 - 120	<1.0	ug/L	11	20
8836949	Total Zirconium (Zr)	2017/11/22	104	80 - 120	94	80 - 120	<0.10	ug/L	0.69	20
8837059	Dissolved Organic Carbon (C)	2017/11/21	101	80 - 120	108	80 - 120	<0.50	mg/L	0.96	20
8837062	Dissolved Organic Carbon (C)	2017/11/21	109	80 - 120	110	80 - 120	<0.50	mg/L	0.16	20
8837064	Dissolved Organic Carbon (C)	2017/11/21	113	80 - 120	114	80 - 120	<0.50	mg/L	18	20
8837065	Dissolved Organic Carbon (C)	2017/11/21	107	80 - 120	113	80 - 120	<0.50	mg/L	2.9	20
8838337	Dissolved Aluminum (Al)	2017/11/22			104	80 - 120	<0.50	ug/L		
8838880	Weak Acid Dissoc. Cyanide (CN)	2017/11/22	101	80 - 120	106	80 - 120	<0.00050	mg/L	NC	20
8844066	Total Organic Carbon (C)	2017/11/27	112	80 - 120	106	80 - 120	<0.50	mg/L	NC	20
8844067	Dissolved Organic Carbon (C)	2017/11/27	NC	80 - 120	106	80 - 120	<0.50	mg/L	6.6	20

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

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

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

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

Maxxam Job #: B7A1648
Report Date: 2017/11/27

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Andy Lu, Ph.D., P.Chem., Scientific Specialist

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

INVOICE TO:		Report Information			Project Information			Laboratory Use Only	
Company Name	#3604 LORAX ENVIRONMENTAL SERVICES LTD.	Company Name	David Flather		Quotation #	B40231		Maxxam Job #	Bottle Order #:
Contact Name	Aida Piaseczny	Contact Name	David Flather		P.O. #			540800	
Address	2289 BURRARD STREET VANCOUVER BC V6J 3H9	Address			Project #	Gold Corp Coffee Creek-SW		Chain Of Custody Record	Project Manager
Phone	(604) 688-7173 x	Phone			Project Name				Megan Smith
Email	aida.piaseczny@lorax.ca; shukling.ng@lorax.ca	Email	David.Flather@lorax.ca		Site #			C8540800-01-01	

Regulatory Criteria	Special Instructions	Analysis Requested										Turnaround Time (TAT) Required		
		Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	Routine (Alk, EC, pH, TDS)	TSS-Low Level	Anions (Cl, F, NO2, NO3, NH4, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	Please provide advance notice for rush projects	
<p>Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form</p> <p>Samples must be kept cool (< 10°C) from time of sampling until delivery to maxxam</p>													<p>Regular (Standard) TAT (will be applied if Rush TAT is not specified) Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.</p> <p>Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____ Rush Confirmation Number _____ (call lab for #)</p>	

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	Routine (Alk, EC, pH, TDS)	TSS-Low Level	Anions (Cl, F, NO2, NO3, NH4, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	# of Bottles	Comments
SID#162743	CC-0.5	Nov. 14/17	10:35	H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	RECEIVED IN WHITEHORSE
SID#162744	CC-1.0	Nov. 11/17	14:50	H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	BY: <i>shukling@1115</i>
SID#162745	CC-1.5	Nov. 11/17	15:20	H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	2017-11-1
SID#162746	CC-3.5	Nov. 11/17	11:00	H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	TEMP: -2 1-3 1-1
SID#162747	CC-4.5	Nov. 11/17	10:10	H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	-2 -1 -1
SID#162748	CC-A	Nov. 12/17	12:45	H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	-2 -1 -1
SID#149895	CC-B	Nov. 11/17	14:25	H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	-2 -1 0
SID#149896	CC-C	Nov. 11/17	16:00	H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	-3 -3 -4
SID#149897	CC-D																-2 -4 -2
SID#149898	CC-X	Nov. 11/17	10:00	H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	

RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Lab Use Only	
<i>Shukling</i>	Nov. 14	11:15	<i>Row Marie</i>	2017/11/15	14:15		Time Sensitive <input type="checkbox"/>	Temperature (°C) on Receipt: SPE ACTR
* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.							Custody Seal Intact on Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.							White Maxxam Yellow Client	





Maxxam Analytics International Corporation o/s Maxxam Analytics
 4606 Canada Way, Burnaby, British Columbia Canada V5G 1K5 Tel:(604) 734 7276 Toll-free:800-563-6266 Fax:(604) 731 2386 www.maxxam.ca

Chain Of Custody Record

INVOICE TO:		Report Information			Project Information			Laboratory Use Only	
Company Name	#3604 LORAX ENVIRONMENTAL SERVICES LTD.	Company Name	David Flather		Quotation #	B40231		Maxxam Job #	Bottle Order #:
Contact Name	Aida Piaseczny	Contact Name	David Flather		P.O. #			B7A1648	540800
Address	2289 BURRARD STREET VANCOUVER BC V6J 3H9	Address			Project #	Gold Corp Coffee Creek-SW			
Phone	(604) 688-7173 x Fax: (604) 688-7175 x	Phone			Project Name			Megan Smith	
Email	aida.piaseczny@lorax.ca; shukling.ng@lorax.ca	Email	David.Flather@lorax.ca		Site #				Rush Confirmation Number

Regulatory Criteria	Special Instructions	Analysis Requested											Turnaround Time (TAT) Required	
		Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	Routine (Alk, EC, pH, TDS)	TSS-Low Level	Anions (Cl, F, NO2, NO3, NH4, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	Please provide advance notice for rush projects	
<p>Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form</p> <p>Samples must be kept cool (< 10°C) from time of sampling until delivery to maxxam</p>													<p>Regular (Standard) TAT (will be applied if Rush TAT is not specified) Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dixisis/Furans are > 5 days - contact your Project Manager for details.</p> <p>Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____</p> <p>Rush Confirmation Number _____ (call lab for #)</p>	

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	Routine (Alk, EC, pH, TDS)	TSS-Low Level	Anions (Cl, F, NO2, NO3, NH4, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	# of Bottles	Comments
1 SID#149899	HC-2.5	Nov. 12/11	11:50	H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	RECEIVED IN WHITEHORSE
2 SID#149900	HC-5.0																BY: <i>Syano@1115</i>
3 SID#149901	HC-A																2017-11-14
4 SID#149902	HC-B																
5 SID#149903	HC-C	Nov. 12/11	11:40	H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	TEMP: -2 / -3 / -1
6 SID#149904	IC-0.5	Nov. 12/11	11:00	H2O	N	M	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	-2 -1 -1
7 SID#094856	IC-1.5	Nov. 12/11	10:45	H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	-2 -1 0
8 SID#17820	IC-2.5																-3 -3 -4
9 SID#17821	IC-3.0																-2 -4 -2
10 SID#17822	IC-4.5	Nov. 12/11	10:00	H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	

RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# Jars used and not submitted	Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
<i>Steve W...</i>	Nov. 14	11:15	<i>Ron Mar...</i>	2017/11/15	14:25		<input type="checkbox"/>	SEE ACT.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

White Maxxam Yellow Client



Maxxam Analytics International Corporation o/a Maxxam Analytics
 4606 Canada Way, Burnaby, British Columbia Canada V5G 1K5 Tel: (604) 734 7276 Toll-free: 800-563-6266 Fax: (604) 731 2386 www.maxxam.ca

Chain Of Custody Record

INVOICE TO:		Report Information			Project Information			Laboratory Use Only	
Company Name	#3604 LORAX ENVIRONMENTAL SERVICES LTD.	Company Name	David Flather	Quotation #	B40231		Maxxam Job #	B7A1648	
Contact Name	Aida Piaseczny	Contact Name	David Flather	P.O. #				540800	
Address	2289 BARRARD STREET VANCOUVER BC V6J 3H9	Address		Project #	Gold Corp Coffee Creek-SW		Chain Of Custody Record	Project Manager	
Phone	(604) 688-7173 x Fax: (604) 688-7175 x	Phone		Project Name				Megan Smith	
Email	aida.piaseczny@lorax.ca; shukling.ng@lorax.ca	Email	David.Flather@lorax.ca	Site #				C#540800-03-01	
				Sampled By					

Regulatory Criteria	Special Instructions	Analysis Requested	Turnaround Time (TAT) Required
		Regulated Drinking Water? (Y/N) <input type="checkbox"/> Metals Field Filtered? (Y/N) <input type="checkbox"/> Routine (Alk, EC, pH, TDS) <input type="checkbox"/> TSS-Low Level <input type="checkbox"/> Anions (Cl, F, NO2, NO3, NH4, SO4) <input type="checkbox"/> Cyanide - WAD <input type="checkbox"/> TOC <input type="checkbox"/> DOC <input type="checkbox"/> Low Level Dissolved Metals incl. CV Hg <input type="checkbox"/> Low Level Total Metals incl. CV Hg <input type="checkbox"/> ORP <input type="checkbox"/>	Please provide advance notice for rush projects Regular (Standard) TAT (will be applied if Rush TAT is not specified) Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details. Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____ Rush Confirmation Number _____ (call us for #)

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 10°C) from time of sampling until delivery to maxxam

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	Routine (Alk, EC, pH, TDS)	TSS-Low Level	Anions (Cl, F, NO2, NO3, NH4, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	# of Baffles	Comments
SID#176823	ML-1.0 (YT-24)																RECEIVED IN WHITEHORSE
SID#176824	ML-A																BY: <i>Shukling</i>
SID#176825	ML-B																2017-11-14
SID#178956	ML-C (YUK-24-2)																TEMP: -21-31-1
SID#178957	YUK-2.0																-2 -1 -1
SID#178958	YUK-5.0	Nov. 12/17	09:30	H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	-2 -1 -1
SID#178959	Ballarat U/S Y.R.	Nov. 11/17	09:35	H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	-2 -1 0
SID#178960	Barker U/S S.R.	Nov. 11/17	12:55	H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	-3 -3 -4
SID#178961	Blackhills U/S S.R.	Nov. 11/17	11:50	H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	-2 -4 -2
SID#178962	MaisyMay U/S S.R.	Nov. 11/17	12:00	H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	

RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# Jars used and not submitted	Lab Use Only
<i>[Signature]</i>	Nov. 14	11:15	<i>[Signature]</i>	2017/11/15	14:18		Time Sensitive <input type="checkbox"/> Temperature (°C) on Receipt SEE APP Custody Seal Intact on Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.
 * IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.



INVOICE TO:		Report Information			Project Information			Laboratory Use Only	
Company Name	#3604 LORAX ENVIRONMENTAL SERVICES LTD.	Company Name	David Flather		Quotation #	B40231		Maxxam Job #	Bottle Order #:
Contact Name	Aida Piaseczny	Contact Name	David Flather		P.O. #			B7A1648	
Address	2289 BURRARD STREET VANCOUVER BC V6J 3H9	Address			Project #	Gold Corp Coffee Creek-SW		Chain Of Custody Record	Project Manager
Phone	(604) 688-7173 x Fax: (604) 688-7175 x	Phone			Project Name				Megan Smith
Email	aida.piaseczny@lorax.ca; shukling.ng@lorax.ca	Email	David.Flather@lorax.ca		Site #			C#540800-04-01	
					Sampled By				

Regulatory Criteria	Special Instructions	Analysis Requested													Turnaround Time (TAT) Required	
		Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	Routine (Alk, EC, pH, TDS)	TSS-Low Level	Anions (Cl, F, NO2, NO3, NH4, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	# of Bottles	Comments		
<p>Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form</p> <p>Samples must be kept cool (< 10°C) from time of sampling until delivery to maxxam</p>															<p>Regular (Standard) TAT (will be applied if Rush TAT is not specified) Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.</p> <p>Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____ Rush Confirmation Number _____ (call lab for #)</p>	

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	Routine (Alk, EC, pH, TDS)	TSS-Low Level	Anions (Cl, F, NO2, NO3, NH4, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	# of Bottles	Comments
SID#178963	Stewart D/S M.M.	Nov. 11/17	12:35	H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	RECEIVED IN WHITEHORSE
SID#178964	Latte Mix	Nov. 11/17	10:25	H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	BY: <i>shukling@115</i>
SID#178965	Sample A			H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	2017-11-16
SID#184576	Sample B																
SID#184577	Sample C			H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	IMP: -2 -3 1 -1
SID#184578	FIELD BLANK	Nov. 11/17	19:00	H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	-2 -1 -1
SID#184579	TRIP BLANK			H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	-2 -1 0
SID#184580																	-3 -3 -4
SID#184581																	-2 -4 -2

RELINQUISHED BY: (Signature/Print) <i>[Signature]</i>	Date: (YY/MM/DD) Nov. 14	Time 11:15	RECEIVED BY: (Signature/Print) <i>[Signature]</i> RON MAPUE	Date: (YY/MM/DD) 2017/11/15	Time 14:15	# Jars used and not submitted	Time Sensitive <input type="checkbox"/>	Temperature (°C) on Receipt SEE ACTP	Custody Seal Intact on Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.
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Your Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

Attention:David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
2289 BURRARD STREET
VANCOUVER, BC
CANADA V6J 3H9

Your C.O.C. #: 542329-01-01, 542329-02-01, 542329-03-01

Report Date: 2017/12/19

Report #: R2493669

Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B7B0016

Received: 2017/12/11, 16:40

Sample Matrix: Water
Samples Received: 20

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Alkalinity - Low Level	16	2017/12/13	2017/12/13	BBY6SOP-00026	SM 22 2320 B m
Alkalinity - Low Level	4	2017/12/13	2017/12/14	BBY6SOP-00026	SM 22 2320 B m
Chloride - Low Level	18	N/A	2017/12/13	BBY6SOP-00011	SM 22 4500-Cl- E m
Chloride - Low Level	2	N/A	2017/12/14	BBY6SOP-00011	SM 22 4500-Cl- E m
Cyanide WAD (weak acid dissociable)	15	N/A	2017/12/13	BBY6SOP-00004	SM 22 4500-CN O m
Cyanide WAD (weak acid dissociable)	5	N/A	2017/12/14	BBY6SOP-00004	SM 22 4500-CN O m
Carbon (DOC) - field filtered/preserved (1)	19	N/A	2017/12/14	BBY6SOP-00003	SM 22 5310 C m
Carbon (DOC) - field filtered/preserved (1)	1	N/A	2017/12/18	BBY6SOP-00003	SM 22 5310 C m
Conductance - Low Level	16	2017/12/13	2017/12/13	BBY6SOP-00026	SM 22 2510 B m
Conductance - Low Level	4	2017/12/13	2017/12/14	BBY6SOP-00026	SM 22 2510 B m
Fluoride - Low Level	17	N/A	2017/12/13	BBY6SOP-00048	SM 22 4500-F C m
Fluoride - Low Level	3	N/A	2017/12/15	BBY6SOP-00048	SM 22 4500-F C m
Hardness Total (calculated as CaCO3) (2)	20	N/A	2017/12/15	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3)	20	N/A	2017/12/15	BBY WI-00033	Auto Calc
Mercury (Dissolved-LowLevel) by CVAf	20	N/A	2017/12/13	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Total-LowLevel) by CVAf	20	2017/12/13	2017/12/13	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	20	N/A	2017/12/15	BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (dissolved)	20	N/A	2017/12/15	BBY7SOP-00002	BCMOE BCLM Nov 2015
Elements by ICPMS Digested LL (total)	6	2017/12/13	2017/12/14	BBY7SOP-00003,	BCMOE BCLM Nov 2015
Na, K, Ca, Mg, S by CRC ICPMS (total)	20	N/A	2017/12/15	BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (total)	14	N/A	2017/12/14	BBY7SOP-00003,	BCMOE BCLM Nov 2015
Ammonia-N Low Level (Preserved)	20	N/A	2017/12/13	BBY6SOP-00009	EPA 350.1 m
Nitrate+Nitrite (N) (low level)	20	N/A	2017/12/13	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrite (N) (low level)	20	N/A	2017/12/13	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrogen - Nitrate (as N) Low Level Calc	20	N/A	2017/12/14	BBY WI-00033	Auto Calc
ORP Analysis on Water by ARD LAB	20	N/A	2017/12/15	BBY0SOP-00004	SM 22 2580 B
Filter and HNO3 Preserve for Metals	19	N/A	2017/12/13	BBY7 WI-00004	BCMOE Reqs 08/14
pH Water (3)	16	2017/12/13	2017/12/13	BBY6SOP-00026	SM 22 4500-H+ B m

Your Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

Attention:David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
2289 BURRARD STREET
VANCOUVER, BC
CANADA V6J 3H9

Your C.O.C. #: 542329-01-01, 542329-02-01, 542329-03-01

Report Date: 2017/12/19

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Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B7B0016

Received: 2017/12/11, 16:40

Sample Matrix: Water
Samples Received: 20

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
pH Water (3)	4	2017/12/13	2017/12/14	BBY6SOP-00026	SM 22 4500-H+ B m
Sulphate - Low Level	19	N/A	2017/12/13	BBY6SOP-00017	SM 22 4500-SO42- E m
Sulphate - Low Level	1	N/A	2017/12/14	BBY6SOP-00017	SM 22 4500-SO42- E m
Total Dissolved Solids (Filt. Residue)	16	2017/12/13	2017/12/14	BBY6SOP-00033	SM 22 2540 C m
Total Dissolved Solids (Filt. Residue)	4	2017/12/14	2017/12/15	BBY6SOP-00033	SM 22 2540 C m
Carbon (Total Organic) (4)	19	N/A	2017/12/14	BBY6SOP-00003	SM 22 5310 C m
Carbon (Total Organic) (4)	1	N/A	2017/12/18	BBY6SOP-00003	SM 22 5310 C m
Total Suspended Solids-Low Level	20	2017/12/13	2017/12/14	BBY6SOP-00034	SM 22 2540 D

Remarks:

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Maxxam's profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Maxxam in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected.

Maxxam Analytics' liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Maxxam has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Maxxam, unless otherwise agreed in writing.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

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

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

Attention:David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
2289 BURRARD STREET
VANCOUVER, BC
CANADA V6J 3H9

Your C.O.C. #: 542329-01-01, 542329-02-01, 542329-03-01

Report Date: 2017/12/19
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CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B7B0016

Received: 2017/12/11, 16:40

- (1) DOC present in the sample should be considered as non-purgeable DOC.
- (2) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).
- (3) The BC-MOE and APHA Standard Method require pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the BC-MOE/APHA Standard Method holding time.
- (4) TOC present in the sample should be considered as non-purgeable TOC.

Encryption Key



Maxxam
19 Dec 2017 16:50:51

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Megan Smith, Project Manager
Email: msmith@maxxam.ca
Phone# (604) 734 7276



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This report has been generated and distributed using a secure automated process.
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Job #: B7B0016
Report Date: 2017/12/19

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SQ9365			SQ9365			SQ9366		
Sampling Date		2017/12/09 13:10			2017/12/09 13:10			2017/12/09 14:20		
COC Number		542329-01-01			542329-01-01			542329-01-01		
	UNITS	CC-0.5	RDL	QC Batch	CC-0.5 Lab-Dup	RDL	QC Batch	CC-1.5	RDL	QC Batch
Parameter										
ORP	mV	267		8861462	266		8861462	266		8861462
Calculated Parameters										
Filter and HNO3 Preservation	N/A	LAB		8860721				LAB		8860721
Nitrate (N)	mg/L	0.356	0.0020	8860649				0.281	0.0020	8860649
Misc. Inorganics										
Weak Acid Dissoc. Cyanide (CN)	mg/L	<0.00050	0.00050	8861719	<0.00050	0.00050	8861719	<0.00050	0.00050	8861719
Fluoride (F)	mg/L	0.095	0.010	8861551				0.099	0.010	8861551
Dissolved Organic Carbon (C)	mg/L	6.74	0.50	8862354				5.21	0.50	8862354
Alkalinity (Total as CaCO3)	mg/L	114	0.50	8861679				184	0.50	8861679
Total Organic Carbon (C)	mg/L	5.78	0.50	8862846				4.89	0.50	8862844
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	8861679				<0.50	0.50	8861679
Bicarbonate (HCO3)	mg/L	139	0.50	8861679				225	0.50	8861679
Carbonate (CO3)	mg/L	<0.50	0.50	8861679				<0.50	0.50	8861679
Hydroxide (OH)	mg/L	<0.50	0.50	8861679				<0.50	0.50	8861679
Anions										
Dissolved Sulphate (SO4)	mg/L	95.1	0.50	8862461				182	0.50	8862461
Dissolved Chloride (Cl)	mg/L	1.2	0.50	8862459				0.54	0.50	8862459
Nutrients										
Total Ammonia (N)	mg/L	0.0090	0.0050	8861890				<0.0050	0.0050	8861890
Nitrate plus Nitrite (N)	mg/L	0.356	0.0020	8862490				0.281	0.0020	8862490
Nitrite (N)	mg/L	<0.0020	0.0020	8862494				<0.0020	0.0020	8862494
Physical Properties										
Conductivity	uS/cm	409	1.0	8861678				683	1.0	8861678
pH	pH	7.88		8861675				8.06		8861675
Physical Properties										
Total Suspended Solids	mg/L	<1.0	1.0	8861207				4.0	1.0	8861207
Total Dissolved Solids	mg/L	266	10	8861384				440	10	8861384
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B7B0016
Report Date: 2017/12/19

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SQ9366			SQ9367			SQ9367		
Sampling Date		2017/12/09 14:20			2017/12/09 13:25			2017/12/09 13:25		
COC Number		542329-01-01			542329-01-01			542329-01-01		
	UNITS	CC-1.5 Lab-Dup	RDL	QC Batch	CC-3.5	RDL	QC Batch	CC-3.5 Lab-Dup	RDL	QC Batch
Parameter										
ORP	mV				262		8861462			
Calculated Parameters										
Filter and HNO3 Preservation	N/A				LAB		8860721			
Nitrate (N)	mg/L				0.481	0.0020	8860649			
Misc. Inorganics										
Weak Acid Dissoc. Cyanide (CN)	mg/L				<0.00050	0.00050	8861719			
Fluoride (F)	mg/L	0.098	0.010	8861551	0.049	0.010	8861551			
Dissolved Organic Carbon (C)	mg/L				5.36	0.50	8862354			
Alkalinity (Total as CaCO3)	mg/L				112	0.50	8861679			
Total Organic Carbon (C)	mg/L				5.09	0.50	8862844	5.08	0.50	8862844
Alkalinity (PP as CaCO3)	mg/L				<0.50	0.50	8861679			
Bicarbonate (HCO3)	mg/L				137	0.50	8861679			
Carbonate (CO3)	mg/L				<0.50	0.50	8861679			
Hydroxide (OH)	mg/L				<0.50	0.50	8861679			
Anions										
Dissolved Sulphate (SO4)	mg/L				95.4	0.50	8862461			
Dissolved Chloride (Cl)	mg/L				0.71	0.50	8862459			
Nutrients										
Total Ammonia (N)	mg/L				0.054	0.0050	8861890			
Nitrate plus Nitrite (N)	mg/L				0.481	0.0020	8862490			
Nitrite (N)	mg/L				<0.0020	0.0020	8862494			
Physical Properties										
Conductivity	uS/cm				404	1.0	8861678			
pH	pH				7.90		8861675			
Physical Properties										
Total Suspended Solids	mg/L				<1.0	1.0	8861207			
Total Dissolved Solids	mg/L				256	10	8861384			
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B7B0016
Report Date: 2017/12/19

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SQ9368		SQ9369		SQ9370		
Sampling Date		2017/12/09 12:20		2017/12/09 14:55		2017/12/09 13:40		
COC Number		542329-01-01		542329-01-01		542329-01-01		
	UNITS	CC-4.5	RDL	CC-A	QC Batch	CC-B	RDL	QC Batch
Parameter								
ORP	mV	259		257	8861462	250		8861462
Calculated Parameters								
Filter and HNO3 Preservation	N/A	LAB		LAB	8860721	LAB		8860721
Nitrate (N)	mg/L	0.501	0.0020	0.187	8860649	0.343	0.0020	8860649
Misc. Inorganics								
Weak Acid Dissoc. Cyanide (CN)	mg/L	<0.00050	0.00050	<0.00050	8861719	<0.00050	0.00050	8861719
Fluoride (F)	mg/L	0.055	0.010	0.065	8861551	0.070	0.010	8861551
Dissolved Organic Carbon (C)	mg/L	5.80	0.50	5.25	8862354	4.86	0.50	8862354
Alkalinity (Total as CaCO3)	mg/L	60.9	0.50	116	8861679	183	0.50	8861679
Total Organic Carbon (C)	mg/L	5.87	0.50	5.61	8862844	4.87	0.50	8862846
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	<0.50	8861679	<0.50	0.50	8861679
Bicarbonate (HCO3)	mg/L	74.3	0.50	142	8861679	223	0.50	8861679
Carbonate (CO3)	mg/L	<0.50	0.50	<0.50	8861679	<0.50	0.50	8861679
Hydroxide (OH)	mg/L	<0.50	0.50	<0.50	8861679	<0.50	0.50	8861679
Anions								
Dissolved Sulphate (SO4)	mg/L	67.3	0.50	173	8862461	180	0.50	8862461
Dissolved Chloride (Cl)	mg/L	0.91	0.50	<0.50	8862459	0.57	0.50	8862459
Nutrients								
Total Ammonia (N)	mg/L	<0.0050	0.0050	<0.0050	8861890	<0.0050	0.0050	8861890
Nitrate plus Nitrite (N)	mg/L	0.501	0.0020	0.187	8862490	0.343	0.0020	8862490
Nitrite (N)	mg/L	<0.0020	0.0020	<0.0020	8862494	<0.0020	0.0020	8862494
Physical Properties								
Conductivity	uS/cm	274	1.0	562	8861678	677	1.0	8861678
pH	pH	7.72		7.85	8861675	8.03		8861675
Physical Properties								
Total Suspended Solids	mg/L	14.0 (1)	1.1	1.8	8861207	6.9	1.0	8861258
Total Dissolved Solids	mg/L	166	10	360	8861384	438	10	8861384
RDL = Reportable Detection Limit								
(1) RDL raised due to limited initial sample amount.								

Maxxam Job #: B7B0016
Report Date: 2017/12/19

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SQ9370			SQ9371			SQ9371		
Sampling Date		2017/12/09 13:40			2017/12/09 12:05			2017/12/09 12:05		
COC Number		542329-01-01			542329-01-01			542329-01-01		
	UNITS	CC-B Lab-Dup	RDL	QC Batch	CC-X	RDL	QC Batch	CC-X Lab-Dup	RDL	QC Batch
Parameter										
ORP	mV				253		8861462			
Calculated Parameters										
Filter and HNO3 Preservation	N/A				LAB		8860721			
Nitrate (N)	mg/L				0.616	0.0020	8860649			
Misc. Inorganics										
Weak Acid Dissoc. Cyanide (CN)	mg/L				<0.00050	0.00050	8861719			
Fluoride (F)	mg/L				0.050	0.010	8861551			
Dissolved Organic Carbon (C)	mg/L	5.46	0.50	8862354	6.04	0.50	8862354			
Alkalinity (Total as CaCO3)	mg/L				57.0	0.50	8861679	56.2	0.50	8861679
Total Organic Carbon (C)	mg/L				5.91	0.50	8862844			
Alkalinity (PP as CaCO3)	mg/L				<0.50	0.50	8861679	<0.50	0.50	8861679
Bicarbonate (HCO3)	mg/L				69.6	0.50	8861679	68.6	0.50	8861679
Carbonate (CO3)	mg/L				<0.50	0.50	8861679	<0.50	0.50	8861679
Hydroxide (OH)	mg/L				<0.50	0.50	8861679	<0.50	0.50	8861679
Anions										
Dissolved Sulphate (SO4)	mg/L				68.8	0.50	8862461	67.4	0.50	8862461
Dissolved Chloride (Cl)	mg/L				1.6	0.50	8862459	1.1	0.50	8862459
Nutrients										
Total Ammonia (N)	mg/L				0.054	0.0050	8861890			
Nitrate plus Nitrite (N)	mg/L				0.616	0.0020	8862490	0.611	0.0020	8862490
Nitrite (N)	mg/L				<0.0020	0.0020	8862494	<0.0020	0.0020	8862494
Physical Properties										
Conductivity	uS/cm				264	1.0	8861678	265	1.0	8861678
pH	pH				7.50		8861675	7.53		8861675
Physical Properties										
Total Suspended Solids	mg/L				57.0	1.0	8861258			
Total Dissolved Solids	mg/L				160	10	8861384			
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B7B0016
Report Date: 2017/12/19

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SQ9372		SQ9384		SQ9385		
Sampling Date		2017/12/10 14:05		2017/12/10 13:05		2017/12/10 11:15		
COC Number		542329-01-01		542329-02-01		542329-02-01		
	UNITS	HC-2.5	QC Batch	IC-4.5	QC Batch	YUK-2.0	RDL	QC Batch
Parameter								
ORP	mV	252	8861462	249	8861462	248		8861462
Calculated Parameters								
Filter and HNO3 Preservation	N/A	LAB	8860721	LAB	8860721	LAB		8860721
Nitrate (N)	mg/L	0.546	8860649	0.575	8860649	0.0682	0.0020	8860649
Misc. Inorganics								
Weak Acid Dissoc. Cyanide (CN)	mg/L	<0.00050	8861719	<0.00050	8861719	<0.00050	0.00050	8861719
Fluoride (F)	mg/L	0.057	8861551	0.058	8861551	0.110	0.010	8861551
Dissolved Organic Carbon (C)	mg/L	4.53	8862354	6.98	8862354	1.83	0.50	8862354
Alkalinity (Total as CaCO3)	mg/L	122	8861679	48.1	8861679	90.0	0.50	8861679
Total Organic Carbon (C)	mg/L	4.58	8862844	6.18	8862846	2.49	0.50	8862844
Alkalinity (PP as CaCO3)	mg/L	<0.50	8861679	<0.50	8861679	<0.50	0.50	8861679
Bicarbonate (HCO3)	mg/L	148	8861679	58.6	8861679	110	0.50	8861679
Carbonate (CO3)	mg/L	<0.50	8861679	<0.50	8861679	<0.50	0.50	8861679
Hydroxide (OH)	mg/L	<0.50	8861679	<0.50	8861679	<0.50	0.50	8861679
Anions								
Dissolved Sulphate (SO4)	mg/L	59.1	8862461	47.9	8862461	26.7	0.50	8862482
Dissolved Chloride (Cl)	mg/L	<0.50	8862459	0.78	8862459	0.56	0.50	8862477
Nutrients								
Total Ammonia (N)	mg/L	<0.0050	8861890	0.039	8861890	0.0070	0.0050	8861890
Nitrate plus Nitrite (N)	mg/L	0.546	8862490	0.575	8862490	0.0682	0.0020	8862490
Nitrite (N)	mg/L	<0.0020	8862494	<0.0020	8862494	<0.0020	0.0020	8862494
Physical Properties								
Conductivity	uS/cm	350	8861678	208	8861678	225	1.0	8861678
pH	pH	7.94	8861675	7.52	8861675	7.95		8861675
Physical Properties								
Total Suspended Solids	mg/L	<1.0	8861258	2.6	8861258	18.7	1.0	8861258
Total Dissolved Solids	mg/L	194	8862465	124	8862465	114	10	8861384
RDL = Reportable Detection Limit								

Maxxam Job #: B7B0016
Report Date: 2017/12/19

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SQ9386		SQ9387		SQ9388		
Sampling Date		2017/12/10 12:50		2017/12/09 11:35		2017/12/11 12:05		
COC Number		542329-02-01		542329-02-01		542329-02-01		
	UNITS	YUK-5.0	QC Batch	BALLARAT U/S Y.R.	QC Batch	BARKER U/S S.R.	RDL	QC Batch
Parameter								
ORP	mV	247	8861462	246	8861462	244		8861462
Calculated Parameters								
Filter and HNO3 Preservation	N/A	LAB	8860721	LAB	8860721	LAB		8860721
Nitrate (N)	mg/L	0.0884	8860649	0.282	8860649	0.119	0.0020	8860649
Misc. Inorganics								
Weak Acid Dissoc. Cyanide (CN)	mg/L	<0.00050	8861719	<0.00050	8861719	<0.00050	0.00050	8861719
Fluoride (F)	mg/L	0.110	8861551	0.160	8861551	0.099	0.010	8861551
Dissolved Organic Carbon (C)	mg/L	1.66	8862354	7.14	8866453	12.7	0.50	8862349
Alkalinity (Total as CaCO3)	mg/L	91.5	8861679	161	8861679	154	0.50	8861679
Total Organic Carbon (C)	mg/L	1.08	8862844	6.56	8866454	12.9	0.50	8862844
Alkalinity (PP as CaCO3)	mg/L	<0.50	8861679	<0.50	8861679	<0.50	0.50	8861679
Bicarbonate (HCO3)	mg/L	112	8861679	196	8861679	187	0.50	8861679
Carbonate (CO3)	mg/L	<0.50	8861679	<0.50	8861679	<0.50	0.50	8861679
Hydroxide (OH)	mg/L	<0.50	8861679	<0.50	8861679	<0.50	0.50	8861679
Anions								
Dissolved Sulphate (SO4)	mg/L	29.9	8862461	172	8862461	105	0.50	8862461
Dissolved Chloride (Cl)	mg/L	<0.50	8862459	1.8	8862459	3.2	0.50	8862459
Nutrients								
Total Ammonia (N)	mg/L	<0.0050	8861890	0.0060	8861890	0.023	0.0050	8861890
Nitrate plus Nitrite (N)	mg/L	0.0884	8862490	0.282	8862490	0.119	0.0020	8862490
Nitrite (N)	mg/L	<0.0020	8862494	<0.0020	8862494	<0.0020	0.0020	8862494
Physical Properties								
Conductivity	uS/cm	232	8861678	634	8861678	505	1.0	8861678
pH	pH	7.94	8861675	8.00	8861675	7.85		8861675
Physical Properties								
Total Suspended Solids	mg/L	<1.0	8861258	4.0	8861258	1.6	1.0	8861258
Total Dissolved Solids	mg/L	126	8861384	410	8861384	296	10	8861384
RDL = Reportable Detection Limit								

Maxxam Job #: B7B0016
Report Date: 2017/12/19

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SQ9388			SQ9389		
Sampling Date		2017/12/11 12:05			2017/12/11 11:00		
COC Number		542329-02-01			542329-02-01		
	UNITS	BARKER U/S S.R. Lab-Dup	RDL	QC Batch	BLACKHILLS U/S S.R.	RDL	QC Batch
Parameter							
ORP	mV	245		8861462	244		8861462
Calculated Parameters							
Filter and HNO3 Preservation	N/A				LAB		8860721
Nitrate (N)	mg/L				0.0088	0.0020	8860649
Misc. Inorganics							
Weak Acid Dissoc. Cyanide (CN)	mg/L				<0.00050	0.00050	8861719
Fluoride (F)	mg/L				0.100	0.010	8861551
Dissolved Organic Carbon (C)	mg/L				13.6	0.50	8862354
Alkalinity (Total as CaCO3)	mg/L				165	0.50	8861679
Total Organic Carbon (C)	mg/L				14.6	0.50	8862844
Alkalinity (PP as CaCO3)	mg/L				<0.50	0.50	8861679
Bicarbonate (HCO3)	mg/L				202	0.50	8861679
Carbonate (CO3)	mg/L				<0.50	0.50	8861679
Hydroxide (OH)	mg/L				<0.50	0.50	8861679
Anions							
Dissolved Sulphate (SO4)	mg/L				68.5	0.50	8862461
Dissolved Chloride (Cl)	mg/L				1.8	0.50	8862459
Nutrients							
Total Ammonia (N)	mg/L	0.023	0.0050	8861890	0.15	0.0050	8861893
Nitrate plus Nitrite (N)	mg/L				0.0088	0.0020	8862490
Nitrite (N)	mg/L				<0.0020	0.0020	8862494
Physical Properties							
Conductivity	uS/cm				461	1.0	8861678
pH	pH				7.92		8861675
Physical Properties							
Total Suspended Solids	mg/L				2.0 (1)	1.1	8861258
Total Dissolved Solids	mg/L				312	10	8861384
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate (1) RDL raised due to limited initial sample amount.							

Maxxam Job #: B7B0016
Report Date: 2017/12/19

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SQ9390		SQ9391		SQ9392		
Sampling Date		2017/12/11 11:50		2017/12/09 12:45				
COC Number		542329-03-01		542329-03-01		542329-03-01		
	UNITS	STEWART D/S M.M.	QC Batch	LATTE MIX	QC Batch	SAMPLE A	RDL	QC Batch
Parameter								
ORP	mV	243	8861462	242	8861462	241		8861462
Calculated Parameters								
Filter and HNO3 Preservation	N/A	LAB	8860721	LAB	8860721	LAB		8860721
Nitrate (N)	mg/L	0.155	8860649	0.380	8860649	0.498	0.0020	8860649
Misc. Inorganics								
Weak Acid Dissoc. Cyanide (CN)	mg/L	<0.00050	8861719	<0.00050	8862856	<0.00050	0.00050	8862856
Fluoride (F)	mg/L	0.087	8861551	0.077	8861551	0.054	0.010	8861551
Dissolved Organic Carbon (C)	mg/L	1.81	8862354	5.69	8862354	6.46	0.50	8862354
Alkalinity (Total as CaCO3)	mg/L	121	8861679	127	8861679	59.7	0.50	8861679
Total Organic Carbon (C)	mg/L	0.82	8862844	4.72	8862844	7.65	0.50	8862844
Alkalinity (PP as CaCO3)	mg/L	<0.50	8861679	<0.50	8861679	<0.50	0.50	8861679
Bicarbonate (HCO3)	mg/L	148	8861679	154	8861679	72.8	0.50	8861679
Carbonate (CO3)	mg/L	<0.50	8861679	<0.50	8861679	<0.50	0.50	8861679
Hydroxide (OH)	mg/L	<0.50	8861679	<0.50	8861679	<0.50	0.50	8861679
Anions								
Dissolved Sulphate (SO4)	mg/L	99.0	8862482	98.2	8864565	69.6	0.50	8862461
Dissolved Chloride (Cl)	mg/L	0.66	8862477	0.97	8867947	0.78	0.50	8862459
Nutrients								
Total Ammonia (N)	mg/L	0.016	8861893	<0.0050	8861893	0.075	0.0050	8861893
Nitrate plus Nitrite (N)	mg/L	0.155	8862490	0.380	8862490	0.498	0.0020	8862490
Nitrite (N)	mg/L	<0.0020	8862494	<0.0020	8862494	<0.0020	0.0020	8862494
Physical Properties								
Conductivity	uS/cm	420	8861678	419	8861678	273	1.0	8861678
pH	pH	8.00	8861675	7.98	8861675	7.73		8861675
Physical Properties								
Total Suspended Solids	mg/L	7.7	8861258	<1.0	8861258	<1.0	1.0	8861258
Total Dissolved Solids	mg/L	248	8862465	282	8861384	164	10	8862465
RDL = Reportable Detection Limit								

Maxxam Job #: B7B0016
Report Date: 2017/12/19

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SQ9393		SQ9394			SQ9394		
Sampling Date				2017/12/09 20:00			2017/12/09 20:00		
COC Number		542329-03-01		542329-03-01			542329-03-01		
	UNITS	SAMPLE B	QC Batch	FIELD BLANK	RDL	QC Batch	FIELD BLANK Lab-Dup	RDL	QC Batch
Parameter									
ORP	mV	242	8861462	234		8861462			
Calculated Parameters									
Filter and HNO3 Preservation	N/A	LAB	8860721	LAB		8860721			
Nitrate (N)	mg/L	0.123	8860649	<0.0020	0.0020	8860649			
Misc. Inorganics									
Weak Acid Dissoc. Cyanide (CN)	mg/L	0.00052	8862856	<0.00050	0.00050	8862856			
Fluoride (F)	mg/L	0.093	8863850	0.010	0.010	8863850	<0.010	0.010	8863850
Dissolved Organic Carbon (C)	mg/L	12.3	8862354	<0.50	0.50	8862354			
Alkalinity (Total as CaCO3)	mg/L	149	8861679	<0.50	0.50	8861679			
Total Organic Carbon (C)	mg/L	12.5	8862844	<0.50	0.50	8862846			
Alkalinity (PP as CaCO3)	mg/L	<0.50	8861679	<0.50	0.50	8861679			
Bicarbonate (HCO3)	mg/L	182	8861679	<0.50	0.50	8861679			
Carbonate (CO3)	mg/L	<0.50	8861679	<0.50	0.50	8861679			
Hydroxide (OH)	mg/L	<0.50	8861679	<0.50	0.50	8861679			
Anions									
Dissolved Sulphate (SO4)	mg/L	113	8862482	0.56	0.50	8862461			
Dissolved Chloride (Cl)	mg/L	3.3	8867947	<0.50	0.50	8862459			
Nutrients									
Total Ammonia (N)	mg/L	0.0070	8861893	<0.0050	0.0050	8861893			
Nitrate plus Nitrite (N)	mg/L	0.123	8862490	<0.0020	0.0020	8862490			
Nitrite (N)	mg/L	<0.0020	8862494	<0.0020	0.0020	8862494			
Physical Properties									
Conductivity	uS/cm	504	8861678	1.2	1.0	8861678			
pH	pH	7.87	8861675	5.06		8861675			
Physical Properties									
Total Suspended Solids	mg/L	5.8	8861258	<1.0	1.0	8861258			
Total Dissolved Solids	mg/L	300	8861384	<10	10	8861384			
RDL = Reportable Detection Limit									
Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B7B0016
Report Date: 2017/12/19

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SQ9395		
Sampling Date		2017/12/11 16:40		
COC Number		542329-03-01		
	UNITS	TRIP BLANK	RDL	QC Batch
Parameter				
ORP	mV	325		8861462
Calculated Parameters				
Nitrate (N)	mg/L	<0.0020	0.0020	8860649
Misc. Inorganics				
Weak Acid Dissoc. Cyanide (CN)	mg/L	<0.00050	0.00050	8862856
Fluoride (F)	mg/L	<0.010	0.010	8863850
Dissolved Organic Carbon (C)	mg/L	<0.50	0.50	8862354
Alkalinity (Total as CaCO3)	mg/L	<0.50	0.50	8861679
Total Organic Carbon (C)	mg/L	<0.50	0.50	8862844
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	8861679
Bicarbonate (HCO3)	mg/L	<0.50	0.50	8861679
Carbonate (CO3)	mg/L	<0.50	0.50	8861679
Hydroxide (OH)	mg/L	<0.50	0.50	8861679
Anions				
Dissolved Sulphate (SO4)	mg/L	<0.50	0.50	8862482
Dissolved Chloride (Cl)	mg/L	<0.50	0.50	8862477
Nutrients				
Total Ammonia (N)	mg/L	<0.0050	0.0050	8861893
Nitrate plus Nitrite (N)	mg/L	<0.0020	0.0020	8862490
Nitrite (N)	mg/L	<0.0020	0.0020	8862494
Physical Properties				
Conductivity	uS/cm	1.0	1.0	8861678
pH	pH	5.11		8861675
Physical Properties				
Total Suspended Solids	mg/L	<1.0	1.0	8861258
Total Dissolved Solids	mg/L	<10	10	8861384
RDL = Reportable Detection Limit				

Maxxam Job #: B7B0016
Report Date: 2017/12/19

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SQ9365			SQ9365			SQ9366		
Sampling Date		2017/12/09 13:10			2017/12/09 13:10			2017/12/09 14:20		
COC Number		542329-01-01			542329-01-01			542329-01-01		
	UNITS	CC-0.5	RDL	QC Batch	CC-0.5 Lab-Dup	RDL	QC Batch	CC-1.5	RDL	QC Batch

Calculated Parameters

Dissolved Hardness (CaCO3)	mg/L	191	0.50	8859886				346	0.50	8859886
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Elements

Dissolved Mercury (Hg)	ug/L	<0.0020	0.0020	8861203				<0.0020	0.0020	8861203
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Dissolved Metals by ICPMS

Dissolved Aluminum (Al)	ug/L	15.7	0.50	8861191	15.3	0.50	8861191	11.0	0.50	8861191
Dissolved Antimony (Sb)	ug/L	0.081	0.020	8861191	0.082	0.020	8861191	0.092	0.020	8861191
Dissolved Arsenic (As)	ug/L	0.298	0.020	8861191	0.297	0.020	8861191	0.908	0.020	8861191
Dissolved Barium (Ba)	ug/L	91.4	0.020	8861191	90.0	0.020	8861191	71.7	0.020	8861191
Dissolved Beryllium (Be)	ug/L	<0.010	0.010	8861191	<0.010	0.010	8861191	<0.010	0.010	8861191
Dissolved Bismuth (Bi)	ug/L	<0.0050	0.0050	8861191	<0.0050	0.0050	8861191	<0.0050	0.0050	8861191
Dissolved Boron (B)	ug/L	<10	10	8861191	<10	10	8861191	<10	10	8861191
Dissolved Cadmium (Cd)	ug/L	0.0097	0.0050	8861191	0.0115	0.0050	8861191	0.0087	0.0050	8861191
Dissolved Chromium (Cr)	ug/L	0.12	0.10	8861191	0.12	0.10	8861191	0.10	0.10	8861191
Dissolved Cobalt (Co)	ug/L	0.0508	0.0050	8861191	0.0524	0.0050	8861191	0.0210	0.0050	8861191
Dissolved Copper (Cu)	ug/L	1.03	0.050	8861191	1.00	0.050	8861191	0.948	0.050	8861191
Dissolved Iron (Fe)	ug/L	19.5	1.0	8861191	19.4	1.0	8861191	4.3	1.0	8861191
Dissolved Lead (Pb)	ug/L	<0.0050	0.0050	8861191	<0.0050	0.0050	8861191	<0.0050	0.0050	8861191
Dissolved Lithium (Li)	ug/L	1.99	0.50	8861191	1.98	0.50	8861191	2.39	0.50	8861191
Dissolved Manganese (Mn)	ug/L	22.8	0.050	8861191	22.9	0.050	8861191	10.3	0.050	8861191
Dissolved Molybdenum (Mo)	ug/L	0.521	0.050	8861191	0.593	0.050	8861191	0.395	0.050	8861191
Dissolved Nickel (Ni)	ug/L	0.662	0.020	8861191	0.650	0.020	8861191	0.444	0.020	8861191
Dissolved Phosphorus (P)	ug/L	4.2	2.0	8861191	2.6	2.0	8861191	2.9	2.0	8861191
Dissolved Selenium (Se)	ug/L	0.085	0.040	8861191	0.098	0.040	8861191	0.163	0.040	8861191
Dissolved Silicon (Si)	ug/L	6150	50	8861191	6220	50	8861191	4990	50	8861191
Dissolved Silver (Ag)	ug/L	<0.0050	0.0050	8861191	<0.0050	0.0050	8861191	<0.0050	0.0050	8861191
Dissolved Strontium (Sr)	ug/L	286	0.050	8861191	285	0.050	8861191	755	0.050	8861191
Dissolved Thallium (Tl)	ug/L	0.0025	0.0020	8861191	0.0025	0.0020	8861191	0.0047	0.0020	8861191
Dissolved Tin (Sn)	ug/L	<0.20	0.20	8861191	<0.20	0.20	8861191	<0.20	0.20	8861191
Dissolved Titanium (Ti)	ug/L	<0.50	0.50	8861191	<0.50	0.50	8861191	<0.50	0.50	8861191
Dissolved Uranium (U)	ug/L	24.6	0.0020	8861191	24.8	0.0020	8861191	29.1	0.0020	8861191

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Maxxam Job #: B7B0016
Report Date: 2017/12/19

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SQ9365			SQ9365			SQ9366		
Sampling Date		2017/12/09 13:10			2017/12/09 13:10			2017/12/09 14:20		
COC Number		542329-01-01			542329-01-01			542329-01-01		
	UNITS	CC-0.5	RDL	QC Batch	CC-0.5 Lab-Dup	RDL	QC Batch	CC-1.5	RDL	QC Batch
Dissolved Vanadium (V)	ug/L	<0.20	0.20	8861191	<0.20	0.20	8861191	0.20	0.20	8861191
Dissolved Zinc (Zn)	ug/L	0.40	0.10	8861191	0.46	0.10	8861191	0.52	0.10	8861191
Dissolved Zirconium (Zr)	ug/L	0.30	0.10	8861191	0.31	0.10	8861191	0.28	0.10	8861191
Dissolved Calcium (Ca)	mg/L	50.9	0.050	8860165				92.0	0.050	8860165
Dissolved Magnesium (Mg)	mg/L	15.4	0.050	8860165				28.1	0.050	8860165
Dissolved Potassium (K)	mg/L	1.85	0.050	8860165				5.15	0.050	8860165
Dissolved Sodium (Na)	mg/L	7.20	0.050	8860165				6.18	0.050	8860165
Dissolved Sulphur (S)	mg/L	31.4	3.0	8860165				62.0	3.0	8860165
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B7B0016
Report Date: 2017/12/19

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SQ9367	SQ9368		SQ9369		SQ9370		
Sampling Date		2017/12/09 13:25	2017/12/09 12:20		2017/12/09 14:55		2017/12/09 13:40		
COC Number		542329-01-01	542329-01-01		542329-01-01		542329-01-01		
	UNITS	CC-3.5	CC-4.5	QC Batch	CC-A	QC Batch	CC-B	RDL	QC Batch
Calculated Parameters									
Dissolved Hardness (CaCO3)	mg/L	190	122	8859886	271	8859886	345	0.50	8859886
Elements									
Dissolved Mercury (Hg)	ug/L	0.0022	<0.0020	8861203	0.0024	8861203	<0.0020	0.0020	8861203
Dissolved Metals by ICPMS									
Dissolved Aluminum (Al)	ug/L	13.9	22.5	8861191	13.5	8861191	11.6	0.50	8861191
Dissolved Antimony (Sb)	ug/L	0.064	0.076	8861191	0.086	8861191	0.124	0.020	8861191
Dissolved Arsenic (As)	ug/L	0.223	0.246	8861191	0.359	8861191	0.545	0.020	8861191
Dissolved Barium (Ba)	ug/L	86.6	78.1	8861191	62.7	8861191	107	0.020	8861191
Dissolved Beryllium (Be)	ug/L	<0.010	<0.010	8861191	0.011	8861191	<0.010	0.010	8861191
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	8861191	<0.0050	8861191	<0.0050	0.0050	8861191
Dissolved Boron (B)	ug/L	<10	<10	8861191	<10	8861191	<10	10	8861191
Dissolved Cadmium (Cd)	ug/L	0.0054	0.0080	8861191	0.0240	8865597	0.0089	0.0050	8861191
Dissolved Chromium (Cr)	ug/L	<0.10	0.14	8861191	<0.10	8861191	0.11	0.10	8861191
Dissolved Cobalt (Co)	ug/L	0.0239	0.0266	8861191	0.0474	8861191	0.0215	0.0050	8861191
Dissolved Copper (Cu)	ug/L	0.769	1.13	8861191	1.31	8861191	1.01	0.050	8861191
Dissolved Iron (Fe)	ug/L	5.0	8.3	8861191	15.9	8861191	5.6	1.0	8861191
Dissolved Lead (Pb)	ug/L	<0.0050	<0.0050	8861191	<0.0050	8861191	<0.0050	0.0050	8861191
Dissolved Lithium (Li)	ug/L	0.63	<0.50	8861191	2.57	8861191	1.51	0.50	8861191
Dissolved Manganese (Mn)	ug/L	0.287	2.10	8861191	24.3	8861191	0.650	0.050	8861191
Dissolved Molybdenum (Mo)	ug/L	0.238	0.578	8861191	0.176	8861191	0.543	0.050	8861191
Dissolved Nickel (Ni)	ug/L	0.452	0.624	8861191	0.376	8861191	0.354	0.020	8861191
Dissolved Phosphorus (P)	ug/L	<2.0	3.5	8861191	5.3	8861191	4.1	2.0	8861191
Dissolved Selenium (Se)	ug/L	0.061	0.068	8861191	0.040	8861191	0.085	0.040	8861191
Dissolved Silicon (Si)	ug/L	4450	4500	8861191	5950	8861191	4920	50	8861191
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	8861191	<0.0050	8861191	<0.0050	0.0050	8861191
Dissolved Strontium (Sr)	ug/L	368	182	8861191	588	8861191	908	0.050	8861191
Dissolved Thallium (Tl)	ug/L	<0.0020	<0.0020	8861191	0.0043	8861191	0.0020	0.0020	8861191
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	8861191	<0.20	8861191	<0.20	0.20	8861191
Dissolved Titanium (Ti)	ug/L	<0.50	<0.50	8861191	<0.50	8861191	<0.50	0.50	8861191
Dissolved Uranium (U)	ug/L	8.20	1.60	8861191	16.1	8861191	27.8	0.0020	8861191
Dissolved Vanadium (V)	ug/L	<0.20	0.22	8861191	<0.20	8861191	0.25	0.20	8861191
RDL = Reportable Detection Limit									

Maxxam Job #: B7B0016
Report Date: 2017/12/19

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SQ9367	SQ9368		SQ9369		SQ9370		
Sampling Date		2017/12/09 13:25	2017/12/09 12:20		2017/12/09 14:55		2017/12/09 13:40		
COC Number		542329-01-01	542329-01-01		542329-01-01		542329-01-01		
	UNITS	CC-3.5	CC-4.5	QC Batch	CC-A	QC Batch	CC-B	RDL	QC Batch
Dissolved Zinc (Zn)	ug/L	0.23	0.33	8861191	0.66	8861191	0.36	0.10	8861191
Dissolved Zirconium (Zr)	ug/L	0.27	0.28	8861191	0.23	8861191	0.29	0.10	8861191
Dissolved Calcium (Ca)	mg/L	53.4	31.3	8860165	77.2	8860165	92.4	0.050	8860165
Dissolved Magnesium (Mg)	mg/L	13.8	10.7	8860165	18.9	8860165	27.8	0.050	8860165
Dissolved Potassium (K)	mg/L	2.41	1.51	8860165	3.28	8860165	5.63	0.050	8860165
Dissolved Sodium (Na)	mg/L	3.95	4.23	8860165	6.88	8860165	5.31	0.050	8860165
Dissolved Sulphur (S)	mg/L	30.9	23.1	8860165	56.6	8860165	57.1	3.0	8860165
RDL = Reportable Detection Limit									

Maxxam Job #: B7B0016
Report Date: 2017/12/19

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SQ9371	SQ9372	SQ9384	SQ9385	SQ9386		
Sampling Date		2017/12/09 12:05	2017/12/10 14:05	2017/12/10 13:05	2017/12/10 11:15	2017/12/10 12:50		
COC Number		542329-01-01	542329-01-01	542329-02-01	542329-02-01	542329-02-01		
	UNITS	CC-X	HC-2.5	IC-4.5	YUK-2.0	YUK-5.0	RDL	QC Batch
Calculated Parameters								
Dissolved Hardness (CaCO3)	mg/L	119	171	90.6	106	113	0.50	8859886
Elements								
Dissolved Mercury (Hg)	ug/L	<0.0020	<0.0020	0.0027	<0.0020	<0.0020	0.0020	8861203
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	ug/L	29.1	12.7	32.9	3.65	1.08	0.50	8861191
Dissolved Antimony (Sb)	ug/L	0.079	0.480	0.086	0.103	0.098	0.020	8861191
Dissolved Arsenic (As)	ug/L	0.238	0.656	0.277	0.378	0.168	0.020	8861191
Dissolved Barium (Ba)	ug/L	76.9	57.7	52.7	49.4	85.2	0.020	8861191
Dissolved Beryllium (Be)	ug/L	<0.010	<0.010	0.010	<0.010	<0.010	0.010	8861191
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8861191
Dissolved Boron (B)	ug/L	<10	<10	<10	<10	<10	10	8861191
Dissolved Cadmium (Cd)	ug/L	0.0125	0.0059	0.0141	0.0780	0.0231	0.0050	8861191
Dissolved Chromium (Cr)	ug/L	0.14	0.12	0.18	0.10	<0.10	0.10	8861191
Dissolved Cobalt (Co)	ug/L	0.0263	0.0252	0.0255	0.0091	0.0114	0.0050	8861191
Dissolved Copper (Cu)	ug/L	1.21	0.828	1.26	0.909	0.382	0.050	8861191
Dissolved Iron (Fe)	ug/L	8.4	5.2	9.2	4.7	3.1	1.0	8861191
Dissolved Lead (Pb)	ug/L	<0.0050	<0.0050	<0.0050	0.0126	<0.0050	0.0050	8861191
Dissolved Lithium (Li)	ug/L	<0.50	1.31	0.70	1.66	1.29	0.50	8861191
Dissolved Manganese (Mn)	ug/L	0.879	14.4	0.284	1.62	4.66	0.050	8861191
Dissolved Molybdenum (Mo)	ug/L	0.617	1.60	0.282	1.28	1.27	0.050	8861191
Dissolved Nickel (Ni)	ug/L	0.618	0.367	0.794	1.34	0.294	0.020	8861191
Dissolved Phosphorus (P)	ug/L	3.5	3.2	4.6	26.6	<2.0	2.0	8861191
Dissolved Selenium (Se)	ug/L	0.061	0.064	0.077	0.359	0.368	0.040	8861191
Dissolved Silicon (Si)	ug/L	4300	5310	4500	2870	2650	50	8861191
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8861191
Dissolved Strontium (Sr)	ug/L	174	455	132	147	154	0.050	8861191
Dissolved Thallium (Tl)	ug/L	0.0022	<0.0020	0.0021	0.0022	<0.0020	0.0020	8861191
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	8861191
Dissolved Titanium (Ti)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	8861191
Dissolved Uranium (U)	ug/L	1.02	58.5	0.410	1.13	1.37	0.0020	8861191
Dissolved Vanadium (V)	ug/L	<0.20	0.24	<0.20	<0.20	<0.20	0.20	8861191
RDL = Reportable Detection Limit								

Maxxam Job #: B7B0016
Report Date: 2017/12/19

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SQ9371	SQ9372	SQ9384	SQ9385	SQ9386		
Sampling Date		2017/12/09 12:05	2017/12/10 14:05	2017/12/10 13:05	2017/12/10 11:15	2017/12/10 12:50		
COC Number		542329-01-01	542329-01-01	542329-02-01	542329-02-01	542329-02-01		
	UNITS	CC-X	HC-2.5	IC-4.5	YUK-2.0	YUK-5.0	RDL	QC Batch
Dissolved Zinc (Zn)	ug/L	1.03	0.24	0.72	7.19	1.22	0.10	8861191
Dissolved Zirconium (Zr)	ug/L	0.27	0.25	0.41	<0.10	<0.10	0.10	8861191
Dissolved Calcium (Ca)	mg/L	30.7	41.3	23.9	29.2	31.3	0.050	8860165
Dissolved Magnesium (Mg)	mg/L	10.4	16.6	7.49	8.13	8.50	0.050	8860165
Dissolved Potassium (K)	mg/L	1.44	2.59	1.21	0.876	0.854	0.050	8860165
Dissolved Sodium (Na)	mg/L	4.26	3.78	3.53	2.39	2.13	0.050	8860165
Dissolved Sulphur (S)	mg/L	22.3	19.8	15.3	10.7	9.2	3.0	8860165
RDL = Reportable Detection Limit								

Maxxam Job #: B7B0016
Report Date: 2017/12/19

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SQ9387	SQ9388	SQ9389	SQ9390		
Sampling Date		2017/12/09 11:35	2017/12/11 12:05	2017/12/11 11:00	2017/12/11 11:50		
COC Number		542329-02-01	542329-02-01	542329-02-01	542329-03-01		
	UNITS	BALLARAT U/S Y.R.	BARKER U/S S.R.	BLACKHILLS U/S S.R.	STEWART D/S M.M.	RDL	QC Batch

Calculated Parameters

Dissolved Hardness (CaCO3)	mg/L	310	245	236	210	0.50	8859886
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Elements

Dissolved Mercury (Hg)	ug/L	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8861203
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Dissolved Metals by ICPMS

Dissolved Aluminum (Al)	ug/L	6.11	12.6	13.6	4.84	0.50	8861191
Dissolved Antimony (Sb)	ug/L	0.055	0.345	0.149 (1)	0.134	0.020	8861191
Dissolved Arsenic (As)	ug/L	0.193	1.00	1.34	0.250	0.020	8861191
Dissolved Barium (Ba)	ug/L	85.3	142	186	82.4	0.020	8861191
Dissolved Beryllium (Be)	ug/L	<0.010	<0.010	0.028	<0.010	0.010	8861191
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8861191
Dissolved Boron (B)	ug/L	<10	<10	<10	<10	10	8861191
Dissolved Cadmium (Cd)	ug/L	0.119 (1)	0.0536	0.0155	0.128	0.0050	8861191
Dissolved Chromium (Cr)	ug/L	0.32	0.25	1.24 (1)	<0.10	0.10	8861191
Dissolved Cobalt (Co)	ug/L	0.0262	0.561	0.727	0.0210	0.0050	8861191
Dissolved Copper (Cu)	ug/L	1.61	2.81	0.528	0.385	0.050	8861191
Dissolved Iron (Fe)	ug/L	7.0	268	2910	3.5	1.0	8861191
Dissolved Lead (Pb)	ug/L	0.0100	0.0080	0.0303	<0.0050	0.0050	8861191
Dissolved Lithium (Li)	ug/L	<0.50	1.22	2.10	3.79	0.50	8861191
Dissolved Manganese (Mn)	ug/L	0.959	146	760	7.48	0.050	8861191
Dissolved Molybdenum (Mo)	ug/L	0.807	0.999	0.441	0.631	0.050	8861191
Dissolved Nickel (Ni)	ug/L	0.394	3.84	2.15	3.15	0.020	8861191
Dissolved Phosphorus (P)	ug/L	25.7	9.5	40.8	2.0	2.0	8861191
Dissolved Selenium (Se)	ug/L	0.120	0.205	0.123	0.821	0.040	8861191
Dissolved Silicon (Si)	ug/L	4440	5080	7460	2680	50	8861191
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8861191
Dissolved Strontium (Sr)	ug/L	607	386	306	274	0.050	8861191
Dissolved Thallium (Tl)	ug/L	<0.0020	0.0081	<0.0020	0.0028	0.0020	8861191
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8861191
Dissolved Titanium (Ti)	ug/L	<0.50	<0.50	1.12	<0.50	0.50	8861191
Dissolved Uranium (U)	ug/L	4.83	5.57	0.809	1.27	0.0020	8861191

RDL = Reportable Detection Limit

(1) Dissolved greater than total. Reanalysis yields similar results.

Maxxam Job #: B7B0016
Report Date: 2017/12/19

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SQ9387	SQ9388	SQ9389	SQ9390		
Sampling Date		2017/12/09 11:35	2017/12/11 12:05	2017/12/11 11:00	2017/12/11 11:50		
COC Number		542329-02-01	542329-02-01	542329-02-01	542329-03-01		
	UNITS	BALLARAT U/S Y.R.	BARKER U/S S.R.	BLACKHILLS U/S S.R.	STEWART D/S M.M.	RDL	QC Batch
Dissolved Vanadium (V)	ug/L	0.28	0.44	1.20	<0.20	0.20	8861191
Dissolved Zinc (Zn)	ug/L	9.11	1.57	1.91 (1)	9.47	0.10	8861191
Dissolved Zirconium (Zr)	ug/L	0.17	0.38	0.64	<0.10	0.10	8861191
Dissolved Calcium (Ca)	mg/L	73.6	61.5	65.1	54.2	0.050	8860165
Dissolved Magnesium (Mg)	mg/L	30.8	22.1	17.7	18.2	0.050	8860165
Dissolved Potassium (K)	mg/L	3.04	2.10	2.16	0.709	0.050	8860165
Dissolved Sodium (Na)	mg/L	9.21	9.67	6.51	2.49	0.050	8860165
Dissolved Sulphur (S)	mg/L	56.9	33.9	24.1	31.2	3.0	8860165
RDL = Reportable Detection Limit							
(1) Dissolved greater than total. Reanalysis yields similar results.							

Maxxam Job #: B7B0016
Report Date: 2017/12/19

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SQ9391	SQ9392	SQ9393	SQ9394			SQ9394		
Sampling Date		2017/12/09 12:45			2017/12/09 20:00			2017/12/09 20:00		
COC Number		542329-03-01	542329-03-01	542329-03-01	542329-03-01			542329-03-01		
	UNITS	LATTE MIX	SAMPLE A	SAMPLE B	FIELD BLANK	RDL	QC Batch	FIELD BLANK Lab-Dup	RDL	QC Batch

Calculated Parameters

Dissolved Hardness (CaCO3)	mg/L	207	121	242	<0.50	0.50	8859886			
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Elements

Dissolved Mercury (Hg)	ug/L	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8861203	<0.0020	0.0020	8861203
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Dissolved Metals by ICPMS

Dissolved Aluminum (Al)	ug/L	11.9	22.7	11.8	<0.50	0.50	8861191			
Dissolved Antimony (Sb)	ug/L	0.071	0.077	0.407	<0.020	0.020	8861191			
Dissolved Arsenic (As)	ug/L	0.307	0.244	1.04	<0.020	0.020	8861191			
Dissolved Barium (Ba)	ug/L	92.8	76.1	142	<0.020	0.020	8861191			
Dissolved Beryllium (Be)	ug/L	<0.010	<0.010	<0.010	<0.010	0.010	8861191			
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8861191			
Dissolved Boron (B)	ug/L	<10	<10	<10	<10	10	8861191			
Dissolved Cadmium (Cd)	ug/L	0.0057	0.0107	0.0580	<0.0050	0.0050	8861191			
Dissolved Chromium (Cr)	ug/L	0.10	0.15	0.21	<0.10	0.10	8861191			
Dissolved Cobalt (Co)	ug/L	0.0422	0.0297	0.596	<0.0050	0.0050	8861191			
Dissolved Copper (Cu)	ug/L	0.826	1.18	3.18	<0.050	0.050	8861191			
Dissolved Iron (Fe)	ug/L	21.0	8.0	219	<1.0	1.0	8861191			
Dissolved Lead (Pb)	ug/L	<0.0050	0.0087	<0.0050	<0.0050	0.0050	8861191			
Dissolved Lithium (Li)	ug/L	1.32	<0.50	1.18	<0.50	0.50	8861191			
Dissolved Manganese (Mn)	ug/L	15.5	2.17	135	<0.050	0.050	8861191			
Dissolved Molybdenum (Mo)	ug/L	0.541	0.574	1.08	<0.050	0.050	8861191			
Dissolved Nickel (Ni)	ug/L	0.535	0.576	4.14	<0.020	0.020	8861191			
Dissolved Phosphorus (P)	ug/L	2.5	5.6	8.8	<2.0	2.0	8861191			
Dissolved Selenium (Se)	ug/L	0.111	0.065	0.242	<0.040	0.040	8861191			
Dissolved Silicon (Si)	ug/L	5170	4290	5190	<50	50	8861191			
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8861191			
Dissolved Strontium (Sr)	ug/L	333	176	380	<0.050	0.050	8861191			
Dissolved Thallium (Tl)	ug/L	0.0024	<0.0020	0.0076	<0.0020	0.0020	8861191			
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8861191			
Dissolved Titanium (Ti)	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	8861191			
Dissolved Uranium (U)	ug/L	19.7	1.52	5.72	<0.0020	0.0020	8861191			

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Maxxam Job #: B7B0016
Report Date: 2017/12/19

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SQ9391	SQ9392	SQ9393	SQ9394			SQ9394		
Sampling Date		2017/12/09 12:45			2017/12/09 20:00			2017/12/09 20:00		
COC Number		542329-03-01	542329-03-01	542329-03-01	542329-03-01			542329-03-01		
	UNITS	LATTE MIX	SAMPLE A	SAMPLE B	FIELD BLANK	RDL	QC Batch	FIELD BLANK Lab-Dup	RDL	QC Batch
Dissolved Vanadium (V)	ug/L	<0.20	0.20	0.36	<0.20	0.20	8861191			
Dissolved Zinc (Zn)	ug/L	0.27	0.91 (1)	1.29	<0.10	0.10	8861191			
Dissolved Zirconium (Zr)	ug/L	0.25	0.26	0.40	<0.10	0.10	8861191			
Dissolved Calcium (Ca)	mg/L	56.7	30.7	60.8	<0.050	0.050	8860165			
Dissolved Magnesium (Mg)	mg/L	15.8	10.7	22.0	<0.050	0.050	8860165			
Dissolved Potassium (K)	mg/L	2.18	1.52	2.01	<0.050	0.050	8860165			
Dissolved Sodium (Na)	mg/L	5.82	4.35	9.52	<0.050	0.050	8860165			
Dissolved Sulphur (S)	mg/L	28.9	21.3	35.0	<3.0	3.0	8860165			

RDL = Reportable Detection Limit

Lab-Dup = Laboratory Initiated Duplicate

(1) Dissolved greater than total. Reanalysis yields similar results.

Maxxam Job #: B7B0016
Report Date: 2017/12/19

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SQ9395		
Sampling Date		2017/12/11 16:40		
COC Number		542329-03-01		
	UNITS	TRIP BLANK	RDL	QC Batch
Calculated Parameters				
Dissolved Hardness (CaCO3)	mg/L	<0.50	0.50	8859886
Elements				
Dissolved Mercury (Hg)	ug/L	<0.0020	0.0020	8861203
Dissolved Metals by ICPMS				
Dissolved Aluminum (Al)	ug/L	<0.50	0.50	8861191
Dissolved Antimony (Sb)	ug/L	<0.020	0.020	8861191
Dissolved Arsenic (As)	ug/L	<0.020	0.020	8861191
Dissolved Barium (Ba)	ug/L	<0.020	0.020	8861191
Dissolved Beryllium (Be)	ug/L	<0.010	0.010	8861191
Dissolved Bismuth (Bi)	ug/L	<0.0050	0.0050	8861191
Dissolved Boron (B)	ug/L	<10	10	8861191
Dissolved Cadmium (Cd)	ug/L	<0.0050	0.0050	8861191
Dissolved Chromium (Cr)	ug/L	<0.10	0.10	8861191
Dissolved Cobalt (Co)	ug/L	<0.0050	0.0050	8861191
Dissolved Copper (Cu)	ug/L	<0.050	0.050	8861191
Dissolved Iron (Fe)	ug/L	<1.0	1.0	8861191
Dissolved Lead (Pb)	ug/L	<0.0050	0.0050	8861191
Dissolved Lithium (Li)	ug/L	<0.50	0.50	8861191
Dissolved Manganese (Mn)	ug/L	<0.050	0.050	8861191
Dissolved Molybdenum (Mo)	ug/L	<0.050	0.050	8861191
Dissolved Nickel (Ni)	ug/L	<0.020	0.020	8861191
Dissolved Phosphorus (P)	ug/L	<2.0	2.0	8861191
Dissolved Selenium (Se)	ug/L	<0.040	0.040	8861191
Dissolved Silicon (Si)	ug/L	<50	50	8861191
Dissolved Silver (Ag)	ug/L	<0.0050	0.0050	8861191
Dissolved Strontium (Sr)	ug/L	<0.050	0.050	8861191
Dissolved Thallium (Tl)	ug/L	<0.0020	0.0020	8861191
Dissolved Tin (Sn)	ug/L	<0.20	0.20	8861191
Dissolved Titanium (Ti)	ug/L	<0.50	0.50	8861191
Dissolved Uranium (U)	ug/L	<0.0020	0.0020	8861191
Dissolved Vanadium (V)	ug/L	<0.20	0.20	8861191
RDL = Reportable Detection Limit				

Maxxam Job #: B7B0016
Report Date: 2017/12/19

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SQ9395		
Sampling Date		2017/12/11 16:40		
COC Number		542329-03-01		
	UNITS	TRIP BLANK	RDL	QC Batch
Dissolved Zinc (Zn)	ug/L	<0.10	0.10	8861191
Dissolved Zirconium (Zr)	ug/L	<0.10	0.10	8861191
Dissolved Calcium (Ca)	mg/L	<0.050	0.050	8860165
Dissolved Magnesium (Mg)	mg/L	<0.050	0.050	8860165
Dissolved Potassium (K)	mg/L	<0.050	0.050	8860165
Dissolved Sodium (Na)	mg/L	<0.050	0.050	8860165
Dissolved Sulphur (S)	mg/L	<3.0	3.0	8860165
RDL = Reportable Detection Limit				

Maxxam Job #: B7B0016
Report Date: 2017/12/19

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		SQ9365	SQ9366	SQ9367	SQ9369	SQ9370	SQ9371		
Sampling Date		2017/12/09 13:10	2017/12/09 14:20	2017/12/09 13:25	2017/12/09 14:55	2017/12/09 13:40	2017/12/09 12:05		
COC Number		542329-01-01	542329-01-01	542329-01-01	542329-01-01	542329-01-01	542329-01-01		
	UNITS	CC-0.5	CC-1.5	CC-3.5	CC-A	CC-B	CC-X	RDL	QC Batch
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	198	359	185	271	336	121	0.50	8859784
Elements									
Total Mercury (Hg)	ug/L	<0.0020	<0.0020	0.0024	<0.0020	<0.0020	<0.0020	0.0020	8861293
Total Metals by ICPMS									
Total Aluminum (Al)	ug/L	17.0	35.5	17.0	41.9	54.0	92.5	0.50	8861331
Total Antimony (Sb)	ug/L	0.083	0.097	0.071	0.105	0.135	0.077	0.020	8861331
Total Arsenic (As)	ug/L	0.270	1.01	0.266	0.438	0.625	0.291	0.020	8861331
Total Barium (Ba)	ug/L	89.5	76.4	88.5	62.8	109	77.3	0.020	8861331
Total Beryllium (Be)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	8861331
Total Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8861331
Total Boron (B)	ug/L	<10	<10	<10	<10	<10	<10	10	8861331
Total Cadmium (Cd)	ug/L	0.0090	0.0110	0.0050	0.0170	0.0090	0.0150	0.0050	8861331
Total Chromium (Cr)	ug/L	0.11	0.16	0.13	0.36	0.16	0.28	0.10	8861331
Total Cobalt (Co)	ug/L	0.0490	0.0380	0.0230	0.0650	0.0320	0.0890	0.0050	8861331
Total Copper (Cu)	ug/L	1.02	1.07	0.836	1.50	0.958	1.38	0.050	8861331
Total Iron (Fe)	ug/L	24.1	42.6	6.9	61.0	87.0	108	1.0	8861331
Total Lead (Pb)	ug/L	0.0110	0.0370	0.0100	0.0800	0.0280	0.0590	0.0050	8861331
Total Lithium (Li)	ug/L	2.02	2.48	0.64	2.67	1.60	<0.50	0.50	8861331
Total Manganese (Mn)	ug/L	21.5	16.8	0.400	24.3	2.44	8.05	0.050	8861331
Total Molybdenum (Mo)	ug/L	0.544	0.389	0.230	0.171	0.536	0.593	0.050	8861331
Total Nickel (Ni)	ug/L	0.661	0.434	0.461	0.370	0.370	0.638	0.020	8861331
Total Phosphorus (P)	ug/L	<2.0	6.6	7.2	10.0	5.5	6.2	2.0	8861331
Total Selenium (Se)	ug/L	0.095	0.159	0.044	<0.040	0.105	0.054	0.040	8861331
Total Silicon (Si)	ug/L	6500	5230	4640	6200	5750	4820	50	8861331
Total Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8861331
Total Strontium (Sr)	ug/L	263	712	347	539	830	156	0.050	8861331
Total Thallium (Tl)	ug/L	0.0020	0.0040	<0.0020	0.0050	0.0020	0.0030	0.0020	8861331
Total Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	8861331
Total Titanium (Ti)	ug/L	<0.50	2.11	<0.50	2.46	2.05	3.75	0.50	8861331
Total Uranium (U)	ug/L	23.8	29.8	7.84	15.2	27.0	1.12	0.0020	8861331
Total Vanadium (V)	ug/L	0.23	0.31	0.21	<0.20	0.38	0.44	0.20	8861331
RDL = Reportable Detection Limit									

Maxxam Job #: B7B0016
Report Date: 2017/12/19

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		SQ9365	SQ9366	SQ9367	SQ9369	SQ9370	SQ9371		
Sampling Date		2017/12/09 13:10	2017/12/09 14:20	2017/12/09 13:25	2017/12/09 14:55	2017/12/09 13:40	2017/12/09 12:05		
COC Number		542329-01-01	542329-01-01	542329-01-01	542329-01-01	542329-01-01	542329-01-01		
	UNITS	CC-0.5	CC-1.5	CC-3.5	CC-A	CC-B	CC-X	RDL	QC Batch
Total Zinc (Zn)	ug/L	0.37	0.76	0.44	1.72	0.71	2.35	0.10	8861331
Total Zirconium (Zr)	ug/L	0.26	0.22	0.22	0.18	0.24	0.20	0.10	8861331
Total Calcium (Ca)	mg/L	52.8	94.0	49.5	75.8	87.8	30.7	0.050	8860648
Total Magnesium (Mg)	mg/L	16.0	30.3	14.9	19.9	28.3	10.9	0.050	8860648
Total Potassium (K)	mg/L	1.79	5.08	2.42	3.17	5.25	1.42	0.050	8860648
Total Sodium (Na)	mg/L	7.23	6.65	4.32	7.12	5.31	4.56	0.050	8860648
Total Sulphur (S)	mg/L	31.9	63.8	31.5	57.8	61.9	23.6	3.0	8860648
RDL = Reportable Detection Limit									

Maxxam Job #: B7B0016
Report Date: 2017/12/19

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		SQ9372	SQ9386	SQ9387	SQ9390	SQ9391		
Sampling Date		2017/12/10 14:05	2017/12/10 12:50	2017/12/09 11:35	2017/12/11 11:50	2017/12/09 12:45		
COC Number		542329-01-01	542329-02-01	542329-02-01	542329-03-01	542329-03-01		
	UNITS	HC-2.5	YUK-5.0	BALLARAT U/S Y.R.	STEWART D/S M.M.	LATTE MIX	RDL	QC Batch
Calculated Parameters								
Total Hardness (CaCO3)	mg/L	174	116	331	216	203	0.50	8859784
Elements								
Total Mercury (Hg)	ug/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8861293
Total Metals by ICPMS								
Total Aluminum (Al)	ug/L	20.2	8.58	33.4	65.7	12.7	0.50	8861331
Total Antimony (Sb)	ug/L	0.471	0.089	0.121	0.168	0.074	0.020	8861331
Total Arsenic (As)	ug/L	0.607	0.174	0.230	0.466	0.286	0.020	8861331
Total Barium (Ba)	ug/L	56.7	79.1	89.6	89.7	90.7	0.020	8861331
Total Beryllium (Be)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	8861331
Total Bismuth (Bi)	ug/L	<0.0050	<0.0050	0.0090	<0.0050	<0.0050	0.0050	8861331
Total Boron (B)	ug/L	<10	<10	<10	<10	<10	10	8861331
Total Cadmium (Cd)	ug/L	<0.0050	0.0240	0.0310	0.171	0.0070	0.0050	8861331
Total Chromium (Cr)	ug/L	0.13	<0.10	0.51	0.19	0.11	0.10	8861331
Total Cobalt (Co)	ug/L	0.0290	0.0220	0.0600	0.129	0.0400	0.0050	8861331
Total Copper (Cu)	ug/L	0.850	0.557	2.02	0.874	0.803	0.050	8861331
Total Iron (Fe)	ug/L	15.5	22.2	54.7	154	24.9	1.0	8861331
Total Lead (Pb)	ug/L	0.0050	0.0240	0.218	0.175	<0.0050	0.0050	8861331
Total Lithium (Li)	ug/L	1.31	1.21	<0.50	3.83	1.31	0.50	8861331
Total Manganese (Mn)	ug/L	17.3	5.32	12.5	17.7	15.2	0.050	8861331
Total Molybdenum (Mo)	ug/L	1.52	1.16	0.777	0.611	0.496	0.050	8861331
Total Nickel (Ni)	ug/L	0.319	0.282	0.505	3.54	0.499	0.020	8861331
Total Phosphorus (P)	ug/L	4.4	4.7	28.4	29.6	3.6	2.0	8861331
Total Selenium (Se)	ug/L	0.069	0.429	0.159	0.865	0.119	0.040	8861331
Total Silicon (Si)	ug/L	6070	2510	4710	3240	5430	50	8861331
Total Silver (Ag)	ug/L	<0.0050	<0.0050	0.0080	0.0050	<0.0050	0.0050	8861331
Total Strontium (Sr)	ug/L	416	145	598	257	309	0.050	8861331
Total Thallium (Tl)	ug/L	0.0020	<0.0020	<0.0020	0.0040	<0.0020	0.0020	8861331
Total Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	8861331
Total Titanium (Ti)	ug/L	0.60	0.82	1.44	4.20	<0.50	0.50	8861331
Total Uranium (U)	ug/L	53.0	1.26	4.82	1.20	18.4	0.0020	8861331
Total Vanadium (V)	ug/L	0.26	<0.20	0.39	0.27	0.21	0.20	8861331
RDL = Reportable Detection Limit								

Maxxam Job #: B7B0016
Report Date: 2017/12/19

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		SQ9372	SQ9386	SQ9387	SQ9390	SQ9391		
Sampling Date		2017/12/10 14:05	2017/12/10 12:50	2017/12/09 11:35	2017/12/11 11:50	2017/12/09 12:45		
COC Number		542329-01-01	542329-02-01	542329-02-01	542329-03-01	542329-03-01		
	UNITS	HC-2.5	YUK-5.0	BALLARAT U/S Y.R.	STEWART D/S M.M.	LATTE MIX	RDL	QC Batch
Total Zinc (Zn)	ug/L	0.19	1.42	11.1	14.7	0.23	0.10	8861331
Total Zirconium (Zr)	ug/L	0.21	<0.10	0.15	<0.10	0.23	0.10	8861331
Total Calcium (Ca)	mg/L	42.3	31.6	77.1	55.9	53.8	0.050	8860648
Total Magnesium (Mg)	mg/L	16.6	8.97	33.7	18.6	16.5	0.050	8860648
Total Potassium (K)	mg/L	2.51	0.845	3.12	0.733	2.14	0.050	8860648
Total Sodium (Na)	mg/L	3.90	2.31	10.0	2.82	6.01	0.050	8860648
Total Sulphur (S)	mg/L	20.1	9.8	61.9	32.4	30.8	3.0	8860648
RDL = Reportable Detection Limit								

Maxxam Job #: B7B0016
Report Date: 2017/12/19

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		SQ9392	SQ9394	SQ9395			SQ9395		
Sampling Date			2017/12/09 20:00	2017/12/11 16:40			2017/12/11 16:40		
COC Number		542329-03-01	542329-03-01	542329-03-01			542329-03-01		
	UNITS	SAMPLE A	FIELD BLANK	TRIP BLANK	RDL	QC Batch	TRIP BLANK Lab-Dup	RDL	QC Batch

Calculated Parameters

Total Hardness (CaCO3)	mg/L	120	<0.50	<0.50	0.50	8859784			
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Elements

Total Mercury (Hg)	ug/L	<0.0020	<0.0020	<0.0020	0.0020	8861293	<0.0020	0.0020	8861293
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Total Metals by ICPMS

Total Aluminum (Al)	ug/L	27.2	0.77	<0.50	0.50	8861331			
Total Antimony (Sb)	ug/L	0.079	<0.020	<0.020	0.020	8861331			
Total Arsenic (As)	ug/L	0.246	<0.020	<0.020	0.020	8861331			
Total Barium (Ba)	ug/L	78.5	<0.020	<0.020	0.020	8861331			
Total Beryllium (Be)	ug/L	<0.010	<0.010	<0.010	0.010	8861331			
Total Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	0.0050	8861331			
Total Boron (B)	ug/L	<10	<10	<10	10	8861331			
Total Cadmium (Cd)	ug/L	0.0070	<0.0050	<0.0050	0.0050	8861331			
Total Chromium (Cr)	ug/L	0.14	<0.10	<0.10	0.10	8861331			
Total Cobalt (Co)	ug/L	0.0320	0.0050	<0.0050	0.0050	8861331			
Total Copper (Cu)	ug/L	1.15	<0.050	<0.050	0.050	8861331			
Total Iron (Fe)	ug/L	13.5	1.2	<1.0	1.0	8861331			
Total Lead (Pb)	ug/L	0.0060	0.0050	<0.0050	0.0050	8861331			
Total Lithium (Li)	ug/L	<0.50	<0.50	<0.50	0.50	8861331			
Total Manganese (Mn)	ug/L	2.73	<0.050	0.076	0.050	8861331			
Total Molybdenum (Mo)	ug/L	0.558	<0.050	<0.050	0.050	8861331			
Total Nickel (Ni)	ug/L	0.598	0.036	<0.020	0.020	8861331			
Total Phosphorus (P)	ug/L	2.5	<2.0	3.5	2.0	8861331			
Total Selenium (Se)	ug/L	0.074	<0.040	<0.040	0.040	8861331			
Total Silicon (Si)	ug/L	4700	<50	<50	50	8861331			
Total Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	0.0050	8861331			
Total Strontium (Sr)	ug/L	173	0.056	0.060	0.050	8861331			
Total Thallium (Tl)	ug/L	0.0020	<0.0020	<0.0020	0.0020	8861331			
Total Tin (Sn)	ug/L	<0.20	<0.20	<0.20	0.20	8861331			
Total Titanium (Ti)	ug/L	<0.50	<0.50	<0.50	0.50	8861331			
Total Uranium (U)	ug/L	1.50	0.0020	<0.0020	0.0020	8861331			

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Maxxam Job #: B7B0016
Report Date: 2017/12/19

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		SQ9392	SQ9394	SQ9395			SQ9395		
Sampling Date			2017/12/09 20:00	2017/12/11 16:40			2017/12/11 16:40		
COC Number		542329-03-01	542329-03-01	542329-03-01			542329-03-01		
	UNITS	SAMPLE A	FIELD BLANK	TRIP BLANK	RDL	QC Batch	TRIP BLANK Lab-Dup	RDL	QC Batch
Total Vanadium (V)	ug/L	0.24	<0.20	<0.20	0.20	8861331			
Total Zinc (Zn)	ug/L	0.43	0.13	<0.10	0.10	8861331			
Total Zirconium (Zr)	ug/L	0.22	<0.10	<0.10	0.10	8861331			
Total Calcium (Ca)	mg/L	29.8	<0.050	<0.050	0.050	8860648			
Total Magnesium (Mg)	mg/L	11.1	<0.050	<0.050	0.050	8860648			
Total Potassium (K)	mg/L	1.46	<0.050	<0.050	0.050	8860648			
Total Sodium (Na)	mg/L	4.68	<0.050	<0.050	0.050	8860648			
Total Sulphur (S)	mg/L	23.9	<3.0	<3.0	3.0	8860648			
RDL = Reportable Detection Limit									
Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B7B0016
Report Date: 2017/12/19

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		SQ9368			SQ9368			SQ9384		
Sampling Date		2017/12/09 12:20			2017/12/09 12:20			2017/12/10 13:05		
COC Number		542329-01-01			542329-01-01			542329-02-01		
	UNITS	CC-4.5	RDL	QC Batch	CC-4.5 Lab-Dup	RDL	QC Batch	IC-4.5	RDL	QC Batch

Calculated Parameters

Total Hardness (CaCO3)	mg/L	126	0.50	8859784				93.9	0.50	8859784
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Elements

Total Mercury (Hg)	ug/L	0.0021	0.0020	8861293				<0.0020	0.0020	8861293
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Total Metals by ICPMS

Total Aluminum (Al)	ug/L	34.3	3.0	8861387	38.9	3.0	8861387	62.8	3.0	8861387
Total Antimony (Sb)	ug/L	0.094	0.020	8861387	0.085	0.020	8861387	0.098	0.020	8861387
Total Arsenic (As)	ug/L	0.234	0.020	8861387	0.252	0.020	8861387	0.305	0.020	8861387
Total Barium (Ba)	ug/L	78.4	0.050	8861387	75.4	0.050	8861387	55.4	0.050	8861387
Total Beryllium (Be)	ug/L	0.011	0.010	8861387	0.013	0.010	8861387	0.017	0.010	8861387
Total Bismuth (Bi)	ug/L	<0.010	0.010	8861387	<0.010	0.010	8861387	<0.010	0.010	8861387
Total Boron (B)	ug/L	<10	10	8861387	<10	10	8861387	<10	10	8861387
Total Cadmium (Cd)	ug/L	0.0180	0.0050	8861387	0.0170	0.0050	8861387	0.0220	0.0050	8861387
Total Chromium (Cr)	ug/L	0.19	0.10	8861387	0.20	0.10	8861387	0.25	0.10	8861387
Total Cobalt (Co)	ug/L	0.036	0.010	8861387	0.034	0.010	8861387	0.049	0.010	8861387
Total Copper (Cu)	ug/L	1.29 (1)	0.10	8861387	1.78 (2)	0.10	8861387	1.52	0.10	8861387
Total Iron (Fe)	ug/L	21.7	5.0	8861387	27.0	5.0	8861387	44.2	5.0	8861387
Total Lead (Pb)	ug/L	0.022	0.020	8861387	0.033	0.020	8861387	0.038	0.020	8861387
Total Lithium (Li)	ug/L	0.51	0.50	8861387	<0.50	0.50	8861387	0.82	0.50	8861387
Total Manganese (Mn)	ug/L	3.24	0.10	8861387	3.26	0.10	8861387	2.62	0.10	8861387
Total Molybdenum (Mo)	ug/L	0.595	0.050	8861387	0.571	0.050	8861387	0.288	0.050	8861387
Total Nickel (Ni)	ug/L	0.70	0.10	8861387	0.74	0.10	8861387	0.96	0.10	8861387
Total Phosphorus (P)	ug/L	9.0	5.0	8861387	5.9	5.0	8861387	7.8	5.0	8861387
Total Selenium (Se)	ug/L	0.068	0.040	8861387	0.059	0.040	8861387	0.085	0.040	8861387
Total Silicon (Si)	ug/L	4920	50	8861387	5050	50	8861387	5200	50	8861387
Total Silver (Ag)	ug/L	<0.010	0.010	8861387	<0.010	0.010	8861387	<0.010	0.010	8861387
Total Strontium (Sr)	ug/L	176	0.050	8861387	166	0.050	8861387	130	0.050	8861387
Total Thallium (Tl)	ug/L	0.0030	0.0020	8861387	0.0030	0.0020	8861387	0.0040	0.0020	8861387
Total Tin (Sn)	ug/L	<0.20	0.20	8861387	<0.20	0.20	8861387	<0.20	0.20	8861387

RDL = Reportable Detection Limit
 Lab-Dup = Laboratory Initiated Duplicate
 (1) Duplicate RPD for (Cu) above control limit - Reanalysis confirmed sample inhomogeneity.
 (2) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

Maxxam Job #: B7B0016
Report Date: 2017/12/19

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		SQ9368			SQ9368			SQ9384		
Sampling Date		2017/12/09 12:20			2017/12/09 12:20			2017/12/10 13:05		
COC Number		542329-01-01			542329-01-01			542329-02-01		
	UNITS	CC-4.5	RDL	QC Batch	CC-4.5 Lab-Dup	RDL	QC Batch	IC-4.5	RDL	QC Batch
Total Titanium (Ti)	ug/L	<2.0	2.0	8861387	<2.0	2.0	8861387	<2.0	2.0	8861387
Total Uranium (U)	ug/L	1.77	0.0050	8861387	1.71	0.0050	8861387	0.501	0.0050	8861387
Total Vanadium (V)	ug/L	0.26	0.20	8861387	0.25	0.20	8861387	0.25	0.20	8861387
Total Zinc (Zn)	ug/L	<1.0	1.0	8861387	<1.0	1.0	8861387	1.2	1.0	8861387
Total Zirconium (Zr)	ug/L	0.24	0.10	8861387	0.24	0.10	8861387	0.35	0.10	8861387
Total Calcium (Ca)	mg/L	31.6	0.25	8860648				24.8	0.25	8860648
Total Magnesium (Mg)	mg/L	11.4	0.25	8860648				7.75	0.25	8860648
Total Potassium (K)	mg/L	1.45	0.25	8860648				1.18	0.25	8860648
Total Sodium (Na)	mg/L	4.42	0.25	8860648				3.56	0.25	8860648
Total Sulphur (S)	mg/L	25.2	3.0	8860648				16.8	3.0	8860648
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B7B0016
Report Date: 2017/12/19

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		SQ9385	SQ9388	SQ9389	SQ9393		
Sampling Date		2017/12/10 11:15	2017/12/11 12:05	2017/12/11 11:00			
COC Number		542329-02-01	542329-02-01	542329-02-01	542329-03-01		
	UNITS	YUK-2.0	BARKER U/S S.R.	BLACKHILLS U/S S.R.	SAMPLE B	RDL	QC Batch
Calculated Parameters							
Total Hardness (CaCO3)	mg/L	108	242	229	244	0.50	8859784
Elements							
Total Mercury (Hg)	ug/L	<0.0020	0.0021	<0.0020	<0.0020	0.0020	8861293
Total Metals by ICPMS							
Total Aluminum (Al)	ug/L	62.3	23.9	60.1	17.6	3.0	8861387
Total Antimony (Sb)	ug/L	0.132	0.384	0.085	0.390	0.020	8861387
Total Arsenic (As)	ug/L	0.435	1.24	2.15	1.30	0.020	8861387
Total Barium (Ba)	ug/L	52.4	146	183	141	0.050	8861387
Total Beryllium (Be)	ug/L	0.014	0.016	0.048	0.015	0.010	8861387
Total Bismuth (Bi)	ug/L	<0.010	<0.010	<0.010	<0.010	0.010	8861387
Total Boron (B)	ug/L	<10	<10	<10	<10	10	8861387
Total Cadmium (Cd)	ug/L	0.115	0.105	0.0230	0.0960	0.0050	8861387
Total Chromium (Cr)	ug/L	0.35	0.24	0.91	0.24	0.10	8861387
Total Cobalt (Co)	ug/L	0.082	0.518	0.859	0.587	0.010	8861387
Total Copper (Cu)	ug/L	1.32	3.97	0.82	3.98	0.10	8861387
Total Iron (Fe)	ug/L	134	415	5510	412	5.0	8861387
Total Lead (Pb)	ug/L	0.184	0.041	0.104	0.029	0.020	8861387
Total Lithium (Li)	ug/L	1.90	1.34	2.16	1.25	0.50	8861387
Total Manganese (Mn)	ug/L	11.0	138	838	141	0.10	8861387
Total Molybdenum (Mo)	ug/L	1.28	1.05	0.475	1.07	0.050	8861387
Total Nickel (Ni)	ug/L	1.73	3.65	2.52	4.00	0.10	8861387
Total Phosphorus (P)	ug/L	40.7	16.1	59.5	16.2	5.0	8861387
Total Selenium (Se)	ug/L	0.405	0.231	0.151	0.244	0.040	8861387
Total Silicon (Si)	ug/L	3280	5590	12200	5890	50	8861387
Total Silver (Ag)	ug/L	<0.010	<0.010	<0.010	<0.010	0.010	8861387
Total Strontium (Sr)	ug/L	142	360	284	371	0.050	8861387
Total Thallium (Tl)	ug/L	0.0050	0.0100	0.0040	0.0100	0.0020	8861387
Total Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8861387
Total Titanium (Ti)	ug/L	2.4	<2.0	4.3	<2.0	2.0	8861387
Total Uranium (U)	ug/L	1.19	6.08	0.862	5.93	0.0050	8861387
Total Vanadium (V)	ug/L	0.41	0.48	2.00	0.52	0.20	8861387
RDL = Reportable Detection Limit							

Maxxam Job #: B7B0016
Report Date: 2017/12/19

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		SQ9385	SQ9388	SQ9389	SQ9393		
Sampling Date		2017/12/10 11:15	2017/12/11 12:05	2017/12/11 11:00			
COC Number		542329-02-01	542329-02-01	542329-02-01	542329-03-01		
	UNITS	YUK-2.0	BARKER U/S S.R.	BLACKHILLS U/S S.R.	SAMPLE B	RDL	QC Batch
Total Zinc (Zn)	ug/L	9.9	2.1	1.1	1.7	1.0	8861387
Total Zirconium (Zr)	ug/L	<0.10	0.36	0.73	0.39	0.10	8861387
Total Calcium (Ca)	mg/L	29.2	62.3	63.0	61.0	0.25	8860648
Total Magnesium (Mg)	mg/L	8.51	20.9	17.4	22.2	0.25	8860648
Total Potassium (K)	mg/L	0.86	1.89	1.94	1.96	0.25	8860648
Total Sodium (Na)	mg/L	2.90	9.25	6.31	9.53	0.25	8860648
Total Sulphur (S)	mg/L	24.7	35.1	25.2	36.2	3.0	8860648
RDL = Reportable Detection Limit							

Maxxam Job #: B7B0016
Report Date: 2017/12/19

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

GENERAL COMMENTS

Sample SQ9365 [CC-0.5] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SQ9366 [CC-1.5] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SQ9367 [CC-3.5] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SQ9368 [CC-4.5] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SQ9369 [CC-A] : Sample was analyzed past method specified hold time for Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level).

Sample SQ9370 [CC-B] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SQ9371 [CC-X] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SQ9387 [BALLARAT U/S Y.R.] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SQ9391 [LATTE MIX] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SQ9394 [FIELD BLANK] : Sample was analyzed past method specified hold time for Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level).

Sample SQ9369, Elements by ICPMS Low Level (dissolved): Test repeated.

Results relate only to the items tested.

Maxxam Job #: B7B0016
Report Date: 2017/12/19

QUALITY ASSURANCE REPORT

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8861191	Dissolved Aluminum (Al)	2017/12/15	105	80 - 120	105	80 - 120	<0.50	ug/L	2.6	20
8861191	Dissolved Antimony (Sb)	2017/12/15	104	80 - 120	102	80 - 120	<0.020	ug/L	1.4	20
8861191	Dissolved Arsenic (As)	2017/12/15	107	80 - 120	105	80 - 120	<0.020	ug/L	0.44	20
8861191	Dissolved Barium (Ba)	2017/12/15	NC	80 - 120	104	80 - 120	<0.020	ug/L	1.6	20
8861191	Dissolved Beryllium (Be)	2017/12/15	100	80 - 120	100	80 - 120	<0.010	ug/L	NC	20
8861191	Dissolved Bismuth (Bi)	2017/12/15	97	80 - 120	99	80 - 120	<0.0050	ug/L	NC	20
8861191	Dissolved Boron (B)	2017/12/15	101	80 - 120	104	80 - 120	<10	ug/L	NC	20
8861191	Dissolved Cadmium (Cd)	2017/12/15	103	80 - 120	102	80 - 120	<0.0050	ug/L	17	20
8861191	Dissolved Chromium (Cr)	2017/12/15	99	80 - 120	101	80 - 120	<0.10	ug/L	1.3	20
8861191	Dissolved Cobalt (Co)	2017/12/15	99	80 - 120	102	80 - 120	<0.0050	ug/L	3.1	20
8861191	Dissolved Copper (Cu)	2017/12/15	94	80 - 120	99	80 - 120	<0.050	ug/L	2.2	20
8861191	Dissolved Iron (Fe)	2017/12/15	99	80 - 120	100	80 - 120	<1.0	ug/L	0.46	20
8861191	Dissolved Lead (Pb)	2017/12/15	98	80 - 120	99	80 - 120	<0.0050	ug/L	NC	20
8861191	Dissolved Lithium (Li)	2017/12/15	101	80 - 120	102	80 - 120	<0.50	ug/L	0.43	20
8861191	Dissolved Manganese (Mn)	2017/12/15	NC	80 - 120	104	80 - 120	<0.050	ug/L	0.27	20
8861191	Dissolved Molybdenum (Mo)	2017/12/15	113	80 - 120	107	80 - 120	<0.050	ug/L	13	20
8861191	Dissolved Nickel (Ni)	2017/12/15	98	80 - 120	103	80 - 120	<0.020	ug/L	1.7	20
8861191	Dissolved Phosphorus (P)	2017/12/15					<2.0	ug/L	NC	20
8861191	Dissolved Selenium (Se)	2017/12/15	102	80 - 120	103	80 - 120	<0.040	ug/L	14	20
8861191	Dissolved Silicon (Si)	2017/12/15					<50	ug/L	1.3	20
8861191	Dissolved Silver (Ag)	2017/12/15	106	80 - 120	108	80 - 120	<0.0050	ug/L	NC	20
8861191	Dissolved Strontium (Sr)	2017/12/15	NC	80 - 120	102	80 - 120	<0.050	ug/L	0.66	20
8861191	Dissolved Thallium (Tl)	2017/12/15	100	80 - 120	99	80 - 120	<0.0020	ug/L	0	20
8861191	Dissolved Tin (Sn)	2017/12/15	104	80 - 120	102	80 - 120	<0.20	ug/L	NC	20
8861191	Dissolved Titanium (Ti)	2017/12/15	102	80 - 120	102	80 - 120	<0.50	ug/L	NC	20
8861191	Dissolved Uranium (U)	2017/12/15	NC	80 - 120	99	80 - 120	<0.0020	ug/L	0.70	20
8861191	Dissolved Vanadium (V)	2017/12/15	103	80 - 120	102	80 - 120	<0.20	ug/L	NC	20
8861191	Dissolved Zinc (Zn)	2017/12/15	104	80 - 120	102	80 - 120	<0.10	ug/L	14	20
8861191	Dissolved Zirconium (Zr)	2017/12/15	105	80 - 120	101	80 - 120	<0.10	ug/L	0.85	20
8861203	Dissolved Mercury (Hg)	2017/12/13	94	80 - 120	95	80 - 120	<0.0020	ug/L	NC	20
8861207	Total Suspended Solids	2017/12/14			100	80 - 120	<1.0	mg/L		

Maxxam Job #: B7B0016
Report Date: 2017/12/19

QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8861258	Total Suspended Solids	2017/12/14			102	80 - 120	<1.0	mg/L		
8861293	Total Mercury (Hg)	2017/12/13	96	80 - 120	97	80 - 120	<0.0020	ug/L	NC	20
8861331	Total Aluminum (Al)	2017/12/15	105	80 - 120	106	80 - 120	<0.50	ug/L		
8861331	Total Antimony (Sb)	2017/12/15	NC	80 - 120	102	80 - 120	<0.020	ug/L		
8861331	Total Arsenic (As)	2017/12/15	115	80 - 120	95	80 - 120	<0.020	ug/L		
8861331	Total Barium (Ba)	2017/12/15	NC	80 - 120	102	80 - 120	<0.020	ug/L		
8861331	Total Beryllium (Be)	2017/12/15	101	80 - 120	105	80 - 120	<0.010	ug/L		
8861331	Total Bismuth (Bi)	2017/12/15	100	80 - 120	107	80 - 120	<0.0050	ug/L		
8861331	Total Boron (B)	2017/12/15	101	80 - 120	107	80 - 120	<10	ug/L		
8861331	Total Cadmium (Cd)	2017/12/15	104	80 - 120	104	80 - 120	<0.0050	ug/L		
8861331	Total Chromium (Cr)	2017/12/14	98	80 - 120	98	80 - 120	<0.10	ug/L	0.46	20
8861331	Total Cobalt (Co)	2017/12/15	97	80 - 120	95	80 - 120	<0.0050	ug/L		
8861331	Total Copper (Cu)	2017/12/15	97	80 - 120	99	80 - 120	<0.050	ug/L		
8861331	Total Iron (Fe)	2017/12/15	104	80 - 120	104	80 - 120	<1.0	ug/L		
8861331	Total Lead (Pb)	2017/12/15	100	80 - 120	106	80 - 120	<0.0050	ug/L		
8861331	Total Lithium (Li)	2017/12/15	102	80 - 120	106	80 - 120	<0.50	ug/L		
8861331	Total Manganese (Mn)	2017/12/15	99	80 - 120	99	80 - 120	<0.050	ug/L		
8861331	Total Molybdenum (Mo)	2017/12/15	NC	80 - 120	104	80 - 120	<0.050	ug/L		
8861331	Total Nickel (Ni)	2017/12/15	111	80 - 120	98	80 - 120	<0.020	ug/L		
8861331	Total Phosphorus (P)	2017/12/15					<2.0	ug/L		
8861331	Total Selenium (Se)	2017/12/15	106	80 - 120	102	80 - 120	<0.040	ug/L		
8861331	Total Silicon (Si)	2017/12/15					<50	ug/L		
8861331	Total Silver (Ag)	2017/12/15	108	80 - 120	111	80 - 120	<0.0050	ug/L		
8861331	Total Strontium (Sr)	2017/12/15	NC	80 - 120	91	80 - 120	<0.050	ug/L		
8861331	Total Thallium (Tl)	2017/12/15	100	80 - 120	106	80 - 120	<0.0020	ug/L		
8861331	Total Tin (Sn)	2017/12/15	102	80 - 120	104	80 - 120	<0.20	ug/L		
8861331	Total Titanium (Ti)	2017/12/15	97	80 - 120	104	80 - 120	<0.50	ug/L		
8861331	Total Uranium (U)	2017/12/15	105	80 - 120	108	80 - 120	<0.0020	ug/L		
8861331	Total Vanadium (V)	2017/12/15	102	80 - 120	97	80 - 120	<0.20	ug/L		
8861331	Total Zinc (Zn)	2017/12/15	104	80 - 120	99	80 - 120	<0.10	ug/L		
8861331	Total Zirconium (Zr)	2017/12/15	110	80 - 120	94	80 - 120	<0.10	ug/L		

Maxxam Job #: B7B0016
Report Date: 2017/12/19

QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8861384	Total Dissolved Solids	2017/12/14	102	80 - 120	99	80 - 120	<10	mg/L	2.0	20
8861387	Total Aluminum (Al)	2017/12/14	108	80 - 120	109	80 - 120	<3.0	ug/L	12	20
8861387	Total Antimony (Sb)	2017/12/14	110	80 - 120	105	80 - 120	<0.020	ug/L	10	20
8861387	Total Arsenic (As)	2017/12/14	104	80 - 120	111	80 - 120	<0.020	ug/L	7.4	20
8861387	Total Barium (Ba)	2017/12/14	NC	80 - 120	104	80 - 120	<0.050	ug/L	3.9	20
8861387	Total Beryllium (Be)	2017/12/14	110	80 - 120	107	80 - 120	<0.010	ug/L	17	20
8861387	Total Bismuth (Bi)	2017/12/14	104	80 - 120	107	80 - 120	<0.010	ug/L	NC	20
8861387	Total Boron (B)	2017/12/14	105	80 - 120	112	80 - 120	<10	ug/L	NC	20
8861387	Total Cadmium (Cd)	2017/12/14	107	80 - 120	104	80 - 120	<0.0050	ug/L	5.7	20
8861387	Total Chromium (Cr)	2017/12/14	98	80 - 120	112	80 - 120	<0.10	ug/L	4.7	20
8861387	Total Cobalt (Co)	2017/12/14	93	80 - 120	109	80 - 120	<0.010	ug/L	5.7	20
8861387	Total Copper (Cu)	2017/12/14	92	80 - 120	113	80 - 120	<0.10	ug/L	32 (2)	20
8861387	Total Iron (Fe)	2017/12/14	110	80 - 120	93	80 - 120	<5.0	ug/L	NC	20
8861387	Total Lead (Pb)	2017/12/14	106	80 - 120	109	80 - 120	<0.020	ug/L	NC	20
8861387	Total Lithium (Li)	2017/12/14	111	80 - 120	109	80 - 120	<0.50	ug/L	1.2	20
8861387	Total Manganese (Mn)	2017/12/14	96	80 - 120	111	80 - 120	<0.10	ug/L	0.74	20
8861387	Total Molybdenum (Mo)	2017/12/14	110	80 - 120	109	80 - 120	<0.050	ug/L	4.1	20
8861387	Total Nickel (Ni)	2017/12/14	95	80 - 120	113	80 - 120	<0.10	ug/L	5.8	20
8861387	Total Phosphorus (P)	2017/12/14					6.0, RDL=5.0 (1)	ug/L	NC	20
8861387	Total Selenium (Se)	2017/12/14	109	80 - 120	97	80 - 120	<0.040	ug/L	14	20
8861387	Total Silicon (Si)	2017/12/14					<50	ug/L	2.8	20
8861387	Total Silver (Ag)	2017/12/14	110	80 - 120	112	80 - 120	<0.010	ug/L	NC	20
8861387	Total Strontium (Sr)	2017/12/14	NC	80 - 120	104	80 - 120	<0.050	ug/L	6.1	20
8861387	Total Thallium (Tl)	2017/12/14	107	80 - 120	109	80 - 120	<0.0020	ug/L	0	20
8861387	Total Tin (Sn)	2017/12/14	99	80 - 120	103	80 - 120	<0.20	ug/L	NC	20
8861387	Total Titanium (Ti)	2017/12/14	89	80 - 120	114	80 - 120	<2.0	ug/L	NC	20
8861387	Total Uranium (U)	2017/12/14	111	80 - 120	112	80 - 120	<0.0050	ug/L	3.6	20
8861387	Total Vanadium (V)	2017/12/14	96	80 - 120	109	80 - 120	<0.20	ug/L	4.4	20
8861387	Total Zinc (Zn)	2017/12/14	104	80 - 120	113	80 - 120	<1.0	ug/L	NC	20
8861387	Total Zirconium (Zr)	2017/12/14	103	80 - 120	107	80 - 120	<0.10	ug/L	2.9	20
8861462	ORP	2017/12/15							0.25	20

Maxxam Job #: B7B0016
Report Date: 2017/12/19

QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8861551	Fluoride (F)	2017/12/13	103	80 - 120	100	80 - 120	<0.010	mg/L	1.0	20
8861675	pH	2017/12/13			101	97 - 103			0.40	20
8861678	Conductivity	2017/12/13			99	80 - 120	1.1, RDL=1.0	uS/cm	0.38	20
8861679	Alkalinity (PP as CaCO3)	2017/12/13					<0.50	mg/L	NC	20
8861679	Alkalinity (Total as CaCO3)	2017/12/13	NC	80 - 120	97	80 - 120	<0.50	mg/L	1.4	20
8861679	Bicarbonate (HCO3)	2017/12/13					<0.50	mg/L	1.4	20
8861679	Carbonate (CO3)	2017/12/13					<0.50	mg/L	NC	20
8861679	Hydroxide (OH)	2017/12/13					<0.50	mg/L	NC	20
8861719	Weak Acid Dissoc. Cyanide (CN)	2017/12/13	99	80 - 120	99	80 - 120	<0.00050	mg/L	NC	20
8861890	Total Ammonia (N)	2017/12/13	NC	80 - 120	103	80 - 120	<0.0050	mg/L	0	20
8861893	Total Ammonia (N)	2017/12/13			108	80 - 120	<0.0050	mg/L		
8862349	Dissolved Organic Carbon (C)	2017/12/14	102	80 - 120	111	80 - 120	<0.50	mg/L	8.9	20
8862354	Dissolved Organic Carbon (C)	2017/12/14	102	80 - 120	113	80 - 120	<0.50	mg/L	12	20
8862459	Dissolved Chloride (Cl)	2017/12/13	112	80 - 120	97	80 - 120	<0.50	mg/L	NC	20
8862461	Dissolved Sulphate (SO4)	2017/12/13	NC	80 - 120	93	80 - 120	<0.50	mg/L	2.0	20
8862465	Total Dissolved Solids	2017/12/15	102	80 - 120	94	80 - 120	<10	mg/L	3.9	20
8862477	Dissolved Chloride (Cl)	2017/12/13			99	80 - 120	<0.50	mg/L		
8862482	Dissolved Sulphate (SO4)	2017/12/13			97	80 - 120	<0.50	mg/L		
8862490	Nitrate plus Nitrite (N)	2017/12/13	NC	80 - 120	106	80 - 120	<0.0020	mg/L	0.80	25
8862494	Nitrite (N)	2017/12/13	101	80 - 120	102	80 - 120	<0.0020	mg/L	NC	25
8862844	Total Organic Carbon (C)	2017/12/14	104	80 - 120	108	80 - 120	<0.50	mg/L	0.20	20
8862846	Total Organic Carbon (C)	2017/12/14	94	80 - 120	108	80 - 120	<0.50	mg/L	NC	20
8862856	Weak Acid Dissoc. Cyanide (CN)	2017/12/14	105	80 - 120	101	80 - 120	<0.00050	mg/L	NC	20
8863850	Fluoride (F)	2017/12/15	100	80 - 120	98	80 - 120	0.013, RDL=0.010	mg/L	0	20
8864565	Dissolved Sulphate (SO4)	2017/12/14			102	80 - 120	0.53, RDL=0.50	mg/L		
8865597	Dissolved Cadmium (Cd)	2017/12/18			105	80 - 120	<0.0050	ug/L		
8866453	Dissolved Organic Carbon (C)	2017/12/18			106	80 - 120	<0.50	mg/L		
8866454	Total Organic Carbon (C)	2017/12/18	115	80 - 120	106	80 - 120	<0.50	mg/L	11	20

Maxxam Job #: B7B0016
Report Date: 2017/12/19

QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8867947	Dissolved Chloride (Cl)	2017/12/14			104	80 - 120	<0.50	mg/L		

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

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

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

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Method Blank exceeds acceptance limits for (P) - 2X RDL acceptable for low level metals determination

(2) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

Maxxam Job #: B7B0016
Report Date: 2017/12/19

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Andy Lu, Ph.D., P.Chem., Scientific Specialist

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Your Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

Attention: David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
2289 BURRARD STREET
VANCOUVER, BC
CANADA V6J 3H9

Your C.O.C. #: 545120-01-01, 545120-02-01, 545120-03-01

Report Date: 2018/02/05

Report #: R2510024

Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B806180

Received: 2018/01/24, 12:50

Sample Matrix: Water
Samples Received: 14

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Alkalinity - Low Level	14	2018/01/26	2018/01/26	BBY6SOP-00026	SM 22 2320 B m
Chloride - Low Level	14	N/A	2018/01/29	BBY6SOP-00011	SM 22 4500-Cl- E m
Cyanide WAD (weak acid dissociable)	14	N/A	2018/01/30	BBY6SOP-00004	SM 22 4500-CN O m
Carbon (DOC) - field filtered/preserved (1)	14	N/A	2018/01/26	BBY6SOP-00003	SM 22 5310 C m
Conductance - Low Level	14	2018/01/26	2018/01/26	BBY6SOP-00026	SM 22 2510 B m
Fluoride - Low Level	14	N/A	2018/01/31	BBY6SOP-00048	SM 22 4500-F C m
Hardness Total (calculated as CaCO3) (2)	6	N/A	2018/01/29	BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO3) (2)	7	N/A	2018/01/30	BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO3) (2)	1	N/A	2018/02/05	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3)	11	N/A	2018/01/29	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3)	2	N/A	2018/01/30	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3)	1	N/A	2018/02/02	BBY WI-00033	Auto Calc
Mercury (Dissolved-LowLevel) by CVAf	14	N/A	2018/01/30	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Total-LowLevel) by CVAf	14	2018/01/30	2018/01/30	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	11	N/A	2018/01/29	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	2	N/A	2018/01/30	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	1	N/A	2018/02/02	BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (dissolved)	13	N/A	2018/01/26	BBY7SOP-00002	EPA 6020b R2 m
Elements by ICPMS Low Level (dissolved)	1	N/A	2018/01/29	BBY7SOP-00002	EPA 6020b R2 m
Elements by ICPMS Digested LL (total)	7	2018/01/26	2018/01/30	BBY7SOP-00003,	EPA 6020b R2 m
Elements by ICPMS Digested LL (total)	1	2018/02/02	2018/02/03	BBY7SOP-00003,	EPA 6020b R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total)	6	N/A	2018/01/29	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (total)	7	N/A	2018/01/30	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (total)	1	N/A	2018/02/05	BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (total)	6	N/A	2018/01/29	BBY7SOP-00002	EPA 6020b R2 m
Ammonia-N Low Level (Preserved)	14	N/A	2018/01/26	BBY6SOP-00009	EPA 350.1 m
Nitrate+Nitrite (N) (low level)	14	N/A	2018/01/25	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrite (N) (low level)	14	N/A	2018/01/25	BBY6SOP-00010	SM 22 4500-NO3- I m

Your Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

Attention: David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
2289 BURRARD STREET
VANCOUVER, BC
CANADA V6J 3H9

Your C.O.C. #: 545120-01-01, 545120-02-01, 545120-03-01

Report Date: 2018/02/05
Report #: R2510024
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B806180

Received: 2018/01/24, 12:50

Sample Matrix: Water
Samples Received: 14

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Nitrogen - Nitrate (as N) Low Level Calc	14	N/A	2018/01/26	BBY WI-00033	Auto Calc
ORP Analysis on Water by ARD LAB	14	N/A	2018/01/31	BBY0SOP-00004	SM 22 2580 B
Filter and HNO3 Preserve for Metals	13	N/A	2018/01/26	BBY7 WI-00004	BCMOE Reqs 08/14
pH Water (3)	14	2018/01/26	2018/01/26	BBY6SOP-00026	SM 22 4500-H+ B m
Sulphate - Low Level	12	N/A	2018/01/29	BBY6SOP-00017	SM 22 4500-SO42- E m
Sulphate - Low Level	2	N/A	2018/01/30	BBY6SOP-00017	SM 22 4500-SO42- E m
Total Dissolved Solids (Filt. Residue)	14	2018/01/26	2018/01/31	BBY6SOP-00033	SM 22 2540 C m
Carbon (Total Organic) (4)	13	N/A	2018/01/26	BBY6SOP-00003	SM 22 5310 C m
Carbon (Total Organic) (4)	1	N/A	2018/01/30	BBY6SOP-00003	SM 22 5310 C m
Total Suspended Solids-Low Level	6	2018/01/26	2018/01/29	BBY6SOP-00034	SM 22 2540 D
Total Suspended Solids-Low Level	8	2018/01/29	2018/01/30	BBY6SOP-00034	SM 22 2540 D

Remarks:

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Maxxam's profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Maxxam in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected.

Maxxam Analytics' liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Maxxam has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Maxxam, unless otherwise agreed in writing.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

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

Your Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

Attention: David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
2289 BURRARD STREET
VANCOUVER, BC
CANADA V6J 3H9

Your C.O.C. #: 545120-01-01, 545120-02-01, 545120-03-01

Report Date: 2018/02/05
Report #: R2510024
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B806180

Received: 2018/01/24, 12:50

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

- (1) DOC present in the sample should be considered as non-purgeable DOC.
- (2) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).
- (3) The BC-MOE and APHA Standard Method require pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the BC-MOE/APHA Standard Method holding time.
- (4) TOC present in the sample should be considered as non-purgeable TOC.

Encryption Key



Maxxam
05 Feb 2018 18:34:48

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Megan Smith, Project Manager

Email: msmith@maxxam.ca

Phone# (604) 734 7276

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Maxxam Job #: B806180
Report Date: 2018/02/05

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SW1585			SW1585			SW1586		
Sampling Date		2018/01/21 14:05			2018/01/21 14:05			2018/01/21 15:20		
COC Number		545120-01-01			545120-01-01			545120-01-01		
	UNITS	CC-0.5	RDL	QC Batch	CC-0.5 Lab-Dup	RDL	QC Batch	CC-1.5	RDL	QC Batch
Parameter										
ORP	mV	266		8897652	267		8897652	266		8897652
Calculated Parameters										
Filter and HNO3 Preservation	N/A	LAB		8894713				LAB		8894713
Nitrate (N)	mg/L	0.0799	0.0020	8894557				0.291	0.0020	8894557
Misc. Inorganics										
Weak Acid Dissoc. Cyanide (CN)	mg/L	<0.00050	0.00050	8898072	<0.00050	0.00050	8898072	0.00053	0.00050	8898072
Fluoride (F)	mg/L	0.066	0.010	8899108				0.110	0.010	8899108
Dissolved Organic Carbon (C)	mg/L	4.47	0.50	8895416				4.68	0.50	8895416
Alkalinity (Total as CaCO3)	mg/L	146	0.50	8895785				205	0.50	8895785
Total Organic Carbon (C)	mg/L	3.96	0.50	8895401				4.46	0.50	8895401
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	8895785				<0.50	0.50	8895785
Bicarbonate (HCO3)	mg/L	178	0.50	8895785				250	0.50	8895785
Carbonate (CO3)	mg/L	<0.50	0.50	8895785				<0.50	0.50	8895785
Hydroxide (OH)	mg/L	<0.50	0.50	8895785				<0.50	0.50	8895785
Anions										
Dissolved Sulphate (SO4)	mg/L	91.1	0.50	8897461				219 (1)	5.0	8897461
Dissolved Chloride (Cl)	mg/L	<0.50	0.50	8897457				<0.50	0.50	8897457
Nutrients										
Total Ammonia (N)	mg/L	0.021	0.0050	8896147				0.0070	0.0050	8896147
Nitrate plus Nitrite (N)	mg/L	0.0799	0.0020	8895011				0.291	0.0020	8895024
Nitrite (N)	mg/L	<0.0020	0.0020	8895012				<0.0020	0.0020	8895025
Physical Properties										
Conductivity	uS/cm	455	1.0	8895784				752	1.0	8895784
pH	pH	8.10		8895770				8.18		8895770
Physical Properties										
Total Suspended Solids	mg/L	4.0 (2)	1.2	8895408				<1.3 (2)	1.3	8895408
Total Dissolved Solids	mg/L	258	10	8895485				492	10	8895499
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate (1) Detection limits raised due to dilution to bring analyte within the calibrated range. (2) RDL raised due to limited initial sample amount.										

Maxxam Job #: B806180
Report Date: 2018/02/05

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SW1586			SW1587			SW1588		
Sampling Date		2018/01/21 15:20			2018/01/21 12:55			2018/01/21 14:50		
COC Number		545120-01-01			545120-01-01			545120-01-01		
	UNITS	CC-1.5 Lab-Dup	RDL	QC Batch	CC-4.5	RDL	QC Batch	CC-B	RDL	QC Batch
Parameter										
ORP	mV				258		8897652	258		8897652
Calculated Parameters										
Filter and HNO3 Preservation	N/A				LAB		8894713	LAB		8894713
Nitrate (N)	mg/L				0.690	0.0020	8894557	0.426	0.0020	8894557
Misc. Inorganics										
Weak Acid Dissoc. Cyanide (CN)	mg/L				0.00067	0.00050	8898072	0.00063	0.00050	8898072
Fluoride (F)	mg/L				0.060	0.010	8899108	0.067	0.010	8899108
Dissolved Organic Carbon (C)	mg/L	4.28	0.50	8895416	6.67	0.50	8895416	5.46	0.50	8895399
Alkalinity (Total as CaCO3)	mg/L				64.6	0.50	8895785	198	0.50	8895785
Total Organic Carbon (C)	mg/L				10.5	0.50	8895401	5.07	0.50	8895401
Alkalinity (PP as CaCO3)	mg/L				<0.50	0.50	8895785	<0.50	0.50	8895785
Bicarbonate (HCO3)	mg/L				78.8	0.50	8895785	242	0.50	8895785
Carbonate (CO3)	mg/L				<0.50	0.50	8895785	<0.50	0.50	8895785
Hydroxide (OH)	mg/L				<0.50	0.50	8895785	<0.50	0.50	8895785
Anions										
Dissolved Sulphate (SO4)	mg/L				80.5	0.50	8897461	217 (1)	5.0	8897461
Dissolved Chloride (Cl)	mg/L				0.83	0.50	8897457	<0.50	0.50	8897457
Nutrients										
Total Ammonia (N)	mg/L				<0.0050	0.0050	8896147	<0.0050	0.0050	8896147
Nitrate plus Nitrite (N)	mg/L				0.690	0.0020	8895024	0.426	0.0020	8895024
Nitrite (N)	mg/L				<0.0020	0.0020	8895025	<0.0020	0.0020	8895025
Physical Properties										
Conductivity	uS/cm				309	1.0	8895784	748	1.0	8895784
pH	pH				7.80		8895770	8.11		8895770
Physical Properties										
Total Suspended Solids	mg/L				7.3 (2)	1.4	8895408	12.0 (2)	1.3	8895408
Total Dissolved Solids	mg/L				168	10	8895499	496	10	8895485
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate (1) Detection limits raised due to dilution to bring analyte within the calibrated range. (2) RDL raised due to limited initial sample amount.										

Maxxam Job #: B806180
Report Date: 2018/02/05

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SW1588			SW1589			SW1589		
Sampling Date		2018/01/21 14:50			2018/01/22 12:30			2018/01/22 12:30		
COC Number		545120-01-01			545120-01-01			545120-01-01		
	UNITS	CC-B Lab-Dup	RDL	QC Batch	HC-2.5	RDL	QC Batch	HC-2.5 Lab-Dup	RDL	QC Batch
Parameter										
ORP	mV				294		8897652			
Calculated Parameters										
Filter and HNO3 Preservation	N/A				LAB		8894713			
Nitrate (N)	mg/L				0.471	0.0020	8894557			
Misc. Inorganics										
Weak Acid Dissoc. Cyanide (CN)	mg/L				0.00078	0.00050	8898072			
Fluoride (F)	mg/L				0.067	0.010	8899108			
Dissolved Organic Carbon (C)	mg/L				4.63	0.50	8895416			
Alkalinity (Total as CaCO3)	mg/L				134	0.50	8895785			
Total Organic Carbon (C)	mg/L	5.12	0.50	8895401	4.58	0.50	8895400			
Alkalinity (PP as CaCO3)	mg/L				<0.50	0.50	8895785			
Bicarbonate (HCO3)	mg/L				163	0.50	8895785			
Carbonate (CO3)	mg/L				<0.50	0.50	8895785			
Hydroxide (OH)	mg/L				<0.50	0.50	8895785			
Anions										
Dissolved Sulphate (SO4)	mg/L				71.8	0.50	8898706			
Dissolved Chloride (Cl)	mg/L				<0.50	0.50	8897457			
Nutrients										
Total Ammonia (N)	mg/L				<0.0050	0.0050	8896147			
Nitrate plus Nitrite (N)	mg/L				0.471	0.0020	8895024	0.472	0.0020	8895024
Nitrite (N)	mg/L				<0.0020	0.0020	8895025	<0.0020	0.0020	8895025
Physical Properties										
Conductivity	uS/cm				398	1.0	8895784			
pH	pH				8.04		8895770			
Physical Properties										
Total Suspended Solids	mg/L				<1.1 (1)	1.1	8896776			
Total Dissolved Solids	mg/L				222	10	8895499			
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate (1) RDL raised due to limited initial sample amount.										

Maxxam Job #: B806180
Report Date: 2018/02/05

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SW1590		SW1591			SW1591		
Sampling Date		2018/01/22 13:25		2018/01/22 14:00			2018/01/22 14:00		
COC Number		545120-02-01		545120-02-01			545120-02-01		
	UNITS	IC-4.5	QC Batch	YUK-5.0	RDL	QC Batch	YUK-5.0 Lab-Dup	RDL	QC Batch
Parameter									
ORP	mV	290	8897652	288		8897652			
Calculated Parameters									
Filter and HNO3 Preservation	N/A	LAB	8894713	LAB		8894713			
Nitrate (N)	mg/L	0.712	8894557	0.0858	0.0020	8894557			
Misc. Inorganics									
Weak Acid Dissoc. Cyanide (CN)	mg/L	0.00075	8898072	0.00059	0.00050	8898072			
Fluoride (F)	mg/L	0.058	8899108	0.120	0.010	8899108	0.120	0.010	8899108
Dissolved Organic Carbon (C)	mg/L	6.86	8895399	1.03	0.50	8895399			
Alkalinity (Total as CaCO3)	mg/L	54.8	8895785	87.5	0.50	8895785			
Total Organic Carbon (C)	mg/L	6.74	8895400	1.31	0.50	8895400			
Alkalinity (PP as CaCO3)	mg/L	<0.50	8895785	<0.50	0.50	8895785			
Bicarbonate (HCO3)	mg/L	66.9	8895785	107	0.50	8895785			
Carbonate (CO3)	mg/L	<0.50	8895785	<0.50	0.50	8895785			
Hydroxide (OH)	mg/L	<0.50	8895785	<0.50	0.50	8895785			
Anions									
Dissolved Sulphate (SO4)	mg/L	53.6	8898706	24.2	0.50	8897461			
Dissolved Chloride (Cl)	mg/L	0.55	8897457	<0.50	0.50	8897457			
Nutrients									
Total Ammonia (N)	mg/L	<0.0050	8896147	<0.0050	0.0050	8896147			
Nitrate plus Nitrite (N)	mg/L	0.712	8895024	0.0880	0.0020	8895011			
Nitrite (N)	mg/L	<0.0020	8895025	0.0022	0.0020	8895012			
Physical Properties									
Conductivity	uS/cm	233	8895784	220	1.0	8895784			
pH	pH	7.71	8895770	8.00		8895770			
Physical Properties									
Total Suspended Solids	mg/L	1.4	8896776	<1.0	1.0	8896776			
Total Dissolved Solids	mg/L	130	8895499	102	10	8895499			
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B806180
Report Date: 2018/02/05

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SW1592			SW1592		
Sampling Date		2018/01/23 13:45			2018/01/23 13:45		
COC Number		545120-02-01			545120-02-01		
	UNITS	BARKER U/S S.R.	RDL	QC Batch	BARKER U/S S.R. Lab-Dup	RDL	QC Batch
Parameter							
ORP	mV	285		8897652			
Calculated Parameters							
Filter and HNO3 Preservation	N/A	LAB		8894713			
Nitrate (N)	mg/L	0.0027	0.0020	8894557			
Misc. Inorganics							
Weak Acid Dissoc. Cyanide (CN)	mg/L	0.00095	0.00050	8898072			
Fluoride (F)	mg/L	0.100	0.010	8899108			
Dissolved Organic Carbon (C)	mg/L	14.8	0.50	8895399			
Alkalinity (Total as CaCO3)	mg/L	148	0.50	8895785			
Total Organic Carbon (C)	mg/L	15.5	0.50	8895400	15.9	0.50	8895400
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	8895785			
Bicarbonate (HCO3)	mg/L	181	0.50	8895785			
Carbonate (CO3)	mg/L	<0.50	0.50	8895785			
Hydroxide (OH)	mg/L	<0.50	0.50	8895785			
Anions							
Dissolved Sulphate (SO4)	mg/L	84.4	0.50	8897461			
Dissolved Chloride (Cl)	mg/L	2.7	0.50	8897457			
Nutrients							
Total Ammonia (N)	mg/L	0.055	0.0050	8896147			
Nitrate plus Nitrite (N)	mg/L	0.0027	0.0020	8895024			
Nitrite (N)	mg/L	<0.0020	0.0020	8895025			
Physical Properties							
Conductivity	uS/cm	457	1.0	8895784			
pH	pH	7.82		8895770			
Physical Properties							
Total Suspended Solids	mg/L	180 (1)	5.0	8896776			
Total Dissolved Solids	mg/L	276	10	8895499			
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate (1) RDL raised due to high concentration of solids in the sample.							

Maxxam Job #: B806180
Report Date: 2018/02/05

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SW1593			SW1594			SW1594		
Sampling Date		2018/01/23 13:15			2018/01/21 12:45			2018/01/21 12:45		
COC Number		545120-02-01			545120-02-01			545120-02-01		
	UNITS	STEWART D/S M.M.	RDL	QC Batch	LATTE MIX	RDL	QC Batch	LATTE MIX Lab-Dup	RDL	QC Batch
Parameter										
ORP	mV	284		8897652	284		8897652			
Calculated Parameters										
Filter and HNO3 Preservation	N/A	LAB		8894713	LAB		8894713			
Nitrate (N)	mg/L	0.191	0.0020	8894557	0.304	0.0020	8894557			
Misc. Inorganics										
Weak Acid Dissoc. Cyanide (CN)	mg/L	0.00068	0.00050	8898072	0.00065	0.00050	8898072			
Fluoride (F)	mg/L	0.095	0.010	8899108	0.077	0.010	8899108			
Dissolved Organic Carbon (C)	mg/L	1.10	0.50	8895399	3.66	0.50	8895399			
Alkalinity (Total as CaCO3)	mg/L	127	0.50	8895785	154	0.50	8895785			
Total Organic Carbon (C)	mg/L	1.70	0.50	8895400	3.67	0.50	8895400			
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	8895785	<0.50	0.50	8895785			
Bicarbonate (HCO3)	mg/L	155	0.50	8895785	188	0.50	8895785			
Carbonate (CO3)	mg/L	<0.50	0.50	8895785	<0.50	0.50	8895785			
Hydroxide (OH)	mg/L	<0.50	0.50	8895785	<0.50	0.50	8895785			
Anions										
Dissolved Sulphate (SO4)	mg/L	96.6	0.50	8897461	88.5	0.50	8897461	88.3	0.50	8897461
Dissolved Chloride (Cl)	mg/L	<0.50	0.50	8897457	0.56	0.50	8897457	0.58	0.50	8897457
Nutrients										
Total Ammonia (N)	mg/L	0.0090	0.0050	8896147	<0.0050	0.0050	8896147			
Nitrate plus Nitrite (N)	mg/L	0.191	0.0020	8895011	0.304	0.0020	8895024			
Nitrite (N)	mg/L	<0.0020	0.0020	8895012	<0.0020	0.0020	8895025			
Physical Properties										
Conductivity	uS/cm	428	1.0	8895784	460	1.0	8895784			
pH	pH	8.06		8895770	8.19		8895770			
Physical Properties										
Total Suspended Solids	mg/L	<1.0	1.0	8896776	<1.5 (1)	1.5	8895408			
Total Dissolved Solids	mg/L	244	10	8895499	264	10	8895499			
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										
(1) RDL raised due to limited initial sample amount.										

Maxxam Job #: B806180
Report Date: 2018/02/05

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SW1595			SW1595			SW1597		
Sampling Date										
COC Number		545120-02-01			545120-02-01			545120-03-01		
	UNITS	SAMPLE A	RDL	QC Batch	SAMPLE A Lab-Dup	RDL	QC Batch	SAMPLE B	RDL	QC Batch
Parameter										
ORP	mV	286		8897652				284		8897652
Calculated Parameters										
Filter and HNO3 Preservation	N/A	LAB		8894713				LAB		8894713
Nitrate (N)	mg/L	0.293	0.0020	8894557				<0.0020	0.0020	8894557
Misc. Inorganics										
Weak Acid Dissoc. Cyanide (CN)	mg/L	0.00060	0.00050	8898072				0.00077	0.00050	8898072
Fluoride (F)	mg/L	0.110	0.010	8899108				0.110	0.010	8899108
Dissolved Organic Carbon (C)	mg/L	3.92	0.50	8895399	4.04	0.50	8895399	15.6	0.50	8895399
Alkalinity (Total as CaCO3)	mg/L	205	0.50	8895785				151	0.50	8895785
Total Organic Carbon (C)	mg/L	4.83	0.50	8895400				18.9	0.50	8895400
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	8895785				<0.50	0.50	8895785
Bicarbonate (HCO3)	mg/L	250	0.50	8895785				184	0.50	8895785
Carbonate (CO3)	mg/L	<0.50	0.50	8895785				<0.50	0.50	8895785
Hydroxide (OH)	mg/L	<0.50	0.50	8895785				<0.50	0.50	8895785
Anions										
Dissolved Sulphate (SO4)	mg/L	221 (1)	5.0	8897461				85.0	0.50	8897461
Dissolved Chloride (Cl)	mg/L	<0.50	0.50	8897457				2.7	0.50	8897457
Nutrients										
Total Ammonia (N)	mg/L	0.0070	0.0050	8896147				0.067	0.0050	8896147
Nitrate plus Nitrite (N)	mg/L	0.293	0.0020	8895011				<0.0020	0.0020	8895011
Nitrite (N)	mg/L	<0.0020	0.0020	8895012				<0.0020	0.0020	8895012
Physical Properties										
Conductivity	uS/cm	759	1.0	8895784				460	1.0	8895784
pH	pH	8.04		8895770				7.85		8895770
Physical Properties										
Total Suspended Solids	mg/L	<1.3 (2)	1.3	8896774				135 (3)	5.0	8896774
Total Dissolved Solids	mg/L	472	10	8895499				290	10	8895499
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate (1) Detection limits raised due to dilution to bring analyte within the calibrated range. (2) RDL raised due to limited initial sample amount. (3) RDL raised due to high concentration of solids in the sample.										

Maxxam Job #: B806180
Report Date: 2018/02/05

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SW1597		SW1598			SW1598		
Sampling Date				2018/01/21 19:00			2018/01/21 19:00		
COC Number		545120-03-01		545120-03-01			545120-03-01		
	UNITS	SAMPLE B Lab-Dup	QC Batch	FIELD BLANK	RDL	QC Batch	FIELD BLANK Lab-Dup	RDL	QC Batch
Parameter									
ORP	mV	284	8897652	284		8897652			
Calculated Parameters									
Filter and HNO3 Preservation	N/A			LAB		8894713			
Nitrate (N)	mg/L			<0.0020	0.0020	8894557			
Misc. Inorganics									
Weak Acid Dissoc. Cyanide (CN)	mg/L			<0.00050	0.00050	8898072			
Fluoride (F)	mg/L			0.011	0.010	8899108			
Dissolved Organic Carbon (C)	mg/L			<0.50	0.50	8895399			
Alkalinity (Total as CaCO3)	mg/L			<0.50	0.50	8895785	<0.50	0.50	8895785
Total Organic Carbon (C)	mg/L			<0.50	0.50	8897806			
Alkalinity (PP as CaCO3)	mg/L			<0.50	0.50	8895785	<0.50	0.50	8895785
Bicarbonate (HCO3)	mg/L			<0.50	0.50	8895785	<0.50	0.50	8895785
Carbonate (CO3)	mg/L			<0.50	0.50	8895785	<0.50	0.50	8895785
Hydroxide (OH)	mg/L			<0.50	0.50	8895785	<0.50	0.50	8895785
Anions									
Dissolved Sulphate (SO4)	mg/L			<0.50	0.50	8897461			
Dissolved Chloride (Cl)	mg/L			<0.50	0.50	8897457			
Nutrients									
Total Ammonia (N)	mg/L			<0.0050	0.0050	8896147			
Nitrate plus Nitrite (N)	mg/L			<0.0020	0.0020	8895024			
Nitrite (N)	mg/L			<0.0020	0.0020	8895025			
Physical Properties									
Conductivity	uS/cm			1.1	1.0	8895784	1.1	1.0	8895784
pH	pH			5.26		8895770	5.20		8895770
Physical Properties									
Total Suspended Solids	mg/L			<1.0	1.0	8895408			
Total Dissolved Solids	mg/L			<10	10	8895499	<10	10	8895499
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B806180
Report Date: 2018/02/05

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SW1599			SW1599		
Sampling Date		2018/01/25			2018/01/25		
COC Number		545120-03-01			545120-03-01		
	UNITS	TRIP BLANK	RDL	QC Batch	TRIP BLANK Lab-Dup	RDL	QC Batch
Parameter							
ORP	mV	249		8897652			
Calculated Parameters							
Nitrate (N)	mg/L	<0.0020	0.0020	8894557			
Misc. Inorganics							
Weak Acid Dissoc. Cyanide (CN)	mg/L	<0.00050	0.00050	8898072			
Fluoride (F)	mg/L	<0.010	0.010	8899108			
Dissolved Organic Carbon (C)	mg/L	<0.50	0.50	8895399			
Alkalinity (Total as CaCO3)	mg/L	<0.50	0.50	8895785			
Total Organic Carbon (C)	mg/L	<0.50	0.50	8895400			
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	8895785			
Bicarbonate (HCO3)	mg/L	<0.50	0.50	8895785			
Carbonate (CO3)	mg/L	<0.50	0.50	8895785			
Hydroxide (OH)	mg/L	<0.50	0.50	8895785			
Anions							
Dissolved Sulphate (SO4)	mg/L	<0.50	0.50	8897461			
Dissolved Chloride (Cl)	mg/L	<0.50	0.50	8897457			
Nutrients							
Total Ammonia (N)	mg/L	<0.0050	0.0050	8896147	<0.0050	0.0050	8896147
Nitrate plus Nitrite (N)	mg/L	<0.0020	0.0020	8895024			
Nitrite (N)	mg/L	<0.0020	0.0020	8895025			
Physical Properties							
Conductivity	uS/cm	1.1	1.0	8895784			
pH	pH	5.23		8895770			
Physical Properties							
Total Suspended Solids	mg/L	<1.0	1.0	8896776			
Total Dissolved Solids	mg/L	<10	10	8895499			
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate							

Maxxam Job #: B806180
Report Date: 2018/02/05

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SW1585			SW1585			SW1586		
Sampling Date		2018/01/21 14:05			2018/01/21 14:05			2018/01/21 15:20		
COC Number		545120-01-01			545120-01-01			545120-01-01		
	UNITS	CC-0.5	RDL	QC Batch	CC-0.5 Lab-Dup	RDL	QC Batch	CC-1.5	RDL	QC Batch

Calculated Parameters

Dissolved Hardness (CaCO3)	mg/L	235 (1)	0.50	8900100				406	0.50	8893771
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Elements

Dissolved Mercury (Hg)	ug/L	<0.0020	0.0020	8897658				<0.0020	0.0020	8897658
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Dissolved Metals by ICPMS

Dissolved Aluminum (Al)	ug/L	3.38	0.50	8895112	3.64	0.50	8895112	9.22	0.50	8895112
Dissolved Antimony (Sb)	ug/L	0.032	0.020	8895112	0.032	0.020	8895112	0.100	0.020	8895112
Dissolved Arsenic (As)	ug/L	0.357	0.020	8895112	0.312	0.020	8895112	1.03	0.020	8895112
Dissolved Barium (Ba)	ug/L	95.0	0.020	8895112	100	0.020	8895112	75.3	0.020	8895112
Dissolved Beryllium (Be)	ug/L	<0.010	0.010	8895112	<0.010	0.010	8895112	<0.010	0.010	8895112
Dissolved Bismuth (Bi)	ug/L	<0.0050	0.0050	8895112	<0.0050	0.0050	8895112	<0.0050	0.0050	8895112
Dissolved Boron (B)	ug/L	<10	10	8895112	<10	10	8895112	<10	10	8895112
Dissolved Cadmium (Cd)	ug/L	<0.0050	0.0050	8895112	<0.0050	0.0050	8895112	0.0057	0.0050	8895112
Dissolved Chromium (Cr)	ug/L	<0.10	0.10	8895112	<0.10	0.10	8895112	<0.10	0.10	8895112
Dissolved Cobalt (Co)	ug/L	0.193	0.0050	8895112	0.176	0.0050	8895112	0.0179	0.0050	8895112
Dissolved Copper (Cu)	ug/L	0.450	0.050	8895112	0.397	0.050	8895112	0.999	0.050	8895112
Dissolved Iron (Fe)	ug/L	129	1.0	8895112	150	1.0	8895112	5.0	1.0	8895112
Dissolved Lead (Pb)	ug/L	<0.0050	0.0050	8895112	<0.0050	0.0050	8895112	0.0079	0.0050	8895112
Dissolved Lithium (Li)	ug/L	0.80	0.50	8895112	0.85	0.50	8895112	2.52	0.50	8895112
Dissolved Manganese (Mn)	ug/L	128	0.050	8895112	116	0.050	8895112	8.70	0.050	8895112
Dissolved Molybdenum (Mo)	ug/L	0.219	0.050	8895112	0.238	0.050	8895112	0.387	0.050	8895112
Dissolved Nickel (Ni)	ug/L	0.601	0.020	8895112	0.550	0.020	8895112	0.453	0.020	8895112
Dissolved Phosphorus (P)	ug/L	<2.0	2.0	8895112	<2.0	2.0	8895112	2.7	2.0	8895112
Dissolved Selenium (Se)	ug/L	<0.040	0.040	8895112	<0.040	0.040	8895112	0.191	0.040	8895112
Dissolved Silicon (Si)	ug/L	4500	50	8895112	4430	50	8895112	5460	50	8895112
Dissolved Silver (Ag)	ug/L	<0.0050	0.0050	8895112	<0.0050	0.0050	8895112	<0.0050	0.0050	8895112
Dissolved Strontium (Sr)	ug/L	312	0.050	8895112	281	0.050	8895112	815	0.050	8895112
Dissolved Thallium (Tl)	ug/L	<0.0020	0.0020	8895112	<0.0020	0.0020	8895112	0.0035	0.0020	8895112
Dissolved Tin (Sn)	ug/L	<0.20	0.20	8895112	<0.20	0.20	8895112	<0.20	0.20	8895112
Dissolved Titanium (Ti)	ug/L	<0.50	0.50	8895112	<0.50	0.50	8895112	<0.50	0.50	8895112
Dissolved Uranium (U)	ug/L	5.21	0.0020	8895112	5.50	0.0020	8895112	36.9	0.0020	8895112

RDL = Reportable Detection Limit

Lab-Dup = Laboratory Initiated Duplicate

(1) Dissolved greater than total. Reanalysis yields similar results.

Maxxam Job #: B806180
Report Date: 2018/02/05

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SW1585			SW1585			SW1586		
Sampling Date		2018/01/21 14:05			2018/01/21 14:05			2018/01/21 15:20		
COC Number		545120-01-01			545120-01-01			545120-01-01		
	UNITS	CC-0.5	RDL	QC Batch	CC-0.5 Lab-Dup	RDL	QC Batch	CC-1.5	RDL	QC Batch
Dissolved Vanadium (V)	ug/L	<0.20	0.20	8895112	<0.20	0.20	8895112	0.25	0.20	8895112
Dissolved Zinc (Zn)	ug/L	0.25	0.10	8895112	0.19	0.10	8895112	0.35	0.10	8895112
Dissolved Zirconium (Zr)	ug/L	0.11	0.10	8895112	0.12	0.10	8895112	0.23	0.10	8895112
Dissolved Calcium (Ca)	mg/L	72.9 (1)	0.050	8900066				106	0.050	8894556
Dissolved Magnesium (Mg)	mg/L	12.7 (1)	0.050	8900066				34.3	0.050	8894556
Dissolved Potassium (K)	mg/L	1.96 (1)	0.050	8900066				5.38	0.050	8894556
Dissolved Sodium (Na)	mg/L	3.84 (1)	0.050	8900066				6.70	0.050	8894556
Dissolved Sulphur (S)	mg/L	31.1 (1)	3.0	8900066				71.2	3.0	8894556
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										
(1) Dissolved greater than total. Reanalysis yields similar results.										

Maxxam Job #: B806180
Report Date: 2018/02/05

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SW1587	SW1588	SW1589			SW1589		
Sampling Date		2018/01/21 12:55	2018/01/21 14:50	2018/01/22 12:30			2018/01/22 12:30		
COC Number		545120-01-01	545120-01-01	545120-01-01			545120-01-01		
	UNITS	CC-4.5	CC-B	HC-2.5	RDL	QC Batch	HC-2.5 Lab-Dup	RDL	QC Batch
Calculated Parameters									
Dissolved Hardness (CaCO3)	mg/L	134	427	199	0.50	8893771			
Elements									
Dissolved Mercury (Hg)	ug/L	0.0024	0.0022	<0.0020	0.0020	8897658	<0.0020	0.0020	8897658
Dissolved Metals by ICPMS									
Dissolved Aluminum (Al)	ug/L	18.8	12.6	8.33	0.50	8895112			
Dissolved Antimony (Sb)	ug/L	0.082	0.126	0.368	0.020	8895112			
Dissolved Arsenic (As)	ug/L	0.261	0.626	0.470	0.020	8895112			
Dissolved Barium (Ba)	ug/L	85.6	141	50.0	0.020	8895112			
Dissolved Beryllium (Be)	ug/L	<0.010	<0.010	<0.010	0.010	8895112			
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	0.0050	8895112			
Dissolved Boron (B)	ug/L	<10	<10	<10	10	8895112			
Dissolved Cadmium (Cd)	ug/L	0.0088	0.0098	<0.0050	0.0050	8895112			
Dissolved Chromium (Cr)	ug/L	0.13	0.13	0.11	0.10	8895112			
Dissolved Cobalt (Co)	ug/L	0.0442	0.0239	0.0185	0.0050	8895112			
Dissolved Copper (Cu)	ug/L	1.15	1.12	0.774	0.050	8895112			
Dissolved Iron (Fe)	ug/L	6.1	5.3	4.0	1.0	8895112			
Dissolved Lead (Pb)	ug/L	<0.0050	<0.0050	<0.0050	0.0050	8895112			
Dissolved Lithium (Li)	ug/L	<0.50	1.43	1.20	0.50	8895112			
Dissolved Manganese (Mn)	ug/L	1.38	0.809	36.2	0.050	8895112			
Dissolved Molybdenum (Mo)	ug/L	0.527	0.514	1.21	0.050	8895112			
Dissolved Nickel (Ni)	ug/L	0.581	0.389	0.392	0.020	8895112			
Dissolved Phosphorus (P)	ug/L	2.7	2.4	2.6	2.0	8895112			
Dissolved Selenium (Se)	ug/L	0.070	0.112	0.084	0.040	8895112			
Dissolved Silicon (Si)	ug/L	4590	5310	5490	50	8895112			
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	0.0050	8895112			
Dissolved Strontium (Sr)	ug/L	164	1070	405	0.050	8895112			
Dissolved Thallium (Tl)	ug/L	<0.0020	<0.0020	<0.0020	0.0020	8895112			
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	<0.20	0.20	8895112			
Dissolved Titanium (Ti)	ug/L	<0.50	<0.50	<0.50	0.50	8895112			
Dissolved Uranium (U)	ug/L	1.67	36.2	72.2	0.0020	8895112			
RDL = Reportable Detection Limit									
Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B806180
Report Date: 2018/02/05

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SW1587	SW1588	SW1589			SW1589		
Sampling Date		2018/01/21 12:55	2018/01/21 14:50	2018/01/22 12:30			2018/01/22 12:30		
COC Number		545120-01-01	545120-01-01	545120-01-01			545120-01-01		
	UNITS	CC-4.5	CC-B	HC-2.5	RDL	QC Batch	HC-2.5 Lab-Dup	RDL	QC Batch
Dissolved Vanadium (V)	ug/L	0.21	0.29	<0.20	0.20	8895112			
Dissolved Zinc (Zn)	ug/L	0.62	0.31	0.33	0.10	8895112			
Dissolved Zirconium (Zr)	ug/L	0.21	0.39	0.21	0.10	8895112			
Dissolved Calcium (Ca)	mg/L	33.7	116	47.8	0.050	8894556			
Dissolved Magnesium (Mg)	mg/L	12.1	33.5	19.5	0.050	8894556			
Dissolved Potassium (K)	mg/L	1.50	5.72	2.50	0.050	8894556			
Dissolved Sodium (Na)	mg/L	4.80	5.87	4.31	0.050	8894556			
Dissolved Sulphur (S)	mg/L	25.5	82.0	23.1	3.0	8894556			
RDL = Reportable Detection Limit									
Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B806180
Report Date: 2018/02/05

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SW1590		SW1591		SW1592	SW1593		
Sampling Date		2018/01/22 13:25		2018/01/22 14:00		2018/01/23 13:45	2018/01/23 13:15		
COC Number		545120-02-01		545120-02-01		545120-02-01	545120-02-01		
	UNITS	IC-4.5	QC Batch	YUK-5.0	QC Batch	BARKER U/S S.R.	STEWART D/S M.M.	RDL	QC Batch

Calculated Parameters

Dissolved Hardness (CaCO3)	mg/L	102	8893771	108	8893771	230	216	0.50	8893771
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Elements

Dissolved Mercury (Hg)	ug/L	0.0028	8897658	<0.0020	8897658	<0.0020	<0.0020	0.0020	8897658
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Dissolved Metals by ICPMS

Dissolved Aluminum (Al)	ug/L	27.4	8895112	2.40	8895112	14.1	2.49	0.50	8895112
Dissolved Antimony (Sb)	ug/L	0.068	8895112	0.078	8895112	0.060	0.124	0.020	8895112
Dissolved Arsenic (As)	ug/L	0.265	8895112	0.283	8895112	3.45	0.210	0.020	8895112
Dissolved Barium (Ba)	ug/L	53.4	8895112	54.4	8895112	190	84.3	0.020	8895112
Dissolved Beryllium (Be)	ug/L	<0.010	8895112	<0.010	8895112	<0.010	<0.010	0.010	8895112
Dissolved Bismuth (Bi)	ug/L	<0.0050	8895112	<0.0050	8895112	<0.0050	<0.0050	0.0050	8895112
Dissolved Boron (B)	ug/L	<10	8895112	<10	8895112	<10	<10	10	8895112
Dissolved Cadmium (Cd)	ug/L	0.0087	8895112	0.0242	8895112	0.0114	0.138	0.0050	8895112
Dissolved Chromium (Cr)	ug/L	0.17	8895112	<0.10	8895112	0.30	0.46	0.10	8895112
Dissolved Cobalt (Co)	ug/L	0.0247	8895112	0.0119	8895112	1.25	0.0212	0.0050	8895112
Dissolved Copper (Cu)	ug/L	1.23	8895112	0.518	8895112	0.604	0.402	0.050	8895112
Dissolved Iron (Fe)	ug/L	8.3	8895112	8.5	8895112	2460	4.0	1.0	8895112
Dissolved Lead (Pb)	ug/L	<0.0050	8895112	<0.0050	8895112	0.0100	<0.0050	0.0050	8895112
Dissolved Lithium (Li)	ug/L	0.59	8895112	1.10	8895112	1.16	3.28	0.50	8895112
Dissolved Manganese (Mn)	ug/L	0.290	8895112	11.1	8895112	858	8.20	0.050	8895112
Dissolved Molybdenum (Mo)	ug/L	0.244	8895112	1.27	8895112	1.08	0.624	0.050	8895112
Dissolved Nickel (Ni)	ug/L	0.854	8895112	0.873	8895112	3.87	3.31	0.020	8895112
Dissolved Phosphorus (P)	ug/L	<2.0	8895112	<2.0	8895112	11.8	<2.0	2.0	8895112
Dissolved Selenium (Se)	ug/L	0.073	8895112	0.360	8897282	0.124	0.929	0.040	8895112
Dissolved Silicon (Si)	ug/L	5150	8895112	2930	8895112	5220	2740	50	8895112
Dissolved Silver (Ag)	ug/L	<0.0050	8895112	<0.0050	8895112	<0.0050	<0.0050	0.0050	8895112
Dissolved Strontium (Sr)	ug/L	136	8895112	131	8895112	286	249	0.050	8895112
Dissolved Thallium (Tl)	ug/L	<0.0020	8895112	<0.0020	8895112	<0.0020	<0.0020	0.0020	8895112
Dissolved Tin (Sn)	ug/L	<0.20	8895112	<0.20	8895112	<0.20	<0.20	0.20	8895112
Dissolved Titanium (Ti)	ug/L	<0.50	8895112	<0.50	8895112	0.72	<0.50	0.50	8895112
Dissolved Uranium (U)	ug/L	0.480	8895112	1.30	8895112	1.32	1.51	0.0020	8895112
Dissolved Vanadium (V)	ug/L	<0.20	8895112	<0.20	8895112	0.90	<0.20	0.20	8895112

RDL = Reportable Detection Limit

Maxxam Job #: B806180
Report Date: 2018/02/05

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SW1590		SW1591		SW1592	SW1593		
Sampling Date		2018/01/22 13:25		2018/01/22 14:00		2018/01/23 13:45	2018/01/23 13:15		
COC Number		545120-02-01		545120-02-01		545120-02-01	545120-02-01		
	UNITS	IC-4.5	QC Batch	YUK-5.0	QC Batch	BARKER U/S S.R.	STEWART D/S M.M.	RDL	QC Batch
Dissolved Zinc (Zn)	ug/L	0.25	8895112	2.33	8895112	0.42	11.9	0.10	8895112
Dissolved Zirconium (Zr)	ug/L	0.33	8895112	<0.10	8895112	0.60	<0.10	0.10	8895112
Dissolved Calcium (Ca)	mg/L	25.9	8894556	28.9	8894556	57.7	54.6	0.050	8894556
Dissolved Magnesium (Mg)	mg/L	8.96	8894556	8.71	8894556	21.0	19.4	0.050	8894556
Dissolved Potassium (K)	mg/L	1.25	8894556	0.895	8894556	1.95	0.716	0.050	8894556
Dissolved Sodium (Na)	mg/L	4.13	8894556	2.33	8894556	8.63	2.78	0.050	8894556
Dissolved Sulphur (S)	mg/L	17.5	8894556	8.6	8894556	25.8	31.8	3.0	8894556
RDL = Reportable Detection Limit									

Maxxam Job #: B806180
Report Date: 2018/02/05

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SW1594	SW1595	SW1597	SW1598			SW1598		
Sampling Date		2018/01/21 12:45			2018/01/21 19:00			2018/01/21 19:00		
COC Number		545120-02-01	545120-02-01	545120-03-01	545120-03-01			545120-03-01		
	UNITS	LATTE MIX	SAMPLE A	SAMPLE B	FIELD BLANK	RDL	QC Batch	FIELD BLANK Lab-Dup	RDL	QC Batch

Calculated Parameters

Dissolved Hardness (CaCO3)	mg/L	239	392	218	<0.50	0.50	8893771			
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Elements

Dissolved Mercury (Hg)	ug/L	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8897658			
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Dissolved Metals by ICPMS

Dissolved Aluminum (Al)	ug/L	5.13	6.73	7.53	<0.50	0.50	8895112	<0.50	0.50	8895112
Dissolved Antimony (Sb)	ug/L	0.048	0.095	0.092	<0.020	0.020	8895112	<0.020	0.020	8895112
Dissolved Arsenic (As)	ug/L	0.254	1.17	1.72	<0.020	0.020	8895112	<0.020	0.020	8895112
Dissolved Barium (Ba)	ug/L	98.8	71.0	181	<0.020	0.020	8895112	<0.020	0.020	8895112
Dissolved Beryllium (Be)	ug/L	<0.010	<0.010	<0.010	<0.010	0.010	8895112	<0.010	0.010	8895112
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8895112	<0.0050	0.0050	8895112
Dissolved Boron (B)	ug/L	<10	<10	<10	<10	10	8895112	<10	10	8895112
Dissolved Cadmium (Cd)	ug/L	<0.0050	<0.0050	0.0240	<0.0050	0.0050	8895112	<0.0050	0.0050	8895112
Dissolved Chromium (Cr)	ug/L	0.10	0.12	0.27	<0.10	0.10	8895112	<0.10	0.10	8895112
Dissolved Cobalt (Co)	ug/L	0.0525	0.0215	0.636	<0.0050	0.0050	8895112	<0.0050	0.0050	8895112
Dissolved Copper (Cu)	ug/L	0.542	0.997	1.89	<0.050	0.050	8895112	<0.050	0.050	8895112
Dissolved Iron (Fe)	ug/L	17.1	3.3	451	<1.0	1.0	8895112	<1.0	1.0	8895112
Dissolved Lead (Pb)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8895112	<0.0050	0.0050	8895112
Dissolved Lithium (Li)	ug/L	0.77	2.40	0.99	<0.50	0.50	8895112	<0.50	0.50	8895112
Dissolved Manganese (Mn)	ug/L	29.4	9.00	417	<0.050	0.050	8895112	<0.050	0.050	8895112
Dissolved Molybdenum (Mo)	ug/L	0.490	0.384	0.939	<0.050	0.050	8895112	<0.050	0.050	8895112
Dissolved Nickel (Ni)	ug/L	0.427	0.388	2.78	<0.020	0.020	8895112	<0.020	0.020	8895112
Dissolved Phosphorus (P)	ug/L	3.3	2.2	12.5	<2.0	2.0	8895112	<2.0	2.0	8895112
Dissolved Selenium (Se)	ug/L	0.113	0.205	0.102	<0.040	0.040	8895112	<0.040	0.040	8895112
Dissolved Silicon (Si)	ug/L	4820	5360	5020	<50	50	8895112	<50	50	8895112
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8895112	<0.0050	0.0050	8895112
Dissolved Strontium (Sr)	ug/L	353	785	298	<0.050	0.050	8895112	<0.050	0.050	8895112
Dissolved Thallium (Tl)	ug/L	<0.0020	0.0022	0.0022	<0.0020	0.0020	8895112	<0.0020	0.0020	8895112
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8895112	<0.20	0.20	8895112
Dissolved Titanium (Ti)	ug/L	<0.50	<0.50	0.58	<0.50	0.50	8895112	<0.50	0.50	8895112
Dissolved Uranium (U)	ug/L	17.8	33.2	2.05	<0.0020	0.0020	8895112	<0.0020	0.0020	8895112

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Maxxam Job #: B806180
Report Date: 2018/02/05

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SW1594	SW1595	SW1597	SW1598			SW1598		
Sampling Date		2018/01/21 12:45			2018/01/21 19:00			2018/01/21 19:00		
COC Number		545120-02-01	545120-02-01	545120-03-01	545120-03-01			545120-03-01		
	UNITS	LATTE MIX	SAMPLE A	SAMPLE B	FIELD BLANK	RDL	QC Batch	FIELD BLANK Lab-Dup	RDL	QC Batch
Dissolved Vanadium (V)	ug/L	<0.20	0.23	0.25	<0.20	0.20	8895112	<0.20	0.20	8895112
Dissolved Zinc (Zn)	ug/L	0.16	0.24	0.31	<0.10	0.10	8895112	<0.10	0.10	8895112
Dissolved Zirconium (Zr)	ug/L	0.17	0.28	0.44	<0.10	0.10	8895112	<0.10	0.10	8895112
Dissolved Calcium (Ca)	mg/L	67.5	102	54.0	<0.050	0.050	8894556			
Dissolved Magnesium (Mg)	mg/L	17.2	33.4	20.1	<0.050	0.050	8894556			
Dissolved Potassium (K)	mg/L	2.43	5.20	1.85	<0.050	0.050	8894556			
Dissolved Sodium (Na)	mg/L	4.82	6.50	8.77	<0.050	0.050	8894556			
Dissolved Sulphur (S)	mg/L	32.9	72.3	29.0	<3.0	3.0	8894556			
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B806180
Report Date: 2018/02/05

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SW1599			SW1599		
Sampling Date		2018/01/25			2018/01/25		
COC Number		545120-03-01			545120-03-01		
	UNITS	TRIP BLANK	RDL	QC Batch	TRIP BLANK Lab-Dup	RDL	QC Batch
Calculated Parameters							
Dissolved Hardness (CaCO3)	mg/L	<0.50	0.50	8893771			
Elements							
Dissolved Mercury (Hg)	ug/L	<0.0020	0.0020	8897658			
Dissolved Metals by ICPMS							
Dissolved Aluminum (Al)	ug/L	<0.50	0.50	8895112	<0.50	0.50	8895112
Dissolved Antimony (Sb)	ug/L	<0.020	0.020	8895112	<0.020	0.020	8895112
Dissolved Arsenic (As)	ug/L	<0.020	0.020	8895112	<0.020	0.020	8895112
Dissolved Barium (Ba)	ug/L	<0.020	0.020	8895112	<0.020	0.020	8895112
Dissolved Beryllium (Be)	ug/L	<0.010	0.010	8895112	<0.010	0.010	8895112
Dissolved Bismuth (Bi)	ug/L	<0.0050	0.0050	8895112	<0.0050	0.0050	8895112
Dissolved Boron (B)	ug/L	<10	10	8895112	<10	10	8895112
Dissolved Cadmium (Cd)	ug/L	<0.0050	0.0050	8895112	<0.0050	0.0050	8895112
Dissolved Chromium (Cr)	ug/L	<0.10	0.10	8895112	<0.10	0.10	8895112
Dissolved Cobalt (Co)	ug/L	<0.0050	0.0050	8895112	<0.0050	0.0050	8895112
Dissolved Copper (Cu)	ug/L	<0.050	0.050	8895112	<0.050	0.050	8895112
Dissolved Iron (Fe)	ug/L	<1.0	1.0	8895112	<1.0	1.0	8895112
Dissolved Lead (Pb)	ug/L	<0.0050	0.0050	8895112	<0.0050	0.0050	8895112
Dissolved Lithium (Li)	ug/L	<0.50	0.50	8895112	<0.50	0.50	8895112
Dissolved Manganese (Mn)	ug/L	<0.050	0.050	8895112	<0.050	0.050	8895112
Dissolved Molybdenum (Mo)	ug/L	<0.050	0.050	8895112	<0.050	0.050	8895112
Dissolved Nickel (Ni)	ug/L	<0.020	0.020	8895112	<0.020	0.020	8895112
Dissolved Phosphorus (P)	ug/L	<2.0	2.0	8895112	<2.0	2.0	8895112
Dissolved Selenium (Se)	ug/L	<0.040	0.040	8895112	<0.040	0.040	8895112
Dissolved Silicon (Si)	ug/L	<50	50	8895112	<50	50	8895112
Dissolved Silver (Ag)	ug/L	<0.0050	0.0050	8895112	<0.0050	0.0050	8895112
Dissolved Strontium (Sr)	ug/L	<0.050	0.050	8895112	<0.050	0.050	8895112
Dissolved Thallium (Tl)	ug/L	<0.0020	0.0020	8895112	<0.0020	0.0020	8895112
Dissolved Tin (Sn)	ug/L	<0.20	0.20	8895112	<0.20	0.20	8895112
Dissolved Titanium (Ti)	ug/L	<0.50	0.50	8895112	<0.50	0.50	8895112
Dissolved Uranium (U)	ug/L	<0.0020	0.0020	8895112	<0.0020	0.0020	8895112
RDL = Reportable Detection Limit							
Lab-Dup = Laboratory Initiated Duplicate							

Maxxam Job #: B806180
Report Date: 2018/02/05

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SW1599			SW1599		
Sampling Date		2018/01/25			2018/01/25		
COC Number		545120-03-01			545120-03-01		
	UNITS	TRIP BLANK	RDL	QC Batch	TRIP BLANK Lab-Dup	RDL	QC Batch
Dissolved Vanadium (V)	ug/L	<0.20	0.20	8895112	<0.20	0.20	8895112
Dissolved Zinc (Zn)	ug/L	<0.10	0.10	8895112	<0.10	0.10	8895112
Dissolved Zirconium (Zr)	ug/L	<0.10	0.10	8895112	<0.10	0.10	8895112
Dissolved Calcium (Ca)	mg/L	<0.050	0.050	8894556			
Dissolved Magnesium (Mg)	mg/L	<0.050	0.050	8894556			
Dissolved Potassium (K)	mg/L	<0.050	0.050	8894556			
Dissolved Sodium (Na)	mg/L	<0.050	0.050	8894556			
Dissolved Sulphur (S)	mg/L	<3.0	3.0	8894556			
RDL = Reportable Detection Limit							
Lab-Dup = Laboratory Initiated Duplicate							

Maxxam Job #: B806180
Report Date: 2018/02/05

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		SW1586			SW1586			SW1590		
Sampling Date		2018/01/21 15:20			2018/01/21 15:20			2018/01/22 13:25		
COC Number		545120-01-01			545120-01-01			545120-02-01		
	UNITS	CC-1.5	RDL	QC Batch	CC-1.5 Lab-Dup	RDL	QC Batch	IC-4.5	RDL	QC Batch

Calculated Parameters

Total Hardness (CaCO3)	mg/L	406	0.50	8893629				103	0.50	8893629
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Elements

Total Mercury (Hg)	ug/L	<0.0020	0.0020	8897455				<0.0020	0.0020	8897455
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Total Metals by ICPMS

Total Aluminum (Al)	ug/L	18.4	0.50	8895993	16.7	0.50	8895993	60.1	0.50	8895993
Total Antimony (Sb)	ug/L	0.094	0.020	8895993	0.092	0.020	8895993	0.071	0.020	8895993
Total Arsenic (As)	ug/L	1.19	0.020	8895993	1.22	0.020	8895993	0.285	0.020	8895993
Total Barium (Ba)	ug/L	80.9	0.020	8895993	78.3	0.020	8895993	58.4	0.020	8895993
Total Beryllium (Be)	ug/L	<0.010	0.010	8895993	<0.010	0.010	8895993	0.010	0.010	8895993
Total Bismuth (Bi)	ug/L	<0.0050	0.0050	8895993	<0.0050	0.0050	8895993	<0.0050	0.0050	8895993
Total Boron (B)	ug/L	<10	10	8895993	<10	10	8895993	<10	10	8895993
Total Cadmium (Cd)	ug/L	0.0074	0.0050	8895993	0.0063	0.0050	8895993	0.0126	0.0050	8895993
Total Chromium (Cr)	ug/L	0.13	0.10	8895993	0.12	0.10	8895993	0.23	0.10	8895993
Total Cobalt (Co)	ug/L	0.0323	0.0050	8895993	0.0320	0.0050	8895993	0.0478	0.0050	8895993
Total Copper (Cu)	ug/L	0.927	0.050	8895993	0.908	0.050	8895993	1.21	0.050	8895993
Total Iron (Fe)	ug/L	16.6	1.0	8895993	14.2	1.0	8895993	49.3	1.0	8895993
Total Lead (Pb)	ug/L	0.0076	0.0050	8895993	<0.0050	0.0050	8895993	0.0147	0.0050	8895993
Total Lithium (Li)	ug/L	3.58	0.50	8895993	3.50	0.50	8895993	0.92	0.50	8895993
Total Manganese (Mn)	ug/L	13.1	0.050	8895993	12.5	0.050	8895993	2.86	0.050	8895993
Total Molybdenum (Mo)	ug/L	0.406	0.050	8895993	0.407	0.050	8895993	0.211	0.050	8895993
Total Nickel (Ni)	ug/L	0.414	0.020	8895993	0.420	0.020	8895993	0.829	0.020	8895993
Total Phosphorus (P)	ug/L	3.4	2.0	8895993	3.2	2.0	8895993	4.3	2.0	8895993
Total Selenium (Se)	ug/L	0.180	0.040	8895993	0.187	0.040	8895993	0.087	0.040	8895993
Total Silicon (Si)	ug/L	5420	50	8895993	5950	50	8895993	5270	50	8895993
Total Silver (Ag)	ug/L	<0.0050	0.0050	8895993	<0.0050	0.0050	8895993	<0.0050	0.0050	8895993
Total Strontium (Sr)	ug/L	905	0.050	8895993	945	0.050	8895993	151	0.050	8895993
Total Thallium (Tl)	ug/L	0.0026	0.0020	8895993	0.0027	0.0020	8895993	<0.0020	0.0020	8895993
Total Tin (Sn)	ug/L	<0.20	0.20	8895993	<0.20	0.20	8895993	<0.20	0.20	8895993
Total Titanium (Ti)	ug/L	0.72	0.50	8895993	0.56	0.50	8895993	1.77	0.50	8895993
Total Uranium (U)	ug/L	33.9	0.0020	8895993	33.5	0.0020	8895993	0.535	0.0020	8895993

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Maxxam Job #: B806180
Report Date: 2018/02/05

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		SW1586			SW1586			SW1590		
Sampling Date		2018/01/21 15:20			2018/01/21 15:20			2018/01/22 13:25		
COC Number		545120-01-01			545120-01-01			545120-02-01		
	UNITS	CC-1.5	RDL	QC Batch	CC-1.5 Lab-Dup	RDL	QC Batch	IC-4.5	RDL	QC Batch
Total Vanadium (V)	ug/L	0.28	0.20	8895993	0.25	0.20	8895993	0.27	0.20	8895993
Total Zinc (Zn)	ug/L	0.24	0.10	8895993	0.23	0.10	8895993	0.50	0.10	8895993
Total Zirconium (Zr)	ug/L	0.16	0.10	8895993	0.19	0.10	8895993	0.32	0.10	8895993
Total Calcium (Ca)	mg/L	107	0.050	8894477				26.1	0.050	8894477
Total Magnesium (Mg)	mg/L	33.7	0.050	8894477				9.08	0.050	8894477
Total Potassium (K)	mg/L	5.48	0.050	8894477				1.33	0.050	8894477
Total Sodium (Na)	mg/L	6.26	0.050	8894477				3.87	0.050	8894477
Total Sulphur (S)	mg/L	69.0	3.0	8894477				17.5	3.0	8894477
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B806180
Report Date: 2018/02/05

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		SW1591	SW1594	SW1598			SW1598		
Sampling Date		2018/01/22 14:00	2018/01/21 12:45	2018/01/21 19:00			2018/01/21 19:00		
COC Number		545120-02-01	545120-02-01	545120-03-01			545120-03-01		
	UNITS	YUK-5.0	LATTE MIX	FIELD BLANK	RDL	QC Batch	FIELD BLANK Lab-Dup	RDL	QC Batch

Calculated Parameters

Total Hardness (CaCO3)	mg/L	105	265	<0.50	0.50	8893629			
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Elements

Total Mercury (Hg)	ug/L	<0.0020	<0.0020	<0.0020	0.0020	8897455	<0.0020	0.0020	8897455
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Total Metals by ICPMS

Total Aluminum (Al)	ug/L	22.6	10.4	<0.50	0.50	8895993			
Total Antimony (Sb)	ug/L	0.074	0.040	<0.020	0.020	8895993			
Total Arsenic (As)	ug/L	0.346	0.273	<0.020	0.020	8895993			
Total Barium (Ba)	ug/L	58.6	99.5	<0.020	0.020	8895993			
Total Beryllium (Be)	ug/L	<0.010	<0.010	<0.010	0.010	8895993			
Total Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	0.0050	8895993			
Total Boron (B)	ug/L	<10	<10	<10	10	8895993			
Total Cadmium (Cd)	ug/L	0.0265	0.0054	<0.0050	0.0050	8895993			
Total Chromium (Cr)	ug/L	0.11	<0.10	<0.10	0.10	8895993			
Total Cobalt (Co)	ug/L	0.0317	0.0602	<0.0050	0.0050	8895993			
Total Copper (Cu)	ug/L	0.465	0.525	<0.050	0.050	8895993			
Total Iron (Fe)	ug/L	66.7	50.0	<1.0	1.0	8895993			
Total Lead (Pb)	ug/L	0.0215	<0.0050	<0.0050	0.0050	8895993			
Total Lithium (Li)	ug/L	1.67	1.04	<0.50	0.50	8895993			
Total Manganese (Mn)	ug/L	12.6	29.4	<0.050	0.050	8895993			
Total Molybdenum (Mo)	ug/L	1.30	0.475	<0.050	0.050	8895993			
Total Nickel (Ni)	ug/L	0.819	0.387	<0.020	0.020	8895993			
Total Phosphorus (P)	ug/L	2.2	2.6	<2.0	2.0	8895993			
Total Selenium (Se)	ug/L	0.298	0.155	<0.040	0.040	8895993			
Total Silicon (Si)	ug/L	3220	5820	<50	50	8895993			
Total Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	0.0050	8895993			
Total Strontium (Sr)	ug/L	144	382	<0.050	0.050	8895993			
Total Thallium (Tl)	ug/L	<0.0020	<0.0020	<0.0020	0.0020	8895993			
Total Tin (Sn)	ug/L	<0.20	<0.20	<0.20	0.20	8895993			
Total Titanium (Ti)	ug/L	0.71	<0.50	<0.50	0.50	8895993			
Total Uranium (U)	ug/L	1.28	16.6	<0.0020	0.0020	8895993			

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Maxxam Job #: B806180
Report Date: 2018/02/05

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		SW1591	SW1594	SW1598			SW1598		
Sampling Date		2018/01/22 14:00	2018/01/21 12:45	2018/01/21 19:00			2018/01/21 19:00		
COC Number		545120-02-01	545120-02-01	545120-03-01			545120-03-01		
	UNITS	YUK-5.0	LATTE MIX	FIELD BLANK	RDL	QC Batch	FIELD BLANK Lab-Dup	RDL	QC Batch
Total Vanadium (V)	ug/L	0.22	<0.20	<0.20	0.20	8895993			
Total Zinc (Zn)	ug/L	2.47	0.20	<0.10	0.10	8895993			
Total Zirconium (Zr)	ug/L	<0.10	0.14	<0.10	0.10	8895993			
Total Calcium (Ca)	mg/L	29.1	79.8	<0.050	0.050	8894477			
Total Magnesium (Mg)	mg/L	7.82	15.9	<0.050	0.050	8894477			
Total Potassium (K)	mg/L	0.867	2.46	<0.050	0.050	8894477			
Total Sodium (Na)	mg/L	2.10	4.30	<0.050	0.050	8894477			
Total Sulphur (S)	mg/L	7.4	29.4	<3.0	3.0	8894477			
RDL = Reportable Detection Limit									
Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B806180
Report Date: 2018/02/05

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		SW1599		
Sampling Date		2018/01/25		
COC Number		545120-03-01		
	UNITS	TRIP BLANK	RDL	QC Batch
Calculated Parameters				
Total Hardness (CaCO3)	mg/L	<0.50	0.50	8893629
Elements				
Total Mercury (Hg)	ug/L	<0.0020	0.0020	8897455
Total Metals by ICPMS				
Total Aluminum (Al)	ug/L	<0.50	0.50	8895993
Total Antimony (Sb)	ug/L	<0.020	0.020	8895993
Total Arsenic (As)	ug/L	<0.020	0.020	8895993
Total Barium (Ba)	ug/L	<0.020	0.020	8895993
Total Beryllium (Be)	ug/L	<0.010	0.010	8895993
Total Bismuth (Bi)	ug/L	<0.0050	0.0050	8895993
Total Boron (B)	ug/L	<10	10	8895993
Total Cadmium (Cd)	ug/L	<0.0050	0.0050	8895993
Total Chromium (Cr)	ug/L	<0.10	0.10	8895993
Total Cobalt (Co)	ug/L	<0.0050	0.0050	8895993
Total Copper (Cu)	ug/L	<0.050	0.050	8895993
Total Iron (Fe)	ug/L	<1.0	1.0	8895993
Total Lead (Pb)	ug/L	<0.0050	0.0050	8895993
Total Lithium (Li)	ug/L	<0.50	0.50	8895993
Total Manganese (Mn)	ug/L	<0.050	0.050	8895993
Total Molybdenum (Mo)	ug/L	<0.050	0.050	8895993
Total Nickel (Ni)	ug/L	<0.020	0.020	8895993
Total Phosphorus (P)	ug/L	<2.0	2.0	8895993
Total Selenium (Se)	ug/L	<0.040	0.040	8895993
Total Silicon (Si)	ug/L	<50	50	8895993
Total Silver (Ag)	ug/L	<0.0050	0.0050	8895993
Total Strontium (Sr)	ug/L	<0.050	0.050	8895993
Total Thallium (Tl)	ug/L	<0.0020	0.0020	8895993
Total Tin (Sn)	ug/L	<0.20	0.20	8895993
Total Titanium (Ti)	ug/L	<0.50	0.50	8895993
Total Uranium (U)	ug/L	<0.0020	0.0020	8895993
Total Vanadium (V)	ug/L	<0.20	0.20	8895993
RDL = Reportable Detection Limit				

Maxxam Job #: B806180
Report Date: 2018/02/05

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		SW1599		
Sampling Date		2018/01/25		
COC Number		545120-03-01		
	UNITS	TRIP BLANK	RDL	QC Batch
Total Zinc (Zn)	ug/L	<0.10	0.10	8895993
Total Zirconium (Zr)	ug/L	<0.10	0.10	8895993
Total Calcium (Ca)	mg/L	<0.050	0.050	8894477
Total Magnesium (Mg)	mg/L	<0.050	0.050	8894477
Total Potassium (K)	mg/L	<0.050	0.050	8894477
Total Sodium (Na)	mg/L	<0.050	0.050	8894477
Total Sulphur (S)	mg/L	<3.0	3.0	8894477
RDL = Reportable Detection Limit				

Maxxam Job #: B806180
Report Date: 2018/02/05

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		SW1585		SW1587	SW1588	SW1589	SW1592		
Sampling Date		2018/01/21 14:05		2018/01/21 12:55	2018/01/21 14:50	2018/01/22 12:30	2018/01/23 13:45		
COC Number		545120-01-01		545120-01-01	545120-01-01	545120-01-01	545120-02-01		
	UNITS	CC-0.5	QC Batch	CC-4.5	CC-B	HC-2.5	BARKER U/S S.R.	RDL	QC Batch
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	180	8899782	124	374	190	202	0.50	8893629
Elements									
Total Mercury (Hg)	ug/L	<0.0020	8897455	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8897455
Total Metals by ICPMS									
Total Aluminum (Al)	ug/L	44.8	8900974	30.5	300	12.8	93.1	3.0	8895644
Total Antimony (Sb)	ug/L	0.021	8900974	0.078	0.125	0.491	0.077	0.020	8895644
Total Arsenic (As)	ug/L	0.385	8900974	0.266	1.11	0.599	22.7	0.020	8895644
Total Barium (Ba)	ug/L	75.8	8900974	84.2	137	60.4	214	0.050	8895644
Total Beryllium (Be)	ug/L	<0.010	8900974	<0.010	0.016	<0.010	0.021	0.010	8895644
Total Bismuth (Bi)	ug/L	<0.010	8900974	<0.010	<0.010	<0.010	<0.010	0.010	8895644
Total Boron (B)	ug/L	<10	8900974	<10	<10	<10	<10	10	8895644
Total Cadmium (Cd)	ug/L	0.0061	8900974	0.0101	0.0156	0.0144	0.0382	0.0050	8895644
Total Chromium (Cr)	ug/L	<0.10	8900974	0.17	1.31	0.11	0.57	0.10	8895644
Total Cobalt (Co)	ug/L	0.168	8900974	0.053	0.255	0.023	1.28	0.010	8895644
Total Copper (Cu)	ug/L	0.42	8900974	1.12	1.72	0.83	1.28	0.10	8895644
Total Iron (Fe)	ug/L	358	8900974	14.4	400	5.4	10200	5.0	8895644
Total Lead (Pb)	ug/L	<0.020	8900974	<0.020	0.186	<0.020	0.086	0.020	8895644
Total Lithium (Li)	ug/L	0.88	8900974	<0.50	1.56	1.69	1.30	0.50	8895644
Total Manganese (Mn)	ug/L	99.0	8900974	1.99	21.5	42.9	838	0.10	8895644
Total Molybdenum (Mo)	ug/L	0.149	8900974	0.505	0.459	1.44	1.04	0.050	8895644
Total Nickel (Ni)	ug/L	0.51	8900974	0.61	1.06	0.49	4.18	0.10	8895644
Total Phosphorus (P)	ug/L	<5.0	8900974	<5.0	15.0	<5.0	125	5.0	8895644
Total Selenium (Se)	ug/L	<0.040	8900974	0.066	0.102	0.067	0.166	0.040	8895644
Total Silicon (Si)	ug/L	3920	8900974	5070	5930	6240	5890	50	8895644
Total Silver (Ag)	ug/L	<0.010	8900974	<0.010	<0.010	<0.010	<0.010	0.010	8895644
Total Strontium (Sr)	ug/L	245	8900974	198	1090	523	316	0.050	8895644
Total Thallium (Tl)	ug/L	0.0023	8900974	<0.0020	0.0032	<0.0020	<0.0020	0.0020	8895644
Total Tin (Sn)	ug/L	<0.20	8900974	<0.20	<0.20	<0.20	<0.20	0.20	8895644
Total Titanium (Ti)	ug/L	2.7	8900974	<2.0	17.6	<2.0	4.5	2.0	8895644
Total Uranium (U)	ug/L	3.54	8900974	1.50	34.0	74.2	1.22	0.0050	8895644
Total Vanadium (V)	ug/L	<0.20	8900974	0.22	1.22	<0.20	3.37	0.20	8895644
RDL = Reportable Detection Limit									

Maxxam Job #: B806180
Report Date: 2018/02/05

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		SW1585		SW1587	SW1588	SW1589	SW1592		
Sampling Date		2018/01/21 14:05		2018/01/21 12:55	2018/01/21 14:50	2018/01/22 12:30	2018/01/23 13:45		
COC Number		545120-01-01		545120-01-01	545120-01-01	545120-01-01	545120-02-01		
	UNITS	CC-0.5	QC Batch	CC-4.5	CC-B	HC-2.5	BARKER U/S S.R.	RDL	QC Batch
Total Zinc (Zn)	ug/L	<1.0	8900974	<1.0	1.9	<1.0	1.4	1.0	8895644
Total Zirconium (Zr)	ug/L	<0.10	8900974	0.18	0.26	0.16	0.90	0.10	8895644
Total Calcium (Ca)	mg/L	56.2	8900180	31.0	98.0	45.6	52.0	0.25	8894477
Total Magnesium (Mg)	mg/L	9.68	8900180	11.3	31.4	18.6	17.7	0.25	8894477
Total Potassium (K)	mg/L	1.44	8900180	1.56	5.62	2.80	1.82	0.25	8894477
Total Sodium (Na)	mg/L	3.02	8900180	4.27	5.45	3.84	7.24	0.25	8894477
Total Sulphur (S)	mg/L	23.6	8900180	27.2	75.0	24.9	25.1	3.0	8894477
RDL = Reportable Detection Limit									

Maxxam Job #: B806180
Report Date: 2018/02/05

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		SW1593	SW1595		SW1597		
Sampling Date		2018/01/23 13:15					
COC Number		545120-02-01	545120-02-01		545120-03-01		
	UNITS	STEWART D/S M.M.	SAMPLE A	RDL	SAMPLE B	RDL	QC Batch
Calculated Parameters							
Total Hardness (CaCO3)	mg/L	200	356	0.50	263	0.50	8893629
Elements							
Total Mercury (Hg)	ug/L	<0.0020	<0.0020	0.0020	<0.0020	0.0020	8897455
Total Metals by ICPMS							
Total Aluminum (Al)	ug/L	42.0	10.1	3.0	2320	15	8895644
Total Antimony (Sb)	ug/L	0.127	0.092	0.020	0.82	0.10	8895644
Total Arsenic (As)	ug/L	0.381	1.33	0.020	490	0.10	8895644
Total Barium (Ba)	ug/L	80.8	68.4	0.050	1270	0.25	8895644
Total Beryllium (Be)	ug/L	<0.010	<0.010	0.010	0.339	0.050	8895644
Total Bismuth (Bi)	ug/L	<0.010	<0.010	0.010	0.103	0.050	8895644
Total Boron (B)	ug/L	<10	<10	10	<50	50	8895644
Total Cadmium (Cd)	ug/L	0.156	0.0081	0.0050	1.34	0.025	8895644
Total Chromium (Cr)	ug/L	<0.10	0.11	0.10	8.09	0.50	8895644
Total Cobalt (Co)	ug/L	0.073	0.021	0.010	4.68	0.050	8895644
Total Copper (Cu)	ug/L	0.63	0.90	0.10	43.8	0.50	8895644
Total Iron (Fe)	ug/L	110	<5.0	5.0	204000	25	8895644
Total Lead (Pb)	ug/L	0.097	<0.020	0.020	2.15	0.10	8895644
Total Lithium (Li)	ug/L	3.86	2.87	0.50	2.6	2.5	8895644
Total Manganese (Mn)	ug/L	12.9	9.82	0.10	814	0.50	8895644
Total Molybdenum (Mo)	ug/L	0.592	0.382	0.050	2.74	0.25	8895644
Total Nickel (Ni)	ug/L	3.14	0.37	0.10	19.2	0.50	8895644
Total Phosphorus (P)	ug/L	9.0	<5.0	5.0	3070	25	8895644
Total Selenium (Se)	ug/L	0.912	0.173	0.040	2.09	0.20	8895644
Total Silicon (Si)	ug/L	3110	5720	50	16100	250	8895644
Total Silver (Ag)	ug/L	<0.010	<0.010	0.010	<0.050	0.050	8895644
Total Strontium (Sr)	ug/L	275	945	0.050	596	0.25	8895644
Total Thallium (Tl)	ug/L	<0.0020	<0.0020	0.0020	0.013	0.010	8895644
Total Tin (Sn)	ug/L	<0.20	<0.20	0.20	<1.0	1.0	8895644
Total Titanium (Ti)	ug/L	<2.0	<2.0	2.0	101	10	8895644
Total Uranium (U)	ug/L	1.36	30.2	0.0050	7.08	0.025	8895644
Total Vanadium (V)	ug/L	<0.20	0.24	0.20	67.5	1.0	8895644
RDL = Reportable Detection Limit							

Maxxam Job #: B806180
Report Date: 2018/02/05

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		SW1593	SW1595		SW1597		
Sampling Date		2018/01/23 13:15					
COC Number		545120-02-01	545120-02-01		545120-03-01		
	UNITS	STEWART D/S M.M.	SAMPLE A	RDL	SAMPLE B	RDL	QC Batch
Total Zinc (Zn)	ug/L	13.7	<1.0	1.0	27.1	5.0	8895644
Total Zirconium (Zr)	ug/L	<0.10	0.18	0.10	9.23	0.50	8895644
Total Calcium (Ca)	mg/L	51.9	91.8	0.25	69.1	1.3	8894477
Total Magnesium (Mg)	mg/L	17.0	30.7	0.25	22.0	1.3	8894477
Total Potassium (K)	mg/L	0.69	5.47	0.25	2.5	1.3	8894477
Total Sodium (Na)	mg/L	2.31	5.85	0.25	9.1	1.3	8894477
Total Sulphur (S)	mg/L	32.3	71.4	3.0	33	15	8894477
RDL = Reportable Detection Limit							

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GENERAL COMMENTS

Sample SW1585 [CC-0.5] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SW1586 [CC-1.5] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SW1587 [CC-4.5] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SW1588 [CC-B] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SW1594 [LATTE MIX] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample SW1598 [FIELD BLANK] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

LL TOTAL METALS (DIGESTED) WITH CV HG Comments

Sample SW1597 [SAMPLE B] Elements by ICPMS Digested LL (total): RDL raised due to concentration over linear range, sample dilution required.

Sample SW1591, Elements by ICPMS Low Level (dissolved): Test repeated.

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8895011	Nitrate plus Nitrite (N)	2018/01/25	NC	80 - 120	112	80 - 120	<0.0020	mg/L	0.24	25
8895012	Nitrite (N)	2018/01/25	104	80 - 120	104	80 - 120	<0.0020	mg/L	0	25
8895024	Nitrate plus Nitrite (N)	2018/01/25	NC	80 - 120	110	80 - 120	<0.0020	mg/L	0.32	25
8895025	Nitrite (N)	2018/01/25	105	80 - 120	105	80 - 120	<0.0020	mg/L	NC	25
8895112	Dissolved Aluminum (Al)	2018/01/26	94	80 - 120	93	80 - 120	<0.50	ug/L	NC	20
8895112	Dissolved Antimony (Sb)	2018/01/26	96	80 - 120	94	80 - 120	<0.020	ug/L	NC	20
8895112	Dissolved Arsenic (As)	2018/01/26	95	80 - 120	92	80 - 120	<0.020	ug/L	NC	20
8895112	Dissolved Barium (Ba)	2018/01/26	NC	80 - 120	96	80 - 120	<0.020	ug/L	NC	20
8895112	Dissolved Beryllium (Be)	2018/01/26	85	80 - 120	84	80 - 120	<0.010	ug/L	NC	20
8895112	Dissolved Bismuth (Bi)	2018/01/26	103	80 - 120	104	80 - 120	<0.0050	ug/L	NC	20
8895112	Dissolved Boron (B)	2018/01/26	93	80 - 120	92	80 - 120	<10	ug/L	NC	20
8895112	Dissolved Cadmium (Cd)	2018/01/26	97	80 - 120	96	80 - 120	<0.0050	ug/L	NC	20
8895112	Dissolved Chromium (Cr)	2018/01/26	98	80 - 120	100	80 - 120	<0.10	ug/L	NC	20
8895112	Dissolved Cobalt (Co)	2018/01/26	97	80 - 120	102	80 - 120	<0.0050	ug/L	NC	20
8895112	Dissolved Copper (Cu)	2018/01/26	95	80 - 120	102	80 - 120	<0.050	ug/L	NC	20
8895112	Dissolved Iron (Fe)	2018/01/26	97	80 - 120	99	80 - 120	<1.0	ug/L	NC	20
8895112	Dissolved Lead (Pb)	2018/01/26	103	80 - 120	100	80 - 120	<0.0050	ug/L	NC	20
8895112	Dissolved Lithium (Li)	2018/01/26	82	80 - 120	82	80 - 120	<0.50	ug/L	NC	20
8895112	Dissolved Manganese (Mn)	2018/01/26	NC	80 - 120	100	80 - 120	<0.050	ug/L	NC	20
8895112	Dissolved Molybdenum (Mo)	2018/01/26	104	80 - 120	96	80 - 120	<0.050	ug/L	NC	20
8895112	Dissolved Nickel (Ni)	2018/01/26	97	80 - 120	104	80 - 120	<0.020	ug/L	NC	20
8895112	Dissolved Phosphorus (P)	2018/01/26	105	80 - 120	99	80 - 120	<2.0	ug/L	NC	20
8895112	Dissolved Selenium (Se)	2018/01/26	104	80 - 120	99	80 - 120	<0.040	ug/L	NC	20
8895112	Dissolved Silicon (Si)	2018/01/26	101	80 - 120	103	80 - 120	<50	ug/L	NC	20
8895112	Dissolved Silver (Ag)	2018/01/26	99	80 - 120	98	80 - 120	<0.0050	ug/L	NC	20
8895112	Dissolved Strontium (Sr)	2018/01/26	NC	80 - 120	93	80 - 120	<0.050	ug/L	NC	20
8895112	Dissolved Thallium (Tl)	2018/01/26	104	80 - 120	103	80 - 120	<0.0020	ug/L	NC	20
8895112	Dissolved Tin (Sn)	2018/01/26	95	80 - 120	96	80 - 120	<0.20	ug/L	NC	20
8895112	Dissolved Titanium (Ti)	2018/01/26	96	80 - 120	105	80 - 120	<0.50	ug/L	NC	20
8895112	Dissolved Uranium (U)	2018/01/26	118	80 - 120	113	80 - 120	<0.0020	ug/L	NC	20
8895112	Dissolved Vanadium (V)	2018/01/26	98	80 - 120	98	80 - 120	<0.20	ug/L	NC	20

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LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
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QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8895112	Dissolved Zinc (Zn)	2018/01/26	95	80 - 120	99	80 - 120	<0.10	ug/L	NC	20
8895112	Dissolved Zirconium (Zr)	2018/01/26	92	80 - 120	96	80 - 120	<0.10	ug/L	NC	20
8895399	Dissolved Organic Carbon (C)	2018/01/26	98	80 - 120	115	80 - 120	<0.50	mg/L	3.0	20
8895400	Total Organic Carbon (C)	2018/01/26	89	80 - 120	115	80 - 120	<0.50	mg/L	2.5	20
8895401	Total Organic Carbon (C)	2018/01/26	104	80 - 120	110	80 - 120	<0.50	mg/L	0.98	20
8895408	Total Suspended Solids	2018/01/29			102	80 - 120	<1.0	mg/L		
8895416	Dissolved Organic Carbon (C)	2018/01/26	104	80 - 120	110	80 - 120	<0.50	mg/L	8.9	20
8895485	Total Dissolved Solids	2018/01/31	101	80 - 120	98	80 - 120	<10	mg/L	2.5	20
8895499	Total Dissolved Solids	2018/01/31	98	80 - 120	91	80 - 120	<10	mg/L	NC	20
8895644	Total Aluminum (Al)	2018/01/30	100	80 - 120	88	80 - 120	<3.0	ug/L		
8895644	Total Antimony (Sb)	2018/01/30	106	80 - 120	90	80 - 120	<0.020	ug/L		
8895644	Total Arsenic (As)	2018/01/30	108	80 - 120	99	80 - 120	<0.020	ug/L		
8895644	Total Barium (Ba)	2018/01/30	NC	80 - 120	86	80 - 120	<0.050	ug/L		
8895644	Total Beryllium (Be)	2018/01/30	105	80 - 120	92	80 - 120	<0.010	ug/L		
8895644	Total Bismuth (Bi)	2018/01/30	96	80 - 120	87	80 - 120	<0.010	ug/L		
8895644	Total Boron (B)	2018/01/30	91	80 - 120	81	80 - 120	<10	ug/L		
8895644	Total Cadmium (Cd)	2018/01/30	102	80 - 120	87	80 - 120	<0.0050	ug/L		
8895644	Total Chromium (Cr)	2018/01/30	91	80 - 120	90	80 - 120	<0.10	ug/L		
8895644	Total Cobalt (Co)	2018/01/30	90	80 - 120	90	80 - 120	<0.010	ug/L		
8895644	Total Copper (Cu)	2018/01/30	88	80 - 120	91	80 - 120	<0.10	ug/L		
8895644	Total Iron (Fe)	2018/01/30	80	80 - 120	96	80 - 120	<5.0	ug/L		
8895644	Total Lead (Pb)	2018/01/30	100	80 - 120	90	80 - 120	<0.020	ug/L		
8895644	Total Lithium (Li)	2018/01/30	96	80 - 120	88	80 - 120	<0.50	ug/L		
8895644	Total Manganese (Mn)	2018/01/30	NC	80 - 120	93	80 - 120	<0.10	ug/L		
8895644	Total Molybdenum (Mo)	2018/01/30	104	80 - 120	87	80 - 120	<0.050	ug/L		
8895644	Total Nickel (Ni)	2018/01/30	91	80 - 120	93	80 - 120	<0.10	ug/L		
8895644	Total Phosphorus (P)	2018/01/30	111	80 - 120	101	80 - 120	<5.0	ug/L		
8895644	Total Selenium (Se)	2018/01/30	98	80 - 120	102	80 - 120	<0.040	ug/L		
8895644	Total Silicon (Si)	2018/01/30	115	80 - 120	108	80 - 120	<50	ug/L		
8895644	Total Silver (Ag)	2018/01/30	97	80 - 120	86	80 - 120	<0.010	ug/L		
8895644	Total Strontium (Sr)	2018/01/30	NC	80 - 120	98	80 - 120	<0.050	ug/L		

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LORAX ENVIRONMENTAL SERVICES LTD.
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QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8895644	Total Thallium (Tl)	2018/01/30	99	80 - 120	89	80 - 120	<0.0020	ug/L		
8895644	Total Tin (Sn)	2018/01/30	101	80 - 120	83	80 - 120	<0.20	ug/L		
8895644	Total Titanium (Ti)	2018/01/30	97	80 - 120	95	80 - 120	<2.0	ug/L		
8895644	Total Uranium (U)	2018/01/30	100	80 - 120	87	80 - 120	<0.0050	ug/L		
8895644	Total Vanadium (V)	2018/01/30	97	80 - 120	94	80 - 120	<0.20	ug/L		
8895644	Total Zinc (Zn)	2018/01/30	97	80 - 120	99	80 - 120	<1.0	ug/L		
8895644	Total Zirconium (Zr)	2018/01/30	100	80 - 120	94	80 - 120	<0.10	ug/L		
8895770	pH	2018/01/26			101	97 - 103			1.1	20
8895784	Conductivity	2018/01/26			100	80 - 120	<1.0	uS/cm	0	20
8895785	Alkalinity (PP as CaCO3)	2018/01/26					<0.50	mg/L	NC	20
8895785	Alkalinity (Total as CaCO3)	2018/01/26	NC	80 - 120	96	80 - 120	<0.50	mg/L	NC	20
8895785	Bicarbonate (HCO3)	2018/01/26					<0.50	mg/L	NC	20
8895785	Carbonate (CO3)	2018/01/26					<0.50	mg/L	NC	20
8895785	Hydroxide (OH)	2018/01/26					<0.50	mg/L	NC	20
8895993	Total Aluminum (Al)	2018/01/29	96	80 - 120	104	80 - 120	<0.50	ug/L	9.8	20
8895993	Total Antimony (Sb)	2018/01/29	94	80 - 120	102	80 - 120	<0.020	ug/L	2.2	20
8895993	Total Arsenic (As)	2018/01/29	102	80 - 120	102	80 - 120	<0.020	ug/L	2.9	20
8895993	Total Barium (Ba)	2018/01/29	NC	80 - 120	100	80 - 120	<0.020	ug/L	3.3	20
8895993	Total Beryllium (Be)	2018/01/29	95	80 - 120	112	80 - 120	<0.010	ug/L	NC	20
8895993	Total Bismuth (Bi)	2018/01/29	90	80 - 120	100	80 - 120	<0.0050	ug/L	NC	20
8895993	Total Boron (B)	2018/01/29	89	80 - 120	97	80 - 120	<10	ug/L	NC	20
8895993	Total Cadmium (Cd)	2018/01/29	92	80 - 120	101	80 - 120	<0.0050	ug/L	16	20
8895993	Total Chromium (Cr)	2018/01/29	87	80 - 120	94	80 - 120	<0.10	ug/L	7.5	20
8895993	Total Cobalt (Co)	2018/01/29	85	80 - 120	96	80 - 120	<0.0050	ug/L	0.93	20
8895993	Total Copper (Cu)	2018/01/29	81	80 - 120	94	80 - 120	<0.050	ug/L	2.0	20
8895993	Total Iron (Fe)	2018/01/29	97	80 - 120	105	80 - 120	<1.0	ug/L	15	20
8895993	Total Lead (Pb)	2018/01/29	94	80 - 120	103	80 - 120	<0.0050	ug/L	NC	20
8895993	Total Lithium (Li)	2018/01/29	95	80 - 120	115	80 - 120	<0.50	ug/L	2.2	20
8895993	Total Manganese (Mn)	2018/01/29	83	80 - 120	96	80 - 120	<0.050	ug/L	4.7	20
8895993	Total Molybdenum (Mo)	2018/01/29	100	80 - 120	100	80 - 120	<0.050	ug/L	0.37	20
8895993	Total Nickel (Ni)	2018/01/29	85	80 - 120	96	80 - 120	<0.020	ug/L	1.6	20

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LORAX ENVIRONMENTAL SERVICES LTD.
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QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8895993	Total Phosphorus (P)	2018/01/29	99	80 - 120	101	80 - 120	<2.0	ug/L	5.9	20
8895993	Total Selenium (Se)	2018/01/29	102	80 - 120	99	80 - 120	<0.040	ug/L	3.8	20
8895993	Total Silicon (Si)	2018/01/29	NC	80 - 120	108	80 - 120	<50	ug/L	9.4	20
8895993	Total Silver (Ag)	2018/01/29	91	80 - 120	98	80 - 120	<0.0050	ug/L	NC	20
8895993	Total Strontium (Sr)	2018/01/29	NC	80 - 120	102	80 - 120	<0.050	ug/L	4.2	20
8895993	Total Thallium (Tl)	2018/01/29	93	80 - 120	99	80 - 120	<0.0020	ug/L	3.8	20
8895993	Total Tin (Sn)	2018/01/29	82	80 - 120	87	80 - 120	<0.20	ug/L	NC	20
8895993	Total Titanium (Ti)	2018/01/29	92	80 - 120	95	80 - 120	<0.50	ug/L	NC	20
8895993	Total Uranium (U)	2018/01/29	90	80 - 120	100	80 - 120	<0.0020	ug/L	1.1	20
8895993	Total Vanadium (V)	2018/01/29	91	80 - 120	96	80 - 120	<0.20	ug/L	8.0	20
8895993	Total Zinc (Zn)	2018/01/29	85	80 - 120	101	80 - 120	<0.10	ug/L	7.3	20
8895993	Total Zirconium (Zr)	2018/01/29	97	80 - 120	97	80 - 120	<0.10	ug/L	14	20
8896147	Total Ammonia (N)	2018/01/26	105	80 - 120	102	80 - 120	<0.0050	mg/L	NC	20
8896774	Total Suspended Solids	2018/01/30			100	80 - 120	<1.0	mg/L		
8896776	Total Suspended Solids	2018/01/30			104	80 - 120	<1.0	mg/L		
8897282	Dissolved Selenium (Se)	2018/01/30	88	80 - 120	97	80 - 120	<0.040	ug/L	NC	20
8897455	Total Mercury (Hg)	2018/01/30	99	80 - 120	99	80 - 120	<0.0020	ug/L	NC	20
8897457	Dissolved Chloride (Cl)	2018/01/29	116	80 - 120	103	80 - 120	<0.50	mg/L	2.8	20
8897461	Dissolved Sulphate (SO4)	2018/01/29	NC	80 - 120	100	80 - 120	<0.50	mg/L	0.22	20
8897652	ORP	2018/01/31							0	20
8897658	Dissolved Mercury (Hg)	2018/01/30	94	80 - 120	100	80 - 120	<0.0020	ug/L	NC	20
8897806	Total Organic Carbon (C)	2018/01/30	100	80 - 120	113	80 - 120	<0.50	mg/L	NC	20
8898072	Weak Acid Dissoc. Cyanide (CN)	2018/01/30	103	80 - 120	102	80 - 120	<0.00050	mg/L	NC	20
8898706	Dissolved Sulphate (SO4)	2018/01/30			101	80 - 120	<0.50	mg/L		
8899108	Fluoride (F)	2018/01/31	104	80 - 120	104	80 - 120	<0.010	mg/L	0	20
8900974	Total Aluminum (Al)	2018/02/03	NC	80 - 120	110	80 - 120	<3.0	ug/L	5.2	20
8900974	Total Antimony (Sb)	2018/02/03	95	80 - 120	95	80 - 120	<0.020	ug/L	7.2	20
8900974	Total Arsenic (As)	2018/02/03	98	80 - 120	99	80 - 120	<0.020	ug/L	4.0	20
8900974	Total Barium (Ba)	2018/02/03	NC	80 - 120	100	80 - 120	<0.050	ug/L	0.16	20
8900974	Total Beryllium (Be)	2018/02/03	99	80 - 120	100	80 - 120	<0.010	ug/L	5.3	20
8900974	Total Bismuth (Bi)	2018/02/03	93	80 - 120	97	80 - 120	<0.010	ug/L	NC	20

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Site Location: COFFEE CREEK - SURFACE WATER

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8900974	Total Boron (B)	2018/02/03	NC	80 - 120	94	80 - 120	<10	ug/L	4.0	20
8900974	Total Cadmium (Cd)	2018/02/03	94	80 - 120	95	80 - 120	<0.0050	ug/L	NC	20
8900974	Total Chromium (Cr)	2018/02/03	96	80 - 120	101	80 - 120	<0.10	ug/L	11	20
8900974	Total Cobalt (Co)	2018/02/03	96	80 - 120	101	80 - 120	<0.010	ug/L	7.3	20
8900974	Total Copper (Cu)	2018/02/03	94	80 - 120	101	80 - 120	<0.10	ug/L	15	20
8900974	Total Iron (Fe)	2018/02/03	126 (1)	80 - 120	110	80 - 120	<5.0	ug/L	3.8	20
8900974	Total Lead (Pb)	2018/02/03	95	80 - 120	98	80 - 120	<0.020	ug/L	4.1	20
8900974	Total Lithium (Li)	2018/02/03	NC	80 - 120	103	80 - 120	<0.50	ug/L	3.5	20
8900974	Total Manganese (Mn)	2018/02/03	93	80 - 120	101	80 - 120	<0.10	ug/L	11	20
8900974	Total Molybdenum (Mo)	2018/02/03	NC	80 - 120	97	80 - 120	<0.050	ug/L	0.96	20
8900974	Total Nickel (Ni)	2018/02/03	93	80 - 120	101	80 - 120	<0.10	ug/L	6.4	20
8900974	Total Phosphorus (P)	2018/02/03	107	80 - 120	105	80 - 120	<5.0	ug/L		
8900974	Total Selenium (Se)	2018/02/03	99	80 - 120	104	80 - 120	<0.040	ug/L	13	20
8900974	Total Silicon (Si)	2018/02/03	104	80 - 120	103	80 - 120	<50	ug/L	2.3	20
8900974	Total Silver (Ag)	2018/02/03	92	80 - 120	96	80 - 120	<0.010	ug/L	NC	20
8900974	Total Strontium (Sr)	2018/02/03	NC	80 - 120	98	80 - 120	<0.050	ug/L	5.3	20
8900974	Total Thallium (Tl)	2018/02/03	91	80 - 120	98	80 - 120	<0.0020	ug/L	18	20
8900974	Total Tin (Sn)	2018/02/03	91	80 - 120	93	80 - 120	<0.20	ug/L	NC	20
8900974	Total Titanium (Ti)	2018/02/03	111	80 - 120	102	80 - 120	<2.0	ug/L	18	20
8900974	Total Uranium (U)	2018/02/03	101	80 - 120	103	80 - 120	<0.0050	ug/L	3.0	20
8900974	Total Vanadium (V)	2018/02/03	102	80 - 120	101	80 - 120	<0.20	ug/L	3.4	20
8900974	Total Zinc (Zn)	2018/02/03	98	80 - 120	102	80 - 120	<1.0	ug/L	NC	20

Maxxam Job #: B806180
Report Date: 2018/02/05

QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8900974	Total Zirconium (Zr)	2018/02/03	102	80 - 120	99	80 - 120	<0.10	ug/L	3.8	20

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

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

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

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

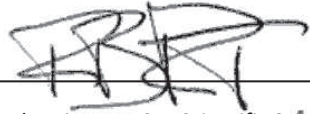
(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

Maxxam Job #: B806180
Report Date: 2018/02/05

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Rob Reinert, B.Sc., Scientific Spécialist

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

INVOICE TO:		Report Information		Project Information	
Company Name	#3604 LORAX ENVIRONMENTAL SERVICES LTD.	Company Name	David Flather	Quotation #	B40231
Contact Name	Aida Piaseczny	Contact Name	David Flather	P.O. #	
Address	2289 BURRARD STREET VANCOUVER BC V6J 3H9	Address		Project #	Gold Corp Coffee Creek-SW
Phone	(604) 688-7173 x	Phone		Project Name	
Email	aida.piaseczny@lorax.ca, shukling.ng@lorax.ca	Email	David.Flather@lorax.ca	Site #	
				Sampled By	



B806180_COC

Order #:

545120

Project Manager

Megan Smith

Regulatory Criteria	Special Instructions	Analysis Requested										Turnaround Time (TAT) Required		
		Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	Routine (Alk-LI, EC-LI, NH4-LI, pH, TDS)	TSS-Low Level	Anions (LI, CI, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	Regular (Standard) TAT (will be applied if Rush TAT is not specified) Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details. Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____ Rush Confirmation Number: _____ (call lab for #)	<input checked="" type="checkbox"/>
<p>Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form</p> <p>Samples must be kept cool (< 10°C) from time of sampling until delivery to maxxam</p>														

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	Routine (Alk-LI, EC-LI, NH4-LI, pH, TDS)	TSS-Low Level	Anions (LI, CI, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	# of Bottles	Comments
SID#162743	CC-0.5	JAN. 21	14:05	H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	
SID#162744	CC-1.5	JAN. 21	15:20	H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	
SID#162745	CC-3.5																
SID#162746	CC-4.5	JAN. 21	12:55	H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	X13	RECEIVED IN WHITEHORSE BY: <i>[Signature]</i> @ 12:50
SID#162747	CC-A																2018-01-24
SID#162748	CC-B	JAN. 21	14:50	H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	X13	TEMP: 10, 9, 10 6, 6, 6
SID#149855	CC-X																9, 8, 9
SID#149856	HC-2.5	JAN. 22	12:30	H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	X13	10, 9, 10
SID#149857	IC-0.5																
SID#149858	IC-1.5																

RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# Jars used and not submitted	Lab Use Only	
<i>[Signature]</i>	Jan 24	12:55	<i>[Signature]</i> EVA SYKORA	2018/01/25	14:15		Time Sensitive <input type="checkbox"/>	Temperature (°C) on Receipt: 2, 3, 5
<p>* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.</p> <p>IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.</p>							Custody Seal Intact on Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	White Maxxam Yellow Client

214,4 ICE PRESENT
217,4

INVOICE TO:		Report Information		Project Information	
Company Name	#3604 LORAX ENVIRONMENTAL SERVICES LTD.	Company Name	David Flather	Quotation #	B40231
Contact Name	Aida Piaseczny	Contact Name	David Flather	P.O. #	
Address	2289 BURRARD STREET VANCOUVER BC V6J 3H9	Address		Project #	Gold Corp Coffee Creek-SW
Phone	(604) 688-7173 x Fax: (604) 688-7175 x	Phone		Project Name	
Email	aida.piaseczny@lorax.ca, shukling.ng@lorax.ca	Email	David.Flather@lorax.ca	Site #	
				Sampled By	



B806180_COC

Order #:



5120

Project Manager



C#545120-02-01

Megan Smith

Regulatory Criteria		Special Instructions		Analysis Requested										Turnaround Time (TAT) Required			
				Regulated Drinking Water ? (Y/N) Metals Field Filtered ? (Y/N) Routine (Alk-LI, EC-LI, NH4-LI, pH, TDS) TSS-Low Level Anions (LL Cl, F, NO2, NO3, SO4) Cyanide - WAD TOC DOC Low Level Dissolved Metals incl. CV Hg Low Level Total Metals incl. CV Hg ORP										Please provide advance notice for rush projects Regular (Standard) TAT (will be applied if Rush TAT is not specified) Standard TAT = 5-7 Working days for most tests Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details. Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____ Rush Confirmation Number _____ (call lab for #)			
Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form Samples must be kept cool (< 10°C) from time of sampling until delivery to maxxam																	
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	Routine (Alk-LI, EC-LI, NH4-LI, pH, TDS)	TSS-Low Level	Anions (LL Cl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	# of Bottles	Comments
1	IC-4.5	JAN. 22	13:25	H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	RECEIVED IN WHITEHORSE BY: SAJONO @ 1250
2	YUK-2.0																2018-01-24
3	YUK-5.0	JAN. 22	14:00	H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	TEMP: 10 9 10
4	Ballarat U/S Y.R.																6 6 6
5	Barker U/S S.R.	JAN. 23	13:45	H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	9 8 9
6	Blackhills U/S S.R.																10 9 10
7	MaisyMay U/S S.R.																
8	Stewart D/S M.M.	JAN. 23	13:15	H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	
9	Latte Mix	JAN. 21	12:45	H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	
10	Sample A			H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	
* RELINQUISHED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	# jars used and not submitted		Lab Use Only							
[Signature]		JAN 24	12:55	[Signature]		2018/04/25	14:25			Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?					
										<input type="checkbox"/>	23.5	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.														* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.			

2,4,4
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ICE-PRESENT

INVOICE TO:		Report Information		Project Information	
Company Name	#3604 LORAX ENVIRONMENTAL SERVICES LTD.	Company Name	David Flather	Quotation #	B40231
Contact Name	Aida Piaseczny	Contact Name	David Flather	P.O. #	
Address	2289 BURRARD STREET VANCOUVER BC V6J 3H9	Address		Project #	Gold Corp Coffee Creek-SW
Phone	(604) 688-7173 x Fax (604) 688-7175 x	Phone		Project Name	
Email	aida.piaseczny@lorax.ca; shukling.ng@lorax.ca	Email	David.Flather@lorax.ca	Site #	
				Sampled By	



Order #:
#120
Manager
Megan Smith

Regulatory Criteria	Special Instructions	Analysis Requested										Turnaround Time (TAT) Required		
<p>Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form</p> <p>Samples must be kept cool (< 10°C) from time of sampling until delivery to maxxam</p>		Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	Routine (Alk-L, EC-LL, NH4-L, pH, TDS)	TSS-Low Level	Anions (LL Cl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	<p>Please provide advance notice for rush projects</p> <p>Regular (Standard) TAT (will be applied if Rush TAT is not specified) Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.</p> <p>Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____ Rush Confirmation Number _____ (call lab for #)</p>	

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	Routine (Alk-L, EC-LL, NH4-L, pH, TDS)	TSS-Low Level	Anions (LL Cl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	# of Bottles	Comments
SID#176823	Sample B			H ₂ O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	
SID#176824	FIELD BLANK	JAN. 21	19:00	H ₂ O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	RECEIVED IN WHITEHORSE
SID#176825	TRIP BLANK			H ₂ O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	BY: <i>Slyono@1250</i>
SID#176956																	2018 -01- 24
SID#176957																	TEMP: 10 1 9 1 10
																	6 6 6
																	9 8 9
																	10 9 10

RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
<i>Aida Piaseczny</i>	Jan. 24	12:55	<i>EVA SYKORA</i>	2018/01/25	14:15		<input type="checkbox"/>	2,3,5	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

24,4
21,4
ICE PRESENT

Your Project #: GOLD CORP COFFEE CREEK-SW
 Site Location: COFFEE CREEK - SURFACE WATER
 Your C.O.C. #: 546749-01-01, 546749-02-01

Attention: David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
 2289 BURRARD STREET
 VANCOUVER, BC
 CANADA V6J 3H9

Report Date: 2018/03/02

Report #: R2522759

Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B812436

Received: 2018/02/19, 10:40

Sample Matrix: Water
 # Samples Received: 9

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Alkalinity - Low Level	9	2018/02/21	2018/02/21	BBY6SOP-00026	SM 22 2320 B m
Chloride - Low Level	9	N/A	2018/02/21	BBY6SOP-00011	SM 22 4500-Cl- E m
Cyanide WAD (weak acid dissociable)	9	N/A	2018/02/27	BBY6SOP-00004	SM 22 4500-CN O m
Carbon (DOC) - field filtered/preserved (1)	9	N/A	2018/02/22	BBY6SOP-00003	SM 22 5310 C m
Conductance - Low Level	9	2018/02/21	2018/02/21	BBY6SOP-00026	SM 22 2510 B m
Fluoride - Low Level	9	N/A	2018/02/27	BBY6SOP-00048	SM 22 4500-F C m
Hardness Total (calculated as CaCO3) (2)	5	N/A	2018/02/22	BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO3) (2)	4	N/A	2018/02/28	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3)	9	N/A	2018/02/27	BBY WI-00033	Auto Calc
Mercury (Dissolved) by CVAf	9	N/A	2018/02/21	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Total) by CVAf	9	2018/02/21	2018/02/21	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	9	N/A	2018/02/27	BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (dissolved)	9	N/A	2018/02/26	BBY7SOP-00002	EPA 6020b R2 m
Elements by ICPMS Digested LL (total)	4	2018/02/21	2018/02/27	BBY7SOP-00003,	EPA 6020b R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total)	5	N/A	2018/02/22	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (total)	4	N/A	2018/02/28	BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (total)	5	N/A	2018/02/22	BBY7SOP-00002	EPA 6020b R2 m
Ammonia-N Low Level (Preserved)	8	N/A	2018/02/21	BBY6SOP-00009	EPA 350.1 m
Ammonia-N Low Level (Preserved)	1	N/A	2018/02/27	BBY6SOP-00009	EPA 350.1 m
Nitrate+Nitrite (N) (low level)	9	N/A	2018/02/20	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrite (N) (low level)	9	N/A	2018/02/20	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrogen - Nitrate (as N) Low Level Calc	9	N/A	2018/02/21	BBY WI-00033	Auto Calc
ORP Analysis on Water by ARD LAB	9	N/A	2018/02/21	BBY0SOP-00004	SM 22 2580 B
Filter and HNO3 Preserve for Metals	8	N/A	2018/02/21	BBY7 WI-00004	BCMOE Reqs 08/14
pH Water (3)	9	2018/02/21	2018/02/21	BBY6SOP-00026	SM 22 4500-H+ B m
Sulphate - Low Level	7	N/A	2018/02/21	BBY6SOP-00017	SM 22 4500-SO42- E m
Sulphate - Low Level	2	N/A	2018/02/22	BBY6SOP-00017	SM 22 4500-SO42- E m
Total Dissolved Solids (Filt. Residue)	3	2018/02/22	2018/02/23	BBY6SOP-00033	SM 22 2540 C m
Total Dissolved Solids (Filt. Residue)	6	2018/02/23	2018/02/27	BBY6SOP-00033	SM 22 2540 C m
Carbon (Total Organic) (4)	9	N/A	2018/02/22	BBY6SOP-00003	SM 22 5310 C m

Your Project #: GOLD CORP COFFEE CREEK-SW
 Site Location: COFFEE CREEK - SURFACE WATER
 Your C.O.C. #: 546749-01-01, 546749-02-01

Attention: David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
 2289 BURRARD STREET
 VANCOUVER, BC
 CANADA V6J 3H9

Report Date: 2018/03/02
 Report #: R2522759
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B812436

Received: 2018/02/19, 10:40

Sample Matrix: Water
 # Samples Received: 9

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Total Suspended Solids-Low Level	4	2018/02/23	2018/02/26	BBY6SOP-00034	SM 22 2540 D
Total Suspended Solids-Low Level	5	2018/02/24	2018/02/26	BBY6SOP-00034	SM 22 2540 D

Remarks:

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Maxxam's profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Maxxam in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected.

Maxxam Analytics' liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Maxxam has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Maxxam, unless otherwise agreed in writing.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

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

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

- (1) DOC present in the sample should be considered as non-purgeable DOC.
- (2) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).
- (3) The BC-MOE and APHA Standard Method require pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the BC-MOE/APHA Standard Method holding time.
- (4) TOC present in the sample should be considered as non-purgeable TOC.

Your Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER
Your C.O.C. #: 546749-01-01, 546749-02-01

Attention: David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
2289 BURRARD STREET
VANCOUVER, BC
CANADA V6J 3H9

Report Date: 2018/03/02
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CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B812436

Received: 2018/02/19, 10:40

Encryption Key



Maxxam
02 Mar 2018 17:50:18



Please direct all questions regarding this Certificate of Analysis to your Project Manager.
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Maxxam Job #: B812436
Report Date: 2018/03/02

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SZ2387			SZ2387			SZ2388		
Sampling Date		2018/02/17 12:30			2018/02/17 12:30			2018/02/17 13:05		
COC Number		546749-01-01			546749-01-01			546749-01-01		
	UNITS	CC-0.5	RDL	QC Batch	CC-0.5 Lab-Dup	RDL	QC Batch	CC-1.5	RDL	QC Batch
Parameter										
ORP	mV	292		8915849	294		8915849	296		8915849
Calculated Parameters										
Filter and HNO3 Preservation	N/A	LAB		8914275				LAB		8914275
Nitrate (N)	mg/L	0.0712	0.0020	8914568				0.298	0.0020	8914568
Misc. Inorganics										
Weak Acid Dissoc. Cyanide (CN)	mg/L	<0.00050	0.00050	8920768				<0.00050	0.00050	8920768
Fluoride (F)	mg/L	0.061	0.010	8920887				0.110	0.010	8920887
Dissolved Organic Carbon (C)	mg/L	3.91	0.50	8917336				5.59	0.50	8917336
Alkalinity (Total as CaCO3)	mg/L	149	0.50	8916933	153	0.50	8916933	218	0.50	8916891
Total Organic Carbon (C)	mg/L	4.12	0.50	8917338				5.99	0.50	8917340
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	8916933	<0.50	0.50	8916933	<0.50	0.50	8916891
Bicarbonate (HCO3)	mg/L	182	0.50	8916933	186	0.50	8916933	266	0.50	8916891
Carbonate (CO3)	mg/L	<0.50	0.50	8916933	<0.50	0.50	8916933	<0.50	0.50	8916891
Hydroxide (OH)	mg/L	<0.50	0.50	8916933	<0.50	0.50	8916933	<0.50	0.50	8916891
Anions										
Dissolved Sulphate (SO4)	mg/L	100	0.50	8919113				210 (1)	5.0	8918036
Dissolved Chloride (Cl)	mg/L	0.57	0.50	8918023				<0.50	0.50	8918023
Nutrients										
Total Ammonia (N)	mg/L	0.019	0.0050	8916343				0.0090	0.0050	8916343
Nitrate plus Nitrite (N)	mg/L	0.0733	0.0020	8915257				0.298	0.0020	8915257
Nitrite (N)	mg/L	0.0021	0.0020	8915258				<0.0020	0.0020	8915258
Physical Properties										
Conductivity	uS/cm	462	1.0	8916930	465	1.0	8916930	807	1.0	8916889
pH	pH	8.17		8916920	8.21		8916920	8.16		8916887
Physical Properties										
Total Suspended Solids	mg/L	1.8 (2)	1.1	8918153				40.3	1.0	8918153
Total Dissolved Solids	mg/L	304	10	8917053				554	10	8917053
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate (1) Detection limits raised due to dilution to bring analyte within the calibrated range. (2) RDL raised due to limited initial sample amount.										

Maxxam Job #: B812436
Report Date: 2018/03/02

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SZ2388			SZ2389		SZ2390		
Sampling Date		2018/02/17 13:05			2018/02/17 10:45		2018/02/17 15:55		
COC Number		546749-01-01			546749-01-01		546749-01-01		
	UNITS	CC-1.5 Lab-Dup	RDL	QC Batch	YUK-2.0	QC Batch	YUK-5.0	RDL	QC Batch
Parameter									
ORP	mV				295	8915849	298		8915849
Calculated Parameters									
Filter and HNO3 Preservation	N/A				LAB	8914275	LAB		8914275
Nitrate (N)	mg/L				0.0825	8914568	0.103	0.0020	8914568
Misc. Inorganics									
Weak Acid Dissoc. Cyanide (CN)	mg/L				<0.00050	8920768	<0.00050	0.00050	8920768
Fluoride (F)	mg/L	0.110	0.010	8920887	0.120	8920887	0.120	0.010	8920887
Dissolved Organic Carbon (C)	mg/L				2.76	8917336	1.52	0.50	8917336
Alkalinity (Total as CaCO3)	mg/L				89.2	8916891	91.8	0.50	8916933
Total Organic Carbon (C)	mg/L				2.75	8917340	1.11	0.50	8917338
Alkalinity (PP as CaCO3)	mg/L				<0.50	8916891	<0.50	0.50	8916933
Bicarbonate (HCO3)	mg/L				109	8916891	112	0.50	8916933
Carbonate (CO3)	mg/L				<0.50	8916891	<0.50	0.50	8916933
Hydroxide (OH)	mg/L				<0.50	8916891	<0.50	0.50	8916933
Anions									
Dissolved Sulphate (SO4)	mg/L				25.7	8919113	26.2	0.50	8918036
Dissolved Chloride (Cl)	mg/L				<0.50	8918023	<0.50	0.50	8918023
Nutrients									
Total Ammonia (N)	mg/L				0.045	8916343	0.011	0.0050	8916343
Nitrate plus Nitrite (N)	mg/L				0.0847	8915257	0.103	0.0020	8915257
Nitrite (N)	mg/L				0.0022	8915258	<0.0020	0.0020	8915258
Physical Properties									
Conductivity	uS/cm				220	8916889	227	1.0	8916930
pH	pH				8.13	8916887	8.13		8916920
Physical Properties									
Total Suspended Solids	mg/L				<1.0	8918153	87.8	1.0	8918153
Total Dissolved Solids	mg/L				150	8917053	112	10	8918333
RDL = Reportable Detection Limit									
Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B812436
Report Date: 2018/03/02

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SZ2390			SZ2397	SZ2398	SZ2399		
Sampling Date		2018/02/17 15:55			2018/02/17 17:05	2018/02/17 12:00	2018/02/17 12:00		
COC Number		546749-01-01			546749-02-01	546749-02-01	546749-02-01		
	UNITS	YUK-5.0 Lab-Dup	RDL	QC Batch	STEWART D/S M.M.	LATTE MIX	SAMPLE B	RDL	QC Batch
Parameter									
ORP	mV				299	300	301		8915849
Calculated Parameters									
Filter and HNO3 Preservation	N/A				LAB	LAB	LAB		8914275
Nitrate (N)	mg/L				0.176	0.409	0.177	0.0020	8914568
Misc. Inorganics									
Weak Acid Dissoc. Cyanide (CN)	mg/L				<0.00050	<0.00050	<0.00050	0.00050	8920768
Fluoride (F)	mg/L				0.090	0.078	0.089	0.010	8920887
Dissolved Organic Carbon (C)	mg/L				1.40	3.33	0.75	0.50	8917336
Alkalinity (Total as CaCO3)	mg/L				130	168	129	0.50	8916933
Total Organic Carbon (C)	mg/L				0.87	3.26	0.83	0.50	8917338
Alkalinity (PP as CaCO3)	mg/L				<0.50	<0.50	<0.50	0.50	8916933
Bicarbonate (HCO3)	mg/L				159	205	158	0.50	8916933
Carbonate (CO3)	mg/L				<0.50	<0.50	<0.50	0.50	8916933
Hydroxide (OH)	mg/L				<0.50	<0.50	<0.50	0.50	8916933
Anions									
Dissolved Sulphate (SO4)	mg/L				96.4	89.2	93.6	0.50	8918036
Dissolved Chloride (Cl)	mg/L				<0.50	0.64	<0.50	0.50	8918023
Nutrients									
Total Ammonia (N)	mg/L				0.018	0.010	0.013	0.0050	8916343
Nitrate plus Nitrite (N)	mg/L	0.104	0.0020	8915257	0.176	0.409	0.177	0.0020	8915257
Nitrite (N)	mg/L	0.0020	0.0020	8915258	<0.0020	<0.0020	<0.0020	0.0020	8915258
Physical Properties									
Conductivity	uS/cm				424	486	423	1.0	8916930
pH	pH				8.16	8.22	8.18		8916920
Physical Properties									
Total Suspended Solids	mg/L				2.1	<1.0	<1.0	1.0	8918286
Total Dissolved Solids	mg/L	104	10	8918333	236	288	248	10	8918333
RDL = Reportable Detection Limit									
Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B812436
Report Date: 2018/03/02

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		SZ2400		SZ2401			SZ2401		
Sampling Date		2018/02/17 22:00		2018/02/17 22:00			2018/02/17 22:00		
COC Number		546749-02-01		546749-02-01			546749-02-01		
	UNITS	FIELD BLANK	QC Batch	TRIP BLANK	RDL	QC Batch	TRIP BLANK Lab-Dup	RDL	QC Batch
Parameter									
ORP	mV	280	8915849	280		8915849			
Calculated Parameters									
Filter and HNO3 Preservation	N/A	LAB	8914275						
Nitrate (N)	mg/L	0.0036	8914568	<0.0020	0.0020	8914568			
Misc. Inorganics									
Weak Acid Dissoc. Cyanide (CN)	mg/L	<0.00050	8920768	<0.00050	0.00050	8920768			
Fluoride (F)	mg/L	<0.010	8920887	0.010	0.010	8920887			
Dissolved Organic Carbon (C)	mg/L	<0.50	8917336	1.12	0.50	8917336	1.12	0.50	8917336
Alkalinity (Total as CaCO3)	mg/L	0.53	8916891	0.73	0.50	8916891			
Total Organic Carbon (C)	mg/L	<0.50	8917338	<0.50	0.50	8917338			
Alkalinity (PP as CaCO3)	mg/L	<0.50	8916891	<0.50	0.50	8916891			
Bicarbonate (HCO3)	mg/L	0.65	8916891	0.89	0.50	8916891			
Carbonate (CO3)	mg/L	<0.50	8916891	<0.50	0.50	8916891			
Hydroxide (OH)	mg/L	<0.50	8916891	<0.50	0.50	8916891			
Anions									
Dissolved Sulphate (SO4)	mg/L	<0.50	8918036	<0.50	0.50	8918036	<0.50	0.50	8918036
Dissolved Chloride (Cl)	mg/L	<0.50	8918023	<0.50	0.50	8918023	<0.50	0.50	8918023
Nutrients									
Total Ammonia (N)	mg/L	<0.0050	8921149	0.0070	0.0050	8916343			
Nitrate plus Nitrite (N)	mg/L	0.0036	8915257	<0.0020	0.0020	8915257			
Nitrite (N)	mg/L	<0.0020	8915258	<0.0020	0.0020	8915258			
Physical Properties									
Conductivity	uS/cm	1.2	8916889	1.2	1.0	8916889			
pH	pH	5.33	8916887	5.43		8916887			
Physical Properties									
Total Suspended Solids	mg/L	<1.0	8918286	<1.0	1.0	8918286			
Total Dissolved Solids	mg/L	<10	8918333	<10	10	8918333			
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B812436
Report Date: 2018/03/02

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SZ2387	SZ2388	SZ2389		SZ2390		
Sampling Date		2018/02/17 12:30	2018/02/17 13:05	2018/02/17 10:45		2018/02/17 15:55		
COC Number		546749-01-01	546749-01-01	546749-01-01		546749-01-01		
	UNITS	CC-0.5	CC-1.5	YUK-2.0	QC Batch	YUK-5.0	RDL	QC Batch
Calculated Parameters								
Dissolved Hardness (CaCO3)	mg/L	244	475	115	8914387	121	0.50	8914387
Elements								
Dissolved Mercury (Hg)	ug/L	<0.0020	<0.0020	<0.0020	8915596	<0.0020	0.0020	8915596
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	ug/L	3.93	9.72	1.88	8915307	1.19	0.50	8915307
Dissolved Antimony (Sb)	ug/L	0.029	0.113	0.086	8915307	0.089	0.020	8915307
Dissolved Arsenic (As)	ug/L	0.253	1.54	0.354	8915307	0.153	0.020	8915307
Dissolved Barium (Ba)	ug/L	96.1	83.7	49.7	8915307	92.4	0.020	8915307
Dissolved Beryllium (Be)	ug/L	<0.010	<0.010	<0.010	8915307	<0.010	0.010	8915307
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	8915307	<0.0050	0.0050	8915307
Dissolved Boron (B)	ug/L	<10	<10	<10	8915307	<10	10	8915307
Dissolved Cadmium (Cd)	ug/L	<0.0050	0.0107	0.0340	8915307	0.0246	0.0050	8915307
Dissolved Chromium (Cr)	ug/L	<0.10	0.11	<0.10	8915307	<0.10	0.10	8915307
Dissolved Cobalt (Co)	ug/L	0.174	0.0280	0.0077	8915307	0.0070	0.0050	8915307
Dissolved Copper (Cu)	ug/L	0.376	1.03	0.480	8915307	0.255	0.050	8915307
Dissolved Iron (Fe)	ug/L	123	3.7	3.0	8915307	<1.0	1.0	8915307
Dissolved Lead (Pb)	ug/L	<0.0050	<0.0050	<0.0050	8915307	<0.0050	0.0050	8915307
Dissolved Lithium (Li)	ug/L	1.11	4.29 (1)	1.96	8915307	1.28	0.50	8915307
Dissolved Manganese (Mn)	ug/L	106	16.6	1.37	8915307	1.18	0.050	8915307
Dissolved Molybdenum (Mo)	ug/L	0.210	0.384	1.45	8915307	1.35	0.050	8915307
Dissolved Nickel (Ni)	ug/L	0.600	0.467	1.01	8915307	0.303	0.020	8915307
Dissolved Phosphorus (P)	ug/L	3.6	4.9	3.0	8915307	2.6	2.0	8915307
Dissolved Selenium (Se)	ug/L	<0.040	0.219	0.376	8915307	0.500	0.040	8915307
Dissolved Silicon (Si)	ug/L	5450	6120	3350	8915307	2980	50	8922529
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	8915307	<0.0050	0.0050	8915307
Dissolved Strontium (Sr)	ug/L	326	986	142	8915307	138	0.050	8915307
Dissolved Thallium (Tl)	ug/L	<0.0020	0.0041	<0.0020	8915307	<0.0020	0.0020	8915307
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	<0.20	8915307	<0.20	0.20	8915307
Dissolved Titanium (Ti)	ug/L	<0.50	<0.50	<0.50	8915307	<0.50	0.50	8915307
RDL = Reportable Detection Limit								
(1) Dissolved greater than total. Reanalysis yields similar results.								

Maxxam Job #: B812436
Report Date: 2018/03/02

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SZ2387	SZ2388	SZ2389		SZ2390		
Sampling Date		2018/02/17 12:30	2018/02/17 13:05	2018/02/17 10:45		2018/02/17 15:55		
COC Number		546749-01-01	546749-01-01	546749-01-01		546749-01-01		
	UNITS	CC-0.5	CC-1.5	YUK-2.0	QC Batch	YUK-5.0	RDL	QC Batch
Dissolved Uranium (U)	ug/L	5.53	33.5	1.37	8915307	1.61	0.0020	8915307
Dissolved Vanadium (V)	ug/L	<0.20	0.28	<0.20	8915307	<0.20	0.20	8915307
Dissolved Zinc (Zn)	ug/L	0.28	0.31	3.35	8915307	0.71	0.10	8915307
Dissolved Zirconium (Zr)	ug/L	0.13	0.25	<0.10	8915307	<0.10	0.10	8915307
Dissolved Calcium (Ca)	mg/L	75.3	120	30.9	8914511	32.1	0.050	8914511
Dissolved Magnesium (Mg)	mg/L	13.6	42.6	9.22	8914511	10.0 (1)	0.050	8914511
Dissolved Potassium (K)	mg/L	2.06	6.26	0.930	8914511	0.960	0.050	8914511
Dissolved Sodium (Na)	mg/L	4.27	7.59	2.52	8914511	2.37	0.050	8914511
Dissolved Sulphur (S)	mg/L	35.1	88.3	9.1	8914511	10.0	3.0	8914511
RDL = Reportable Detection Limit								
(1) Dissolved greater than total. Reanalysis yields similar results.								

Maxxam Job #: B812436
 Report Date: 2018/03/02

LORAX ENVIRONMENTAL SERVICES LTD.
 Client Project #: GOLD CORP COFFEE CREEK-SW
 Site Location: COFFEE CREEK - SURFACE WATER
 Sampler Initials: MN

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SZ2397		SZ2398	SZ2399	SZ2400	SZ2401		
Sampling Date		2018/02/17 17:05		2018/02/17 12:00	2018/02/17 12:00	2018/02/17 22:00	2018/02/17 22:00		
COC Number		546749-02-01		546749-02-01	546749-02-01	546749-02-01	546749-02-01		
	UNITS	STEWART D/S M.M.	QC Batch	LATTE MIX	SAMPLE B	FIELD BLANK	TRIP BLANK	RDL	QC Batch

Calculated Parameters									
Dissolved Hardness (CaCO3)	mg/L	233	8914387	263	244	<0.50	<0.50	0.50	8914387
Elements									
Dissolved Mercury (Hg)	ug/L	<0.0020	8915596	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8915596
Dissolved Metals by ICPMS									
Dissolved Aluminum (Al)	ug/L	1.65	8915307	7.11	0.83	<0.50	<0.50	0.50	8915307
Dissolved Antimony (Sb)	ug/L	0.125	8915307	0.056	0.136	<0.020	<0.020	0.020	8915307
Dissolved Arsenic (As)	ug/L	0.193	8915307	0.298	0.193	<0.020	<0.020	0.020	8915307
Dissolved Barium (Ba)	ug/L	93.2	8915307	101	95.8	<0.020	<0.020	0.020	8915307
Dissolved Beryllium (Be)	ug/L	<0.010	8915307	<0.010	<0.010	<0.010	<0.010	0.010	8915307
Dissolved Bismuth (Bi)	ug/L	<0.0050	8915307	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8915307
Dissolved Boron (B)	ug/L	<10	8915307	<10	<10	<10	<10	10	8915307
Dissolved Cadmium (Cd)	ug/L	0.0493	8915307	0.0056	0.0365	<0.0050	<0.0050	0.0050	8915307
Dissolved Chromium (Cr)	ug/L	<0.10	8915307	0.15	<0.10	<0.10	<0.10	0.10	8915307
Dissolved Cobalt (Co)	ug/L	0.0290	8915307	0.0176	0.0265	<0.0050	<0.0050	0.0050	8915307
Dissolved Copper (Cu)	ug/L	0.247	8915307	0.616	0.265	<0.050	<0.050	0.050	8915307
Dissolved Iron (Fe)	ug/L	2.6	8915307	2.6	4.1	<1.0	<1.0	1.0	8915307
Dissolved Lead (Pb)	ug/L	<0.0050	8915307	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8915307
Dissolved Lithium (Li)	ug/L	3.35	8922529	1.27	3.92 (1)	<0.50	<0.50	0.50	8915307
Dissolved Manganese (Mn)	ug/L	15.0	8915307	0.734	20.1	<0.050	<0.050	0.050	8915307
Dissolved Molybdenum (Mo)	ug/L	0.602	8915307	0.701	0.643	<0.050	<0.050	0.050	8915307
Dissolved Nickel (Ni)	ug/L	0.494	8915307	0.335	0.416	<0.020	<0.020	0.020	8915307
Dissolved Phosphorus (P)	ug/L	2.4	8915307	32.1 (1)	3.1	<2.0	<2.0	2.0	8915307
Dissolved Selenium (Se)	ug/L	1.07	8915307	0.245	1.10	<0.040	<0.040	0.040	8915307
Dissolved Silicon (Si)	ug/L	3130	8915307	5280	3230 (1)	<50	<50	50	8915307
Dissolved Silver (Ag)	ug/L	<0.0050	8915307	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8915307
Dissolved Strontium (Sr)	ug/L	254	8915307	370	259	<0.050	<0.050	0.050	8915307
Dissolved Thallium (Tl)	ug/L	<0.0020	8915307	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8915307
Dissolved Tin (Sn)	ug/L	<0.20	8915307	<0.20	<0.20	<0.20	<0.20	0.20	8915307
Dissolved Titanium (Ti)	ug/L	<0.50	8915307	<0.50	<0.50	<0.50	<0.50	0.50	8915307

RDL = Reportable Detection Limit
 (1) Dissolved greater than total. Reanalysis yields similar results.

Maxxam Job #: B812436
Report Date: 2018/03/02

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		SZ2397		SZ2398	SZ2399	SZ2400	SZ2401		
Sampling Date		2018/02/17 17:05		2018/02/17 12:00	2018/02/17 12:00	2018/02/17 22:00	2018/02/17 22:00		
COC Number		546749-02-01		546749-02-01	546749-02-01	546749-02-01	546749-02-01		
	UNITS	STEWART D/S M.M.	QC Batch	LATTE MIX	SAMPLE B	FIELD BLANK	TRIP BLANK	RDL	QC Batch
Dissolved Uranium (U)	ug/L	1.78	8915307	22.7	1.85	<0.0020	<0.0020	0.0020	8915307
Dissolved Vanadium (V)	ug/L	<0.20	8915307	0.27	<0.20	<0.20	<0.20	0.20	8915307
Dissolved Zinc (Zn)	ug/L	1.42	8915307	0.16	1.18	<0.10	<0.10	0.10	8915307
Dissolved Zirconium (Zr)	ug/L	<0.10	8915307	0.16	<0.10	<0.10	<0.10	0.10	8915307
Dissolved Calcium (Ca)	mg/L	58.8	8914511	70.7	61.4	<0.050	<0.050	0.050	8914511
Dissolved Magnesium (Mg)	mg/L	21.0	8914511	21.0	22.1	<0.050	<0.050	0.050	8914511
Dissolved Potassium (K)	mg/L	0.741	8914511	2.80	0.765	<0.050	<0.050	0.050	8914511
Dissolved Sodium (Na)	mg/L	3.02	8914511	5.37	3.15	<0.050	<0.050	0.050	8914511
Dissolved Sulphur (S)	mg/L	35.5	8914511	33.2	36.5	<3.0	<3.0	3.0	8914511

RDL = Reportable Detection Limit

Maxxam ID		SZ2401		
Sampling Date		2018/02/17 22:00		
COC Number		546749-02-01		
	UNITS	TRIP BLANK Lab-Dup	RDL	QC Batch

Elements				
Dissolved Mercury (Hg)	ug/L	<0.0020	0.0020	8915596

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Maxxam Job #: B812436
Report Date: 2018/03/02

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		SZ2387	SZ2389	SZ2398	SZ2400	SZ2401		
Sampling Date		2018/02/17 12:30	2018/02/17 10:45	2018/02/17 12:00	2018/02/17 22:00	2018/02/17 22:00		
COC Number		546749-01-01	546749-01-01	546749-02-01	546749-02-01	546749-02-01		
	UNITS	CC-0.5	YUK-2.0	LATTE MIX	FIELD BLANK	TRIP BLANK	RDL	QC Batch
Calculated Parameters								
Total Hardness (CaCO ₃)	mg/L	232	104	254	<0.50	<0.50	0.50	8914386
Elements								
Total Mercury (Hg)	ug/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8915688
Total Metals by ICPMS								
Total Aluminum (Al)	ug/L	8.85	23.6	8.35	<0.50	<0.50	0.50	8914966
Total Antimony (Sb)	ug/L	0.034	0.092	0.058	<0.020	<0.020	0.020	8914966
Total Arsenic (As)	ug/L	0.337	0.421	0.297	0.021	<0.020	0.020	8914966
Total Barium (Ba)	ug/L	104	51.5	104	<0.020	<0.020	0.020	8914966
Total Beryllium (Be)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	8914966
Total Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8914966
Total Boron (B)	ug/L	<10	<10	<10	<10	<10	10	8914966
Total Cadmium (Cd)	ug/L	<0.0050	0.0326	<0.0050	<0.0050	<0.0050	0.0050	8914966
Total Chromium (Cr)	ug/L	<0.10	0.45	0.19	<0.10	<0.10	0.10	8914966
Total Cobalt (Co)	ug/L	0.160	0.0432	0.0160	<0.0050	<0.0050	0.0050	8914966
Total Copper (Cu)	ug/L	0.367	0.579	0.577	<0.050	<0.050	0.050	8914966
Total Iron (Fe)	ug/L	239	83.2	12.7	<1.0	<1.0	1.0	8914966
Total Lead (Pb)	ug/L	<0.0050	0.0434	<0.0050	<0.0050	<0.0050	0.0050	8914966
Total Lithium (Li)	ug/L	0.95	1.53	1.03	<0.50	<0.50	0.50	8914966
Total Manganese (Mn)	ug/L	99.1	5.36	1.65	<0.050	<0.050	0.050	8914966
Total Molybdenum (Mo)	ug/L	0.218	1.34	0.665	<0.050	<0.050	0.050	8914966
Total Nickel (Ni)	ug/L	0.519	0.992	0.289	<0.020	<0.020	0.020	8914966
Total Phosphorus (P)	ug/L	<2.0	4.2	<2.0	<2.0	<2.0	2.0	8914966
Total Selenium (Se)	ug/L	<0.040	0.329	0.244	<0.040	<0.040	0.040	8914966
Total Silicon (Si)	ug/L	4910	3210	4850	<50	<50	50	8914966
Total Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8914966
Total Strontium (Sr)	ug/L	333	142	375	0.056	0.052	0.050	8914966
Total Thallium (Tl)	ug/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8914966
Total Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	8914966
Total Titanium (Ti)	ug/L	<0.50	1.21	<0.50	<0.50	<0.50	0.50	8914966
Total Uranium (U)	ug/L	5.07	1.18	20.2	<0.0020	<0.0020	0.0020	8914966
RDL = Reportable Detection Limit								

Maxxam Job #: B812436
Report Date: 2018/03/02

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		SZ2387	SZ2389	SZ2398	SZ2400	SZ2401		
Sampling Date		2018/02/17 12:30	2018/02/17 10:45	2018/02/17 12:00	2018/02/17 22:00	2018/02/17 22:00		
COC Number		546749-01-01	546749-01-01	546749-02-01	546749-02-01	546749-02-01		
	UNITS	CC-0.5	YUK-2.0	LATTE MIX	FIELD BLANK	TRIP BLANK	RDL	QC Batch
Total Vanadium (V)	ug/L	<0.20	0.22	0.24	<0.20	<0.20	0.20	8914966
Total Zinc (Zn)	ug/L	0.12	3.98	0.16	<0.10	<0.10	0.10	8914966
Total Zirconium (Zr)	ug/L	0.13	<0.10	0.11	<0.10	<0.10	0.10	8914966
Total Calcium (Ca)	mg/L	73.5	28.5	71.7	<0.050	<0.050	0.050	8914513
Total Magnesium (Mg)	mg/L	11.8	7.86	18.2	<0.050	<0.050	0.050	8914513
Total Potassium (K)	mg/L	1.91	0.877	2.62	<0.050	<0.050	0.050	8914513
Total Sodium (Na)	mg/L	3.67	2.24	4.72	<0.050	<0.050	0.050	8914513
Total Sulphur (S)	mg/L	30.8	7.9	30.4	<3.0	<3.0	3.0	8914513
RDL = Reportable Detection Limit								

Maxxam ID		SZ2401		
Sampling Date		2018/02/17 22:00		
COC Number		546749-02-01		
	UNITS	TRIP BLANK Lab-Dup	RDL	QC Batch
Elements				
Total Mercury (Hg)	ug/L	<0.0020	0.0020	8915688
RDL = Reportable Detection Limit				
Lab-Dup = Laboratory Initiated Duplicate				

Maxxam Job #: B812436
Report Date: 2018/03/02

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		SZ2388		SZ2390		SZ2397		
Sampling Date		2018/02/17 13:05		2018/02/17 15:55		2018/02/17 17:05		
COC Number		546749-01-01		546749-01-01		546749-02-01		
	UNITS	CC-1.5	QC Batch	YUK-5.0	QC Batch	STEWART D/S M.M.	RDL	QC Batch

Calculated Parameters

Total Hardness (CaCO3)	mg/L	435	8914386	106	8914386	212	0.50	8914386
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Elements

Total Mercury (Hg)	ug/L	0.0022	8915725	<0.0020	8915688	<0.0020	0.0020	8915725
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Total Metals by ICPMS

Total Aluminum (Al)	ug/L	265	8915985	397	8915985	57.8	3.0	8915985
Total Antimony (Sb)	ug/L	0.112	8915985	0.114	8915985	0.134	0.020	8915985
Total Arsenic (As)	ug/L	2.29	8915985	0.627	8915985	0.324	0.020	8915985
Total Barium (Ba)	ug/L	87.0	8915985	113	8915985	89.7	0.050	8915985
Total Beryllium (Be)	ug/L	0.015	8915985	0.019	8915985	<0.010	0.010	8915985
Total Bismuth (Bi)	ug/L	<0.010	8915985	<0.010	8915985	<0.010	0.010	8915985
Total Boron (B)	ug/L	<10	8915985	<10	8915985	<10	10	8915985
Total Cadmium (Cd)	ug/L	0.0274	8915985	0.105	8915985	0.0530	0.0050	8915985
Total Chromium (Cr)	ug/L	0.64	8915985	0.83	8915985	0.14	0.10	8915985
Total Cobalt (Co)	ug/L	0.303	8915985	0.414	8915985	0.090	0.010	8915985
Total Copper (Cu)	ug/L	1.38	8915985	1.56	8915985	0.63	0.10	8915985
Total Iron (Fe)	ug/L	365	8915985	809	8915985	164	5.0	8915985
Total Lead (Pb)	ug/L	0.224	8915985	0.431	8915985	0.147	0.020	8915985
Total Lithium (Li)	ug/L	3.02	8915985	1.17	8915985	2.80	0.50	8915985
Total Manganese (Mn)	ug/L	145	8915985	24.8	8915985	15.4	0.10	8915985
Total Molybdenum (Mo)	ug/L	0.611	8915985	1.20	8915985	0.574	0.050	8915985
Total Nickel (Ni)	ug/L	0.83	8915985	1.86	8915985	0.63	0.10	8915985
Total Phosphorus (P)	ug/L	22.0	8915985	60.6	8915985	10.0	5.0	8915985
Total Selenium (Se)	ug/L	0.219	8915985	0.525	8915985	1.09	0.040	8915985
Total Silicon (Si)	ug/L	5700	8915985	3080	8915985	2720	50	8915985
Total Silver (Ag)	ug/L	<0.010	8915985	<0.010	8915985	<0.010	0.010	8915985
Total Strontium (Sr)	ug/L	975	8915985	126	8915985	233	0.050	8915985
Total Thallium (Tl)	ug/L	0.0072	8915985	0.0069	8915985	<0.0020	0.0020	8915985
Total Tin (Sn)	ug/L	<0.20	8915985	<0.20	8915985	0.84	0.20	8915985
Total Titanium (Ti)	ug/L	14.8	8915985	14.6	8915985	<2.0	2.0	8915985
Total Uranium (U)	ug/L	29.6	8915985	1.40	8915985	1.57	0.0050	8915985

RDL = Reportable Detection Limit

Maxxam Job #: B812436
Report Date: 2018/03/02

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		SZ2388		SZ2390		SZ2397			
Sampling Date		2018/02/17 13:05		2018/02/17 15:55		2018/02/17 17:05			
COC Number		546749-01-01		546749-01-01		546749-02-01			
	UNITS	CC-1.5	QC Batch	YUK-5.0	QC Batch	STEWART D/S M.M.	RDL	QC Batch	
Total Vanadium (V)	ug/L	1.04	8915985	1.35	8915985	0.21	0.20	8915985	
Total Zinc (Zn)	ug/L	2.4	8915985	8.1	8915985	4.0	1.0	8915985	
Total Zirconium (Zr)	ug/L	0.18	8915985	<0.10	8915985	<0.10	0.10	8915985	
Total Calcium (Ca)	mg/L	115	8914513	28.9	8914513	55.7	0.25	8914513	
Total Magnesium (Mg)	mg/L	36.0	8914513	8.12	8914513	17.8	0.25	8914513	
Total Potassium (K)	mg/L	5.85	8914513	0.89	8914513	0.69	0.25	8914513	
Total Sodium (Na)	mg/L	6.62	8914513	2.00	8914513	2.70	0.25	8914513	
Total Sulphur (S)	mg/L	79.3	8914513	8.4	8914513	31.7	3.0	8914513	
RDL = Reportable Detection Limit									

Maxxam Job #: B812436
Report Date: 2018/03/02

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		SZ2397			SZ2399		
Sampling Date		2018/02/17 17:05			2018/02/17 12:00		
COC Number		546749-02-01			546749-02-01		
	UNITS	STEWART D/S M.M. Lab-Dup	RDL	QC Batch	SAMPLE B	RDL	QC Batch
Calculated Parameters							
Total Hardness (CaCO3)	mg/L				211	0.50	8914386
Elements							
Total Mercury (Hg)	ug/L	<0.0020	0.0020	8915725	<0.0020	0.0020	8915688
Total Metals by ICPMS							
Total Aluminum (Al)	ug/L				14.2	3.0	8915985
Total Antimony (Sb)	ug/L				0.128	0.020	8915985
Total Arsenic (As)	ug/L				0.257	0.020	8915985
Total Barium (Ba)	ug/L				87.9	0.050	8915985
Total Beryllium (Be)	ug/L				<0.010	0.010	8915985
Total Bismuth (Bi)	ug/L				<0.010	0.010	8915985
Total Boron (B)	ug/L				<10	10	8915985
Total Cadmium (Cd)	ug/L				0.0432	0.0050	8915985
Total Chromium (Cr)	ug/L				0.10	0.10	8915985
Total Cobalt (Co)	ug/L				0.037	0.010	8915985
Total Copper (Cu)	ug/L				0.34	0.10	8915985
Total Iron (Fe)	ug/L				61.5	5.0	8915985
Total Lead (Pb)	ug/L				0.040	0.020	8915985
Total Lithium (Li)	ug/L				2.62	0.50	8915985
Total Manganese (Mn)	ug/L				18.6	0.10	8915985
Total Molybdenum (Mo)	ug/L				0.570	0.050	8915985
Total Nickel (Ni)	ug/L				0.45	0.10	8915985
Total Phosphorus (P)	ug/L				<5.0	5.0	8915985
Total Selenium (Se)	ug/L				1.05	0.040	8915985
Total Silicon (Si)	ug/L				2640	50	8915985
Total Silver (Ag)	ug/L				<0.010	0.010	8915985
Total Strontium (Sr)	ug/L				236	0.050	8915985
Total Thallium (Tl)	ug/L				<0.0020	0.0020	8915985
Total Tin (Sn)	ug/L				<0.20	0.20	8915985
Total Titanium (Ti)	ug/L				<2.0	2.0	8915985
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate							

Maxxam Job #: B812436
Report Date: 2018/03/02

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		SZ2397			SZ2399		
Sampling Date		2018/02/17 17:05			2018/02/17 12:00		
COC Number		546749-02-01			546749-02-01		
	UNITS	STEWART D/S M.M. Lab-Dup	RDL	QC Batch	SAMPLE B	RDL	QC Batch
Total Uranium (U)	ug/L				1.59	0.0050	8915985
Total Vanadium (V)	ug/L				<0.20	0.20	8915985
Total Zinc (Zn)	ug/L				1.9	1.0	8915985
Total Zirconium (Zr)	ug/L				<0.10	0.10	8915985
Total Calcium (Ca)	mg/L				54.1	0.25	8914513
Total Magnesium (Mg)	mg/L				18.4	0.25	8914513
Total Potassium (K)	mg/L				0.71	0.25	8914513
Total Sodium (Na)	mg/L				2.78	0.25	8914513
Total Sulphur (S)	mg/L				32.4	3.0	8914513
RDL = Reportable Detection Limit							
Lab-Dup = Laboratory Initiated Duplicate							

Maxxam Job #: B812436
Report Date: 2018/03/02

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

GENERAL COMMENTS

Sample SZ2390, Elements by ICPMS Low Level (dissolved): Test repeated.
Sample SZ2397, Elements by ICPMS Low Level (dissolved): Test repeated.

Results relate only to the items tested.

Maxxam Job #: B812436
Report Date: 2018/03/02

QUALITY ASSURANCE REPORT

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8914966	Total Aluminum (Al)	2018/02/22	102	80 - 120	108	80 - 120	<0.50	ug/L	1.7	20
8914966	Total Antimony (Sb)	2018/02/22	101	80 - 120	101	80 - 120	<0.020	ug/L	1.5	20
8914966	Total Arsenic (As)	2018/02/22	100	80 - 120	99	80 - 120	<0.020	ug/L	10	20
8914966	Total Barium (Ba)	2018/02/22	100	80 - 120	105	80 - 120	<0.020	ug/L	2.9	20
8914966	Total Beryllium (Be)	2018/02/22	95	80 - 120	100	80 - 120	<0.010	ug/L	NC	20
8914966	Total Bismuth (Bi)	2018/02/22	98	80 - 120	101	80 - 120	<0.0050	ug/L	NC	20
8914966	Total Boron (B)	2018/02/22	97	80 - 120	100	80 - 120	<10	ug/L	NC	20
8914966	Total Cadmium (Cd)	2018/02/22	98	80 - 120	101	80 - 120	<0.0050	ug/L	2.2	20
8914966	Total Chromium (Cr)	2018/02/22	103	80 - 120	101	80 - 120	<0.10	ug/L	NC	20
8914966	Total Cobalt (Co)	2018/02/22	102	80 - 120	100	80 - 120	<0.0050	ug/L	19	20
8914966	Total Copper (Cu)	2018/02/22	101	80 - 120	100	80 - 120	<0.050	ug/L	0.60	20
8914966	Total Iron (Fe)	2018/02/22	110	80 - 120	98	80 - 120	<1.0	ug/L	9.2	20
8914966	Total Lead (Pb)	2018/02/22	97	80 - 120	100	80 - 120	<0.0050	ug/L	0.27	20
8914966	Total Lithium (Li)	2018/02/22	95	80 - 120	100	80 - 120	<0.50	ug/L	NC	20
8914966	Total Manganese (Mn)	2018/02/22	103	80 - 120	102	80 - 120	<0.050	ug/L	0.76	20
8914966	Total Molybdenum (Mo)	2018/02/22	96	80 - 120	101	80 - 120	<0.050	ug/L	2.1	20
8914966	Total Nickel (Ni)	2018/02/22	104	80 - 120	102	80 - 120	<0.020	ug/L	3.5	20
8914966	Total Phosphorus (P)	2018/02/22	106	80 - 120	101	80 - 120	<2.0	ug/L		
8914966	Total Selenium (Se)	2018/02/22	108	80 - 120	98	80 - 120	<0.040	ug/L	3.2	20
8914966	Total Silicon (Si)	2018/02/22	101	80 - 120	104	80 - 120	<50	ug/L	1.3	20
8914966	Total Silver (Ag)	2018/02/22	99	80 - 120	100	80 - 120	<0.0050	ug/L	NC	20
8914966	Total Strontium (Sr)	2018/02/22	100	80 - 120	99	80 - 120	<0.050	ug/L	2.8	20
8914966	Total Thallium (Tl)	2018/02/22	98	80 - 120	102	80 - 120	<0.0020	ug/L	NC	20
8914966	Total Tin (Sn)	2018/02/22	99	80 - 120	100	80 - 120	<0.20	ug/L	NC	20
8914966	Total Titanium (Ti)	2018/02/22	100	80 - 120	98	80 - 120	<0.50	ug/L	NC	20
8914966	Total Uranium (U)	2018/02/22	99	80 - 120	102	80 - 120	<0.0020	ug/L	2.4	20
8914966	Total Vanadium (V)	2018/02/22	103	80 - 120	100	80 - 120	<0.20	ug/L	8.4	20
8914966	Total Zinc (Zn)	2018/02/22	105	80 - 120	102	80 - 120	<0.10	ug/L	1.6	20
8914966	Total Zirconium (Zr)	2018/02/22	100	80 - 120	97	80 - 120	<0.10	ug/L	NC	20
8915257	Nitrate plus Nitrite (N)	2018/02/20	104	80 - 120	112	80 - 120	<0.0020	mg/L	0.87	25
8915258	Nitrite (N)	2018/02/20	98	80 - 120	104	80 - 120	<0.0020	mg/L	0	25

Maxxam Job #: B812436
Report Date: 2018/03/02

QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8915307	Dissolved Aluminum (Al)	2018/02/26	111	80 - 120	113	80 - 120	<0.50	ug/L	0.25	20
8915307	Dissolved Antimony (Sb)	2018/02/26	98	80 - 120	100	80 - 120	<0.020	ug/L	1.2	20
8915307	Dissolved Arsenic (As)	2018/02/26	98	80 - 120	99	80 - 120	<0.020	ug/L	6.4	20
8915307	Dissolved Barium (Ba)	2018/02/26	95	80 - 120	100	80 - 120	<0.020	ug/L	0.18	20
8915307	Dissolved Beryllium (Be)	2018/02/26	111	80 - 120	115	80 - 120	<0.010	ug/L	NC	20
8915307	Dissolved Bismuth (Bi)	2018/02/26	102	80 - 120	106	80 - 120	<0.0050	ug/L	NC	20
8915307	Dissolved Boron (B)	2018/02/26	128 (1)	80 - 120	124 (2)	80 - 120	<10	ug/L	2.2	20
8915307	Dissolved Cadmium (Cd)	2018/02/26	101	80 - 120	106	80 - 120	<0.0050	ug/L	1.0	20
8915307	Dissolved Chromium (Cr)	2018/02/26	106	80 - 120	106	80 - 120	<0.10	ug/L	NC	20
8915307	Dissolved Cobalt (Co)	2018/02/26	103	80 - 120	104	80 - 120	<0.0050	ug/L	11	20
8915307	Dissolved Copper (Cu)	2018/02/26	105	80 - 120	108	80 - 120	<0.050	ug/L	3.6	20
8915307	Dissolved Iron (Fe)	2018/02/26	100	80 - 120	103	80 - 120	<1.0	ug/L	14	20
8915307	Dissolved Lead (Pb)	2018/02/26	104	80 - 120	107	80 - 120	<0.0050	ug/L	5.4	20
8915307	Dissolved Lithium (Li)	2018/02/26	116	80 - 120	120	80 - 120	<0.50	ug/L	2.7	20
8915307	Dissolved Manganese (Mn)	2018/02/26	101	80 - 120	106	80 - 120	<0.050	ug/L	1.8	20
8915307	Dissolved Molybdenum (Mo)	2018/02/26	101	80 - 120	105	80 - 120	<0.050	ug/L	1.6	20
8915307	Dissolved Nickel (Ni)	2018/02/26	107	80 - 120	108	80 - 120	<0.020	ug/L	9.6	20
8915307	Dissolved Phosphorus (P)	2018/02/26	108	80 - 120	107	80 - 120	<2.0	ug/L		
8915307	Dissolved Selenium (Se)	2018/02/26	108	80 - 120	107	80 - 120	<0.040	ug/L	1.8	20
8915307	Dissolved Silicon (Si)	2018/02/26	93	80 - 120	110	80 - 120	<50	ug/L	11	20
8915307	Dissolved Silver (Ag)	2018/02/26	104	80 - 120	105	80 - 120	<0.0050	ug/L	NC	20
8915307	Dissolved Strontium (Sr)	2018/02/26	NC	80 - 120	92	80 - 120	<0.050	ug/L	1.9	20
8915307	Dissolved Thallium (Tl)	2018/02/26	104	80 - 120	107	80 - 120	<0.0020	ug/L	6.7	20
8915307	Dissolved Tin (Sn)	2018/02/26	104	80 - 120	106	80 - 120	<0.20	ug/L	NC	20
8915307	Dissolved Titanium (Ti)	2018/02/26	101	80 - 120	107	80 - 120	<0.50	ug/L		
8915307	Dissolved Uranium (U)	2018/02/26	106	80 - 120	109	80 - 120	<0.0020	ug/L	4.0	20
8915307	Dissolved Vanadium (V)	2018/02/26	103	80 - 120	103	80 - 120	<0.20	ug/L	9.2	20
8915307	Dissolved Zinc (Zn)	2018/02/26	103	80 - 120	105	80 - 120	<0.10	ug/L	8.5	20
8915307	Dissolved Zirconium (Zr)	2018/02/26	94	80 - 120	98	80 - 120	<0.10	ug/L		
8915596	Dissolved Mercury (Hg)	2018/02/21	93	80 - 120	93	80 - 120	<0.0020	ug/L	NC	20
8915688	Total Mercury (Hg)	2018/02/21	96	80 - 120	95	80 - 120	<0.0020	ug/L	NC	20

Maxxam Job #: B812436
Report Date: 2018/03/02

QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8915725	Total Mercury (Hg)	2018/02/21	94	80 - 120	97	80 - 120	<0.0020	ug/L	NC	20
8915849	ORP	2018/02/21							0.68	20
8915985	Total Aluminum (Al)	2018/02/27	108	80 - 120	104	80 - 120	<3.0	ug/L	3.8	20
8915985	Total Antimony (Sb)	2018/02/27	113	80 - 120	104	80 - 120	<0.020	ug/L	1.4	20
8915985	Total Arsenic (As)	2018/02/27	117	80 - 120	100	80 - 120	<0.020	ug/L	7.2	20
8915985	Total Barium (Ba)	2018/02/27	NC	80 - 120	98	80 - 120	<0.050	ug/L	0.15	20
8915985	Total Beryllium (Be)	2018/02/27	98	80 - 120	96	80 - 120	<0.010	ug/L	15	20
8915985	Total Bismuth (Bi)	2018/02/27	91	80 - 120	100	80 - 120	<0.010	ug/L	NC	20
8915985	Total Boron (B)	2018/02/27	NC	80 - 120	93	80 - 120	<10	ug/L	6.3	20
8915985	Total Cadmium (Cd)	2018/02/27	107	80 - 120	103	80 - 120	<0.0050	ug/L	3.9	20
8915985	Total Chromium (Cr)	2018/02/27	103	80 - 120	103	80 - 120	<0.10	ug/L	7.3	20
8915985	Total Cobalt (Co)	2018/02/27	97	80 - 120	102	80 - 120	<0.010	ug/L	1.2	20
8915985	Total Copper (Cu)	2018/02/27	96	80 - 120	103	80 - 120	<0.10	ug/L	0.99	20
8915985	Total Iron (Fe)	2018/02/27	95	80 - 120	102	80 - 120	<5.0	ug/L	2.4	20
8915985	Total Lead (Pb)	2018/02/27	99	80 - 120	101	80 - 120	<0.020	ug/L	5.9	20
8915985	Total Lithium (Li)	2018/02/27	NC	80 - 120	95	80 - 120	<0.50	ug/L	2.7	20
8915985	Total Manganese (Mn)	2018/02/27	103	80 - 120	99	80 - 120	<0.10	ug/L	4.5	20
8915985	Total Molybdenum (Mo)	2018/02/27	NC	80 - 120	103	80 - 120	<0.050	ug/L	2.7	20
8915985	Total Nickel (Ni)	2018/02/27	99	80 - 120	103	80 - 120	<0.10	ug/L	2.9	20
8915985	Total Phosphorus (P)	2018/02/27	120	80 - 120	105	80 - 120	<5.0	ug/L		
8915985	Total Selenium (Se)	2018/02/27	115	80 - 120	104	80 - 120	<0.040	ug/L	5.0	20
8915985	Total Silicon (Si)	2018/02/27	97	80 - 120	100	80 - 120	<50	ug/L	1.2	20
8915985	Total Silver (Ag)	2018/02/27	93	80 - 120	100	80 - 120	<0.010	ug/L	NC	20
8915985	Total Strontium (Sr)	2018/02/27	NC	80 - 120	93	80 - 120	<0.050	ug/L	4.4	20
8915985	Total Thallium (Tl)	2018/02/27	99	80 - 120	101	80 - 120	<0.0020	ug/L	NC	20
8915985	Total Tin (Sn)	2018/02/27	93	80 - 120	105	80 - 120	<0.20	ug/L	NC	20
8915985	Total Titanium (Ti)	2018/02/27	108	80 - 120	101	80 - 120	<2.0	ug/L	NC	20
8915985	Total Uranium (U)	2018/02/27	105	80 - 120	99	80 - 120	<0.0050	ug/L	0.062	20
8915985	Total Vanadium (V)	2018/02/27	107	80 - 120	103	80 - 120	<0.20	ug/L	0.35	20
8915985	Total Zinc (Zn)	2018/02/27	108	80 - 120	104	80 - 120	<1.0	ug/L	NC	20
8915985	Total Zirconium (Zr)	2018/02/27	NC	80 - 120	96	80 - 120	<0.10	ug/L	3.9	20

Maxxam Job #: B812436
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QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8916343	Total Ammonia (N)	2018/02/21			106	80 - 120	<0.0050	mg/L		
8916887	pH	2018/02/21			101	97 - 103				
8916889	Conductivity	2018/02/21			99	80 - 120	<1.0	uS/cm		
8916891	Alkalinity (PP as CaCO3)	2018/02/21					<0.50	mg/L		
8916891	Alkalinity (Total as CaCO3)	2018/02/21			98	80 - 120	<0.50	mg/L		
8916891	Bicarbonate (HCO3)	2018/02/21					<0.50	mg/L		
8916891	Carbonate (CO3)	2018/02/21					<0.50	mg/L		
8916891	Hydroxide (OH)	2018/02/21					<0.50	mg/L		
8916920	pH	2018/02/21			101	97 - 103			0.49	20
8916930	Conductivity	2018/02/21			100	80 - 120	<1.0	uS/cm	0.65	20
8916933	Alkalinity (PP as CaCO3)	2018/02/21					<0.50	mg/L	NC	20
8916933	Alkalinity (Total as CaCO3)	2018/02/21			99	80 - 120	<0.50	mg/L	2.3	20
8916933	Bicarbonate (HCO3)	2018/02/21					<0.50	mg/L	2.3	20
8916933	Carbonate (CO3)	2018/02/21					<0.50	mg/L	NC	20
8916933	Hydroxide (OH)	2018/02/21					<0.50	mg/L	NC	20
8917053	Total Dissolved Solids	2018/02/23	100	80 - 120	98	80 - 120	<10	mg/L	6.4	20
8917336	Dissolved Organic Carbon (C)	2018/02/22	104	80 - 120	107	80 - 120	<0.50	mg/L	0	20
8917338	Total Organic Carbon (C)	2018/02/22			107	80 - 120	<0.50	mg/L		
8917340	Total Organic Carbon (C)	2018/02/22	103	80 - 120	111	80 - 120	<0.50	mg/L	NC	20
8918023	Dissolved Chloride (Cl)	2018/02/21			98	80 - 120	<0.50	mg/L	NC	20
8918036	Dissolved Sulphate (SO4)	2018/02/21			96	80 - 120	<0.50	mg/L	NC	20
8918153	Total Suspended Solids	2018/02/26			96	80 - 120	<1.0	mg/L		
8918286	Total Suspended Solids	2018/02/26			95	80 - 120	<1.0	mg/L		
8918333	Total Dissolved Solids	2018/02/27	98	80 - 120	90	80 - 120	<10	mg/L	7.4	20
8919113	Dissolved Sulphate (SO4)	2018/02/22			102	80 - 120	<0.50	mg/L		
8920768	Weak Acid Dissoc. Cyanide (CN)	2018/02/27	107	80 - 120	103	80 - 120	<0.00050	mg/L	NC	20
8920887	Fluoride (F)	2018/02/27	104	80 - 120	100	80 - 120	0.011, RDL=0.010	mg/L	0	20
8921149	Total Ammonia (N)	2018/02/27	95	80 - 120	93	80 - 120	<0.0050	mg/L	NC	20
8922529	Dissolved Lithium (Li)	2018/03/01			95	80 - 120	<0.50	ug/L		

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QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8922529	Dissolved Silicon (Si)	2018/03/01			100	80 - 120	<50	ug/L		

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

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

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

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

(2) Blank Spike outside acceptance criteria (10% of analytes failure allowed).

Maxxam Job #: B812436
Report Date: 2018/03/02

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Rob Reinert, B.Sc., Scientific Spécialist

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

INVOICE TO:		Report Information		Project Information	
Company Name	#3604 LORAX ENVIRONMENTAL SERVICES LTD.	Company Name	Lebaige Environmental	Quotation #	B40231
Contact Name	Aida Piaseczny	Contact Name	David Flather	P.O. #	
Address	2289 BURRARD STREET VANCOUVER BC V6J 3H9	Address	#4 25 Pilgrim Place	Project #	Gold Corp Coffee Creek-SW
Phone	(604) 688-7173 x	Phone	667 668 6938	Project Name	
Email	aida.piaseczny@lorax.ca; shukling.ng@lorax.ca	Email	David.Flather@lorax.ca	Site #	
				Sampled By	



Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	Analysis Requested										# of Bottles	Comments
							Routine (Alk-LL, EC-LL, NH4-LL, pH, TDS)	TSS-Low Level	Anions (LL, Cl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	IDOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP			
1 SID#162743	CC-0.5	18/02/17	12:30				/	/	/	/	/	/	/	/	/	13		
2 SID#162744	CC-1.5	18/02/17	13:05				/	/	/	/	/	/	/	/	/	13	RECEIVED IN WHITEHORSE BY: <i>Shukling@1040</i>	
3 SID#162745	CC-3.5						/	/	/	/	/	/	/	/	/		2018-02-19	
4 SID#162746	CC-4.5						/	/	/	/	/	/	/	/	/		TEMP: 11, 11, 12 ^{TB only} 7, 5, 5 3, 3, 3	
5 SID#162747	CC-B						/	/	/	/	/	/	/	/	/			
6 SID#162748	HC-2.5						/	/	/	/	/	/	/	/	/			
7 SID#149895	IC-4.5						/	/	/	/	/	/	/	/	/			
8 SID#149896	YUK-2.0	17/02/17	10:45				/	/	/	/	/	/	/	/	/	13		
9 SID#149897	YUK-5.0	17/02/17	15:55				/	/	/	/	/	/	/	/	/	13		
10 SID#149898	Barker U/S S.R.						/	/	/	/	/	/	/	/	/			

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# Jars used and not submitted	Lab Use Only		
<i>Mitchell Nordin</i>	18/02/17	22:12	<i>JANE DELA CRUZ</i>	18/02/20	9:55	N/A	Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
							<input type="checkbox"/>	5, 8, 5, 3, 5, 8	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.							White: Maxxam	Yellow: Client	
* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.									1CE-766

INVOICE TO:		Report Information		Project Information	
Company Name	#3604 LORAX ENVIRONMENTAL SERVICES LTD.	Company Name	Leborge Environmental	Quotation #	B40231
Contact Name	Aida Piaseczny	Contact Name	David Flather	P.O. #	
Address	2289 BURRARD STREET VANCOUVER BC V6J 3H9	Address	#4 25 Pilgrim Place	Project #	Gold Corp Coffee Creek-SW
Phone	(604) 688-7173 x Fax: (604) 688-7175 x	Phone	867 668 6838 Fax:	Project Name	
Email	aida.piaseczny@lorax.ca; shukling_ng@lorax.ca	Email	David.Flather@lorax.ca	Site #	
				Sampled By	



B812436_COC



C#546749-02-01

Order #:

3749

Manager

Megan Smith

Regulatory Criteria		Special Instructions		Analysis Requested										Turnaround Time (TAT) Required			
				Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	Routine (Alk-L, EC-L, NH4-L, pH, TDS)	TSS-Low Level	Anions (LL-Cl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	Please provide advance notice for rush projects		
															Regular (Standard) TAT (will be applied if Rush TAT is not specified) Standard TAT = 5-7 Working days for most tests Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.		
															Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____ Rush Confirmation Number: _____ (call lab for #)		
Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form																	
Samples must be kept cool (< 10°C) from time of sampling until delivery to maxxam																	
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	Routine (Alk-L, EC-L, NH4-L, pH, TDS)	TSS-Low Level	Anions (LL-Cl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	# of Bottles	Comments
SID#149899	Stewart D/S M.M.	18/02/17	17:05		N	N	/	/	/	/	/	/	/	/	/	13	RECEIVED IN WHITEHORSE BY: <i>shukling@1040</i>
SID#149900	Latte Mix	18/02/13	12:00		N	N	/	/	/	/	/	/	/	/	/	13	2018-02-19
SID#149901	Sample A																
SID#149902	Sample B	18/02/13	12:00		N	N	/	/	/	/	/	/	/	/	/	13	TEMP: 11 / 11 / 12 ^{TB only}
SID#149903	FIELD BLANK	18/02/13	22:00		N	N	/	/	/	/	/	/	/	/	/	13	7 / 5 / 5
SID#149904	TRIP BLANK	18/02/13	22:00		N	N	/	/	/	/	/	/	/	/	/	13	3 / 3 / 3
SID#094856																	

* RELINQUISHED BY: (Signature/Print) <i>Mitchell Nordin</i>	Date: (YY/MM/DD) 18/02/17	Time 22:20	RECEIVED BY: (Signature/Print) <i>JANE DELA CRUZ</i>	Date: (YY/MM/DD) 18-02-20	Time 9:55	# jars used and not submitted	Time Sensitive <input type="checkbox"/>	Temperature (°C) on Receipt 5, 8, 5 / 8, 5, 8	Custody Seal Intact on Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.								White: Maxxam	Yellow: Client
* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.								106-762	

Your Project #: GOLD CORP COFFEE CREEK-SW
 Site Location: COFFEE CREEK - SURFACE WATER
 Your C.O.C. #: 548606-01-01, 548606-02-01

Attention: David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
 2289 BURRARD STREET
 VANCOUVER, BC
 CANADA V6J 3H9

Report Date: 2018/03/29

Report #: R2534586

Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B821458

Received: 2018/03/21, 11:00

Sample Matrix: Water
 # Samples Received: 13

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Alkalinity - Low Level	13	2018/03/23	2018/03/23	BBY6SOP-00026	SM 22 2320 B m
Chloride - Low Level	13	N/A	2018/03/23	BBY6SOP-00011	SM 22 4500-Cl- E m
Cyanide WAD (weak acid dissociable)	13	N/A	2018/03/27	BBY6SOP-00004	SM 22 4500-CN O m
Carbon (DOC) - field filtered/preserved (1)	13	N/A	2018/03/23	BBY6SOP-00003	SM 22 5310 C m
Conductance - Low Level	13	2018/03/23	2018/03/23	BBY6SOP-00026	SM 22 2510 B m
Fluoride - Low Level	13	N/A	2018/03/27	BBY6SOP-00048	SM 22 4500-F C m
Hardness Total (calculated as CaCO3) (2)	4	N/A	2018/03/26	BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO3) (2)	9	N/A	2018/03/27	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3)	13	N/A	2018/03/26	BBY WI-00033	Auto Calc
Mercury (Dissolved) by CVAF	13	N/A	2018/03/23	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Total) by CVAF	13	2018/03/23	2018/03/23	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	13	N/A	2018/03/26	BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (dissolved)	13	N/A	2018/03/23	BBY7SOP-00002	EPA 6020b R2 m
Elements by ICPMS Digested LL (total)	4	2018/03/24	2018/03/26	BBY7SOP-00003,	EPA 6020b R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total)	4	N/A	2018/03/26	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (total)	9	N/A	2018/03/27	BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (total)	9	N/A	2018/03/26	BBY7SOP-00002	EPA 6020b R2 m
Ammonia-N Low Level (Preserved)	13	N/A	2018/03/23	BBY6SOP-00009	EPA 350.1 m
Nitrate+Nitrite (N) (low level)	13	N/A	2018/03/23	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrite (N) (low level)	13	N/A	2018/03/23	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrogen - Nitrate (as N) Low Level Calc	13	N/A	2018/03/24	BBY WI-00033	Auto Calc
ORP Analysis on Water by ARD LAB	13	N/A	2018/03/26	BBY0SOP-00004	SM 22 2580 B
Filter and HNO3 Preserve for Metals	12	N/A	2018/03/23	BBY7 WI-00004	BCMOE Reqs 08/14
pH Water (3)	13	2018/03/23	2018/03/23	BBY6SOP-00026	SM 22 4500-H+ B m
Sulphate - Low Level	12	N/A	2018/03/23	BBY6SOP-00017	SM 22 4500-SO42- E m
Sulphate - Low Level	1	N/A	2018/03/26	BBY6SOP-00017	SM 22 4500-SO42- E m
Total Dissolved Solids (Filt. Residue)	13	2018/03/23	2018/03/26	BBY6SOP-00033	SM 22 2540 C m
Carbon (Total Organic) (4)	13	N/A	2018/03/23	BBY6SOP-00003	SM 22 5310 C m
Total Suspended Solids-Low Level	11	2018/03/23	2018/03/26	BBY6SOP-00034	SM 22 2540 D
Total Suspended Solids-Low Level	2	2018/03/26	2018/03/27	BBY6SOP-00034	SM 22 2540 D

Your Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER
Your C.O.C. #: 548606-01-01, 548606-02-01

Attention: David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
2289 BURRARD STREET
VANCOUVER, BC
CANADA V6J 3H9

Report Date: 2018/03/29

Report #: R2534586

Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B821458

Received: 2018/03/21, 11:00

Remarks:

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Maxxam's profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Maxxam in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected.

Maxxam Analytics' liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Maxxam has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Maxxam, unless otherwise agreed in writing.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

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

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) DOC present in the sample should be considered as non-purgeable DOC.

(2) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).

(3) The BC-MOE and APHA Standard Method require pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the BC-MOE/APHA Standard Method holding time.

(4) TOC present in the sample should be considered as non-purgeable TOC.

Encryption Key



Maxxam
29 Mar 2018 14:06:25

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Diana Cruz, Junior Project Manager

Email: DCruz@maxxam.ca

Phone# (604) 734 7276

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This report has been generated and distributed using a secure automated process.

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Job #: B821458
Report Date: 2018/03/29

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TD7440				TD7440				TD7441			
Sampling Date		2018/03/17 14:45				2018/03/17 14:45				2018/03/17 15:30			
COC Number		548606-01-01				548606-01-01				548606-01-01			
	UNITS	CC-0.5	RDL	QC Batch	CC-0.5 Lab-Dup	QC Batch	CC-1.5	RDL	QC Batch				
Parameter													
ORP	mV	267		8942930	269	8942930	270		8942930				
Calculated Parameters													
Filter and HNO3 Preservation	N/A	LAB		8942206			LAB		8942206				
Nitrate (N)	mg/L	0.0387	0.0020	8942112			0.0217	0.0020	8942112				
Misc. Inorganics													
Weak Acid Dissoc. Cyanide (CN)	mg/L	0.00075	0.00050	8945335			0.00076	0.00050	8945335				
Fluoride (F)	mg/L	0.053	0.010	8945660			0.110	0.010	8945660				
Dissolved Organic Carbon (C)	mg/L	3.65	0.50	8942857			5.69	0.50	8942857				
Alkalinity (Total as CaCO3)	mg/L	154	0.50	8943183			139	0.50	8943183				
Total Organic Carbon (C)	mg/L	4.00	0.50	8942863			6.22	0.50	8942863				
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	8943183			<0.50	0.50	8943183				
Bicarbonate (HCO3)	mg/L	187	0.50	8943183			170	0.50	8943183				
Carbonate (CO3)	mg/L	<0.50	0.50	8943183			<0.50	0.50	8943183				
Hydroxide (OH)	mg/L	<0.50	0.50	8943183			<0.50	0.50	8943183				
Anions													
Dissolved Sulphate (SO4)	mg/L	88.6	0.50	8944154			153	0.50	8944170				
Dissolved Chloride (Cl)	mg/L	0.97	0.50	8944150			0.71	0.50	8944167				
Nutrients													
Total Ammonia (N)	mg/L	0.021	0.0050	8943141			0.010	0.0050	8943141				
Nitrate plus Nitrite (N)	mg/L	0.0387	0.0020	8943402			0.0217	0.0020	8943402				
Nitrite (N)	mg/L	<0.0020	0.0020	8943403			<0.0020	0.0020	8943403				
Physical Properties													
Conductivity	uS/cm	467	1.0	8943180			570	1.0	8943180				
pH	pH	8.13		8943167			7.95		8943167				
Physical Properties													
Total Suspended Solids	mg/L	4.1 (1)	1.3	8943233			68.4 (1)	1.1	8943233				
Total Dissolved Solids	mg/L	258	10	8942943			334	10	8942943				
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate (1) RDL raised due to sample matrix interference.													

Maxxam Job #: B821458
Report Date: 2018/03/29

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TD7442	TD7443	TD7444	TD7445		
Sampling Date		2018/03/17 13:20	2018/03/17 16:45	2018/03/17 12:30	2018/03/17 17:05		
COC Number		548606-01-01	548606-01-01	548606-01-01	548606-01-01		
	UNITS	CC-4.5	HC-2.5	YUK-2.0	YUK-5.0	RDL	QC Batch
Parameter							
ORP	mV	270	272	271	273		8942930
Calculated Parameters							
Filter and HNO3 Preservation	N/A	LAB	LAB	LAB	LAB		8942206
Nitrate (N)	mg/L	0.754	0.473	0.0876	0.0898	0.0020	8942112
Misc. Inorganics							
Weak Acid Dissoc. Cyanide (CN)	mg/L	0.00088	0.00073	0.00086	0.00058	0.00050	8945335
Fluoride (F)	mg/L	0.046	0.054	0.100	0.095	0.010	8945660
Dissolved Organic Carbon (C)	mg/L	5.09	4.23	1.66	0.86	0.50	8942857
Alkalinity (Total as CaCO3)	mg/L	67.4	141	89.2	90.1	0.50	8943183
Total Organic Carbon (C)	mg/L	5.25	4.08	1.69	0.95	0.50	8942863
Alkalinity (PP as CaCO3)	mg/L	<0.50	<0.50	<0.50	<0.50	0.50	8943183
Bicarbonate (HCO3)	mg/L	82.3	173	109	110	0.50	8943183
Carbonate (CO3)	mg/L	<0.50	<0.50	<0.50	<0.50	0.50	8943183
Hydroxide (OH)	mg/L	<0.50	<0.50	<0.50	<0.50	0.50	8943183
Anions							
Dissolved Sulphate (SO4)	mg/L	79.2	69.7	22.2	23.2	0.50	8944154
Dissolved Chloride (Cl)	mg/L	1.1	3.4	0.78	0.68	0.50	8944150
Nutrients							
Total Ammonia (N)	mg/L	0.0090	0.018	0.014	0.020	0.0050	8943141
Nitrate plus Nitrite (N)	mg/L	0.754	0.473	0.0876	0.0898	0.0020	8943402
Nitrite (N)	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8943403
Physical Properties							
Conductivity	uS/cm	303	408	218	221	1.0	8943180
pH	pH	7.53	7.92	8.01	7.91		8943167
Physical Properties							
Total Suspended Solids	mg/L	2.9	1.1	<1.0	1.7	1.0	8943233
Total Dissolved Solids	mg/L	186	186	96	114	10	8942943
RDL = Reportable Detection Limit							

Maxxam Job #: B821458
Report Date: 2018/03/29

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TD7446			TD7447		
Sampling Date		2018/03/17 17:53			2018/03/17 14:30		
COC Number		548606-02-01			548606-02-01		
	UNITS	STEWART D/S M.M.	RDL	QC Batch	LATTE MIX	RDL	QC Batch
Parameter							
ORP	mV	273		8942930	274		8942930
Calculated Parameters							
Filter and HNO3 Preservation	N/A	LAB		8942206	LAB		8942206
Nitrate (N)	mg/L	0.188	0.0020	8942112	0.335	0.0020	8942112
Misc. Inorganics							
Weak Acid Dissoc. Cyanide (CN)	mg/L	0.00073	0.00050	8945335	0.00065	0.00050	8945335
Fluoride (F)	mg/L	0.076	0.010	8945660	0.069	0.010	8945660
Dissolved Organic Carbon (C)	mg/L	1.39	0.50	8942857	2.92	0.50	8942857
Alkalinity (Total as CaCO3)	mg/L	128	0.50	8943183	181	0.50	8943183
Total Organic Carbon (C)	mg/L	1.52	0.50	8942863	2.63	0.50	8942863
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	8943183	<0.50	0.50	8943183
Bicarbonate (HCO3)	mg/L	157	0.50	8943183	220	0.50	8943183
Carbonate (CO3)	mg/L	<0.50	0.50	8943183	<0.50	0.50	8943183
Hydroxide (OH)	mg/L	<0.50	0.50	8943183	<0.50	0.50	8943183
Anions							
Dissolved Sulphate (SO4)	mg/L	89.0	0.50	8944170	86.0	0.50	8944154
Dissolved Chloride (Cl)	mg/L	0.94	0.50	8944167	0.94	0.50	8944150
Nutrients							
Total Ammonia (N)	mg/L	0.014	0.0050	8943141	0.018	0.0050	8943141
Nitrate plus Nitrite (N)	mg/L	0.188	0.0020	8943402	0.335	0.0020	8943402
Nitrite (N)	mg/L	<0.0020	0.0020	8943403	<0.0020	0.0020	8943403
Physical Properties							
Conductivity	uS/cm	424	1.0	8943180	478	1.0	8943180
pH	pH	7.95		8943167	8.09		8943167
Physical Properties							
Total Suspended Solids	mg/L	1.5	1.0	8943233	1.1 (1)	1.1	8943233
Total Dissolved Solids	mg/L	258	10	8942943	292	10	8942943
RDL = Reportable Detection Limit							
(1) RDL raised due to sample matrix interference.							

Maxxam Job #: B821458
Report Date: 2018/03/29

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TD7448			TD7448		TD7449		
Sampling Date		2018/03/17 14:45			2018/03/17 14:45		2018/03/20 10:00		
COC Number		548606-02-01			548606-02-01		548606-02-01		
	UNITS	SAMPLE A	RDL	QC Batch	SAMPLE A Lab-Dup	QC Batch	FIELD BLANK	RDL	QC Batch
Parameter									
ORP	mV	275		8942930	275	8942930	267		8942930
Calculated Parameters									
Filter and HNO3 Preservation	N/A	LAB		8942206			LAB		8942206
Nitrate (N)	mg/L	0.0418	0.0020	8942112			<0.0020	0.0020	8942112
Misc. Inorganics									
Weak Acid Dissoc. Cyanide (CN)	mg/L	0.00074	0.00050	8945335			0.00060	0.00050	8945335
Fluoride (F)	mg/L	0.050	0.010	8945660			0.013	0.010	8945660
Dissolved Organic Carbon (C)	mg/L	3.40	0.50	8942857			<0.50	0.50	8942857
Alkalinity (Total as CaCO3)	mg/L	152	0.50	8943183			0.62	0.50	8943183
Total Organic Carbon (C)	mg/L	3.88	0.50	8942863			<0.50	0.50	8942863
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	8943183			<0.50	0.50	8943183
Bicarbonate (HCO3)	mg/L	186	0.50	8943183			0.76	0.50	8943183
Carbonate (CO3)	mg/L	<0.50	0.50	8943183			<0.50	0.50	8943183
Hydroxide (OH)	mg/L	<0.50	0.50	8943183			<0.50	0.50	8943183
Anions									
Dissolved Sulphate (SO4)	mg/L	85.7	0.50	8944170			<0.50	0.50	8944154
Dissolved Chloride (Cl)	mg/L	0.95	0.50	8944167			1.2	0.50	8944150
Nutrients									
Total Ammonia (N)	mg/L	0.026	0.0050	8943141			<0.0050	0.0050	8943141
Nitrate plus Nitrite (N)	mg/L	0.0418	0.0020	8943402			<0.0020	0.0020	8943402
Nitrite (N)	mg/L	<0.0020	0.0020	8943403			<0.0020	0.0020	8943403
Physical Properties									
Conductivity	uS/cm	467	1.0	8943180			<1.0	1.0	8943180
pH	pH	8.06		8943167			5.59		8943167
Physical Properties									
Total Suspended Solids	mg/L	2.6 (1)	1.2	8943233			<1.0	1.0	8944619
Total Dissolved Solids	mg/L	292	10	8942943			<10	10	8942943
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate (1) RDL raised due to sample matrix interference.									

Maxxam Job #: B821458
Report Date: 2018/03/29

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TD7449			TD7450			TD7450		
Sampling Date		2018/03/20 10:00			2018/03/20 10:00			2018/03/20 10:00		
COC Number		548606-02-01			548606-02-01			548606-02-01		
	UNITS	FIELD BLANK Lab-Dup	RDL	QC Batch	TRIP BLANK	RDL	QC Batch	TRIP BLANK Lab-Dup	RDL	QC Batch
Parameter										
ORP	mV				272		8942930			
Calculated Parameters										
Nitrate (N)	mg/L				<0.0020	0.0020	8942112			
Misc. Inorganics										
Weak Acid Dissoc. Cyanide (CN)	mg/L				0.00058	0.00050	8945335			
Fluoride (F)	mg/L				<0.010	0.010	8945660			
Dissolved Organic Carbon (C)	mg/L				<0.50	0.50	8942857	<0.50	0.50	8942857
Alkalinity (Total as CaCO3)	mg/L	0.55	0.50	8943183	<0.50	0.50	8943183			
Total Organic Carbon (C)	mg/L				<0.50	0.50	8942863	<0.50	0.50	8942863
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	8943183	<0.50	0.50	8943183			
Bicarbonate (HCO3)	mg/L	0.67	0.50	8943183	<0.50	0.50	8943183			
Carbonate (CO3)	mg/L	<0.50	0.50	8943183	<0.50	0.50	8943183			
Hydroxide (OH)	mg/L	<0.50	0.50	8943183	<0.50	0.50	8943183			
Anions										
Dissolved Sulphate (SO4)	mg/L	<0.50	0.50	8944154	0.56	0.50	8944170			
Dissolved Chloride (Cl)	mg/L	0.60	0.50	8944150	0.53	0.50	8944167			
Nutrients										
Total Ammonia (N)	mg/L				<0.0050	0.0050	8943141			
Nitrate plus Nitrite (N)	mg/L	<0.0020	0.0020	8943402	<0.0020	0.0020	8943402			
Nitrite (N)	mg/L	<0.0020	0.0020	8943403	<0.0020	0.0020	8943403			
Physical Properties										
Conductivity	uS/cm	<1.0	1.0	8943180	1.2	1.0	8943180			
pH	pH	5.53		8943167	5.49		8943167			
Physical Properties										
Total Suspended Solids	mg/L				<1.1 (1)	1.1	8944619			
Total Dissolved Solids	mg/L				<10	10	8942943			
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										
(1) RDL raised due to sample matrix interference.										

Maxxam Job #: B821458
Report Date: 2018/03/29

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TD7451				TD7452				TD7452		
Sampling Date												
COC Number		548606-02-01				548606-02-01				548606-02-01		
	UNITS	HC-B	RDL	QC Batch	BLACKHILLS	RDL	QC Batch	BLACKHILLS Lab-Dup	RDL	QC Batch		
Parameter												
ORP	mV	279		8942930	279		8942930					
Calculated Parameters												
Filter and HNO3 Preservation	N/A	LAB		8942206	LAB		8942206					
Nitrate (N)	mg/L	0.0036	0.0020	8942112	<0.020	0.020	8942112					
Misc. Inorganics												
Weak Acid Dissoc. Cyanide (CN)	mg/L	0.00097	0.00050	8945335	0.00097	0.00050	8945335					
Fluoride (F)	mg/L	0.049	0.010	8945660	0.098	0.010	8945660					
Dissolved Organic Carbon (C)	mg/L	16.3	0.50	8942857	28.8	0.50	8942857					
Alkalinity (Total as CaCO3)	mg/L	102	0.50	8943183	229	0.50	8943183					
Total Organic Carbon (C)	mg/L	16.6	0.50	8942863	32.8	0.50	8942863					
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	8943183	<0.50	0.50	8943183					
Bicarbonate (HCO3)	mg/L	124	0.50	8943183	279	0.50	8943183					
Carbonate (CO3)	mg/L	<0.50	0.50	8943183	<0.50	0.50	8943183					
Hydroxide (OH)	mg/L	<0.50	0.50	8943183	<0.50	0.50	8943183					
Anions												
Dissolved Sulphate (SO4)	mg/L	161	0.50	8945250	69.2	0.50	8944170					
Dissolved Chloride (Cl)	mg/L	1.5	0.50	8944167	2.1	0.50	8944167					
Nutrients												
Total Ammonia (N)	mg/L	0.031	0.0050	8943141	0.22	0.0050	8943141	0.22	0.0050	8943141		
Nitrate plus Nitrite (N)	mg/L	0.0036	0.0020	8943402	<0.020 (1)	0.020	8943402					
Nitrite (N)	mg/L	<0.0020	0.0020	8943403	<0.020 (1)	0.020	8943403					
Physical Properties												
Conductivity	uS/cm	496	1.0	8943180	574	1.0	8943180					
pH	pH	7.92		8943167	7.54		8943167					
Physical Properties												
Total Suspended Solids	mg/L	6.8 (1)	1.1	8943233	50.7 (1)	6.7	8943233					
Total Dissolved Solids	mg/L	326	10	8942943	388	10	8942943					
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate (1) RDL raised due to sample matrix interference.												

Maxxam Job #: B821458
Report Date: 2018/03/29

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TD7440			TD7440			TD7441		
Sampling Date		2018/03/17 14:45			2018/03/17 14:45			2018/03/17 15:30		
COC Number		548606-01-01			548606-01-01			548606-01-01		
	UNITS	CC-0.5	RDL	QC Batch	CC-0.5 Lab-Dup	RDL	QC Batch	CC-1.5	RDL	QC Batch

Calculated Parameters

Dissolved Hardness (CaCO3)	mg/L	216	0.50	8941567				274	0.50	8941567
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Elements

Dissolved Mercury (Hg)	ug/L	<0.0020	0.0020	8942818				<0.0020	0.0020	8942818
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Dissolved Metals by ICPMS

Dissolved Aluminum (Al)	ug/L	3.70	0.50	8942507	4.10	0.50	8942507	9.03	0.50	8942507
Dissolved Antimony (Sb)	ug/L	0.024	0.020	8942507	0.025	0.020	8942507	0.026	0.020	8942507
Dissolved Arsenic (As)	ug/L	0.291	0.020	8942507	0.265	0.020	8942507	2.29	0.020	8942507
Dissolved Barium (Ba)	ug/L	93.0	0.020	8942507	101	0.020	8942507	23.9	0.020	8942507
Dissolved Beryllium (Be)	ug/L	<0.010	0.010	8942507	<0.010	0.010	8942507	<0.010	0.010	8942507
Dissolved Bismuth (Bi)	ug/L	<0.0050	0.0050	8942507	<0.0050	0.0050	8942507	<0.0050	0.0050	8942507
Dissolved Boron (B)	ug/L	<10	10	8942507	<10	10	8942507	<10	10	8942507
Dissolved Cadmium (Cd)	ug/L	0.0119	0.0050	8942507	0.0127	0.0050	8942507	<0.0050	0.0050	8942507
Dissolved Chromium (Cr)	ug/L	<0.10	0.10	8942507	<0.10	0.10	8942507	<0.10	0.10	8942507
Dissolved Cobalt (Co)	ug/L	0.176	0.0050	8942507	0.162	0.0050	8942507	0.0128	0.0050	8942507
Dissolved Copper (Cu)	ug/L	0.287	0.050	8942507	0.261	0.050	8942507	0.801	0.050	8942507
Dissolved Iron (Fe)	ug/L	129	1.0	8942507	136	1.0	8942507	3.7	1.0	8942507
Dissolved Lead (Pb)	ug/L	<0.0050	0.0050	8942507	<0.0050	0.0050	8942507	<0.0050	0.0050	8942507
Dissolved Lithium (Li)	ug/L	1.00	0.50	8942507	1.08	0.50	8942507	2.54	0.50	8942507
Dissolved Manganese (Mn)	ug/L	123	0.050	8942507	111	0.050	8942507	3.91	0.050	8942507
Dissolved Molybdenum (Mo)	ug/L	0.190	0.050	8942507	0.207	0.050	8942507	0.249	0.050	8942507
Dissolved Nickel (Ni)	ug/L	0.534	0.020	8942507	0.486	0.020	8942507	0.432	0.020	8942507
Dissolved Phosphorus (P)	ug/L	<2.0	2.0	8942507	<2.0	2.0	8942507	3.0	2.0	8942507
Dissolved Selenium (Se)	ug/L	<0.040	0.040	8942507	<0.040	0.040	8942507	<0.040	0.040	8942507
Dissolved Silicon (Si)	ug/L	3850	50	8942507	4070	50	8942507	4370	50	8942507
Dissolved Silver (Ag)	ug/L	<0.0050	0.0050	8942507	<0.0050	0.0050	8942507	<0.0050	0.0050	8942507
Dissolved Strontium (Sr)	ug/L	374	0.050	8942507	338	0.050	8942507	516	0.050	8942507
Dissolved Thallium (Tl)	ug/L	<0.0020	0.0020	8942507	<0.0020	0.0020	8942507	0.0043	0.0020	8942507
Dissolved Tin (Sn)	ug/L	<0.20	0.20	8942507	<0.20	0.20	8942507	<0.20	0.20	8942507
Dissolved Titanium (Ti)	ug/L	<0.50	0.50	8942507	<0.50	0.50	8942507	<0.50	0.50	8942507
Dissolved Uranium (U)	ug/L	4.44	0.0020	8942507	4.88	0.0020	8942507	17.5	0.0020	8942507

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Maxxam Job #: B821458
Report Date: 2018/03/29

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TD7440			TD7440			TD7441		
Sampling Date		2018/03/17 14:45			2018/03/17 14:45			2018/03/17 15:30		
COC Number		548606-01-01			548606-01-01			548606-01-01		
	UNITS	CC-0.5	RDL	QC Batch	CC-0.5 Lab-Dup	RDL	QC Batch	CC-1.5	RDL	QC Batch
Dissolved Vanadium (V)	ug/L	<0.20	0.20	8942507	<0.20	0.20	8942507	<0.20	0.20	8942507
Dissolved Zinc (Zn)	ug/L	0.31	0.10	8942507	0.32	0.10	8942507	0.12	0.10	8942507
Dissolved Zirconium (Zr)	ug/L	0.14	0.10	8942507	0.12	0.10	8942507	0.35	0.10	8942507
Dissolved Calcium (Ca)	mg/L	66.7	0.050	8942110				76.2	0.050	8942110
Dissolved Magnesium (Mg)	mg/L	11.9	0.050	8942110				20.3	0.050	8942110
Dissolved Potassium (K)	mg/L	2.10	0.050	8942110				4.68	0.050	8942110
Dissolved Sodium (Na)	mg/L	3.79	0.050	8942110				6.52	0.050	8942110
Dissolved Sulphur (S)	mg/L	30.8	3.0	8942110				51.1	3.0	8942110
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B821458
Report Date: 2018/03/29

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TD7442	TD7443		TD7444		TD7445		
Sampling Date		2018/03/17 13:20	2018/03/17 16:45		2018/03/17 12:30		2018/03/17 17:05		
COC Number		548606-01-01	548606-01-01		548606-01-01		548606-01-01		
	UNITS	CC-4.5	HC-2.5	QC Batch	YUK-2.0	QC Batch	YUK-5.0	RDL	QC Batch
Calculated Parameters									
Dissolved Hardness (CaCO3)	mg/L	136	196	8941567	103	8941567	106	0.50	8941567
Elements									
Dissolved Mercury (Hg)	ug/L	<0.0020	<0.0020	8942818	<0.0020	8942482	<0.0020	0.0020	8942818
Dissolved Metals by ICPMS									
Dissolved Aluminum (Al)	ug/L	20.9	8.05	8942507	1.49	8942507	1.86	0.50	8942507
Dissolved Antimony (Sb)	ug/L	0.068	0.324	8942507	0.063	8942507	0.071	0.020	8942507
Dissolved Arsenic (As)	ug/L	0.234	0.527	8942507	0.339	8942507	0.155	0.020	8942507
Dissolved Barium (Ba)	ug/L	80.1	49.0	8942507	42.8	8942507	77.2	0.020	8942507
Dissolved Beryllium (Be)	ug/L	<0.010	<0.010	8942507	<0.010	8942507	<0.010	0.010	8942507
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	8942507	<0.0050	8942507	<0.0050	0.0050	8942507
Dissolved Boron (B)	ug/L	<10	<10	8942507	<10	8942507	<10	10	8942507
Dissolved Cadmium (Cd)	ug/L	0.0187	0.0094	8942507	0.0193	8942507	0.0265	0.0050	8942507
Dissolved Chromium (Cr)	ug/L	0.13	<0.10	8942507	<0.10	8942507	<0.10	0.10	8942507
Dissolved Cobalt (Co)	ug/L	0.0210	0.0202	8942507	0.0058	8942507	0.0094	0.0050	8942507
Dissolved Copper (Cu)	ug/L	0.980	0.662	8942507	0.356	8942507	0.338	0.050	8942507
Dissolved Iron (Fe)	ug/L	5.0	3.7	8942507	3.1	8942507	6.2	1.0	8942507
Dissolved Lead (Pb)	ug/L	0.0160	<0.0050	8942507	<0.0050	8942507	0.0155	0.0050	8942507
Dissolved Lithium (Li)	ug/L	<0.50	1.50	8942507	1.46	8942507	1.08	0.50	8942507
Dissolved Manganese (Mn)	ug/L	0.422	48.1	8942507	1.04	8942507	3.71	0.050	8942507
Dissolved Molybdenum (Mo)	ug/L	0.426	1.09	8942507	1.17	8942507	1.17	0.050	8942507
Dissolved Nickel (Ni)	ug/L	0.516	0.425	8942507	0.609	8942507	0.235	0.020	8942507
Dissolved Phosphorus (P)	ug/L	3.5	2.6	8942507	2.6	8942507	21.7 (1)	2.0	8942507
Dissolved Selenium (Se)	ug/L	0.064	0.075	8942507	0.304	8942507	0.384	0.040	8942507
Dissolved Silicon (Si)	ug/L	3820	4790	8942507	2380	8942507	2150	50	8942507
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	8942507	<0.0050	8942507	<0.0050	0.0050	8942507
Dissolved Strontium (Sr)	ug/L	191	507	8942507	146	8942507	134	0.050	8942507
Dissolved Thallium (Tl)	ug/L	<0.0020	<0.0020	8942507	<0.0020	8942507	<0.0020	0.0020	8942507
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	8942507	<0.20	8942507	<0.20	0.20	8942507
Dissolved Titanium (Ti)	ug/L	<0.50	<0.50	8942507	<0.50	8942507	<0.50	0.50	8942507
Dissolved Uranium (U)	ug/L	1.38	57.0	8942507	1.06	8942507	1.19	0.0020	8942507
RDL = Reportable Detection Limit									
(1) Dissolved greater than total. Reanalysis yields similar results.									

Maxxam Job #: B821458
Report Date: 2018/03/29

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TD7442	TD7443		TD7444		TD7445		
Sampling Date		2018/03/17 13:20	2018/03/17 16:45		2018/03/17 12:30		2018/03/17 17:05		
COC Number		548606-01-01	548606-01-01		548606-01-01		548606-01-01		
	UNITS	CC-4.5	HC-2.5	QC Batch	YUK-2.0	QC Batch	YUK-5.0	RDL	QC Batch
Dissolved Vanadium (V)	ug/L	0.21	<0.20	8942507	<0.20	8942507	<0.20	0.20	8942507
Dissolved Zinc (Zn)	ug/L	0.83 (1)	0.21	8942507	1.84	8942507	1.55	0.10	8942507
Dissolved Zirconium (Zr)	ug/L	0.25	0.21	8942507	<0.10	8942507	<0.10	0.10	8942507
Dissolved Calcium (Ca)	mg/L	34.7	47.0	8942110	28.2	8942110	29.2	0.050	8942110
Dissolved Magnesium (Mg)	mg/L	12.0	19.0	8942110	7.95	8942110	7.96	0.050	8942110
Dissolved Potassium (K)	mg/L	1.50	2.72	8942110	0.903	8942110	0.855	0.050	8942110
Dissolved Sodium (Na)	mg/L	4.46	4.13	8942110	2.26	8942110	2.08	0.050	8942110
Dissolved Sulphur (S)	mg/L	25.5	23.2	8942110	7.5	8942110	7.5	3.0	8942110
RDL = Reportable Detection Limit									
(1) Dissolved greater than total. Reanalysis yields similar results.									

Maxxam Job #: B821458
Report Date: 2018/03/29

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TD7446		TD7447		TD7448	TD7449		
Sampling Date		2018/03/17 17:53		2018/03/17 14:30		2018/03/17 14:45	2018/03/20 10:00		
COC Number		548606-02-01		548606-02-01		548606-02-01	548606-02-01		
	UNITS	STEWART D/S M.M.	QC Batch	LATTE MIX	QC Batch	SAMPLE A	FIELD BLANK	RDL	QC Batch

Calculated Parameters

Dissolved Hardness (CaCO3)	mg/L	206	8941567	230	8941567	192	<0.50	0.50	8941567
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Elements

Dissolved Mercury (Hg)	ug/L	<0.0020	8942482	<0.0020	8942482	<0.0020	<0.0020	0.0020	8942482
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Dissolved Metals by ICPMS

Dissolved Aluminum (Al)	ug/L	2.02	8942507	5.60	8942507	3.56	<0.50	0.50	8942507
Dissolved Antimony (Sb)	ug/L	0.098	8942507	0.042	8942507	0.022	<0.020	0.020	8942507
Dissolved Arsenic (As)	ug/L	0.243	8942507	0.248	8942507	0.273	<0.020	0.020	8942507
Dissolved Barium (Ba)	ug/L	72.5	8942507	87.8	8942507	92.1	<0.020	0.020	8942507
Dissolved Beryllium (Be)	ug/L	<0.010	8942507	<0.010	8942507	<0.010	<0.010	0.010	8942507
Dissolved Bismuth (Bi)	ug/L	<0.0050	8942507	<0.0050	8942507	<0.0050	<0.0050	0.0050	8942507
Dissolved Boron (B)	ug/L	<10	8942507	<10	8942507	<10	<10	10	8942507
Dissolved Cadmium (Cd)	ug/L	0.0846	8942507	<0.0050	8942507	<0.0050	<0.0050	0.0050	8942507
Dissolved Chromium (Cr)	ug/L	<0.10	8942507	0.14	8942507	<0.10	<0.10	0.10	8942507
Dissolved Cobalt (Co)	ug/L	0.0156	8942507	0.0142	8942507	0.175	<0.0050	0.0050	8942507
Dissolved Copper (Cu)	ug/L	0.321	8942507	0.456	8942507	0.260	<0.050	0.050	8942507
Dissolved Iron (Fe)	ug/L	2.8	8942507	2.8	8946578	116	<1.0	1.0	8942507
Dissolved Lead (Pb)	ug/L	<0.0050	8942507	<0.0050	8942507	<0.0050	<0.0050	0.0050	8942507
Dissolved Lithium (Li)	ug/L	3.87	8942507	1.02	8942507	1.00	<0.50	0.50	8942507
Dissolved Manganese (Mn)	ug/L	6.71	8942507	1.06	8942507	121	<0.050	0.050	8942507
Dissolved Molybdenum (Mo)	ug/L	0.507	8942507	0.600	8942507	0.187	<0.050	0.050	8942507
Dissolved Nickel (Ni)	ug/L	2.14	8942507	0.280	8942507	0.517	<0.020	0.020	8942507
Dissolved Phosphorus (P)	ug/L	<2.0	8942507	<2.0	8942507	2.0	<2.0	2.0	8942507
Dissolved Selenium (Se)	ug/L	0.806	8942507	0.177	8946578	<0.040	<0.040	0.040	8942507
Dissolved Silicon (Si)	ug/L	2120	8942507	3950	8942507	4000	<50	50	8942507
Dissolved Silver (Ag)	ug/L	<0.0050	8942507	<0.0050	8942507	<0.0050	<0.0050	0.0050	8942507
Dissolved Strontium (Sr)	ug/L	265	8942507	389	8942507	361	<0.050	0.050	8942507
Dissolved Thallium (Tl)	ug/L	<0.0020	8942507	<0.0020	8942507	<0.0020	<0.0020	0.0020	8942507
Dissolved Tin (Sn)	ug/L	<0.20	8942507	<0.20	8942507	<0.20	<0.20	0.20	8942507
Dissolved Titanium (Ti)	ug/L	<0.50	8942507	<0.50	8942507	<0.50	<0.50	0.50	8942507
Dissolved Uranium (U)	ug/L	1.23	8942507	18.9	8942507	4.45	<0.0020	0.0020	8942507
Dissolved Vanadium (V)	ug/L	<0.20	8942507	0.21	8942507	<0.20	<0.20	0.20	8942507

RDL = Reportable Detection Limit

Maxxam Job #: B821458
Report Date: 2018/03/29

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TD7446		TD7447		TD7448	TD7449		
Sampling Date		2018/03/17 17:53		2018/03/17 14:30		2018/03/17 14:45	2018/03/20 10:00		
COC Number		548606-02-01		548606-02-01		548606-02-01	548606-02-01		
	UNITS	STEWART D/S M.M.	QC Batch	LATTE MIX	QC Batch	SAMPLE A	FIELD BLANK	RDL	QC Batch
Dissolved Zinc (Zn)	ug/L	8.33	8942507	0.16	8942507	0.11	<0.10	0.10	8942507
Dissolved Zirconium (Zr)	ug/L	<0.10	8942507	0.14	8942507	0.14	<0.10	0.10	8942507
Dissolved Calcium (Ca)	mg/L	53.1	8942110	62.8	8942110	57.8	<0.050	0.050	8942110
Dissolved Magnesium (Mg)	mg/L	17.7	8942110	17.7	8942110	11.6	<0.050	0.050	8942110
Dissolved Potassium (K)	mg/L	0.705	8942110	2.60	8942110	2.00	<0.050	0.050	8942110
Dissolved Sodium (Na)	mg/L	2.66	8942110	4.41	8942110	3.66	<0.050	0.050	8942110
Dissolved Sulphur (S)	mg/L	28.8	8942110	28.1	8942110	29.0	<3.0	3.0	8942110
RDL = Reportable Detection Limit									

Maxxam Job #: B821458
Report Date: 2018/03/29

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TD7449			TD7450			TD7450		
Sampling Date		2018/03/20 10:00			2018/03/20 10:00			2018/03/20 10:00		
COC Number		548606-02-01			548606-02-01			548606-02-01		
	UNITS	FIELD BLANK Lab-Dup	RDL	QC Batch	TRIP BLANK	RDL	QC Batch	TRIP BLANK Lab-Dup	RDL	QC Batch

Calculated Parameters

Dissolved Hardness (CaCO3)	mg/L				<0.50	0.50	8941567			
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Elements

Dissolved Mercury (Hg)	ug/L				<0.0020	0.0020	8942482	<0.0020	0.0020	8942482
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Dissolved Metals by ICPMS

Dissolved Aluminum (Al)	ug/L	<0.50	0.50	8942507	<0.50	0.50	8942507	<0.50	0.50	8942507
Dissolved Antimony (Sb)	ug/L	<0.020	0.020	8942507	<0.020	0.020	8942507	<0.020	0.020	8942507
Dissolved Arsenic (As)	ug/L	<0.020	0.020	8942507	<0.020	0.020	8942507	<0.020	0.020	8942507
Dissolved Barium (Ba)	ug/L	<0.020	0.020	8942507	<0.020	0.020	8942507	<0.020	0.020	8942507
Dissolved Beryllium (Be)	ug/L	<0.010	0.010	8942507	<0.010	0.010	8942507	<0.010	0.010	8942507
Dissolved Bismuth (Bi)	ug/L	<0.0050	0.0050	8942507	<0.0050	0.0050	8942507	<0.0050	0.0050	8942507
Dissolved Boron (B)	ug/L	<10	10	8942507	<10	10	8942507	<10	10	8942507
Dissolved Cadmium (Cd)	ug/L	<0.0050	0.0050	8942507	<0.0050	0.0050	8942507	<0.0050	0.0050	8942507
Dissolved Chromium (Cr)	ug/L	<0.10	0.10	8942507	<0.10	0.10	8942507	<0.10	0.10	8942507
Dissolved Cobalt (Co)	ug/L	<0.0050	0.0050	8942507	<0.0050	0.0050	8942507	<0.0050	0.0050	8942507
Dissolved Copper (Cu)	ug/L	<0.050	0.050	8942507	<0.050	0.050	8942507	<0.050	0.050	8942507
Dissolved Iron (Fe)	ug/L	<1.0	1.0	8942507	<1.0	1.0	8942507	<1.0	1.0	8942507
Dissolved Lead (Pb)	ug/L	<0.0050	0.0050	8942507	<0.0050	0.0050	8942507	<0.0050	0.0050	8942507
Dissolved Lithium (Li)	ug/L	<0.50	0.50	8942507	<0.50	0.50	8942507	<0.50	0.50	8942507
Dissolved Manganese (Mn)	ug/L	<0.050	0.050	8942507	<0.050	0.050	8942507	<0.050	0.050	8942507
Dissolved Molybdenum (Mo)	ug/L	<0.050	0.050	8942507	<0.050	0.050	8942507	<0.050	0.050	8942507
Dissolved Nickel (Ni)	ug/L	<0.020	0.020	8942507	<0.020	0.020	8942507	<0.020	0.020	8942507
Dissolved Phosphorus (P)	ug/L	<2.0	2.0	8942507	<2.0	2.0	8942507	<2.0	2.0	8942507
Dissolved Selenium (Se)	ug/L	<0.040	0.040	8942507	<0.040	0.040	8942507	<0.040	0.040	8942507
Dissolved Silicon (Si)	ug/L	<50	50	8942507	<50	50	8942507	<50	50	8942507
Dissolved Silver (Ag)	ug/L	<0.0050	0.0050	8942507	<0.0050	0.0050	8942507	<0.0050	0.0050	8942507
Dissolved Strontium (Sr)	ug/L	<0.050	0.050	8942507	<0.050	0.050	8942507	<0.050	0.050	8942507
Dissolved Thallium (Tl)	ug/L	<0.0020	0.0020	8942507	<0.0020	0.0020	8942507	<0.0020	0.0020	8942507
Dissolved Tin (Sn)	ug/L	<0.20	0.20	8942507	<0.20	0.20	8942507	<0.20	0.20	8942507
Dissolved Titanium (Ti)	ug/L	<0.50	0.50	8942507	<0.50	0.50	8942507	<0.50	0.50	8942507
Dissolved Uranium (U)	ug/L	<0.0020	0.0020	8942507	<0.0020	0.0020	8942507	<0.0020	0.0020	8942507

RDL = Reportable Detection Limit

Lab-Dup = Laboratory Initiated Duplicate

Maxxam Job #: B821458
Report Date: 2018/03/29

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TD7449			TD7450			TD7450		
Sampling Date		2018/03/20 10:00			2018/03/20 10:00			2018/03/20 10:00		
COC Number		548606-02-01			548606-02-01			548606-02-01		
	UNITS	FIELD BLANK Lab-Dup	RDL	QC Batch	TRIP BLANK	RDL	QC Batch	TRIP BLANK Lab-Dup	RDL	QC Batch
Dissolved Vanadium (V)	ug/L	<0.20	0.20	8942507	<0.20	0.20	8942507	<0.20	0.20	8942507
Dissolved Zinc (Zn)	ug/L	<0.10	0.10	8942507	<0.10	0.10	8942507	<0.10	0.10	8942507
Dissolved Zirconium (Zr)	ug/L	<0.10	0.10	8942507	<0.10	0.10	8942507	<0.10	0.10	8942507
Dissolved Calcium (Ca)	mg/L				<0.050	0.050	8942110			
Dissolved Magnesium (Mg)	mg/L				<0.050	0.050	8942110			
Dissolved Potassium (K)	mg/L				<0.050	0.050	8942110			
Dissolved Sodium (Na)	mg/L				<0.050	0.050	8942110			
Dissolved Sulphur (S)	mg/L				<3.0	3.0	8942110			
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B821458
Report Date: 2018/03/29

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TD7451	TD7452		
Sampling Date					
COC Number		548606-02-01	548606-02-01		
	UNITS	HC-B	BLACKHILLS	RDL	QC Batch
Calculated Parameters					
Dissolved Hardness (CaCO3)	mg/L	237	266	0.50	8941567
Elements					
Dissolved Mercury (Hg)	ug/L	0.0045	<0.0020	0.0020	8942482
Dissolved Metals by ICPMS					
Dissolved Aluminum (Al)	ug/L	25.0	15.3	0.50	8942507
Dissolved Antimony (Sb)	ug/L	0.189	0.089	0.020	8942507
Dissolved Arsenic (As)	ug/L	0.976	1.12	0.020	8942507
Dissolved Barium (Ba)	ug/L	53.9	199	0.020	8942507
Dissolved Beryllium (Be)	ug/L	<0.010	0.032	0.010	8942507
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	0.0050	8942507
Dissolved Boron (B)	ug/L	<10	<10	10	8942507
Dissolved Cadmium (Cd)	ug/L	0.0140	0.0278	0.0050	8942507
Dissolved Chromium (Cr)	ug/L	0.21	0.82	0.10	8942507
Dissolved Cobalt (Co)	ug/L	0.0403	2.22	0.0050	8942507
Dissolved Copper (Cu)	ug/L	1.27	0.281	0.050	8942507
Dissolved Iron (Fe)	ug/L	21.3	3240	1.0	8942507
Dissolved Lead (Pb)	ug/L	0.0136	0.0172	0.0050	8942507
Dissolved Lithium (Li)	ug/L	1.15	2.64	0.50	8942507
Dissolved Manganese (Mn)	ug/L	0.382	2250	0.050	8942507
Dissolved Molybdenum (Mo)	ug/L	0.373	0.467	0.050	8942507
Dissolved Nickel (Ni)	ug/L	0.688	2.54	0.020	8942507
Dissolved Phosphorus (P)	ug/L	26.7	25.3	2.0	8942507
Dissolved Selenium (Se)	ug/L	0.054	0.202	0.040	8942507
Dissolved Silicon (Si)	ug/L	5500	7470	50	8942507
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	0.0050	8942507
Dissolved Strontium (Sr)	ug/L	565	388	0.050	8942507
Dissolved Thallium (Tl)	ug/L	<0.0020	<0.0020	0.0020	8942507
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	0.20	8942507
Dissolved Titanium (Ti)	ug/L	<0.50	2.84	0.50	8942507
Dissolved Uranium (U)	ug/L	37.3	0.615	0.0020	8942507
Dissolved Vanadium (V)	ug/L	0.22	1.41	0.20	8942507
RDL = Reportable Detection Limit					

Maxxam Job #: B821458
Report Date: 2018/03/29

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TD7451	TD7452		
Sampling Date					
COC Number		548606-02-01	548606-02-01		
	UNITS	HC-B	BLACKHILLS	RDL	QC Batch
Dissolved Zinc (Zn)	ug/L	2.07	3.45	0.10	8942507
Dissolved Zirconium (Zr)	ug/L	0.35	0.86	0.10	8942507
Dissolved Calcium (Ca)	mg/L	56.5	72.7	0.050	8942110
Dissolved Magnesium (Mg)	mg/L	23.3	20.5	0.050	8942110
Dissolved Potassium (K)	mg/L	3.42	2.48	0.050	8942110
Dissolved Sodium (Na)	mg/L	9.55	6.70	0.050	8942110
Dissolved Sulphur (S)	mg/L	51.1	23.2	3.0	8942110
RDL = Reportable Detection Limit					

Maxxam Job #: B821458
Report Date: 2018/03/29

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		TD7440	TD7442	TD7443	TD7444	TD7446		
Sampling Date		2018/03/17 14:45	2018/03/17 13:20	2018/03/17 16:45	2018/03/17 12:30	2018/03/17 17:53		
COC Number		548606-01-01	548606-01-01	548606-01-01	548606-01-01	548606-02-01		
	UNITS	CC-0.5	CC-4.5	HC-2.5	YUK-2.0	STEWART D/S M.M.	RDL	QC Batch
Calculated Parameters								
Total Hardness (CaCO3)	mg/L	242	136	200	91.6	196	0.50	8941266
Elements								
Total Mercury (Hg)	ug/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8942323
Total Metals by ICPMS								
Total Aluminum (Al)	ug/L	6.07	38.3	13.8	38.1	11.3	0.50	8944186
Total Antimony (Sb)	ug/L	0.028	0.080	0.442	0.094	0.130	0.020	8944186
Total Arsenic (As)	ug/L	0.408	0.229	0.530	0.433	0.295	0.020	8944186
Total Barium (Ba)	ug/L	102	91.8	62.9	50.5	87.7	0.020	8944186
Total Beryllium (Be)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	8944186
Total Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8944186
Total Boron (B)	ug/L	<10	<10	<10	<10	<10	10	8944186
Total Cadmium (Cd)	ug/L	<0.0050	0.0133	0.0162	0.0262	0.121	0.0050	8944186
Total Chromium (Cr)	ug/L	<0.10	0.13	0.10	0.18	<0.10	0.10	8944186
Total Cobalt (Co)	ug/L	0.224	0.0299	0.0279	0.0352	0.0220	0.0050	8944186
Total Copper (Cu)	ug/L	0.381	0.967	0.706	0.502	0.416	0.050	8944186
Total Iron (Fe)	ug/L	317	23.6	6.7	60.3	26.7	1.0	8944186
Total Lead (Pb)	ug/L	<0.0050	0.0177	<0.0050	0.0283	0.0473	0.0050	8944186
Total Lithium (Li)	ug/L	1.04	<0.50	1.87	1.65	4.37	0.50	8944186
Total Manganese (Mn)	ug/L	140	1.16	51.7	4.32	7.24	0.050	8944186
Total Molybdenum (Mo)	ug/L	0.200	0.477	1.38	1.33	0.620	0.050	8944186
Total Nickel (Ni)	ug/L	0.636	0.534	0.463	0.761	2.33	0.020	8944186
Total Phosphorus (P)	ug/L	3.5	<2.0	4.2	8.3	2.3	2.0	8944186
Total Selenium (Se)	ug/L	<0.040	0.071	0.083	0.269	0.849	0.040	8944186
Total Silicon (Si)	ug/L	4370	3420	5030	2910	2570	50	8944186
Total Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8944186
Total Strontium (Sr)	ug/L	376	175	479	140	258	0.050	8944186
Total Thallium (Tl)	ug/L	0.0021	<0.0020	0.0024	<0.0020	0.0021	0.0020	8944186
Total Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	8944186
Total Titanium (Ti)	ug/L	<0.50	0.85	<0.50	1.28	<0.50	0.50	8944186
Total Uranium (U)	ug/L	5.05	1.67	73.4	1.24	1.54	0.0020	8944186
Total Vanadium (V)	ug/L	<0.20	0.22	0.21	0.26	<0.20	0.20	8944186
RDL = Reportable Detection Limit								

Maxxam Job #: B821458
Report Date: 2018/03/29

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		TD7440	TD7442	TD7443	TD7444	TD7446		
Sampling Date		2018/03/17 14:45	2018/03/17 13:20	2018/03/17 16:45	2018/03/17 12:30	2018/03/17 17:53		
COC Number		548606-01-01	548606-01-01	548606-01-01	548606-01-01	548606-02-01		
	UNITS	CC-0.5	CC-4.5	HC-2.5	YUK-2.0	STEWART D/S M.M.	RDL	QC Batch
Total Zinc (Zn)	ug/L	0.26	0.53	0.28	2.62	9.71	0.10	8944186
Total Zirconium (Zr)	ug/L	0.15	0.19	0.15	<0.10	<0.10	0.10	8944186
Total Calcium (Ca)	mg/L	75.0	35.7	48.2	23.7	49.0	0.050	8942111
Total Magnesium (Mg)	mg/L	13.2	11.4	19.2	7.87	17.9	0.050	8942111
Total Potassium (K)	mg/L	2.20	1.40	2.71	0.907	0.689	0.050	8942111
Total Sodium (Na)	mg/L	4.05	4.12	4.03	2.23	2.59	0.050	8942111
Total Sulphur (S)	mg/L	34.7	23.7	21.7	7.1	29.8	3.0	8942111
RDL = Reportable Detection Limit								

Maxxam Job #: B821458
Report Date: 2018/03/29

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		TD7447	TD7448	TD7449	TD7450		
Sampling Date		2018/03/17 14:30	2018/03/17 14:45	2018/03/20 10:00	2018/03/20 10:00		
COC Number		548606-02-01	548606-02-01	548606-02-01	548606-02-01		
	UNITS	LATTE MIX	SAMPLE A	FIELD BLANK	TRIP BLANK	RDL	QC Batch
Calculated Parameters							
Total Hardness (CaCO3)	mg/L	260	221	<0.50	<0.50	0.50	8941266
Elements							
Total Mercury (Hg)	ug/L	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8942323
Total Metals by ICPMS							
Total Aluminum (Al)	ug/L	8.27	6.93	<0.50	<0.50	0.50	8944186
Total Antimony (Sb)	ug/L	0.064	0.028	<0.020	<0.020	0.020	8944186
Total Arsenic (As)	ug/L	0.351	0.358	<0.020	<0.020	0.020	8944186
Total Barium (Ba)	ug/L	104	102	<0.020	<0.020	0.020	8944186
Total Beryllium (Be)	ug/L	<0.010	<0.010	<0.010	<0.010	0.010	8944186
Total Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8944186
Total Boron (B)	ug/L	<10	<10	<10	<10	10	8944186
Total Cadmium (Cd)	ug/L	0.0056	<0.0050	<0.0050	<0.0050	0.0050	8944186
Total Chromium (Cr)	ug/L	0.18	<0.10	<0.10	<0.10	0.10	8944186
Total Cobalt (Co)	ug/L	0.0210	0.189	<0.0050	<0.0050	0.0050	8944186
Total Copper (Cu)	ug/L	0.624	0.286	<0.050	<0.050	0.050	8944186
Total Iron (Fe)	ug/L	5.3	314	<1.0	<1.0	1.0	8944186
Total Lead (Pb)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8944186
Total Lithium (Li)	ug/L	1.17	1.00	<0.50	<0.50	0.50	8944186
Total Manganese (Mn)	ug/L	1.88	121	<0.050	<0.050	0.050	8944186
Total Molybdenum (Mo)	ug/L	0.692	0.209	<0.050	<0.050	0.050	8944186
Total Nickel (Ni)	ug/L	0.390	0.541	<0.020	<0.020	0.020	8944186
Total Phosphorus (P)	ug/L	4.2	2.3	<2.0	<2.0	2.0	8944186
Total Selenium (Se)	ug/L	0.180	<0.040	<0.040	<0.040	0.040	8944186
Total Silicon (Si)	ug/L	3680	4070	<50	<50	50	8944186
Total Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8944186
Total Strontium (Sr)	ug/L	432	332	<0.050	<0.050	0.050	8944186
Total Thallium (Tl)	ug/L	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	8944186
Total Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	8944186
Total Titanium (Ti)	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	8944186
Total Uranium (U)	ug/L	23.0	5.08	<0.0020	<0.0020	0.0020	8944186
Total Vanadium (V)	ug/L	0.33	<0.20	<0.20	<0.20	0.20	8944186
RDL = Reportable Detection Limit							

Maxxam Job #: B821458
Report Date: 2018/03/29

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		TD7447	TD7448	TD7449	TD7450		
Sampling Date		2018/03/17 14:30	2018/03/17 14:45	2018/03/20 10:00	2018/03/20 10:00		
COC Number		548606-02-01	548606-02-01	548606-02-01	548606-02-01		
	UNITS	LATTE MIX	SAMPLE A	FIELD BLANK	TRIP BLANK	RDL	QC Batch
Total Zinc (Zn)	ug/L	0.18	<0.10	<0.10	<0.10	0.10	8944186
Total Zirconium (Zr)	ug/L	0.14	0.14	<0.10	<0.10	0.10	8944186
Total Calcium (Ca)	mg/L	68.8	69.2	<0.050	<0.050	0.050	8942111
Total Magnesium (Mg)	mg/L	21.5	11.6	<0.050	<0.050	0.050	8942111
Total Potassium (K)	mg/L	3.16	1.97	<0.050	<0.050	0.050	8942111
Total Sodium (Na)	mg/L	5.48	3.55	<0.050	<0.050	0.050	8942111
Total Sulphur (S)	mg/L	32.4	27.6	<3.0	<3.0	3.0	8942111
RDL = Reportable Detection Limit							

Maxxam Job #: B821458
Report Date: 2018/03/29

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TD7441			TD7441			TD7445		
Sampling Date		2018/03/17 15:30			2018/03/17 15:30			2018/03/17 17:05		
COC Number		548606-01-01			548606-01-01			548606-01-01		
	UNITS	CC-1.5	RDL	QC Batch	CC-1.5 Lab-Dup	RDL	QC Batch	YUK-5.0	RDL	QC Batch

Calculated Parameters

Total Hardness (CaCO3)	mg/L	281	0.50	8941266				104	0.50	8941266
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Elements

Total Mercury (Hg)	ug/L	0.0028	0.0020	8942323				<0.0020	0.0020	8942323
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Total Metals by ICPMS

Total Aluminum (Al)	ug/L	1380 (1)	3.0	8943350	1040 (2)	3.0	8943350	12.9	3.0	8943350
Total Antimony (Sb)	ug/L	0.081	0.020	8943350	0.068	0.020	8943350	0.107	0.020	8943350
Total Arsenic (As)	ug/L	6.76	0.020	8943350	6.43	0.020	8943350	0.182	0.020	8943350
Total Barium (Ba)	ug/L	47.3	0.050	8943350	45.6	0.050	8943350	87.4	0.050	8943350
Total Beryllium (Be)	ug/L	0.069	0.010	8943350	0.065	0.010	8943350	<0.010	0.010	8943350
Total Bismuth (Bi)	ug/L	0.014	0.010	8943350	0.012	0.010	8943350	<0.010	0.010	8943350
Total Boron (B)	ug/L	<10	10	8943350	<10	10	8943350	<10	10	8943350
Total Cadmium (Cd)	ug/L	0.0728	0.0050	8943350	0.0781	0.0050	8943350	0.0675	0.0050	8943350
Total Chromium (Cr)	ug/L	2.21	0.10	8943350	1.94	0.10	8943350	0.16	0.10	8943350
Total Cobalt (Co)	ug/L	1.46	0.010	8943350	1.30	0.010	8943350	0.027	0.010	8943350
Total Copper (Cu)	ug/L	3.19	0.10	8943350	3.07	0.10	8943350	0.70	0.10	8943350
Total Iron (Fe)	ug/L	1990 (3)	5.0	8943350	1620 (2)	5.0	8943350	39.6	5.0	8943350
Total Lead (Pb)	ug/L	1.11	0.020	8943350	0.968	0.020	8943350	0.130	0.020	8943350
Total Lithium (Li)	ug/L	3.53	0.50	8943350	3.30	0.50	8943350	0.99	0.50	8943350
Total Manganese (Mn)	ug/L	772	0.10	8943350	750	0.10	8943350	4.78	0.10	8943350
Total Molybdenum (Mo)	ug/L	0.425	0.050	8943350	0.411	0.050	8943350	1.32	0.050	8943350
Total Nickel (Ni)	ug/L	2.05	0.10	8943350	1.96	0.10	8943350	0.35	0.10	8943350
Total Phosphorus (P)	ug/L	64.7	5.0	8943350	58.4	5.0	8943350	<5.0	5.0	8943350
Total Selenium (Se)	ug/L	0.082	0.040	8943350	0.060	0.040	8943350	0.393	0.040	8943350
Total Silicon (Si)	ug/L	6950	50	8943350	6600	50	8943350	2660	50	8943350
Total Silver (Ag)	ug/L	<0.010	0.010	8943350	<0.010	0.010	8943350	<0.010	0.010	8943350
Total Strontium (Sr)	ug/L	505	0.050	8943350	509	0.050	8943350	134	0.050	8943350

RDL = Reportable Detection Limit
 Lab-Dup = Laboratory Initiated Duplicate
 (1) Duplicate RPD for Aluminum above control limit - Non-homogenous sample - Increased variability of results. Re-analysis yields similar results.
 (2) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.
 (3) Duplicate RPD for Iron above control limit - Non-homogenous sample - Increased variability of results. Re-analysis yields similar results.

Maxxam Job #: B821458
Report Date: 2018/03/29

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TD7441			TD7441			TD7445		
Sampling Date		2018/03/17 15:30			2018/03/17 15:30			2018/03/17 17:05		
COC Number		548606-01-01			548606-01-01			548606-01-01		
	UNITS	CC-1.5	RDL	QC Batch	CC-1.5 Lab-Dup	RDL	QC Batch	YUK-5.0	RDL	QC Batch
Total Thallium (Tl)	ug/L	0.0228	0.0020	8943350	0.0194	0.0020	8943350	<0.0020	0.0020	8943350
Total Tin (Sn)	ug/L	<0.20	0.20	8943350	<0.20	0.20	8943350	<0.20	0.20	8943350
Total Titanium (Ti)	ug/L	68.6 (1)	2.0	8943350	50.2 (2)	2.0	8943350	<2.0	2.0	8943350
Total Uranium (U)	ug/L	23.0	0.0050	8943350	22.7	0.0050	8943350	1.30	0.0050	8943350
Total Vanadium (V)	ug/L	4.11	0.20	8943350	3.61	0.20	8943350	<0.20	0.20	8943350
Total Zinc (Zn)	ug/L	6.6	1.0	8943350	5.5	1.0	8943350	3.9	1.0	8943350
Total Zirconium (Zr)	ug/L	0.32	0.10	8943350	0.31	0.10	8943350	<0.10	0.10	8943350
Total Calcium (Ca)	mg/L	78.0	0.25	8942111				29.1	0.25	8942111
Total Magnesium (Mg)	mg/L	20.9	0.25	8942111				7.71	0.25	8942111
Total Potassium (K)	mg/L	4.67	0.25	8942111				0.83	0.25	8942111
Total Sodium (Na)	mg/L	6.39	0.25	8942111				1.93	0.25	8942111
Total Sulphur (S)	mg/L	53.3	3.0	8942111				7.4	3.0	8942111

RDL = Reportable Detection Limit

Lab-Dup = Laboratory Initiated Duplicate

(1) Duplicate RPD for Titanium above control limit - Non-homogenous sample - Increased variability of results. Re-analysis yields similar results.

(2) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

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LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TD7451	TD7452		
Sampling Date					
COC Number		548606-02-01	548606-02-01		
	UNITS	HC-B	BLACKHILLS	RDL	QC Batch
Calculated Parameters					
Total Hardness (CaCO3)	mg/L	237	283	0.50	8941266
Elements					
Total Mercury (Hg)	ug/L	0.0051	<0.0020	0.0020	8942323
Total Metals by ICPMS					
Total Aluminum (Al)	ug/L	32.7	306	3.0	8943350
Total Antimony (Sb)	ug/L	0.205	0.135	0.020	8943350
Total Arsenic (As)	ug/L	0.953	2.97	0.020	8943350
Total Barium (Ba)	ug/L	56.0	248	0.050	8943350
Total Beryllium (Be)	ug/L	<0.010	0.081	0.010	8943350
Total Bismuth (Bi)	ug/L	<0.010	<0.010	0.010	8943350
Total Boron (B)	ug/L	<10	11	10	8943350
Total Cadmium (Cd)	ug/L	0.0317	0.145	0.0050	8943350
Total Chromium (Cr)	ug/L	0.24	2.05	0.10	8943350
Total Cobalt (Co)	ug/L	0.108	2.73	0.010	8943350
Total Copper (Cu)	ug/L	1.40	1.10	0.10	8943350
Total Iron (Fe)	ug/L	37.1	11300	5.0	8943350
Total Lead (Pb)	ug/L	0.042	0.289	0.020	8943350
Total Lithium (Li)	ug/L	0.93	2.56	0.50	8943350
Total Manganese (Mn)	ug/L	63.4	2360	0.10	8943350
Total Molybdenum (Mo)	ug/L	0.389	0.545	0.050	8943350
Total Nickel (Ni)	ug/L	0.75	3.47	0.10	8943350
Total Phosphorus (P)	ug/L	38.9	81.0	5.0	8943350
Total Selenium (Se)	ug/L	0.067	0.205	0.040	8943350
Total Silicon (Si)	ug/L	7320	9850	50	8943350
Total Silver (Ag)	ug/L	<0.010	<0.010	0.010	8943350
Total Strontium (Sr)	ug/L	522	380	0.050	8943350
Total Thallium (Tl)	ug/L	0.0023	0.0024	0.0020	8943350
Total Tin (Sn)	ug/L	<0.20	<0.20	0.20	8943350
Total Titanium (Ti)	ug/L	<2.0	19.7	2.0	8943350
Total Uranium (U)	ug/L	36.7	0.711	0.0050	8943350
Total Vanadium (V)	ug/L	<0.20	4.26	0.20	8943350
Total Zinc (Zn)	ug/L	3.6	8.0	1.0	8943350
RDL = Reportable Detection Limit					

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LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TD7451	TD7452		
Sampling Date					
COC Number		548606-02-01	548606-02-01		
	UNITS	HC-B	BLACKHILLS	RDL	QC Batch
Total Zirconium (Zr)	ug/L	0.29	1.29	0.10	8943350
Total Calcium (Ca)	mg/L	57.0	79.6	0.25	8942111
Total Magnesium (Mg)	mg/L	22.9	20.4	0.25	8942111
Total Potassium (K)	mg/L	3.22	2.42	0.25	8942111
Total Sodium (Na)	mg/L	9.01	6.28	0.25	8942111
Total Sulphur (S)	mg/L	51.3	24.7	3.0	8942111
RDL = Reportable Detection Limit					

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LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
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GENERAL COMMENTS

Sample TD7440 [CC-0.5] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample received past method specified hold time for Nitrate+Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level). Sample received past method specified hold time for Nitrite (N) (low level).

Sample TD7441 [CC-1.5] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample received past method specified hold time for Nitrate+Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level). Sample received past method specified hold time for Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.}

Sample TD7442 [CC-4.5] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample received past method specified hold time for Nitrate+Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level). Sample received past method specified hold time for Nitrite (N) (low level).

Sample TD7443 [HC-2.5] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample received past method specified hold time for Nitrate+Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level). Sample received past method specified hold time for Nitrite (N) (low level).

Sample TD7444 [YUK-2.0] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample received past method specified hold time for Nitrate+Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level). Sample received past method specified hold time for Nitrite (N) (low level).

Sample TD7445 [YUK-5.0] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample received past method specified hold time for Nitrate+Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level). Sample received past method specified hold time for Nitrite (N) (low level).

Sample TD7446 [STEWART D/S M.M.] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample received past method specified hold time for Nitrate+Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level). Sample received past method specified hold time for Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.}

Sample TD7447 [LATTE MIX] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample received past method specified hold time for Nitrate+Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level). Sample received past method specified hold time for Nitrite (N) (low level).

Sample TD7448 [SAMPLE A] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample received past method specified hold time for Nitrate+Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level). Sample received past method specified hold time for Nitrite (N) (low level).

Sample TD7447, Elements by ICPMS Low Level (dissolved): Test repeated.

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8942323	Total Mercury (Hg)	2018/03/23	95	80 - 120	96	80 - 120	<0.0020	ug/L	NC	20
8942482	Dissolved Mercury (Hg)	2018/03/23	92	80 - 120	95	80 - 120	<0.0020	ug/L	NC	20
8942507	Dissolved Aluminum (Al)	2018/03/23	105	80 - 120	104	80 - 120	<0.50	ug/L	NC	20
8942507	Dissolved Antimony (Sb)	2018/03/23	93	80 - 120	90	80 - 120	<0.020	ug/L	NC	20
8942507	Dissolved Arsenic (As)	2018/03/23	106	80 - 120	101	80 - 120	<0.020	ug/L	NC	20
8942507	Dissolved Barium (Ba)	2018/03/23	NC	80 - 120	90	80 - 120	<0.020	ug/L	NC	20
8942507	Dissolved Beryllium (Be)	2018/03/23	98	80 - 120	96	80 - 120	<0.010	ug/L	NC	20
8942507	Dissolved Bismuth (Bi)	2018/03/23	87	80 - 120	89	80 - 120	<0.0050	ug/L	NC	20
8942507	Dissolved Boron (B)	2018/03/23	95	80 - 120	91	80 - 120	<10	ug/L	NC	20
8942507	Dissolved Cadmium (Cd)	2018/03/23	92	80 - 120	89	80 - 120	<0.0050	ug/L	NC	20
8942507	Dissolved Chromium (Cr)	2018/03/23	92	80 - 120	98	80 - 120	<0.10	ug/L	NC	20
8942507	Dissolved Cobalt (Co)	2018/03/23	92	80 - 120	101	80 - 120	<0.0050	ug/L	NC	20
8942507	Dissolved Copper (Cu)	2018/03/23	84	80 - 120	97	80 - 120	<0.050	ug/L	NC	20
8942507	Dissolved Iron (Fe)	2018/03/23	99	80 - 120	97	80 - 120	<1.0	ug/L	NC	20
8942507	Dissolved Lead (Pb)	2018/03/23	91	80 - 120	91	80 - 120	<0.0050	ug/L	NC	20
8942507	Dissolved Lithium (Li)	2018/03/23	99	80 - 120	94	80 - 120	<0.50	ug/L	NC	20
8942507	Dissolved Manganese (Mn)	2018/03/23	NC	80 - 120	103	80 - 120	<0.050	ug/L	NC	20
8942507	Dissolved Molybdenum (Mo)	2018/03/23	100	80 - 120	90	80 - 120	<0.050	ug/L	NC	20
8942507	Dissolved Nickel (Ni)	2018/03/23	88	80 - 120	99	80 - 120	<0.020	ug/L	NC	20
8942507	Dissolved Phosphorus (P)	2018/03/23	104	80 - 120	104	80 - 120	<2.0	ug/L	NC	20
8942507	Dissolved Selenium (Se)	2018/03/23	109	80 - 120	98	80 - 120	<0.040	ug/L	NC	20
8942507	Dissolved Silicon (Si)	2018/03/23	85	80 - 120	101	80 - 120	<50	ug/L	NC	20
8942507	Dissolved Silver (Ag)	2018/03/23	89	80 - 120	90	80 - 120	<0.0050	ug/L	NC	20
8942507	Dissolved Strontium (Sr)	2018/03/23	NC	80 - 120	104	80 - 120	<0.050	ug/L	NC	20
8942507	Dissolved Thallium (Tl)	2018/03/23	92	80 - 120	90	80 - 120	<0.0020	ug/L	NC	20
8942507	Dissolved Tin (Sn)	2018/03/23	91	80 - 120	89	80 - 120	<0.20	ug/L	NC	20
8942507	Dissolved Titanium (Ti)	2018/03/23	96	80 - 120	104	80 - 120	<0.50	ug/L	NC	20
8942507	Dissolved Uranium (U)	2018/03/23	94	80 - 120	89	80 - 120	<0.0020	ug/L	NC	20
8942507	Dissolved Vanadium (V)	2018/03/23	95	80 - 120	100	80 - 120	<0.20	ug/L	NC	20
8942507	Dissolved Zinc (Zn)	2018/03/23	91	80 - 120	99	80 - 120	<0.10	ug/L	NC	20
8942507	Dissolved Zirconium (Zr)	2018/03/23	105	80 - 120	101	80 - 120	<0.10	ug/L	NC	20

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QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8942818	Dissolved Mercury (Hg)	2018/03/23	91	80 - 120	94	80 - 120	<0.0020	ug/L		
8942857	Dissolved Organic Carbon (C)	2018/03/23	110	80 - 120	116	80 - 120	<0.50	mg/L	NC	20
8942863	Total Organic Carbon (C)	2018/03/23	108	80 - 120	116	80 - 120	<0.50	mg/L	NC	20
8942930	ORP	2018/03/26							0	20
8942943	Total Dissolved Solids	2018/03/26	NC	80 - 120	96	80 - 120	<10	mg/L	NC	20
8943141	Total Ammonia (N)	2018/03/23	NC	80 - 120	103	80 - 120	<0.0050	mg/L	0.90	20
8943167	pH	2018/03/23			101	97 - 103			1.1	20
8943180	Conductivity	2018/03/23			100	80 - 120	<1.0	uS/cm	NC	20
8943183	Alkalinity (PP as CaCO3)	2018/03/23					<0.50	mg/L	NC	20
8943183	Alkalinity (Total as CaCO3)	2018/03/23			102	80 - 120	<0.50	mg/L	12	20
8943183	Bicarbonate (HCO3)	2018/03/23					<0.50	mg/L	12	20
8943183	Carbonate (CO3)	2018/03/23					<0.50	mg/L	NC	20
8943183	Hydroxide (OH)	2018/03/23					<0.50	mg/L	NC	20
8943233	Total Suspended Solids	2018/03/26			94	80 - 120	<1.0	mg/L		
8943350	Total Aluminum (Al)	2018/03/26	NC	80 - 120	103	80 - 120	<3.0	ug/L	28 (1)	20
8943350	Total Antimony (Sb)	2018/03/26	101	80 - 120	103	80 - 120	<0.020	ug/L	17	20
8943350	Total Arsenic (As)	2018/03/26	103	80 - 120	102	80 - 120	<0.020	ug/L	4.9	20
8943350	Total Barium (Ba)	2018/03/26	105	80 - 120	102	80 - 120	<0.050	ug/L	3.7	20
8943350	Total Beryllium (Be)	2018/03/26	89	80 - 120	90	80 - 120	<0.010	ug/L	5.7	20
8943350	Total Bismuth (Bi)	2018/03/26	96	80 - 120	100	80 - 120	<0.010	ug/L	16	20
8943350	Total Boron (B)	2018/03/26	92	80 - 120	92	80 - 120	<10	ug/L	NC	20
8943350	Total Cadmium (Cd)	2018/03/26	101	80 - 120	100	80 - 120	<0.0050	ug/L	7.0	20
8943350	Total Chromium (Cr)	2018/03/26	101	80 - 120	102	80 - 120	<0.10	ug/L	13	20
8943350	Total Cobalt (Co)	2018/03/26	95	80 - 120	98	80 - 120	<0.010	ug/L	11	20
8943350	Total Copper (Cu)	2018/03/26	95	80 - 120	99	80 - 120	<0.10	ug/L	3.8	20
8943350	Total Iron (Fe)	2018/03/26	NC	80 - 120	104	80 - 120	<5.0	ug/L	20	20
8943350	Total Lead (Pb)	2018/03/26	98	80 - 120	101	80 - 120	<0.020	ug/L	14	20
8943350	Total Lithium (Li)	2018/03/26	89	80 - 120	91	80 - 120	<0.50	ug/L	6.7	20
8943350	Total Manganese (Mn)	2018/03/26	NC	80 - 120	102	80 - 120	<0.10	ug/L	3.0	20
8943350	Total Molybdenum (Mo)	2018/03/26	105	80 - 120	104	80 - 120	<0.050	ug/L	3.4	20
8943350	Total Nickel (Ni)	2018/03/26	95	80 - 120	99	80 - 120	<0.10	ug/L	4.4	20

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QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8943350	Total Phosphorus (P)	2018/03/26	105	80 - 120	101	80 - 120	<5.0	ug/L	10	20
8943350	Total Selenium (Se)	2018/03/26	101	80 - 120	98	80 - 120	<0.040	ug/L	NC	20
8943350	Total Silicon (Si)	2018/03/26	NC	80 - 120	101	80 - 120	<50	ug/L	5.1	20
8943350	Total Silver (Ag)	2018/03/26	101	80 - 120	100	80 - 120	<0.010	ug/L	NC	20
8943350	Total Strontium (Sr)	2018/03/26	NC	80 - 120	102	80 - 120	<0.050	ug/L	0.68	20
8943350	Total Thallium (Tl)	2018/03/26	98	80 - 120	100	80 - 120	<0.0020	ug/L	16	20
8943350	Total Tin (Sn)	2018/03/26	98	80 - 120	100	80 - 120	<0.20	ug/L	NC	20
8943350	Total Titanium (Ti)	2018/03/26	NC	80 - 120	102	80 - 120	<2.0	ug/L	31 (1)	20
8943350	Total Uranium (U)	2018/03/26	102	80 - 120	102	80 - 120	<0.0050	ug/L	1.2	20
8943350	Total Vanadium (V)	2018/03/26	104	80 - 120	103	80 - 120	<0.20	ug/L	13	20
8943350	Total Zinc (Zn)	2018/03/26	96	80 - 120	101	80 - 120	<1.0	ug/L	18	20
8943350	Total Zirconium (Zr)	2018/03/26	88	80 - 120	99	80 - 120	<0.10	ug/L	2.0	20
8943402	Nitrate plus Nitrite (N)	2018/03/23	107	80 - 120	102	80 - 120	<0.0020	mg/L	NC	25
8943403	Nitrite (N)	2018/03/23	104	80 - 120	99	80 - 120	<0.0020	mg/L	NC	25
8944150	Dissolved Chloride (Cl)	2018/03/23			101	80 - 120	<0.50	mg/L	NC	20
8944154	Dissolved Sulphate (SO4)	2018/03/23			98	80 - 120	<0.50	mg/L	NC	20
8944167	Dissolved Chloride (Cl)	2018/03/23	NC	80 - 120	96	80 - 120	<0.50	mg/L	0.24	20
8944170	Dissolved Sulphate (SO4)	2018/03/23	NC	80 - 120	93	80 - 120	<0.50	mg/L	1.4	20
8944186	Total Aluminum (Al)	2018/03/26	103	80 - 120	120	80 - 120	<0.50	ug/L	0.51	20
8944186	Total Antimony (Sb)	2018/03/26	96	80 - 120	107	80 - 120	<0.020	ug/L	0.19	20
8944186	Total Arsenic (As)	2018/03/26	104	80 - 120	97	80 - 120	<0.020	ug/L	4.4	20
8944186	Total Barium (Ba)	2018/03/26	77 (1)	80 - 120	103	80 - 120	<0.020	ug/L	4.8	20
8944186	Total Beryllium (Be)	2018/03/26	92	80 - 120	104	80 - 120	<0.010	ug/L	NC	20
8944186	Total Bismuth (Bi)	2018/03/26	87	80 - 120	103	80 - 120	<0.0050	ug/L	NC	20
8944186	Total Boron (B)	2018/03/26	84	80 - 120	101	80 - 120	<10	ug/L	4.3	20
8944186	Total Cadmium (Cd)	2018/03/26	92	80 - 120	104	80 - 120	<0.0050	ug/L	NC	20
8944186	Total Chromium (Cr)	2018/03/26	95	80 - 120	96	80 - 120	<0.10	ug/L	2.8	20
8944186	Total Cobalt (Co)	2018/03/26	92	80 - 120	97	80 - 120	<0.0050	ug/L	8.3	20
8944186	Total Copper (Cu)	2018/03/26	85	80 - 120	94	80 - 120	<0.050	ug/L	2.9	20
8944186	Total Iron (Fe)	2018/03/26	104	80 - 120	101	80 - 120	<1.0	ug/L	7.4	20
8944186	Total Lead (Pb)	2018/03/26	90	80 - 120	104	80 - 120	<0.0050	ug/L	1.2	20

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LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8944186	Total Lithium (Li)	2018/03/26	92	80 - 120	102	80 - 120	<0.50	ug/L	2.0	20
8944186	Total Manganese (Mn)	2018/03/26	93	80 - 120	96	80 - 120	<0.050	ug/L	0.27	20
8944186	Total Molybdenum (Mo)	2018/03/26	96	80 - 120	103	80 - 120	<0.050	ug/L	3.2	20
8944186	Total Nickel (Ni)	2018/03/26	90	80 - 120	98	80 - 120	<0.020	ug/L	8.3	20
8944186	Total Phosphorus (P)	2018/03/26	100	80 - 120	96	80 - 120	<2.0	ug/L	17	20
8944186	Total Selenium (Se)	2018/03/26	113	80 - 120	106	80 - 120	<0.040	ug/L	14	20
8944186	Total Silicon (Si)	2018/03/26	NC	80 - 120	101	80 - 120	<50	ug/L	12	20
8944186	Total Silver (Ag)	2018/03/26	91	80 - 120	103	80 - 120	<0.0050	ug/L	NC	20
8944186	Total Strontium (Sr)	2018/03/26	NC	80 - 120	94	80 - 120	<0.050	ug/L	2.8	20
8944186	Total Thallium (Tl)	2018/03/26	90	80 - 120	102	80 - 120	<0.0020	ug/L	NC	20
8944186	Total Tin (Sn)	2018/03/26	94	80 - 120	104	80 - 120	<0.20	ug/L	NC	20
8944186	Total Titanium (Ti)	2018/03/26	97	80 - 120	97	80 - 120	<0.50	ug/L	NC	20
8944186	Total Uranium (U)	2018/03/26	93	80 - 120	104	80 - 120	<0.0020	ug/L	1.6	20
8944186	Total Vanadium (V)	2018/03/26	96	80 - 120	96	80 - 120	<0.20	ug/L	0.70	20
8944186	Total Zinc (Zn)	2018/03/26	92	80 - 120	98	80 - 120	<0.10	ug/L	4.5	20
8944186	Total Zirconium (Zr)	2018/03/26	104	80 - 120	94	80 - 120	<0.10	ug/L	NC	20
8944619	Total Suspended Solids	2018/03/27			100	80 - 120	<1.0	mg/L		
8945250	Dissolved Sulphate (SO4)	2018/03/26			102	80 - 120	<0.50	mg/L		
8945335	Weak Acid Dissoc. Cyanide (CN)	2018/03/27	99	80 - 120	103	80 - 120	<0.00050	mg/L	13	20
8946578	Dissolved Iron (Fe)	2018/03/28	95	80 - 120	104	80 - 120	<1.0	ug/L	0.61	20
8946578	Dissolved Selenium (Se)	2018/03/28	89	80 - 120	94	80 - 120	<0.040	ug/L	20	20

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

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

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

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

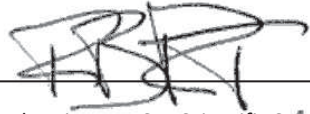
(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

Maxxam Job #: B821458
Report Date: 2018/03/29

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Rob Reinert, B.Sc., Scientific Spécialist

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

INVOICE TO:		Report Information		Project Information	
Company Name	#3604 LORAX ENVIRONMENTAL SERVICES LTD.	Company Name	David Flather	Quotation #	B40231
Contact Name	Aida Piaseczny	Contact Name	David Flather	P.O. #	
Address	2289 BURRARD STREET VANCOUVER BC V6J 3H9	Address		Project #	Gold Corp Coffee Creek-SW
Phone	(604) 688-7173 x Fax: (604) 688-7175 x	Phone		Project Name	
Email	aida.piaseczny@lorax.ca; shukling.ng@lorax.ca	Email	David.Flather@lorax.ca	Site #	
				Sampled By	



B821458_COC

Bottle Order #: 548606
Project Manager: Megan Smith

Regulatory Criteria	Special Instructions	Analysis Requested										Turnaround Time (TAT) Required		
		Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	Routine (Alk-LI, EC-LI, NH4-LI, pH, TDS)	TSS-Low Level	Anions (LI, Cl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	Please provide advance notice for rush projects	
<p>Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form</p> <p>Samples must be kept cool (< 10°C) from time of sampling until delivery to maxxam</p>													<p>Regular (Standard) TAT (will be applied if Rush TAT is not specified) Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.</p> <p>Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____ Rush Confirmation Number: _____ (call lab for #)</p>	

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	Routine (Alk-LI, EC-LI, NH4-LI, pH, TDS)	TSS-Low Level	Anions (LI, Cl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	# of Bottles	Comments
SID#149899	Stewart D/S M.M.	17/03/18	17:53	H2O	NM	/	/	/	/	/	/	/	/	/	/	13	RECEIVED IN WHITEHORSE
SID#149900	Latte Mix	17/03/18	14:30	H2O	NM	/	/	/	/	/	/	/	/	/	/	13	BY: <i>Styano@1100</i>
SID#149901	Sample A	17/03/18	14:45	H2O	NM	/	/	/	/	/	/	/	/	/	/	13	2018-03-21
SID#149902	Sample B																TEMP: -2 -2 -1 -1 -1 -1 -3 -3 -3
SID#149903	FIELD BLANK	20/03/18	10:00	H2O	NM	/	/	/	/	/	/	/	/	/	/	13	
SID#149904	TRIP BLANK	20/03/18	10:00	H2O	NM	/	/	/	/	/	/	/	/	/	/	13	
SID#094856																	

RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Lab Use Only		
<i>[Signature]</i>	18/03/21	11:00	<i>[Signature]</i>	20/03/22	14:40	N/A	Time Sensitive <input checked="" type="checkbox"/>	Temperature (°C) on Receipt: 4, 3, 3, 2, 3, 2, 2	Custody Seal Intact on Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<p>* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.</p> <p>* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.</p>							White: Maxxam	Yellow: Client	



Maxxam Analytics International Corporation o/a Maxxam Analytics
 4605 Canada Way, Burnaby, British Columbia Canada V5G 1K5 Tel: (604) 734 7276 Toll-free: 800-563-6266 Fax: (604) 731 2396 www.maxxam.ca

INVOICE TO:		Report Information		Project Information	
Company Name	#3604 LORAX ENVIRONMENTAL SERVICES LTD.	Company Name		Quotation #	B40231
Contact Name	Aida Piaseczny	Contact Name	David Flather	P.O. #	
Address	2289 BARRARD STREET VANCOUVER BC V6J 3H9	Address		Project #	Gold Corp Coffee Creek-SW
Phone	(604) 688-7173 x	Phone		Project Name	
Email	aida.piaseczny@lorax.ca; shukling.ng@lorax.ca	Email	David.Flather@lorax.ca	Site #	
				Sampled By	



B821458_COC

Bottle Order #:



548606

Project Manager

Megan Smith

Regulatory Criteria		Special Instructions		Analysis Requested										Turnaround Time (TAT) Required					
														Please provide advance notice for rush projects					
														Regular (Standard) TAT (will be applied if Rush TAT is not specified) Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.					
														Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____					
														Rush Confirmation Number _____ (call lab for #)					
Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form																			
Samples must be kept cool (< 10°C) from time of sampling until delivery to maxxam																			
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	Routine (Alk-LI, EC-LI, NH4-LI, pH, TDS)	TSS-Low Level	Anions (LL-Cl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	# of Bottles	Comments		
1 SID#162743	CC-0.5	17/03/18	14:45	H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	43.0	13			
2 SID#162744	CC-1.5	17/03/18	15:30	H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	131.8	13			
3 SID#162745	CC-3.5																Frozen to bed		
4 SID#162746	CC-4.5	17/03/18	13:20	H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	235.2	13			
5 SID#162747	CC-B																Frozen to bed		
6 SID#162748	HC-2.5	17/03/18	16:45	H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	172.4	13	RECEIVED IN WHITEHORSE BY: <i>[Signature]</i> @ 1100		
7 SID#149895	IC-4.5																		
8 SID#149896	YUK-2.0	17/03/18	12:30	H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓		13	2018-03-21 -2 -2 -1		
9 SID#149897	YUK-5.0	17/03/18	17:05	H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓		13	TEMP: -3 1 -3 1 -3		
10 SID#149898	Barker U/S S.R.																		
* RELINQUISHED BY: (Signature/Print)		Date: (YYMMDD)	Time	RECEIVED BY: (Signature/Print)				Date: (YYMMDD)	Time	# jars used and not submitted	Lab Use Only								
<i>[Signature]</i>		18/03/21	11:00	<i>[Signature]</i> KEVIN				20/03/22	14:40	NA	Time Sensitive <input checked="" type="checkbox"/>	Temperature (°C) on Receipt	Custody Seal Intact on Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		4,3,1,2,3,3,4,2				
* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.														White: Maxxam Yellow: Client					
* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.																			

Your Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

Attention: David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
2289 BURRARD STREET
VANCOUVER, BC
CANADA V6J 3H9

Your C.O.C. #: 551215-01-01, 551215-02-01, 551215-03-01, 551215-04-01

Report Date: 2018/05/04
Report #: R2549976
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B830387

Received: 2018/04/23, 11:00

Sample Matrix: Water
Samples Received: 22

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity - Low Level	2	2018/04/25	2018/04/25	BBY6SOP-00026	SM 22 2320 B m
Alkalinity - Low Level	14	2018/04/25	2018/04/26	BBY6SOP-00026	SM 22 2320 B m
Alkalinity - Low Level	6	2018/04/26	2018/04/26	BBY6SOP-00026	SM 22 2320 B m
Chloride - Low Level	21	N/A	2018/04/26	BBY6SOP-00011	SM 22 4500-Cl- E m
Chloride - Low Level	1	N/A	2018/05/02	BBY6SOP-00011	SM 22 4500-Cl- E m
Carbon (DOC) - field filtered/preserved (2)	21	N/A	2018/04/25	BBY6SOP-00003	SM 22 5310 C m
Carbon (DOC) - field filtered/preserved (2)	1	N/A	2018/05/03	BBY6SOP-00003	SM 22 5310 C m
Conductance - Low Level	1	2018/04/25	2018/04/25	BBY6SOP-00026	SM 22 2510 B m
Conductance - Low Level	15	2018/04/25	2018/04/26	BBY6SOP-00026	SM 22 2510 B m
Conductance - Low Level	6	2018/04/26	2018/04/26	BBY6SOP-00026	SM 22 2510 B m
Fluoride - Low Level	22	N/A	2018/04/27	BBY6SOP-00048	SM 22 4500-F C m
Hardness Total (calculated as CaCO3) (3)	13	N/A	2018/04/26	BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO3) (3)	9	N/A	2018/04/27	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3)	22	N/A	2018/04/26	BBY WI-00033	Auto Calc
Mercury (Dissolved) by CVAf	19	N/A	2018/04/27	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Dissolved) by CVAf	3	N/A	2018/04/30	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Total) by CVAf	1	2018/04/26	2018/04/26	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Total) by CVAf	19	2018/04/27	2018/04/27	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Total) by CVAf	2	2018/04/30	2018/04/30	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	22	N/A	2018/04/26	BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (dissolved)	19	N/A	2018/04/25	BBY7SOP-00002	EPA 6020b R2 m
Elements by ICPMS Low Level (dissolved)	3	N/A	2018/04/26	BBY7SOP-00002	EPA 6020b R2 m
Elements by ICPMS Digested LL (total)	3	2018/04/26	2018/04/26	BBY7SOP-00003,	EPA 6020b R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total)	13	N/A	2018/04/26	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (total)	9	N/A	2018/04/27	BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (total)	13	N/A	2018/04/26	BBY7SOP-00002	EPA 6020b R2 m
Elements by ICPMS Low Level (total)	6	N/A	2018/04/27	BBY7SOP-00002	EPA 6020b R2 m

Your Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

Attention: David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
2289 BURRARD STREET
VANCOUVER, BC
CANADA V6J 3H9

Your C.O.C. #: 551215-01-01, 551215-02-01, 551215-03-01, 551215-04-01

Report Date: 2018/05/04
Report #: R2549976
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B830387

Received: 2018/04/23, 11:00

Sample Matrix: Water
Samples Received: 22

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Ammonia-N Low Level (Preserved)	22	N/A	2018/04/27	BBY6SOP-00009	EPA 350.1 m
Nitrate+Nitrite (N) (low level)	20	N/A	2018/04/25	BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrate+Nitrite (N) (low level)	2	N/A	2018/04/29	BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrite (N) (low level)	20	N/A	2018/04/25	BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrite (N) (low level)	2	N/A	2018/04/29	BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrogen - Nitrate (as N) Low Level Calc	20	N/A	2018/04/27	BBY WI-00033	Auto Calc
Nitrogen - Nitrate (as N) Low Level Calc	2	N/A	2018/04/29	BBY WI-00033	Auto Calc
ORP Analysis on Water by ARD LAB	22	N/A	2018/04/26	BBY0SOP-00004	SM 22 2580 B
Filter and HNO3 Preserve for Metals	21	N/A	2018/04/25	BBY7 WI-00004	BCMOE Reqs 08/14
pH Water (4)	1	2018/04/25	2018/04/25	BBY6SOP-00026	SM 22 4500-H+ B m
pH Water (4)	15	2018/04/25	2018/04/26	BBY6SOP-00026	SM 22 4500-H+ B m
pH Water (4)	6	2018/04/26	2018/04/26	BBY6SOP-00026	SM 22 4500-H+ B m
Sulphate - Low Level	14	N/A	2018/04/26	BBY6SOP-00017	SM 22 4500-SO42- E m
Sulphate - Low Level	7	N/A	2018/04/30	BBY6SOP-00017	SM 22 4500-SO42- E m
Sulphate - Low Level	1	N/A	2018/05/02	BBY6SOP-00017	SM 22 4500-SO42- E m
Total Dissolved Solids (Filt. Residue)	9	2018/04/26	2018/04/27	BBY6SOP-00033	SM 22 2540 C m
Total Dissolved Solids (Filt. Residue)	11	2018/04/27	2018/04/30	BBY6SOP-00033	SM 22 2540 C m
Total Dissolved Solids (Filt. Residue)	2	2018/04/30	2018/05/01	BBY6SOP-00033	SM 22 2540 C m
Carbon (Total Organic) (5)	14	N/A	2018/04/25	BBY6SOP-00003	SM 22 5310 C m
Carbon (Total Organic) (5)	1	N/A	2018/04/30	BBY6SOP-00003	SM 22 5310 C m
Carbon (Total Organic) (5)	7	N/A	2018/05/03	BBY6SOP-00003	SM 22 5310 C m
Total Suspended Solids-Low Level	1	2018/04/26	2018/04/27	BBY6SOP-00034	SM 22 2540 D
Total Suspended Solids-Low Level	11	2018/04/27	2018/04/30	BBY6SOP-00034	SM 22 2540 D
Total Suspended Solids-Low Level	10	2018/04/28	2018/04/30	BBY6SOP-00034	SM 22 2540 D
WAD Cyanide Water Subcontract (1)	22	2018/05/03	2018/05/03		

Remarks:

Your Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

Attention: David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
2289 BURRARD STREET
VANCOUVER, BC
CANADA V6J 3H9

Your C.O.C. #: 551215-01-01, 551215-02-01, 551215-03-01, 551215-04-01

Report Date: 2018/05/04
Report #: R2549976
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B830387

Received: 2018/04/23, 11:00

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Maxxam's profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Maxxam in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected.

Maxxam Analytics' liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Maxxam has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Maxxam, unless otherwise agreed in writing.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

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

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

- (1) This test was performed by Maxxam Ontario (From Burnaby)
- (2) DOC present in the sample should be considered as non-purgeable DOC.
- (3) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).
- (4) The BC-MOE and APHA Standard Method require pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the BC-MOE/APHA Standard Method holding time.
- (5) TOC present in the sample should be considered as non-purgeable TOC.

Encryption Key



Diana Cruz
Junior Project Manager
04 May 2018 16:00:32

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Diana Cruz, Junior Project Manager

Email: DCruz@maxxam.ca

Phone# (604) 734 7276

=====
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total Cover Pages : 3

Page 3 of 57

Maxxam Job #: B830387
Report Date: 2018/05/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: LE

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TH8809			TH8809			TH8810		
Sampling Date		2018/04/21 10:30			2018/04/21 10:30			2018/04/21 12:35		
COC Number		551215-01-01			551215-01-01			551215-01-01		
	UNITS	CC-0.5	RDL	QC Batch	CC-0.5 Lab-Dup	RDL	QC Batch	CC-1.0	RDL	QC Batch
Parameter										
ORP	mV	256		8969275	256		8969275	257		8969275
Subcontract Parameter	N/A	ATTACHED	N/A	8977656				ATTACHED	N/A	8977656
Calculated Parameters										
Filter and HNO3 Preservation	N/A	LAB		8968765				LAB		8968765
Nitrate (N)	mg/L	0.0323	0.0020	8968311				0.380	0.0020	8968311
Misc. Inorganics										
Fluoride (F)	mg/L	0.230	0.010	8972276				0.098	0.010	8972276
Dissolved Organic Carbon (C)	mg/L	14.8	0.50	8969686				2.14	0.50	8969686
Alkalinity (Total as CaCO3)	mg/L	207	0.50	8969998				296	0.50	8969998
Total Organic Carbon (C)	mg/L	17.3	0.50	8969690				3.01	0.50	8969690
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	8969998				4.06	0.50	8969998
Bicarbonate (HCO3)	mg/L	253	0.50	8969998				351	0.50	8969998
Carbonate (CO3)	mg/L	<0.50	0.50	8969998				4.87	0.50	8969998
Hydroxide (OH)	mg/L	<0.50	0.50	8969998				<0.50	0.50	8969998
Anions										
Dissolved Sulphate (SO4)	mg/L	197	0.50	8971351				193	0.50	8971351
Dissolved Chloride (Cl)	mg/L	3.1	0.50	8971350				0.82	0.50	8971350
Nutrients										
Total Ammonia (N)	mg/L	0.036	0.0050	8972132				0.051	0.0050	8972132
Nitrate plus Nitrite (N)	mg/L	0.0323	0.0020	8969904				0.380	0.0020	8969904
Nitrite (N)	mg/L	<0.0020	0.0020	8969905				<0.0020	0.0020	8969905
Physical Properties										
Conductivity	uS/cm	784	1.0	8969999				953	1.0	8969999
pH	pH	8.29		8969995				8.36		8969995
Physical Properties										
Total Suspended Solids	mg/L	7.0 (1)	2.5	8969302				<1.0	1.0	8971852
Total Dissolved Solids	mg/L	508	10	8970511	534	10	8970511	592	10	8970511
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable (1) RDL raised due to sample matrix interference.										

Maxxam Job #: B830387
Report Date: 2018/05/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: LE

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TH8811		TH8812		TH8813		
Sampling Date		2018/04/21 13:05		2018/04/21 11:05		2018/04/22 11:40		
COC Number		551215-01-01		551215-01-01		551215-01-01		
	UNITS	CC-1.5	RDL	CC-3.5	QC Batch	CC-4.5	RDL	QC Batch
Parameter								
ORP	mV	258		259	8969275	261		8969275
Subcontract Parameter	N/A	ATTACHED	N/A	ATTACHED	8977656	ATTACHED	N/A	8977656
Calculated Parameters								
Filter and HNO3 Preservation	N/A	LAB		LAB	8968765	LAB		8968765
Nitrate (N)	mg/L	0.119	0.0020	<0.0020	8968311	0.760	0.0020	8968311
Misc. Inorganics								
Fluoride (F)	mg/L	0.120	0.010	0.160	8972276	0.055	0.010	8972276
Dissolved Organic Carbon (C)	mg/L	4.38	0.50	17.0	8969686	11.5 (1)	0.50	8978370
Alkalinity (Total as CaCO3)	mg/L	194	0.50	219	8969998	69.6	0.50	8971299
Total Organic Carbon (C)	mg/L	5.71	0.50	18.4	8969690	4.58	0.50	8978372
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	1.30	8969998	<0.50	0.50	8971299
Bicarbonate (HCO3)	mg/L	237	0.50	264	8969998	84.9	0.50	8971299
Carbonate (CO3)	mg/L	<0.50	0.50	1.56	8969998	<0.50	0.50	8971299
Hydroxide (OH)	mg/L	<0.50	0.50	<0.50	8969998	<0.50	0.50	8971299
Anions								
Dissolved Sulphate (SO4)	mg/L	193	0.50	65.0	8975460	74.7	0.50	8971355
Dissolved Chloride (Cl)	mg/L	0.63	0.50	2.0	8971350	1.2	0.50	8971354
Nutrients								
Total Ammonia (N)	mg/L	0.028	0.0050	0.035	8972132	0.010	0.0050	8972132
Nitrate plus Nitrite (N)	mg/L	0.119	0.0020	<0.0020	8969904	0.760	0.0020	8969904
Nitrite (N)	mg/L	<0.0020	0.0020	<0.0020	8969905	<0.0020	0.0020	8969905
Physical Properties								
Conductivity	uS/cm	710	1.0	521	8969999	319	1.0	8971300
pH	pH	8.23		8.33	8969995	7.72		8971293
Physical Properties								
Total Suspended Solids	mg/L	64.1 (2)	1.1	2.1	8971852	1.4	1.0	8971852
Total Dissolved Solids	mg/L	424	10	282	8970511	162	10	8970511
RDL = Reportable Detection Limit N/A = Not Applicable (1) Dissolved greater than total. Reanalysis yields similar results. (2) RDL raised due to limited initial sample amount.								

Maxxam Job #: B830387
Report Date: 2018/05/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: LE

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TH8813		TH8822			TH8823		
Sampling Date		2018/04/22 11:40		2018/04/21 13:30			2018/04/21 14:45		
COC Number		551215-01-01		551215-02-01			551215-02-01		
	UNITS	CC-4.5 Lab-Dup	QC Batch	CC-C	RDL	QC Batch	HC-2.5	RDL	QC Batch
Parameter									
ORP	mV			262		8969275	262		8969275
Subcontract Parameter	N/A			ATTACHED	N/A	8977656	ATTACHED	N/A	8977656
Calculated Parameters									
Filter and HNO3 Preservation	N/A			LAB		8968765	LAB		8968765
Nitrate (N)	mg/L			0.390	0.0020	8968311	0.318	0.0020	8968311
Misc. Inorganics									
Fluoride (F)	mg/L			0.094	0.010	8972276	0.065	0.010	8972276
Dissolved Organic Carbon (C)	mg/L			2.23	0.50	8969686	4.41	0.50	8969686
Alkalinity (Total as CaCO3)	mg/L			298	0.50	8969998	123	0.50	8971299
Total Organic Carbon (C)	mg/L			3.69	0.50	8969690	4.45	0.50	8969690
Alkalinity (PP as CaCO3)	mg/L			4.31	0.50	8969998	<0.50	0.50	8971299
Bicarbonate (HCO3)	mg/L			353	0.50	8969998	151	0.50	8971299
Carbonate (CO3)	mg/L			5.17	0.50	8969998	<0.50	0.50	8971299
Hydroxide (OH)	mg/L			<0.50	0.50	8969998	<0.50	0.50	8971299
Anions									
Dissolved Sulphate (SO4)	mg/L			270 (1)	5.0	8976714	91.8	0.50	8971355
Dissolved Chloride (Cl)	mg/L			0.78	0.50	8976713	0.83	0.50	8971354
Nutrients									
Total Ammonia (N)	mg/L			0.037	0.0050	8972132	0.022	0.0050	8972132
Nitrate plus Nitrite (N)	mg/L			0.390	0.0020	8969904	0.318	0.0020	8973073
Nitrite (N)	mg/L			<0.0020	0.0020	8969905	<0.0020	0.0020	8973074
Physical Properties									
Conductivity	uS/cm			952	1.0	8969999	429	1.0	8971300
pH	pH	7.72	8971293	8.36		8969995	7.96		8971293
Physical Properties									
Total Suspended Solids	mg/L			<1.1 (2)	1.1	8971852	<1.1 (2)	1.1	8971852
Total Dissolved Solids	mg/L			564	10	8970511	250	10	8970511
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable (1) Detection limits raised due to dilution to bring analyte within the calibrated range. (2) RDL raised due to limited initial sample amount.									

Maxxam Job #: B830387
Report Date: 2018/05/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: LE

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TH8823			TH8824		TH8825		
Sampling Date		2018/04/21 14:45			2018/04/21 16:50		2018/04/21 15:30		
COC Number		551215-02-01			551215-02-01		551215-02-01		
	UNITS	HC-2.5 Lab-Dup	RDL	QC Batch	HC-5.0	QC Batch	HC-B	RDL	QC Batch
Parameter									
ORP	mV				263	8969275	264		8969275
Subcontract Parameter	N/A				ATTACHED	8977656	ATTACHED	N/A	8977656
Calculated Parameters									
Filter and HNO3 Preservation	N/A				LAB	8968765	LAB		8968765
Nitrate (N)	mg/L				0.0032	8968311	0.0020	0.0020	8968311
Misc. Inorganics									
Fluoride (F)	mg/L				0.100	8972276	0.069	0.010	8972276
Dissolved Organic Carbon (C)	mg/L				16.9	8969686	8.67	0.50	8969686
Alkalinity (Total as CaCO3)	mg/L				155	8971299	137	0.50	8969998
Total Organic Carbon (C)	mg/L				17.2	8969690	9.08	0.50	8969690
Alkalinity (PP as CaCO3)	mg/L				<0.50	8971299	<0.50	0.50	8969998
Bicarbonate (HCO3)	mg/L				189	8971299	167	0.50	8969998
Carbonate (CO3)	mg/L				<0.50	8971299	<0.50	0.50	8969998
Hydroxide (OH)	mg/L				<0.50	8971299	<0.50	0.50	8969998
Anions									
Dissolved Sulphate (SO4)	mg/L	92.0	0.50	8971355	187	8971355	111	0.50	8971351
Dissolved Chloride (Cl)	mg/L	0.70	0.50	8971354	1.7	8971354	0.98	0.50	8971350
Nutrients									
Total Ammonia (N)	mg/L				0.050	8972132	0.040	0.0050	8972132
Nitrate plus Nitrite (N)	mg/L				0.0032	8969904	0.0020	0.0020	8969904
Nitrite (N)	mg/L				<0.0020	8969905	<0.0020	0.0020	8969905
Physical Properties									
Conductivity	uS/cm				687	8971300	473	1.0	8969999
pH	pH				8.11	8971293	8.17		8969995
Physical Properties									
Total Suspended Solids	mg/L				1.4	8971852	<1.0	1.0	8971852
Total Dissolved Solids	mg/L				410	8970511	298	10	8973657
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable									

Maxxam Job #: B830387
Report Date: 2018/05/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: LE

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TH8826			TH8827			TH8827	
Sampling Date		2018/04/22 14:15			2018/04/22 12:20			2018/04/22 12:20	
COC Number		551215-02-01			551215-02-01			551215-02-01	
	UNITS	IC-0.5	RDL	QC Batch	IC-1.5	RDL	QC Batch	IC-1.5 Lab-Dup	QC Batch
Parameter									
ORP	mV	265		8969275	264		8969275	264	8969275
Subcontract Parameter	N/A	ATTACHED	N/A	8977656	ATTACHED	N/A	8977656		
Calculated Parameters									
Filter and HNO3 Preservation	N/A	LAB		8968765	LAB		8968765		
Nitrate (N)	mg/L	0.0185	0.0020	8968311	0.0060	0.0020	8968311		
Misc. Inorganics									
Fluoride (F)	mg/L	0.460	0.010	8972276	0.084	0.010	8972276		
Dissolved Organic Carbon (C)	mg/L	16.4	0.50	8969686	7.31	0.50	8969686		
Alkalinity (Total as CaCO3)	mg/L	270	0.50	8969998	141	0.50	8971299		
Total Organic Carbon (C)	mg/L	19.2	0.50	8978372	8.07	0.50	8969690		
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	8969998	<0.50	0.50	8971299		
Bicarbonate (HCO3)	mg/L	330	0.50	8969998	172	0.50	8971299		
Carbonate (CO3)	mg/L	<0.50	0.50	8969998	<0.50	0.50	8971299		
Hydroxide (OH)	mg/L	<0.50	0.50	8969998	<0.50	0.50	8971299		
Anions									
Dissolved Sulphate (SO4)	mg/L	1030 (1)	5.0	8971351	85.8	0.50	8975460		
Dissolved Chloride (Cl)	mg/L	2.0	0.50	8971350	0.91	0.50	8971350		
Nutrients									
Total Ammonia (N)	mg/L	0.058	0.0050	8972132	0.029	0.0050	8972132		
Nitrate plus Nitrite (N)	mg/L	0.0185	0.0020	8969904	0.0060	0.0020	8969904		
Nitrite (N)	mg/L	<0.0020	0.0020	8969905	<0.0020	0.0020	8969905		
Physical Properties									
Conductivity	uS/cm	2080	1.0	8969999	439	1.0	8971300		
pH	pH	8.26		8969995	8.06		8971293		
Physical Properties									
Total Suspended Solids	mg/L	1.1	1.0	8971852	<1.0	1.0	8971852		
Total Dissolved Solids	mg/L	1740	10	8971286	248	10	8971286		
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable (1) Detection limits raised due to dilution to bring analyte within the calibrated range.									

Maxxam Job #: B830387
Report Date: 2018/05/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: LE

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TH8833			TH8833			TH8834		
Sampling Date		2018/04/22 14:40			2018/04/22 14:40			2018/04/21 18:20		
COC Number		551215-03-01			551215-03-01			551215-03-01		
	UNITS	IC-4.5	RDL	QC Batch	IC-4.5 Lab-Dup	RDL	QC Batch	YUK-2.0	RDL	QC Batch
Parameter										
ORP	mV	266		8969275				269		8969275
Subcontract Parameter	N/A	ATTACHED	N/A	8977656				ATTACHED	N/A	8977656
Calculated Parameters										
Filter and HNO3 Preservation	N/A	LAB		8968765				LAB		8968765
Nitrate (N)	mg/L	0.190	0.0020	8968311				0.0319	0.0020	8968311
Misc. Inorganics										
Fluoride (F)	mg/L	0.055	0.010	8972276				0.058	0.010	8972276
Dissolved Organic Carbon (C)	mg/L	4.07	0.50	8969686				0.69	0.50	8969686
Alkalinity (Total as CaCO3)	mg/L	66.1	0.50	8969992				35.1	0.50	8971299
Total Organic Carbon (C)	mg/L	7.84	0.50	8969690	7.86	0.50	8969690	1.23	0.50	8978372
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	8969992				<0.50	0.50	8971299
Bicarbonate (HCO3)	mg/L	80.6	0.50	8969992				42.8	0.50	8971299
Carbonate (CO3)	mg/L	<0.50	0.50	8969992				<0.50	0.50	8971299
Hydroxide (OH)	mg/L	<0.50	0.50	8969992				<0.50	0.50	8971299
Anions										
Dissolved Sulphate (SO4)	mg/L	60.0	0.50	8975460				9.89	0.50	8971355
Dissolved Chloride (Cl)	mg/L	1.0	0.50	8971336				0.73	0.50	8971354
Nutrients										
Total Ammonia (N)	mg/L	0.014	0.0050	8972132				0.017	0.0050	8972132
Nitrate plus Nitrite (N)	mg/L	0.190	0.0020	8973073				0.0319	0.0020	8969904
Nitrite (N)	mg/L	<0.0020	0.0020	8973074				<0.0020	0.0020	8969905
Physical Properties										
Conductivity	uS/cm	255	1.0	8969993				97.1	1.0	8971300
pH	pH	8.01		8969989				7.62		8971293
Physical Properties										
Total Suspended Solids	mg/L	1.8 (1)	1.0	8971851				2.4	1.0	8971851
Total Dissolved Solids	mg/L	144	10	8971286				78	10	8973657
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable (1) RDL raised due to limited initial sample amount.										

Maxxam Job #: B830387
Report Date: 2018/05/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: LE

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TH8834			TH8835			TH8836		
Sampling Date		2018/04/21 18:20			2018/04/22 15:10			2018/04/22 11:10		
COC Number		551215-03-01			551215-03-01			551215-03-01		
	UNITS	YUK-2.0 Lab-Dup	RDL	QC Batch	YUK-5.0	RDL	QC Batch	BALLARAT U/S Y.R.	RDL	QC Batch

Parameter										
ORP	mV				271		8969275	271		8969275
Subcontract Parameter	N/A				ATTACHED	N/A	8977656	ATTACHED	N/A	8977656

Calculated Parameters										
Filter and HNO3 Preservation	N/A				LAB		8968765	LAB		8968765
Nitrate (N)	mg/L				0.0648	0.0020	8968311	<0.0020	0.0020	8968311

Misc. Inorganics										
Fluoride (F)	mg/L				0.110	0.010	8972276	0.270	0.010	8972276
Dissolved Organic Carbon (C)	mg/L				<0.50	0.50	8969360	11.1	0.50	8969686
Alkalinity (Total as CaCO3)	mg/L				85.7	0.50	8969992	175	0.50	8971299
Total Organic Carbon (C)	mg/L				<0.50	0.50	8969690	11.4	0.50	8978372
Alkalinity (PP as CaCO3)	mg/L				<0.50	0.50	8969992	<0.50	0.50	8971299
Bicarbonate (HCO3)	mg/L				105	0.50	8969992	213	0.50	8971299
Carbonate (CO3)	mg/L				<0.50	0.50	8969992	<0.50	0.50	8971299
Hydroxide (OH)	mg/L				<0.50	0.50	8969992	<0.50	0.50	8971299

Anions										
Dissolved Sulphate (SO4)	mg/L				21.6	0.50	8975460	211 (1)	5.0	8971351
Dissolved Chloride (Cl)	mg/L				0.55	0.50	8971336	1.8	0.50	8971350

Nutrients										
Total Ammonia (N)	mg/L	0.017	0.0050	8972132	0.012	0.0050	8972134	0.038	0.0050	8972134
Nitrate plus Nitrite (N)	mg/L				0.0648	0.0020	8969900	<0.0020	0.0020	8969904
Nitrite (N)	mg/L				<0.0020	0.0020	8969902	<0.0020	0.0020	8969905

Physical Properties										
Conductivity	uS/cm				209	1.0	8969993	826	1.0	8971300
pH	pH				8.08		8969989	8.17		8971293

Physical Properties										
Total Suspended Solids	mg/L				<1.0	1.0	8971851	<1.0	1.0	8971851
Total Dissolved Solids	mg/L				106	10	8971286	510	10	8971286

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable
(1) Detection limits raised due to dilution to bring analyte within the calibrated range.

Maxxam Job #: B830387
Report Date: 2018/05/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: LE

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TH8837		TH8838		TH8839		
Sampling Date		2018/04/22 16:35		2018/04/22 16:20		2018/04/21 17:45		
COC Number		551215-03-01		551215-03-01		551215-03-01		
	UNITS	BARKER U/S S.R.	RDL	STEWART D/S M.M.	QC Batch	LATTE MIX	RDL	QC Batch
Parameter								
ORP	mV	271		272	8969275	273		8969275
Subcontract Parameter	N/A	ATTACHED	N/A	ATTACHED	8977656	ATTACHED	N/A	8977656
Calculated Parameters								
Filter and HNO3 Preservation	N/A	LAB		LAB	8968765	LAB		8968765
Nitrate (N)	mg/L	0.0205	0.0020	0.129	8968311	0.0278	0.0020	8968311
Misc. Inorganics								
Fluoride (F)	mg/L	0.200	0.010	0.100	8972276	0.180	0.010	8972533
Dissolved Organic Carbon (C)	mg/L	18.5	0.50	1.38	8969686	14.3	0.50	8969686
Alkalinity (Total as CaCO3)	mg/L	195	0.50	129	8969992	178	0.50	8969992
Total Organic Carbon (C)	mg/L	19.6	0.50	1.69	8978372	12.6	0.50	8974234
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	<0.50	8969992	<0.50	0.50	8969992
Bicarbonate (HCO3)	mg/L	238	0.50	158	8969992	217	0.50	8969992
Carbonate (CO3)	mg/L	<0.50	0.50	<0.50	8969992	<0.50	0.50	8969992
Hydroxide (OH)	mg/L	<0.50	0.50	<0.50	8969992	<0.50	0.50	8969992
Anions								
Dissolved Sulphate (SO4)	mg/L	201 (1)	5.0	86.4	8971338	198	0.50	8975460
Dissolved Chloride (Cl)	mg/L	4.1	0.50	0.92	8971336	2.5	0.50	8971336
Nutrients								
Total Ammonia (N)	mg/L	0.034	0.0050	0.023	8972134	0.035	0.0050	8972134
Nitrate plus Nitrite (N)	mg/L	0.0205	0.0020	0.129	8969900	0.0278	0.0020	8969900
Nitrite (N)	mg/L	<0.0020	0.0020	<0.0020	8969902	<0.0020	0.0020	8969902
Physical Properties								
Conductivity	uS/cm	781	1.0	410	8969993	691	1.0	8969993
pH	pH	8.23		8.13	8969989	8.24		8969989
Physical Properties								
Total Suspended Solids	mg/L	1.6	1.0	1.0	8971851	<1.0	1.0	8971851
Total Dissolved Solids	mg/L	530	10	232	8971286	426	10	8970511
RDL = Reportable Detection Limit N/A = Not Applicable (1) Detection limits raised due to dilution to bring analyte within the calibrated range.								

Maxxam Job #: B830387
Report Date: 2018/05/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: LE

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TH8840			TH8840			TH8842		
Sampling Date		2018/04/22			2018/04/22			2018/04/22 18:00		
COC Number		551215-03-01			551215-03-01			551215-04-01		
	UNITS	SAMPLE A	RDL	QC Batch	SAMPLE A Lab-Dup	RDL	QC Batch	FIELD BLANK	RDL	QC Batch
Parameter										
ORP	mV	273		8969275				270		8969275
Subcontract Parameter	N/A	ATTACHED	N/A	8977656				ATTACHED	N/A	8977656
Calculated Parameters										
Filter and HNO3 Preservation	N/A	LAB		8968765				LAB		8968765
Nitrate (N)	mg/L	0.0046	0.0020	8968311				<0.0020	0.0020	8968311
Misc. Inorganics										
Fluoride (F)	mg/L	0.082	0.010	8972533	0.080	0.010	8972533	<0.010	0.010	8972533
Dissolved Organic Carbon (C)	mg/L	7.90	0.50	8969686				<0.50	0.50	8969687
Alkalinity (Total as CaCO3)	mg/L	146	0.50	8969992				0.62	0.50	8969976
Total Organic Carbon (C)	mg/L	7.30	0.50	8969690				<0.50	0.50	8978372
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	8969992				<0.50	0.50	8969976
Bicarbonate (HCO3)	mg/L	178	0.50	8969992				0.76	0.50	8969976
Carbonate (CO3)	mg/L	<0.50	0.50	8969992				<0.50	0.50	8969976
Hydroxide (OH)	mg/L	<0.50	0.50	8969992				<0.50	0.50	8969976
Anions										
Dissolved Sulphate (SO4)	mg/L	86.6	0.50	8975460				<0.50	0.50	8971338
Dissolved Chloride (Cl)	mg/L	1.0	0.50	8971336				<0.50	0.50	8971336
Nutrients										
Total Ammonia (N)	mg/L	0.029	0.0050	8972134				<0.0050	0.0050	8972134
Nitrate plus Nitrite (N)	mg/L	0.0046	0.0020	8969904				<0.0020	0.0020	8969904
Nitrite (N)	mg/L	<0.0020	0.0020	8969905				<0.0020	0.0020	8969905
Physical Properties										
Conductivity	uS/cm	441	1.0	8969993				<1.0	1.0	8969977
pH	pH	8.24		8969989				5.42		8969973
Physical Properties										
Total Suspended Solids	mg/L	1.1	1.0	8971851				<1.0	1.0	8971851
Total Dissolved Solids	mg/L	250	10	8971286				<10	10	8972133
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable										

Maxxam Job #: B830387
Report Date: 2018/05/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: LE

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TH8842			TH8843			TH8843		
Sampling Date		2018/04/22 18:00			2018/04/23 11:00			2018/04/23 11:00		
COC Number		551215-04-01			551215-04-01			551215-04-01		
	UNITS	FIELD BLANK Lab-Dup	RDL	QC Batch	TRIP BLANK	RDL	QC Batch	TRIP BLANK Lab-Dup	RDL	QC Batch
Parameter										
ORP	mV				278		8969275			
Subcontract Parameter	N/A				ATTACHED	N/A	8977656			
Calculated Parameters										
Nitrate (N)	mg/L				<0.0020	0.0020	8968311			
Misc. Inorganics										
Fluoride (F)	mg/L				0.012	0.010	8972533			
Dissolved Organic Carbon (C)	mg/L	<0.50	0.50	8969687	0.60	0.50	8969686	<0.50	0.50	8969686
Alkalinity (Total as CaCO3)	mg/L				<0.50	0.50	8969992			
Total Organic Carbon (C)	mg/L				0.86	0.50	8969690			
Alkalinity (PP as CaCO3)	mg/L				<0.50	0.50	8969992			
Bicarbonate (HCO3)	mg/L				<0.50	0.50	8969992			
Carbonate (CO3)	mg/L				<0.50	0.50	8969992			
Hydroxide (OH)	mg/L				<0.50	0.50	8969992			
Anions										
Dissolved Sulphate (SO4)	mg/L				<0.50	0.50	8971338			
Dissolved Chloride (Cl)	mg/L				<0.50	0.50	8971336			
Nutrients										
Total Ammonia (N)	mg/L				<0.0050	0.0050	8972134			
Nitrate plus Nitrite (N)	mg/L				<0.0020	0.0020	8969900			
Nitrite (N)	mg/L				<0.0020	0.0020	8969902			
Physical Properties										
Conductivity	uS/cm				1.6	1.0	8969993			
pH	pH				6.31		8969989			
Physical Properties										
Total Suspended Solids	mg/L				<1.0	1.0	8971851			
Total Dissolved Solids	mg/L				<10	10	8972133			
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable										

Maxxam Job #: B830387
Report Date: 2018/05/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: LE

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TH8844			TH8844		
Sampling Date		2018/04/22			2018/04/22		
COC Number		551215-04-01			551215-04-01		
	UNITS	BLACK HILLS	RDL	QC Batch	BLACK HILLS Lab-Dup	RDL	QC Batch
Parameter							
ORP	mV	279		8969275	279		8969275
Subcontract Parameter	N/A	ATTACHED	N/A	8977656			
Calculated Parameters							
Filter and HNO3 Preservation	N/A	LAB		8968765			
Nitrate (N)	mg/L	0.0356	0.0020	8968311			
Misc. Inorganics							
Fluoride (F)	mg/L	0.190	0.010	8972533			
Dissolved Organic Carbon (C)	mg/L	11.1	0.50	8969686			
Alkalinity (Total as CaCO3)	mg/L	169	0.50	8969992			
Total Organic Carbon (C)	mg/L	12.3	0.50	8969690			
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	8969992			
Bicarbonate (HCO3)	mg/L	206	0.50	8969992			
Carbonate (CO3)	mg/L	<0.50	0.50	8969992			
Hydroxide (OH)	mg/L	<0.50	0.50	8969992			
Anions							
Dissolved Sulphate (SO4)	mg/L	155	0.50	8971338			
Dissolved Chloride (Cl)	mg/L	2.3	0.50	8971336			
Nutrients							
Total Ammonia (N)	mg/L	0.030	0.0050	8972134	0.034	0.0050	8972134
Nitrate plus Nitrite (N)	mg/L	0.0356	0.0020	8969900			
Nitrite (N)	mg/L	<0.0020	0.0020	8969902			
Physical Properties							
Conductivity	uS/cm	620	1.0	8969993			
pH	pH	8.25		8969989			
Physical Properties							
Total Suspended Solids	mg/L	2.6	1.0	8971851			
Total Dissolved Solids	mg/L	376	10	8971286			
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable							

Maxxam Job #: B830387
Report Date: 2018/05/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: LE

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TH8809			TH8809			TH8810		
Sampling Date		2018/04/21 10:30			2018/04/21 10:30			2018/04/21 12:35		
COC Number		551215-01-01			551215-01-01			551215-01-01		
	UNITS	CC-0.5	RDL	QC Batch	CC-0.5 Lab-Dup	RDL	QC Batch	CC-1.0	RDL	QC Batch

Calculated Parameters

Dissolved Hardness (CaCO3)	mg/L	404	0.50	8968004				565	0.50	8968004
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Elements

Dissolved Mercury (Hg)	ug/L	0.0024	0.0020	8971845	0.0025	0.0020	8971845	<0.0020	0.0020	8971845
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Dissolved Metals by ICPMS

Dissolved Aluminum (Al)	ug/L	20.4	0.50	8969377	21.6	0.50	8969377	2.84	0.50	8969377
Dissolved Antimony (Sb)	ug/L	0.113	0.020	8969377	0.110	0.020	8969377	0.140	0.020	8969377
Dissolved Arsenic (As)	ug/L	1.03	0.020	8969377	1.01	0.020	8969377	1.11	0.020	8969377
Dissolved Barium (Ba)	ug/L	121	0.020	8969377	121	0.020	8969377	111	0.020	8969377
Dissolved Beryllium (Be)	ug/L	<0.010	0.010	8969377	0.011	0.010	8969377	<0.010	0.010	8969377
Dissolved Bismuth (Bi)	ug/L	<0.0050	0.0050	8969377	<0.0050	0.0050	8969377	<0.0050	0.0050	8969377
Dissolved Boron (B)	ug/L	<10	10	8969377	<10	10	8969377	<10	10	8969377
Dissolved Cadmium (Cd)	ug/L	0.0398	0.0050	8969377	0.0388	0.0050	8969377	<0.0050	0.0050	8969377
Dissolved Chromium (Cr)	ug/L	0.16	0.10	8969377	0.17	0.10	8969377	<0.10	0.10	8969377
Dissolved Cobalt (Co)	ug/L	0.423	0.0050	8969377	0.429	0.0050	8969377	0.0170	0.0050	8969377
Dissolved Copper (Cu)	ug/L	1.34	0.050	8969377	1.33	0.050	8969377	0.351	0.050	8969377
Dissolved Iron (Fe)	ug/L	75.2	1.0	8969377	75.3	1.0	8969377	1.6	1.0	8969377
Dissolved Lead (Pb)	ug/L	<0.0050	0.0050	8969377	<0.0050	0.0050	8969377	<0.0050	0.0050	8969377
Dissolved Lithium (Li)	ug/L	10.6	0.50	8969377	10.7	0.50	8969377	5.69	0.50	8969377
Dissolved Manganese (Mn)	ug/L	488	0.050	8969377	498	0.050	8969377	0.237	0.050	8969377
Dissolved Molybdenum (Mo)	ug/L	0.888	0.050	8969377	0.911	0.050	8969377	0.285	0.050	8969377
Dissolved Nickel (Ni)	ug/L	1.40	0.020	8969377	1.43	0.020	8969377	0.252	0.020	8969377
Dissolved Phosphorus (P)	ug/L	11.0	2.0	8969377	12.9	2.0	8969377	6.2	2.0	8969377
Dissolved Selenium (Se)	ug/L	0.169	0.040	8969377	0.174	0.040	8969377	0.427	0.040	8969377
Dissolved Silicon (Si)	ug/L	11200	50	8969377	11200	50	8969377	5790	50	8969377
Dissolved Silver (Ag)	ug/L	<0.0050	0.0050	8969377	<0.0050	0.0050	8969377	<0.0050	0.0050	8969377
Dissolved Strontium (Sr)	ug/L	543	0.050	8969377	554	0.050	8969377	1410	0.050	8969377
Dissolved Thallium (Tl)	ug/L	0.0037	0.0020	8969377	0.0042	0.0020	8969377	0.0021	0.0020	8969377
Dissolved Tin (Sn)	ug/L	<0.20	0.20	8969377	<0.20	0.20	8969377	<0.20	0.20	8969377
Dissolved Titanium (Ti)	ug/L	<0.50	0.50	8969377	<0.50	0.50	8969377	<0.50	0.50	8969377

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Maxxam Job #: B830387
Report Date: 2018/05/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: LE

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TH8809			TH8809			TH8810		
Sampling Date		2018/04/21 10:30			2018/04/21 10:30			2018/04/21 12:35		
COC Number		551215-01-01			551215-01-01			551215-01-01		
	UNITS	CC-0.5	RDL	QC Batch	CC-0.5 Lab-Dup	RDL	QC Batch	CC-1.0	RDL	QC Batch
Dissolved Uranium (U)	ug/L	176	0.0020	8969377	179	0.0020	8969377	34.8	0.0020	8969377
Dissolved Vanadium (V)	ug/L	0.29	0.20	8969377	0.32	0.20	8969377	<0.20	0.20	8969377
Dissolved Zinc (Zn)	ug/L	2.43	0.10	8969377	2.57	0.10	8969377	0.31	0.10	8969377
Dissolved Zirconium (Zr)	ug/L	0.31	0.10	8969377	0.33	0.10	8969377	<0.10	0.10	8969377
Dissolved Calcium (Ca)	mg/L	94.5	0.050	8968005				135	0.050	8968005
Dissolved Magnesium (Mg)	mg/L	40.9	0.050	8968005				55.0	0.050	8968005
Dissolved Potassium (K)	mg/L	4.47	0.050	8968005				6.43	0.050	8968005
Dissolved Sodium (Na)	mg/L	19.3	0.050	8968005				6.37	0.050	8968005
Dissolved Sulphur (S)	mg/L	77.2	3.0	8968005				93.0	3.0	8968005
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B830387
Report Date: 2018/05/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: LE

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TH8811	TH8812	TH8813	TH8822	TH8823	TH8824		
Sampling Date		2018/04/21 13:05	2018/04/21 11:05	2018/04/22 11:40	2018/04/21 13:30	2018/04/21 14:45	2018/04/21 16:50		
COC Number		551215-01-01	551215-01-01	551215-01-01	551215-02-01	551215-02-01	551215-02-01		
	UNITS	CC-1.5	CC-3.5	CC-4.5	CC-C	HC-2.5	HC-5.0	RDL	QC Batch

Calculated Parameters

Dissolved Hardness (CaCO3)	mg/L	386	261	157	551	232	356	0.50	8968004
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Elements

Dissolved Mercury (Hg)	ug/L	<0.0020	0.0036	0.0020	<0.0020	<0.0020	0.0026	0.0020	8971845
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Dissolved Metals by ICPMS

Dissolved Aluminum (Al)	ug/L	9.58	18.3	21.8	1.75	10.6	27.0	0.50	8969377
Dissolved Antimony (Sb)	ug/L	0.071	0.057	0.067	0.139	0.492	0.221	0.020	8969377
Dissolved Arsenic (As)	ug/L	2.08	0.380	0.234	1.09	0.622	0.975	0.020	8969377
Dissolved Barium (Ba)	ug/L	50.6	84.9	83.6	107	68.6	95.4	0.020	8969377
Dissolved Beryllium (Be)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	8969377
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8969377
Dissolved Boron (B)	ug/L	<10	<10	<10	<10	<10	<10	10	8969377
Dissolved Cadmium (Cd)	ug/L	0.0092	0.0249	0.0164	<0.0050	0.0130	0.0087	0.0050	8969377
Dissolved Chromium (Cr)	ug/L	<0.10	0.10	0.11	<0.10	0.11	0.17	0.10	8969377
Dissolved Cobalt (Co)	ug/L	0.0390	0.101	0.0250	0.0156	0.0278	0.0507	0.0050	8969377
Dissolved Copper (Cu)	ug/L	0.784	0.950	0.948	0.361	0.608	1.14	0.050	8969377
Dissolved Iron (Fe)	ug/L	4.2	19.3	5.3	1.6	5.4	12.9	1.0	8969377
Dissolved Lead (Pb)	ug/L	<0.0050	0.0081	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8969377
Dissolved Lithium (Li)	ug/L	3.72	3.86	0.55	5.53	1.27	2.25	0.50	8969377
Dissolved Manganese (Mn)	ug/L	27.7	54.6	0.663	0.474	4.51	7.91	0.050	8969377
Dissolved Molybdenum (Mo)	ug/L	0.292	1.11	0.421	0.293	1.67	0.489	0.050	8969377
Dissolved Nickel (Ni)	ug/L	0.442	0.614	0.610	0.251	0.276	0.769	0.020	8969377
Dissolved Phosphorus (P)	ug/L	4.3	13.2	2.6	3.4	5.8	13.9	2.0	8969377
Dissolved Selenium (Se)	ug/L	0.180	0.173	0.054	0.408	0.146	0.100	0.040	8969377
Dissolved Silicon (Si)	ug/L	5570	11100	4990	5550	6140	8000	50	8969377
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8969377
Dissolved Strontium (Sr)	ug/L	766	264	204	1360	548	758	0.050	8969377
Dissolved Thallium (Tl)	ug/L	0.0048	0.0023	<0.0020	0.0023	<0.0020	0.0024	0.0020	8969377
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	8969377
Dissolved Titanium (Ti)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	8969377
Dissolved Uranium (U)	ug/L	26.3	72.0	1.80	34.3	79.5	46.0	0.0020	8969377

RDL = Reportable Detection Limit

Maxxam Job #: B830387
Report Date: 2018/05/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: LE

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TH8811	TH8812	TH8813	TH8822	TH8823	TH8824		
Sampling Date		2018/04/21 13:05	2018/04/21 11:05	2018/04/22 11:40	2018/04/21 13:30	2018/04/21 14:45	2018/04/21 16:50		
COC Number		551215-01-01	551215-01-01	551215-01-01	551215-02-01	551215-02-01	551215-02-01		
	UNITS	CC-1.5	CC-3.5	CC-4.5	CC-C	HC-2.5	HC-5.0	RDL	QC Batch
Dissolved Vanadium (V)	ug/L	0.25	0.28	0.22	<0.20	0.30	0.26	0.20	8969377
Dissolved Zinc (Zn)	ug/L	0.45	2.78	0.38	0.41	0.93	0.87	0.10	8969377
Dissolved Zirconium (Zr)	ug/L	0.24	0.24	0.27	<0.10	0.17	0.31	0.10	8969377
Dissolved Calcium (Ca)	mg/L	98.8	65.6	38.8	133	54.1	84.5	0.050	8968005
Dissolved Magnesium (Mg)	mg/L	33.9	23.7	14.5	53.2	23.4	35.1	0.050	8968005
Dissolved Potassium (K)	mg/L	5.49	8.88	1.57	6.31	3.30	7.11	0.050	8968005
Dissolved Sodium (Na)	mg/L	7.03	11.6	5.10	6.16	5.79	12.7	0.050	8968005
Dissolved Sulphur (S)	mg/L	68.0	22.7	28.8	89.0	34.9	71.2	3.0	8968005
RDL = Reportable Detection Limit									

Maxxam Job #: B830387
Report Date: 2018/05/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: LE

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TH8825		TH8826		TH8827	TH8833	TH8834		
Sampling Date		2018/04/21 15:30		2018/04/22 14:15		2018/04/22 12:20	2018/04/22 14:40	2018/04/21 18:20		
COC Number		551215-02-01		551215-02-01		551215-02-01	551215-03-01	551215-03-01		
	UNITS	HC-B	RDL	IC-0.5	RDL	IC-1.5	IC-4.5	YUK-2.0	RDL	QC Batch

Calculated Parameters

Dissolved Hardness (CaCO3)	mg/L	248	0.50	1370	0.50	211	121	43.8	0.50	8968004
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Elements

Dissolved Mercury (Hg)	ug/L	0.0022	0.0020	0.0026	0.0020	0.0021	<0.0020	<0.0020	0.0020	8971845
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Dissolved Metals by ICPMS

Dissolved Aluminum (Al)	ug/L	16.0	0.50	21.2	2.5	23.5	19.1	0.85	0.50	8969377
Dissolved Antimony (Sb)	ug/L	0.262	0.020	0.12	0.10	0.061	0.067	0.055	0.020	8969377
Dissolved Arsenic (As)	ug/L	0.686	0.020	1.38	0.10	0.270	0.329	0.153	0.020	8969377
Dissolved Barium (Ba)	ug/L	63.0	0.020	67.7	0.10	70.1	57.3	19.5	0.020	8969377
Dissolved Beryllium (Be)	ug/L	<0.010	0.010	<0.050	0.050	<0.010	0.011	<0.010	0.010	8969377
Dissolved Bismuth (Bi)	ug/L	<0.0050	0.0050	<0.025	0.025	<0.0050	<0.0050	<0.0050	0.0050	8969377
Dissolved Boron (B)	ug/L	<10	10	<50	50	<10	<10	<10	10	8969377
Dissolved Cadmium (Cd)	ug/L	0.0059	0.0050	0.091	0.025	0.0116	0.0280	0.0247	0.0050	8969377
Dissolved Chromium (Cr)	ug/L	0.11	0.10	<0.50	0.50	<0.10	0.15	<0.10	0.10	8969377
Dissolved Cobalt (Co)	ug/L	0.0353	0.0050	0.285	0.025	0.0446	0.0877	0.0325	0.0050	8969377
Dissolved Copper (Cu)	ug/L	0.694	0.050	1.37	0.25	0.565	1.11	0.332	0.050	8969377
Dissolved Iron (Fe)	ug/L	6.7	1.0	19.9	5.0	10.3	12.9	1.9	1.0	8969377
Dissolved Lead (Pb)	ug/L	<0.0050	0.0050	<0.025	0.025	<0.0050	<0.0050	<0.0050	0.0050	8969377
Dissolved Lithium (Li)	ug/L	1.98	0.50	32.4	2.5	3.41	0.81	0.57	0.50	8969377
Dissolved Manganese (Mn)	ug/L	7.25	0.050	119	0.25	17.3	68.5	9.26	0.050	8969377
Dissolved Molybdenum (Mo)	ug/L	0.591	0.050	1.21	0.25	0.509	0.165	0.515	0.050	8969377
Dissolved Nickel (Ni)	ug/L	0.415	0.020	2.30	0.10	0.408	0.777	0.439	0.020	8969377
Dissolved Phosphorus (P)	ug/L	4.8	2.0	10	10	7.0	6.8	<2.0	2.0	8969377
Dissolved Selenium (Se)	ug/L	0.066	0.040	3.21	0.20	0.129	0.062	0.123	0.040	8969377
Dissolved Silicon (Si)	ug/L	6150	50	10600	250	8770	4950	1090	50	8969377
Dissolved Silver (Ag)	ug/L	<0.0050	0.0050	<0.025	0.025	<0.0050	<0.0050	<0.0050	0.0050	8969377
Dissolved Strontium (Sr)	ug/L	529	0.050	712	0.25	319	175	55.4	0.050	8969377
Dissolved Thallium (Tl)	ug/L	<0.0020	0.0020	<0.010	0.010	<0.0020	0.0031	<0.0020	0.0020	8969377
Dissolved Tin (Sn)	ug/L	<0.20	0.20	<1.0	1.0	<0.20	<0.20	<0.20	0.20	8969377
Dissolved Titanium (Ti)	ug/L	<0.50	0.50	<2.5	2.5	<0.50	<0.50	<0.50	0.50	8969377
Dissolved Uranium (U)	ug/L	60.9	0.0020	13.8	0.010	14.6	0.508	0.439	0.0020	8969377

RDL = Reportable Detection Limit

Maxxam Job #: B830387
Report Date: 2018/05/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: LE

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TH8825		TH8826		TH8827	TH8833	TH8834		
Sampling Date		2018/04/21 15:30		2018/04/22 14:15		2018/04/22 12:20	2018/04/22 14:40	2018/04/21 18:20		
COC Number		551215-02-01		551215-02-01		551215-02-01	551215-03-01	551215-03-01		
	UNITS	HC-B	RDL	IC-0.5	RDL	IC-1.5	IC-4.5	YUK-2.0	RDL	QC Batch
Dissolved Vanadium (V)	ug/L	0.20	0.20	<1.0	1.0	0.24	0.26	<0.20	0.20	8969377
Dissolved Zinc (Zn)	ug/L	0.85	0.10	5.08	0.50	0.94	2.19	1.72	0.10	8969377
Dissolved Zirconium (Zr)	ug/L	0.25	0.10	<0.50	0.50	0.15	0.34	<0.10	0.10	8969377
Dissolved Calcium (Ca)	mg/L	57.6	0.050	263	0.25	52.7	31.9	11.6	0.050	8968005
Dissolved Magnesium (Mg)	mg/L	25.2	0.050	173	0.25	19.3	10.1	3.58	0.050	8968005
Dissolved Potassium (K)	mg/L	3.09	0.050	8.17	0.25	3.23	1.78	0.398	0.050	8968005
Dissolved Sodium (Na)	mg/L	7.75	0.050	30.4	0.25	10.5	5.03	1.07	0.050	8968005
Dissolved Sulphur (S)	mg/L	39.8	3.0	386	15	28.2	21.0	3.5	3.0	8968005
RDL = Reportable Detection Limit										

Maxxam Job #: B830387
Report Date: 2018/05/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: LE

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TH8835		TH8836		TH8837		
Sampling Date		2018/04/22 15:10		2018/04/22 11:10		2018/04/22 16:35		
COC Number		551215-03-01		551215-03-01		551215-03-01		
	UNITS	YUK-5.0	QC Batch	BALLARAT U/S Y.R.	QC Batch	BARKER U/S S.R.	RDL	QC Batch

Calculated Parameters								
Dissolved Hardness (CaCO3)	mg/L	104	8968004	437	8968004	405	0.50	8968004
Elements								
Dissolved Mercury (Hg)	ug/L	<0.0020	8971845	0.0020	8971845	0.0029	0.0020	8971845
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	ug/L	1.38	8969377	8.58	8969377	16.4	0.50	8969377
Dissolved Antimony (Sb)	ug/L	0.089	8969377	0.029	8969377	0.057	0.020	8969377
Dissolved Arsenic (As)	ug/L	0.191	8969377	0.268	8969377	0.633	0.020	8969377
Dissolved Barium (Ba)	ug/L	77.4	8969377	58.0	8969377	79.8	0.020	8969377
Dissolved Beryllium (Be)	ug/L	<0.010	8969377	<0.010	8969377	<0.010	0.010	8969377
Dissolved Bismuth (Bi)	ug/L	<0.0050	8969377	<0.0050	8969377	<0.0050	0.0050	8969377
Dissolved Boron (B)	ug/L	<10	8969377	<10	8969377	11	10	8969377
Dissolved Cadmium (Cd)	ug/L	0.0214	8969377	0.0105	8969377	0.0181	0.0050	8969377
Dissolved Chromium (Cr)	ug/L	<0.10	8969377	<0.10	8969377	0.14	0.10	8969377
Dissolved Cobalt (Co)	ug/L	0.0217	8969377	0.0512	8969377	0.345	0.0050	8969377
Dissolved Copper (Cu)	ug/L	0.312	8969377	1.12	8969377	1.69	0.050	8969377
Dissolved Iron (Fe)	ug/L	13.0	8969377	11.8	8969377	62.6	1.0	8969377
Dissolved Lead (Pb)	ug/L	<0.0050	8969377	<0.0050	8969377	<0.0050	0.0050	8969377
Dissolved Lithium (Li)	ug/L	1.00	8969377	1.61	8969377	4.92	0.50	8969377
Dissolved Manganese (Mn)	ug/L	15.2	8969377	13.9	8969377	313	0.050	8969377
Dissolved Molybdenum (Mo)	ug/L	1.29	8969377	0.583	8969377	1.30	0.050	8969377
Dissolved Nickel (Ni)	ug/L	0.353	8969377	0.369	8969377	1.17	0.020	8969377
Dissolved Phosphorus (P)	ug/L	5.9	8969377	7.6	8969377	68.1	2.0	8969377
Dissolved Selenium (Se)	ug/L	0.352	8969377	0.218	8969377	0.378	0.040	8969377
Dissolved Silicon (Si)	ug/L	2570	8969377	6530	8969377	6630	50	8969377
Dissolved Silver (Ag)	ug/L	<0.0050	8969377	<0.0050	8969377	<0.0050	0.0050	8969377
Dissolved Strontium (Sr)	ug/L	124	8969377	782	8969377	593	0.050	8969377
Dissolved Thallium (Tl)	ug/L	<0.0020	8969377	<0.0020	8969377	<0.0020	0.0020	8969377
Dissolved Tin (Sn)	ug/L	<0.20	8969377	<0.20	8974168	<0.20	0.20	8969377
Dissolved Titanium (Ti)	ug/L	<0.50	8969377	<0.50	8969377	<0.50	0.50	8969377
Dissolved Uranium (U)	ug/L	1.19	8969377	4.58	8969377	7.53	0.0020	8969377
RDL = Reportable Detection Limit								

Maxxam Job #: B830387
Report Date: 2018/05/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: LE

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TH8835		TH8836		TH8837		
Sampling Date		2018/04/22 15:10		2018/04/22 11:10		2018/04/22 16:35		
COC Number		551215-03-01		551215-03-01		551215-03-01		
	UNITS	YUK-5.0	QC Batch	BALLARAT U/S Y.R.	QC Batch	BARKER U/S S.R.	RDL	QC Batch
Dissolved Vanadium (V)	ug/L	<0.20	8969377	0.21	8969377	0.52	0.20	8969377
Dissolved Zinc (Zn)	ug/L	1.88 (1)	8969377	0.94	8969377	1.55	0.10	8969377
Dissolved Zirconium (Zr)	ug/L	<0.10	8969377	0.11	8969377	0.19	0.10	8969377
Dissolved Calcium (Ca)	mg/L	28.0	8968005	96.9	8968005	88.5	0.050	8968005
Dissolved Magnesium (Mg)	mg/L	8.33	8968005	47.3	8968005	44.8	0.050	8968005
Dissolved Potassium (K)	mg/L	0.882	8968005	5.30	8968005	5.83	0.050	8968005
Dissolved Sodium (Na)	mg/L	2.10	8968005	14.3	8968005	20.6	0.050	8968005
Dissolved Sulphur (S)	mg/L	7.3	8968005	92.8	8968005	81.8	3.0	8968005

RDL = Reportable Detection Limit

(1) Dissolved greater than total. Reanalysis yields similar results.

Maxxam Job #: B830387
Report Date: 2018/05/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: LE

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TH8838	TH8839	TH8840		TH8842		
Sampling Date		2018/04/22 16:20	2018/04/21 17:45	2018/04/22		2018/04/22 18:00		
COC Number		551215-03-01	551215-03-01	551215-03-01		551215-04-01		
	UNITS	STEWART D/S M.M.	LATTE MIX	SAMPLE A	QC Batch	FIELD BLANK	RDL	QC Batch

Calculated Parameters								
Dissolved Hardness (CaCO3)	mg/L	213	364	215	8968004	<0.50	0.50	8968004
Elements								
Dissolved Mercury (Hg)	ug/L	<0.0020	0.0027	0.0026	8971845	<0.0020	0.0020	8973744
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	ug/L	2.65	18.4	25.6	8969377	<0.50	0.50	8969436
Dissolved Antimony (Sb)	ug/L	0.114	0.095	0.059	8969377	0.020	0.020	8969436
Dissolved Arsenic (As)	ug/L	0.280	0.882	0.260	8969377	<0.020	0.020	8969436
Dissolved Barium (Ba)	ug/L	77.0	105	72.7	8969377	<0.020	0.020	8969436
Dissolved Beryllium (Be)	ug/L	<0.010	<0.010	<0.010	8969377	<0.010	0.010	8969436
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	8969377	<0.0050	0.0050	8969436
Dissolved Boron (B)	ug/L	<10	<10	<10	8969377	<10	10	8969436
Dissolved Cadmium (Cd)	ug/L	0.0958	0.0318	0.0125	8969377	<0.0050	0.0050	8969436
Dissolved Chromium (Cr)	ug/L	<0.10	0.15	<0.10	8969377	<0.10	0.10	8969436
Dissolved Cobalt (Co)	ug/L	0.0193	0.342	0.0451	8969377	<0.0050	0.0050	8969436
Dissolved Copper (Cu)	ug/L	0.459	1.15	0.582	8969377	<0.050	0.050	8969436
Dissolved Iron (Fe)	ug/L	9.1	70.0	10.4	8969377	<1.0	1.0	8969436
Dissolved Lead (Pb)	ug/L	<0.0050	<0.0050	<0.0050	8969377	<0.0050	0.0050	8969436
Dissolved Lithium (Li)	ug/L	3.74	7.87	3.48	8969377	<0.50	0.50	8969436
Dissolved Manganese (Mn)	ug/L	9.23	392	17.5	8969377	<0.050	0.050	8969436
Dissolved Molybdenum (Mo)	ug/L	0.609	0.730	0.544	8969377	<0.050	0.050	8969436
Dissolved Nickel (Ni)	ug/L	2.22	1.18	0.438	8969377	<0.020	0.020	8969436
Dissolved Phosphorus (P)	ug/L	4.2	14.2	5.5	8969377	2.9	2.0	8969436
Dissolved Selenium (Se)	ug/L	0.784	0.167	0.131	8969377	<0.040	0.040	8969436
Dissolved Silicon (Si)	ug/L	2850	9370	8940	8969377	<50	50	8969436
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	8969377	<0.0050	0.0050	8969436
Dissolved Strontium (Sr)	ug/L	257	471	336	8969377	<0.050	0.050	8969436
Dissolved Thallium (Tl)	ug/L	<0.0020	0.0045	<0.0020	8969377	<0.0020	0.0020	8969436
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	<0.20	8969377	<0.20	0.20	8969436
Dissolved Titanium (Ti)	ug/L	<0.50	<0.50	<0.50	8969377	<0.50	0.50	8969436
Dissolved Uranium (U)	ug/L	1.36	129	14.9	8969377	<0.0020	0.0020	8969436

RDL = Reportable Detection Limit

Maxxam Job #: B830387
Report Date: 2018/05/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: LE

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TH8838	TH8839	TH8840		TH8842		
Sampling Date		2018/04/22 16:20	2018/04/21 17:45	2018/04/22		2018/04/22 18:00		
COC Number		551215-03-01	551215-03-01	551215-03-01		551215-04-01		
	UNITS	STEWART D/S M.M.	LATTE MIX	SAMPLE A	QC Batch	FIELD BLANK	RDL	QC Batch
Dissolved Vanadium (V)	ug/L	<0.20	0.32	0.22	8969377	<0.20	0.20	8969436
Dissolved Zinc (Zn)	ug/L	8.13	2.04	1.11	8969377	<0.10	0.10	8969436
Dissolved Zirconium (Zr)	ug/L	<0.10	0.25	0.16	8969377	<0.10	0.10	8969436
Dissolved Calcium (Ca)	mg/L	53.7	85.3	53.5	8968005	<0.050	0.050	8968005
Dissolved Magnesium (Mg)	mg/L	19.2	36.7	19.7	8968005	<0.050	0.050	8968005
Dissolved Potassium (K)	mg/L	0.824	4.08	3.30	8968005	<0.050	0.050	8968005
Dissolved Sodium (Na)	mg/L	3.27	16.6	10.8	8968005	<0.050	0.050	8968005
Dissolved Sulphur (S)	mg/L	30.0	71.8	29.1	8968005	<3.0	3.0	8968005
RDL = Reportable Detection Limit								

Maxxam Job #: B830387
Report Date: 2018/05/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: LE

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TH8842			TH8843			TH8843		
Sampling Date		2018/04/22 18:00			2018/04/23 11:00			2018/04/23 11:00		
COC Number		551215-04-01			551215-04-01			551215-04-01		
	UNITS	FIELD BLANK Lab-Dup	RDL	QC Batch	TRIP BLANK	RDL	QC Batch	TRIP BLANK Lab-Dup	RDL	QC Batch

Calculated Parameters

Dissolved Hardness (CaCO3)	mg/L				<0.50	0.50	8968004			
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Elements

Dissolved Mercury (Hg)	ug/L				<0.0020	0.0020	8973744	<0.0020	0.0020	8973744
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Dissolved Metals by ICPMS

Dissolved Aluminum (Al)	ug/L	<0.50	0.50	8969436	<0.50	0.50	8969436	<0.50	0.50	8969436
Dissolved Antimony (Sb)	ug/L	<0.020	0.020	8969436	<0.020	0.020	8969436	<0.020	0.020	8969436
Dissolved Arsenic (As)	ug/L	<0.020	0.020	8969436	<0.020	0.020	8969436	<0.020	0.020	8969436
Dissolved Barium (Ba)	ug/L	<0.020	0.020	8969436	<0.020	0.020	8969436	<0.020	0.020	8969436
Dissolved Beryllium (Be)	ug/L	<0.010	0.010	8969436	<0.010	0.010	8969436	<0.010	0.010	8969436
Dissolved Bismuth (Bi)	ug/L	<0.0050	0.0050	8969436	<0.0050	0.0050	8969436	<0.0050	0.0050	8969436
Dissolved Boron (B)	ug/L	<10	10	8969436	<10	10	8969436	<10	10	8969436
Dissolved Cadmium (Cd)	ug/L	<0.0050	0.0050	8969436	<0.0050	0.0050	8969436	<0.0050	0.0050	8969436
Dissolved Chromium (Cr)	ug/L	<0.10	0.10	8969436	<0.10	0.10	8969436	<0.10	0.10	8969436
Dissolved Cobalt (Co)	ug/L	<0.0050	0.0050	8969436	<0.0050	0.0050	8969436	<0.0050	0.0050	8969436
Dissolved Copper (Cu)	ug/L	<0.050	0.050	8969436	<0.050	0.050	8969436	<0.050	0.050	8969436
Dissolved Iron (Fe)	ug/L	<1.0	1.0	8969436	<1.0	1.0	8969436	<1.0	1.0	8969436
Dissolved Lead (Pb)	ug/L	<0.0050	0.0050	8969436	<0.0050	0.0050	8969436	<0.0050	0.0050	8969436
Dissolved Lithium (Li)	ug/L	<0.50	0.50	8969436	<0.50	0.50	8969436	<0.50	0.50	8969436
Dissolved Manganese (Mn)	ug/L	<0.050	0.050	8969436	<0.050	0.050	8969436	<0.050	0.050	8969436
Dissolved Molybdenum (Mo)	ug/L	<0.050	0.050	8969436	<0.050	0.050	8969436	<0.050	0.050	8969436
Dissolved Nickel (Ni)	ug/L	<0.020	0.020	8969436	<0.020	0.020	8969436	<0.020	0.020	8969436
Dissolved Phosphorus (P)	ug/L	<2.0	2.0	8969436	<2.0	2.0	8969436	<2.0	2.0	8969436
Dissolved Selenium (Se)	ug/L	<0.040	0.040	8969436	<0.040	0.040	8969436	<0.040	0.040	8969436
Dissolved Silicon (Si)	ug/L	<50	50	8969436	<50	50	8969436	<50	50	8969436
Dissolved Silver (Ag)	ug/L	<0.0050	0.0050	8969436	<0.0050	0.0050	8969436	<0.0050	0.0050	8969436
Dissolved Strontium (Sr)	ug/L	<0.050	0.050	8969436	<0.050	0.050	8969436	<0.050	0.050	8969436
Dissolved Thallium (Tl)	ug/L	<0.0020	0.0020	8969436	<0.0020	0.0020	8969436	<0.0020	0.0020	8969436
Dissolved Tin (Sn)	ug/L	<0.20	0.20	8969436	<0.20	0.20	8969436	<0.20	0.20	8969436
Dissolved Titanium (Ti)	ug/L	<0.50	0.50	8969436	<0.50	0.50	8969436	<0.50	0.50	8969436

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Maxxam Job #: B830387
Report Date: 2018/05/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: LE

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TH8842			TH8843			TH8843		
Sampling Date		2018/04/22 18:00			2018/04/23 11:00			2018/04/23 11:00		
COC Number		551215-04-01			551215-04-01			551215-04-01		
	UNITS	FIELD BLANK Lab-Dup	RDL	QC Batch	TRIP BLANK	RDL	QC Batch	TRIP BLANK Lab-Dup	RDL	QC Batch
Dissolved Uranium (U)	ug/L	<0.0020	0.0020	8969436	<0.0020	0.0020	8969436	<0.0020	0.0020	8969436
Dissolved Vanadium (V)	ug/L	<0.20	0.20	8969436	<0.20	0.20	8969436	<0.20	0.20	8969436
Dissolved Zinc (Zn)	ug/L	<0.10	0.10	8969436	<0.10	0.10	8969436	<0.10	0.10	8969436
Dissolved Zirconium (Zr)	ug/L	<0.10	0.10	8969436	<0.10	0.10	8969436	<0.10	0.10	8969436
Dissolved Calcium (Ca)	mg/L				<0.050	0.050	8968005			
Dissolved Magnesium (Mg)	mg/L				<0.050	0.050	8968005			
Dissolved Potassium (K)	mg/L				<0.050	0.050	8968005			
Dissolved Sodium (Na)	mg/L				<0.050	0.050	8968005			
Dissolved Sulphur (S)	mg/L				<3.0	3.0	8968005			
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B830387
Report Date: 2018/05/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: LE

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TH8844		
Sampling Date		2018/04/22		
COC Number		551215-04-01		
	UNITS	BLACK HILLS	RDL	QC Batch
Calculated Parameters				
Dissolved Hardness (CaCO3)	mg/L	318	0.50	8968004
Elements				
Dissolved Mercury (Hg)	ug/L	<0.0020	0.0020	8973744
Dissolved Metals by ICPMS				
Dissolved Aluminum (Al)	ug/L	5.71	0.50	8969436
Dissolved Antimony (Sb)	ug/L	0.093	0.020	8969436
Dissolved Arsenic (As)	ug/L	0.816	0.020	8969436
Dissolved Barium (Ba)	ug/L	80.2	0.020	8969436
Dissolved Beryllium (Be)	ug/L	<0.010	0.010	8969436
Dissolved Bismuth (Bi)	ug/L	<0.0050	0.0050	8969436
Dissolved Boron (B)	ug/L	<10	10	8969436
Dissolved Cadmium (Cd)	ug/L	0.0120	0.0050	8969436
Dissolved Chromium (Cr)	ug/L	0.12	0.10	8969436
Dissolved Cobalt (Co)	ug/L	0.422	0.0050	8969436
Dissolved Copper (Cu)	ug/L	1.41	0.050	8969436
Dissolved Iron (Fe)	ug/L	81.4	1.0	8969436
Dissolved Lead (Pb)	ug/L	0.0063	0.0050	8969436
Dissolved Lithium (Li)	ug/L	5.35	0.50	8969436
Dissolved Manganese (Mn)	ug/L	312	0.050	8969436
Dissolved Molybdenum (Mo)	ug/L	1.27	0.050	8969436
Dissolved Nickel (Ni)	ug/L	2.13	0.020	8969436
Dissolved Phosphorus (P)	ug/L	14.2	2.0	8969436
Dissolved Selenium (Se)	ug/L	0.539	0.040	8969436
Dissolved Silicon (Si)	ug/L	7820	50	8969436
Dissolved Silver (Ag)	ug/L	<0.0050	0.0050	8969436
Dissolved Strontium (Sr)	ug/L	342	0.050	8969436
Dissolved Thallium (Tl)	ug/L	<0.0020	0.0020	8969436
Dissolved Tin (Sn)	ug/L	<0.20	0.20	8969436
Dissolved Titanium (Ti)	ug/L	<0.50	0.50	8969436
Dissolved Uranium (U)	ug/L	3.54	0.0020	8969436
RDL = Reportable Detection Limit				

Maxxam Job #: B830387
Report Date: 2018/05/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: LE

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TH8844		
Sampling Date		2018/04/22		
COC Number		551215-04-01		
	UNITS	BLACK HILLS	RDL	QC Batch
Dissolved Vanadium (V)	ug/L	0.45	0.20	8969436
Dissolved Zinc (Zn)	ug/L	0.44	0.10	8969436
Dissolved Zirconium (Zr)	ug/L	0.26	0.10	8969436
Dissolved Calcium (Ca)	mg/L	78.2	0.050	8968005
Dissolved Magnesium (Mg)	mg/L	29.9	0.050	8968005
Dissolved Potassium (K)	mg/L	4.63	0.050	8968005
Dissolved Sodium (Na)	mg/L	12.8	0.050	8968005
Dissolved Sulphur (S)	mg/L	54.8	3.0	8968005
RDL = Reportable Detection Limit				

Maxxam Job #: B830387
Report Date: 2018/05/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: LE

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		TH8809	TH8810	TH8811	TH8813		TH8822		
Sampling Date		2018/04/21 10:30	2018/04/21 12:35	2018/04/21 13:05	2018/04/22 11:40		2018/04/21 13:30		
COC Number		551215-01-01	551215-01-01	551215-01-01	551215-01-01		551215-02-01		
	UNITS	CC-0.5	CC-1.0	CC-1.5	CC-4.5	QC Batch	CC-C	RDL	QC Batch
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	413	545	379	150	8968003	548	0.50	8968703
Elements									
Total Mercury (Hg)	ug/L	0.0022	<0.0020	0.0022	<0.0020	8971813	<0.0020	0.0020	8971813
Total Metals by ICPMS									
Total Aluminum (Al)	ug/L	25.4	2.52	42.1	22.2	8969596	2.06	0.50	8969596
Total Antimony (Sb)	ug/L	0.115	0.135	0.104	0.080	8969596	0.140	0.020	8969596
Total Arsenic (As)	ug/L	1.12	1.11	2.39	0.268	8969596	1.11	0.020	8969596
Total Barium (Ba)	ug/L	125	109	51.8	83.2	8969596	111	0.020	8969596
Total Beryllium (Be)	ug/L	<0.010	<0.010	<0.010	<0.010	8969596	<0.010	0.010	8969596
Total Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	8969596	<0.0050	0.0050	8969596
Total Boron (B)	ug/L	<10	<10	<10	<10	8969596	<10	10	8969596
Total Cadmium (Cd)	ug/L	0.0424	<0.0050	0.0122	0.0149	8969596	<0.0050	0.0050	8969596
Total Chromium (Cr)	ug/L	0.20	<0.10	0.13	0.11	8969596	<0.10	0.10	8969596
Total Cobalt (Co)	ug/L	0.450	0.0177	0.136	0.0251	8969596	0.0183	0.0050	8969596
Total Copper (Cu)	ug/L	1.40	0.363	0.833	0.957	8969596	0.383	0.050	8969596
Total Iron (Fe)	ug/L	97.2	1.8	61.8	7.9	8969596	1.7	1.0	8969596
Total Lead (Pb)	ug/L	<0.0050	<0.0050	0.0403	<0.0050	8969596	<0.0050	0.0050	8969596
Total Lithium (Li)	ug/L	10.5	5.32	3.60	<0.50	8969596	5.50	0.50	8969596
Total Manganese (Mn)	ug/L	506	0.378	84.9	0.831	8969596	0.585	0.050	8969596
Total Molybdenum (Mo)	ug/L	0.950	0.311	0.299	0.448	8969596	0.320	0.050	8969596
Total Nickel (Ni)	ug/L	1.42	0.250	0.445	0.627	8969596	0.237	0.020	8969596
Total Phosphorus (P)	ug/L	15.9	2.7	5.1	<2.0	8969596	2.7	2.0	8969596
Total Selenium (Se)	ug/L	0.197	0.401	0.176	0.064	8969596	0.413	0.040	8969596
Total Silicon (Si)	ug/L	11200	5460	5600	4700	8969596	5420	50	8969596
Total Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	8969596	<0.0050	0.0050	8969596
Total Strontium (Sr)	ug/L	556	1380	774	201	8969596	1390	0.050	8969596
Total Thallium (Tl)	ug/L	0.0054	<0.0020	0.0047	<0.0020	8969596	0.0022	0.0020	8969596
Total Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	8969596	<0.20	0.20	8969596
Total Titanium (Ti)	ug/L	0.51	<0.50	2.20	<0.50	8969596	<0.50	0.50	8969596
Total Uranium (U)	ug/L	178	34.5	25.9	1.79	8969596	34.6	0.0020	8969596
RDL = Reportable Detection Limit									

Maxxam Job #: B830387
Report Date: 2018/05/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: LE

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		TH8809	TH8810	TH8811	TH8813		TH8822		
Sampling Date		2018/04/21 10:30	2018/04/21 12:35	2018/04/21 13:05	2018/04/22 11:40		2018/04/21 13:30		
COC Number		551215-01-01	551215-01-01	551215-01-01	551215-01-01		551215-02-01		
	UNITS	CC-0.5	CC-1.0	CC-1.5	CC-4.5	QC Batch	CC-C	RDL	QC Batch
Total Vanadium (V)	ug/L	0.30	<0.20	0.30	0.26	8969596	<0.20	0.20	8969596
Total Zinc (Zn)	ug/L	2.71	0.31	0.64	0.40	8969596	0.36	0.10	8969596
Total Zirconium (Zr)	ug/L	0.36	<0.10	0.22	0.26	8969596	<0.10	0.10	8969596
Total Calcium (Ca)	mg/L	97.6	132	96.3	36.6	8968436	130	0.050	8968436
Total Magnesium (Mg)	mg/L	41.1	52.4	33.6	14.3	8968436	54.1	0.050	8968436
Total Potassium (K)	mg/L	4.67	6.25	5.52	1.53	8968436	6.36	0.050	8968436
Total Sodium (Na)	mg/L	19.8	6.13	6.88	5.12	8968436	6.32	0.050	8968436
Total Sulphur (S)	mg/L	75.6	87.5	67.6	27.1	8968436	89.8	3.0	8968436
RDL = Reportable Detection Limit									

Maxxam Job #: B830387
Report Date: 2018/05/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: LE

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		TH8823	TH8824	TH8825		TH8826		TH8827		
Sampling Date		2018/04/21 14:45	2018/04/21 16:50	2018/04/21 15:30		2018/04/22 14:15		2018/04/22 12:20		
COC Number		551215-02-01	551215-02-01	551215-02-01		551215-02-01		551215-02-01		
	UNITS	HC-2.5	HC-5.0	HC-B	RDL	IC-0.5	RDL	IC-1.5	RDL	QC Batch

Calculated Parameters

Total Hardness (CaCO3)	mg/L	227	358	236	0.50	1350	0.50	213	0.50	8968703
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Elements

Total Mercury (Hg)	ug/L	<0.0020	0.0026	0.0021	0.0020	0.0024	0.0020	0.0023	0.0020	8971813
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Total Metals by ICPMS

Total Aluminum (Al)	ug/L	11.6	31.9	17.0	0.50	36.5	2.5	30.8	0.50	8969596
Total Antimony (Sb)	ug/L	0.459	0.211	0.260	0.020	0.17	0.10	0.062	0.020	8969596
Total Arsenic (As)	ug/L	0.600	1.01	0.674	0.020	1.51	0.10	0.277	0.020	8969596
Total Barium (Ba)	ug/L	68.2	97.8	62.5	0.020	69.2	0.10	72.2	0.020	8969596
Total Beryllium (Be)	ug/L	<0.010	<0.010	<0.010	0.010	<0.050	0.050	<0.010	0.010	8969596
Total Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	0.0050	<0.025	0.025	<0.0050	0.0050	8969596
Total Boron (B)	ug/L	<10	<10	<10	10	<50	50	<10	10	8969596
Total Cadmium (Cd)	ug/L	0.0145	0.0102	0.0080	0.0050	0.103	0.025	0.0151	0.0050	8969596
Total Chromium (Cr)	ug/L	<0.10	0.19	0.11	0.10	<0.50	0.50	<0.10	0.10	8969596
Total Cobalt (Co)	ug/L	0.0376	0.0528	0.0352	0.0050	0.313	0.025	0.0488	0.0050	8969596
Total Copper (Cu)	ug/L	0.616	1.23	0.718	0.050	1.58	0.25	0.625	0.050	8969596
Total Iron (Fe)	ug/L	6.2	16.7	7.3	1.0	33.7	5.0	12.6	1.0	8969596
Total Lead (Pb)	ug/L	<0.0050	<0.0050	<0.0050	0.0050	<0.025	0.025	<0.0050	0.0050	8969596
Total Lithium (Li)	ug/L	1.19	2.18	1.79	0.50	30.0	2.5	3.28	0.50	8969596
Total Manganese (Mn)	ug/L	7.09	9.41	14.7	0.050	126	0.25	22.5	0.050	8969596
Total Molybdenum (Mo)	ug/L	1.60	0.494	0.598	0.050	1.40	0.25	0.537	0.050	8969596
Total Nickel (Ni)	ug/L	0.304	0.820	0.416	0.020	2.24	0.10	0.449	0.020	8969596
Total Phosphorus (P)	ug/L	6.9	15.9	5.3	2.0	25	10	10.0	2.0	8969596
Total Selenium (Se)	ug/L	0.151	0.089	0.061	0.040	3.27	0.20	0.140	0.040	8969596
Total Silicon (Si)	ug/L	5770	8080	5820	50	10100	250	8940	50	8969596
Total Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	0.0050	<0.025	0.025	<0.0050	0.0050	8969596
Total Strontium (Sr)	ug/L	535	760	514	0.050	718	0.25	332	0.050	8969596
Total Thallium (Tl)	ug/L	<0.0020	<0.0020	<0.0020	0.0020	<0.010	0.010	<0.0020	0.0020	8969596
Total Tin (Sn)	ug/L	<0.20	<0.20	<0.20	0.20	<1.0	1.0	<0.20	0.20	8969596
Total Titanium (Ti)	ug/L	<0.50	<0.50	<0.50	0.50	<2.5	2.5	<0.50	0.50	8969596
Total Uranium (U)	ug/L	75.5	46.1	58.6	0.0020	13.6	0.010	14.7	0.0020	8969596

RDL = Reportable Detection Limit

Maxxam Job #: B830387
Report Date: 2018/05/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: LE

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		TH8823	TH8824	TH8825		TH8826		TH8827		
Sampling Date		2018/04/21 14:45	2018/04/21 16:50	2018/04/21 15:30		2018/04/22 14:15		2018/04/22 12:20		
COC Number		551215-02-01	551215-02-01	551215-02-01		551215-02-01		551215-02-01		
	UNITS	HC-2.5	HC-5.0	HC-B	RDL	IC-0.5	RDL	IC-1.5	RDL	QC Batch
Total Vanadium (V)	ug/L	0.26	0.23	<0.20	0.20	<1.0	1.0	0.21	0.20	8969596
Total Zinc (Zn)	ug/L	0.97	1.02	0.95	0.10	6.12	0.50	1.05	0.10	8969596
Total Zirconium (Zr)	ug/L	0.17	0.30	0.24	0.10	<0.50	0.50	0.16	0.10	8969596
Total Calcium (Ca)	mg/L	52.7	85.2	54.5	0.050	257	0.25	53.9	0.050	8968436
Total Magnesium (Mg)	mg/L	23.1	35.4	24.3	0.050	173	0.25	19.0	0.050	8968436
Total Potassium (K)	mg/L	3.28	7.30	2.95	0.050	8.27	0.25	3.32	0.050	8968436
Total Sodium (Na)	mg/L	5.66	12.9	7.51	0.050	30.4	0.25	10.5	0.050	8968436
Total Sulphur (S)	mg/L	30.8	70.7	37.9	3.0	376	15	28.1	3.0	8968436
RDL = Reportable Detection Limit										

Maxxam Job #: B830387
Report Date: 2018/05/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: LE

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		TH8833			TH8833			TH8834		
Sampling Date		2018/04/22 14:40			2018/04/22 14:40			2018/04/21 18:20		
COC Number		551215-03-01			551215-03-01			551215-03-01		
	UNITS	IC-4.5	RDL	QC Batch	IC-4.5 Lab-Dup	RDL	QC Batch	YUK-2.0	RDL	QC Batch

Calculated Parameters

Total Hardness (CaCO3)	mg/L	121	0.50	8968703				47.0	0.50	8968703
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Elements

Total Mercury (Hg)	ug/L	<0.0020	0.0020	8971813				<0.0020	0.0020	8971813
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Total Metals by ICPMS

Total Aluminum (Al)	ug/L	22.4	0.50	8969928	21.6	0.50	8969928	79.5	0.50	8969928
Total Antimony (Sb)	ug/L	0.065	0.020	8969928	0.069	0.020	8969928	0.115	0.020	8969928
Total Arsenic (As)	ug/L	0.327	0.020	8969928	0.333	0.020	8969928	0.252	0.020	8969928
Total Barium (Ba)	ug/L	59.0	0.020	8969928	57.2	0.020	8969928	22.9	0.020	8969928
Total Beryllium (Be)	ug/L	<0.010	0.010	8969928	<0.010	0.010	8969928	<0.010	0.010	8969928
Total Bismuth (Bi)	ug/L	<0.0050	0.0050	8969928	<0.0050	0.0050	8969928	<0.0050	0.0050	8969928
Total Boron (B)	ug/L	<10	10	8969928	<10	10	8969928	<10	10	8969928
Total Cadmium (Cd)	ug/L	0.0308	0.0050	8969928	0.0283	0.0050	8969928	0.0400	0.0050	8969928
Total Chromium (Cr)	ug/L	0.17	0.10	8969928	0.15	0.10	8969928	0.21	0.10	8969928
Total Cobalt (Co)	ug/L	0.0924	0.0050	8969928	0.0886	0.0050	8969928	0.116	0.0050	8969928
Total Copper (Cu)	ug/L	1.16	0.050	8969928	1.09	0.050	8969928	0.692	0.050	8969928
Total Iron (Fe)	ug/L	15.4	1.0	8969928	15.3	1.0	8969928	234	1.0	8969928
Total Lead (Pb)	ug/L	<0.0050	0.0050	8969928	<0.0050	0.0050	8969928	0.106	0.0050	8969928
Total Lithium (Li)	ug/L	0.73	0.50	8969928	0.74	0.50	8969928	0.63	0.50	8969928
Total Manganese (Mn)	ug/L	69.1	0.050	8969928	67.4	0.050	8969928	14.7	0.050	8969928
Total Molybdenum (Mo)	ug/L	0.160	0.050	8969928	0.137	0.050	8969928	0.534	0.050	8969928
Total Nickel (Ni)	ug/L	0.742	0.020	8969928	0.776	0.020	8969928	0.682	0.020	8969928
Total Phosphorus (P)	ug/L	5.5	2.0	8969928	6.9	2.0	8969928	10.2	2.0	8969928
Total Selenium (Se)	ug/L	0.064	0.040	8969928	0.062	0.040	8969928	0.163	0.040	8969928
Total Silicon (Si)	ug/L	5230	50	8969928	5100	50	8969928	1350	50	8969928
Total Silver (Ag)	ug/L	<0.0050	0.0050	8969928	<0.0050	0.0050	8969928	<0.0050	0.0050	8969928
Total Strontium (Sr)	ug/L	180	0.050	8969928	175	0.050	8969928	58.1	0.050	8969928
Total Thallium (Tl)	ug/L	0.0030	0.0020	8969928	0.0040	0.0020	8969928	<0.0020	0.0020	8969928
Total Tin (Sn)	ug/L	<0.20	0.20	8969928	<0.20	0.20	8969928	<0.20	0.20	8969928
Total Titanium (Ti)	ug/L	<0.50	0.50	8969928	<0.50	0.50	8969928	2.41	0.50	8969928

RDL = Reportable Detection Limit

Lab-Dup = Laboratory Initiated Duplicate

Maxxam Job #: B830387
Report Date: 2018/05/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: LE

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		TH8833			TH8833			TH8834		
Sampling Date		2018/04/22 14:40			2018/04/22 14:40			2018/04/21 18:20		
COC Number		551215-03-01			551215-03-01			551215-03-01		
	UNITS	IC-4.5	RDL	QC Batch	IC-4.5 Lab-Dup	RDL	QC Batch	YUK-2.0	RDL	QC Batch
Total Uranium (U)	ug/L	0.507	0.0020	8969928	0.489	0.0020	8969928	0.506	0.0020	8969928
Total Vanadium (V)	ug/L	<0.20	0.20	8969928	<0.20	0.20	8969928	0.34	0.20	8969928
Total Zinc (Zn)	ug/L	2.27	0.10	8969928	2.22	0.10	8969928	6.04	0.10	8969928
Total Zirconium (Zr)	ug/L	0.27	0.10	8969928	0.28	0.10	8969928	<0.10	0.10	8969928
Total Calcium (Ca)	mg/L	32.5	0.050	8968436				12.9	0.050	8968436
Total Magnesium (Mg)	mg/L	9.60	0.050	8968436				3.59	0.050	8968436
Total Potassium (K)	mg/L	1.77	0.050	8968436				0.449	0.050	8968436
Total Sodium (Na)	mg/L	4.75	0.050	8968436				1.01	0.050	8968436
Total Sulphur (S)	mg/L	20.3	3.0	8968436				3.4	3.0	8968436
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B830387
Report Date: 2018/05/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: LE

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		TH8835		TH8838		TH8839	TH8840		
Sampling Date		2018/04/22 15:10		2018/04/22 16:20		2018/04/21 17:45	2018/04/22		
COC Number		551215-03-01		551215-03-01		551215-03-01	551215-03-01		
	UNITS	YUK-5.0	QC Batch	STEWART D/S M.M.	QC Batch	LATTE MIX	SAMPLE A	RDL	QC Batch

Calculated Parameters

Total Hardness (CaCO3)	mg/L	106	8968703	214	8968003	356	217	0.50	8968703
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Elements

Total Mercury (Hg)	ug/L	<0.0020	8971813	<0.0020	8973730	0.0021	0.0024	0.0020	8971813
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Total Metals by ICPMS

Total Aluminum (Al)	ug/L	15.6	8969928	16.8	8969928	35.9	32.0	0.50	8969928
Total Antimony (Sb)	ug/L	0.093	8969928	0.159	8969928	0.096	0.066	0.020	8969928
Total Arsenic (As)	ug/L	0.187	8969928	0.341	8969928	0.855	0.281	0.020	8969928
Total Barium (Ba)	ug/L	79.6	8969928	79.6	8969928	106	73.0	0.020	8969928
Total Beryllium (Be)	ug/L	<0.010	8969928	<0.010	8969928	<0.010	<0.010	0.010	8969928
Total Bismuth (Bi)	ug/L	<0.0050	8969928	<0.0050	8969928	<0.0050	<0.0050	0.0050	8969928
Total Boron (B)	ug/L	<10	8969928	<10	8969928	<10	<10	10	8969928
Total Cadmium (Cd)	ug/L	0.0230	8969928	0.0948	8969928	0.0320	0.0099	0.0050	8969928
Total Chromium (Cr)	ug/L	<0.10	8969928	<0.10	8969928	0.15	<0.10	0.10	8969928
Total Cobalt (Co)	ug/L	0.0328	8969928	0.0386	8969928	0.338	0.0450	0.0050	8969928
Total Copper (Cu)	ug/L	0.383	8969928	0.512	8969928	1.13	0.625	0.050	8969928
Total Iron (Fe)	ug/L	59.5	8969928	70.8	8969928	139	14.0	1.0	8969928
Total Lead (Pb)	ug/L	0.0164	8969928	0.0365	8969928	0.0118	<0.0050	0.0050	8969928
Total Lithium (Li)	ug/L	0.97	8969928	3.89	8969928	7.77	3.36	0.50	8969928
Total Manganese (Mn)	ug/L	16.9	8969928	10.9	8969928	370	21.7	0.050	8969928
Total Molybdenum (Mo)	ug/L	1.26	8969928	0.576	8969928	0.734	0.536	0.050	8969928
Total Nickel (Ni)	ug/L	0.370	8969928	2.23	8969928	1.07	0.426	0.020	8969928
Total Phosphorus (P)	ug/L	<2.0	8969928	8.9	8969928	13.5	15.3	2.0	8969928
Total Selenium (Se)	ug/L	0.322	8969928	0.758	8969928	0.159	0.127	0.040	8969928
Total Silicon (Si)	ug/L	2690	8969928	2930	8969928	9570	9250	50	8969928
Total Silver (Ag)	ug/L	<0.0050	8969928	<0.0050	8969928	<0.0050	<0.0050	0.0050	8969928
Total Strontium (Sr)	ug/L	126	8969928	249	8969928	469	331	0.050	8969928
Total Thallium (Tl)	ug/L	<0.0020	8969928	<0.0020	8969928	0.0041	0.0023	0.0020	8969928
Total Tin (Sn)	ug/L	<0.20	8969928	<0.20	8969928	<0.20	<0.20	0.20	8969928
Total Titanium (Ti)	ug/L	<0.50	8969928	<0.50	8969928	1.23	<0.50	0.50	8969928
Total Uranium (U)	ug/L	1.20	8969928	1.32	8969928	124	14.9	0.0020	8969928

RDL = Reportable Detection Limit

Maxxam Job #: B830387
Report Date: 2018/05/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: LE

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		TH8835		TH8838		TH8839	TH8840		
Sampling Date		2018/04/22 15:10		2018/04/22 16:20		2018/04/21 17:45	2018/04/22		
COC Number		551215-03-01		551215-03-01		551215-03-01	551215-03-01		
	UNITS	YUK-5.0	QC Batch	STEWART D/S M.M.	QC Batch	LATTE MIX	SAMPLE A	RDL	QC Batch
Total Vanadium (V)	ug/L	<0.20	8969928	<0.20	8969928	0.32	<0.20	0.20	8969928
Total Zinc (Zn)	ug/L	0.78	8969928	9.04	8969928	2.41	1.08	0.10	8969928
Total Zirconium (Zr)	ug/L	<0.10	8969928	<0.10	8969928	0.20	0.14	0.10	8969928
Total Calcium (Ca)	mg/L	29.3	8968436	55.4	8968436	85.5	56.0	0.050	8968436
Total Magnesium (Mg)	mg/L	8.06	8968436	18.3	8968436	34.7	18.8	0.050	8968436
Total Potassium (K)	mg/L	0.898	8968436	0.835	8968436	4.10	3.28	0.050	8968436
Total Sodium (Na)	mg/L	2.01	8968436	3.10	8968436	15.5	10.2	0.050	8968436
Total Sulphur (S)	mg/L	7.1	8968436	28.3	8968436	69.9	28.1	3.0	8968436
RDL = Reportable Detection Limit									

Maxxam Job #: B830387
Report Date: 2018/05/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: LE

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		TH8840			TH8842			TH8842		
Sampling Date		2018/04/22			2018/04/22 18:00			2018/04/22 18:00		
COC Number		551215-03-01			551215-04-01			551215-04-01		
	UNITS	SAMPLE A Lab-Dup	RDL	QC Batch	FIELD BLANK	RDL	QC Batch	FIELD BLANK Lab-Dup	RDL	QC Batch

Calculated Parameters

Total Hardness (CaCO3)	mg/L				<0.50	0.50	8968703			
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Elements

Total Mercury (Hg)	ug/L	0.0024	0.0020	8971813	<0.0020	0.0020	8971709			
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Total Metals by ICPMS

Total Aluminum (Al)	ug/L				<0.50	0.50	8969596	<0.50	0.50	8969596
Total Antimony (Sb)	ug/L				0.153	0.020	8969596	0.145	0.020	8969596
Total Arsenic (As)	ug/L				<0.020	0.020	8969596	<0.020	0.020	8969596
Total Barium (Ba)	ug/L				<0.020	0.020	8969596	<0.020	0.020	8969596
Total Beryllium (Be)	ug/L				<0.010	0.010	8969596	<0.010	0.010	8969596
Total Bismuth (Bi)	ug/L				<0.0050	0.0050	8969596	<0.0050	0.0050	8969596
Total Boron (B)	ug/L				<10	10	8969596	<10	10	8969596
Total Cadmium (Cd)	ug/L				<0.0050	0.0050	8969596	<0.0050	0.0050	8969596
Total Chromium (Cr)	ug/L				<0.10	0.10	8969596	<0.10	0.10	8969596
Total Cobalt (Co)	ug/L				<0.0050	0.0050	8969596	<0.0050	0.0050	8969596
Total Copper (Cu)	ug/L				<0.050	0.050	8969596	<0.050	0.050	8969596
Total Iron (Fe)	ug/L				<1.0	1.0	8969596	<1.0	1.0	8969596
Total Lead (Pb)	ug/L				<0.0050	0.0050	8969596	<0.0050	0.0050	8969596
Total Lithium (Li)	ug/L				<0.50	0.50	8969596	<0.50	0.50	8969596
Total Manganese (Mn)	ug/L				<0.050	0.050	8969596	<0.050	0.050	8969596
Total Molybdenum (Mo)	ug/L				<0.050	0.050	8969596	<0.050	0.050	8969596
Total Nickel (Ni)	ug/L				<0.020	0.020	8969596	<0.020	0.020	8969596
Total Phosphorus (P)	ug/L				<2.0	2.0	8969596	<2.0	2.0	8969596
Total Selenium (Se)	ug/L				<0.040	0.040	8969596	<0.040	0.040	8969596
Total Silicon (Si)	ug/L				<50	50	8969596	<50	50	8969596
Total Silver (Ag)	ug/L				<0.0050	0.0050	8969596	<0.0050	0.0050	8969596
Total Strontium (Sr)	ug/L				<0.050	0.050	8969596	<0.050	0.050	8969596
Total Thallium (Tl)	ug/L				<0.0020	0.0020	8969596	<0.0020	0.0020	8969596
Total Tin (Sn)	ug/L				<0.20	0.20	8969596	<0.20	0.20	8969596
Total Titanium (Ti)	ug/L				<0.50	0.50	8969596	<0.50	0.50	8969596

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Maxxam Job #: B830387
Report Date: 2018/05/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: LE

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		TH8840			TH8842			TH8842		
Sampling Date		2018/04/22			2018/04/22 18:00			2018/04/22 18:00		
COC Number		551215-03-01			551215-04-01			551215-04-01		
	UNITS	SAMPLE A Lab-Dup	RDL	QC Batch	FIELD BLANK	RDL	QC Batch	FIELD BLANK Lab-Dup	RDL	QC Batch
Total Uranium (U)	ug/L				<0.0020	0.0020	8969596	<0.0020	0.0020	8969596
Total Vanadium (V)	ug/L				<0.20	0.20	8969596	<0.20	0.20	8969596
Total Zinc (Zn)	ug/L				<0.10	0.10	8969596	<0.10	0.10	8969596
Total Zirconium (Zr)	ug/L				<0.10	0.10	8969596	<0.10	0.10	8969596
Total Calcium (Ca)	mg/L				<0.050	0.050	8968436			
Total Magnesium (Mg)	mg/L				<0.050	0.050	8968436			
Total Potassium (K)	mg/L				<0.050	0.050	8968436			
Total Sodium (Na)	mg/L				<0.050	0.050	8968436			
Total Sulphur (S)	mg/L				<3.0	3.0	8968436			
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B830387
Report Date: 2018/05/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: LE

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		TH8843			TH8843			TH8844		
Sampling Date		2018/04/23 11:00			2018/04/23 11:00			2018/04/22		
COC Number		551215-04-01			551215-04-01			551215-04-01		
	UNITS	TRIP BLANK	RDL	QC Batch	TRIP BLANK Lab-Dup	RDL	QC Batch	BLACK HILLS	RDL	QC Batch

Calculated Parameters

Total Hardness (CaCO3)	mg/L	<0.50	0.50	8968003				320	0.50	8968703
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Elements

Total Mercury (Hg)	ug/L	<0.0020	0.0020	8970672				<0.0020	0.0020	8973730
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Total Metals by ICPMS

Total Aluminum (Al)	ug/L	<0.50	0.50	8969596	<0.50	0.50	8969596	70.0	0.50	8969596
Total Antimony (Sb)	ug/L	<0.020	0.020	8969596	<0.020	0.020	8969596	0.104	0.020	8969596
Total Arsenic (As)	ug/L	<0.020	0.020	8969596	<0.020	0.020	8969596	1.09	0.020	8969596
Total Barium (Ba)	ug/L	<0.020	0.020	8969596	<0.020	0.020	8969596	88.6	0.020	8969596
Total Beryllium (Be)	ug/L	<0.010	0.010	8969596	<0.010	0.010	8969596	<0.010	0.010	8969596
Total Bismuth (Bi)	ug/L	<0.0050	0.0050	8969596	<0.0050	0.0050	8969596	<0.0050	0.0050	8969596
Total Boron (B)	ug/L	<10	10	8969596	<10	10	8969596	<10	10	8969596
Total Cadmium (Cd)	ug/L	<0.0050	0.0050	8969596	<0.0050	0.0050	8969596	0.0209	0.0050	8969596
Total Chromium (Cr)	ug/L	<0.10	0.10	8969596	<0.10	0.10	8969596	0.23	0.10	8969596
Total Cobalt (Co)	ug/L	<0.0050	0.0050	8969596	<0.0050	0.0050	8969596	0.501	0.0050	8969596
Total Copper (Cu)	ug/L	<0.050	0.050	8969596	<0.050	0.050	8969596	1.63	0.050	8969596
Total Iron (Fe)	ug/L	<1.0	1.0	8969596	<1.0	1.0	8969596	491	1.0	8969596
Total Lead (Pb)	ug/L	<0.0050	0.0050	8969596	<0.0050	0.0050	8969596	0.101	0.0050	8969596
Total Lithium (Li)	ug/L	<0.50	0.50	8969596	<0.50	0.50	8969596	5.44	0.50	8969596
Total Manganese (Mn)	ug/L	<0.050	0.050	8969596	<0.050	0.050	8969596	333	0.050	8969596
Total Molybdenum (Mo)	ug/L	<0.050	0.050	8969596	<0.050	0.050	8969596	1.29	0.050	8969596
Total Nickel (Ni)	ug/L	<0.020	0.020	8969596	<0.020	0.020	8969596	2.28	0.020	8969596
Total Phosphorus (P)	ug/L	<2.0	2.0	8969596	<2.0	2.0	8969596	23.3	2.0	8969596
Total Selenium (Se)	ug/L	<0.040	0.040	8969596	<0.040	0.040	8969596	0.602	0.040	8969596
Total Silicon (Si)	ug/L	<50	50	8969596	<50	50	8969596	8330	50	8969596
Total Silver (Ag)	ug/L	<0.0050	0.0050	8969596	<0.0050	0.0050	8969596	<0.0050	0.0050	8969596
Total Strontium (Sr)	ug/L	<0.050	0.050	8969596	<0.050	0.050	8969596	354	0.050	8969596
Total Thallium (Tl)	ug/L	<0.0020	0.0020	8969596	<0.0020	0.0020	8969596	<0.0020	0.0020	8969596
Total Tin (Sn)	ug/L	<0.20	0.20	8969596	<0.20	0.20	8969596	<0.20	0.20	8969596
Total Titanium (Ti)	ug/L	<0.50	0.50	8969596	<0.50	0.50	8969596	2.86	0.50	8969596

RDL = Reportable Detection Limit

Lab-Dup = Laboratory Initiated Duplicate

Maxxam Job #: B830387
Report Date: 2018/05/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: LE

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		TH8843			TH8843			TH8844		
Sampling Date		2018/04/23 11:00			2018/04/23 11:00			2018/04/22		
COC Number		551215-04-01			551215-04-01			551215-04-01		
	UNITS	TRIP BLANK	RDL	QC Batch	TRIP BLANK Lab-Dup	RDL	QC Batch	BLACK HILLS	RDL	QC Batch
Total Uranium (U)	ug/L	<0.0020	0.0020	8969596	<0.0020	0.0020	8969596	3.70	0.0020	8969596
Total Vanadium (V)	ug/L	<0.20	0.20	8969596	<0.20	0.20	8969596	0.82	0.20	8969596
Total Zinc (Zn)	ug/L	<0.10	0.10	8969596	<0.10	0.10	8969596	1.03	0.10	8969596
Total Zirconium (Zr)	ug/L	<0.10	0.10	8969596	<0.10	0.10	8969596	0.30	0.10	8969596
Total Calcium (Ca)	mg/L	<0.050	0.050	8968436				80.6	0.050	8968436
Total Magnesium (Mg)	mg/L	<0.050	0.050	8968436				28.9	0.050	8968436
Total Potassium (K)	mg/L	<0.050	0.050	8968436				4.70	0.050	8968436
Total Sodium (Na)	mg/L	<0.050	0.050	8968436				12.5	0.050	8968436
Total Sulphur (S)	mg/L	<3.0	3.0	8968436				56.6	3.0	8968436
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B830387
Report Date: 2018/05/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: LE

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TH8812		TH8836	TH8837		
Sampling Date		2018/04/21 11:05		2018/04/22 11:10	2018/04/22 16:35		
COC Number		551215-01-01		551215-03-01	551215-03-01		
	UNITS	CC-3.5	QC Batch	BALLARAT U/S Y.R.	BARKER U/S S.R.	RDL	QC Batch
Calculated Parameters							
Total Hardness (CaCO3)	mg/L	278	8968003	483	422	0.50	8968703
Elements							
Total Mercury (Hg)	ug/L	0.0033	8971813	<0.0020	0.0025	0.0020	8971813
Total Metals by ICPMS							
Total Aluminum (Al)	ug/L	30.9	8970245	10.9	53.9	3.0	8970245
Total Antimony (Sb)	ug/L	0.255	8970245	0.038	0.074	0.020	8970245
Total Arsenic (As)	ug/L	0.421	8970245	0.301	0.690	0.020	8970245
Total Barium (Ba)	ug/L	90.1	8970245	64.3	84.7	0.050	8970245
Total Beryllium (Be)	ug/L	0.013	8970245	<0.010	<0.010	0.010	8970245
Total Bismuth (Bi)	ug/L	<0.010	8970245	<0.010	<0.010	0.010	8970245
Total Boron (B)	ug/L	<10	8970245	<10	11	10	8970245
Total Cadmium (Cd)	ug/L	0.0924	8970245	0.0090	0.0193	0.0050	8970245
Total Chromium (Cr)	ug/L	0.13	8970245	0.10	0.18	0.10	8970245
Total Cobalt (Co)	ug/L	0.110	8970245	0.051	0.368	0.010	8970245
Total Copper (Cu)	ug/L	1.53	8970245	1.35	1.83	0.10	8970245
Total Iron (Fe)	ug/L	36.6	8970245	15.0	134	5.0	8970245
Total Lead (Pb)	ug/L	0.111	8970245	<0.020	0.028	0.020	8970245
Total Lithium (Li)	ug/L	4.15	8970245	1.82	5.20	0.50	8970245
Total Manganese (Mn)	ug/L	56.8	8970245	16.6	303	0.10	8970245
Total Molybdenum (Mo)	ug/L	1.16	8970245	0.672	1.41	0.050	8970245
Total Nickel (Ni)	ug/L	0.66	8970245	0.42	1.22	0.10	8970245
Total Phosphorus (P)	ug/L	23.2	8970245	9.5	81.9	5.0	8970245
Total Selenium (Se)	ug/L	0.209	8970245	0.217	0.412	0.040	8970245
Total Silicon (Si)	ug/L	12500	8970245	7780	7430	50	8970245
Total Silver (Ag)	ug/L	<0.010	8970245	<0.010	<0.010	0.010	8970245
Total Strontium (Sr)	ug/L	273	8970245	866	612	0.050	8970245
Total Thallium (Tl)	ug/L	<0.0020	8970245	<0.0020	<0.0020	0.0020	8970245
Total Tin (Sn)	ug/L	<0.20	8970245	<0.20	<0.20	0.20	8970245
Total Titanium (Ti)	ug/L	<2.0	8970245	<2.0	<2.0	2.0	8970245
Total Uranium (U)	ug/L	74.3	8970245	5.05	7.85	0.0050	8970245
RDL = Reportable Detection Limit							

Maxxam Job #: B830387
Report Date: 2018/05/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: LE

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TH8812		TH8836	TH8837		
Sampling Date		2018/04/21 11:05		2018/04/22 11:10	2018/04/22 16:35		
COC Number		551215-01-01		551215-03-01	551215-03-01		
	UNITS	CC-3.5	QC Batch	BALLARAT U/S Y.R.	BARKER U/S S.R.	RDL	QC Batch
Total Vanadium (V)	ug/L	0.24	8970245	0.24	0.55	0.20	8970245
Total Zinc (Zn)	ug/L	4.3	8970245	1.2	1.9	1.0	8970245
Total Zirconium (Zr)	ug/L	0.17	8970245	<0.10	0.14	0.10	8970245
Total Calcium (Ca)	mg/L	71.4	8968436	109	93.3	0.25	8968436
Total Magnesium (Mg)	mg/L	24.3	8968436	51.0	46.0	0.25	8968436
Total Potassium (K)	mg/L	9.19	8968436	5.95	6.15	0.25	8968436
Total Sodium (Na)	mg/L	11.6	8968436	15.4	21.0	0.25	8968436
Total Sulphur (S)	mg/L	24.4	8968436	104	87.7	3.0	8968436
RDL = Reportable Detection Limit							

Maxxam Job #: B830387
Report Date: 2018/05/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: LE

GENERAL COMMENTS

Sample TH8809 [CC-0.5] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.}

Sample TH8810 [CC-1.0] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.}

Sample TH8811 [CC-1.5] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.}

Sample TH8812 [CC-3.5] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.}

Sample TH8813 [CC-4.5] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.}

Sample TH8822 [CC-C] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.}

Sample TH8823 [HC-2.5] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.}

Sample TH8824 [HC-5.0] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.}

Sample TH8825 [HC-B] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level). Sample analyzed past method specified hold time for Total Dissolved Solids (Filt. Residue). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.}

Sample TH8833 [IC-4.5] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.}

Sample TH8834 [YUK-2.0] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level). Sample analyzed past method specified hold time for Total Dissolved Solids (Filt. Residue). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.}

Sample TH8839 [LATTE MIX] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER) Comments

Sample TH8826 [IC-0.5] Elements by ICPMS Low Level (dissolved): RDL raised due to sample matrix interference.

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LOW LEVEL TOTAL METALS WITH CV HG (WATER) Comments

Sample TH8826 [IC-0.5] Elements by ICPMS Low Level (total): RDL raised due to sample matrix interference.
Sample TH8836, Elements by ICPMS Low Level (dissolved): Test repeated.

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

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QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8969275	ORP	2018/04/26							0	20
8969302	Total Suspended Solids	2018/04/27			105	80 - 120	<1.0	mg/L		
8969360	Dissolved Organic Carbon (C)	2018/04/25	100	80 - 120	111	80 - 120	<0.50	mg/L	NC	20
8969377	Dissolved Aluminum (Al)	2018/04/25	108	80 - 120	112	80 - 120	<0.50	ug/L	5.5	20
8969377	Dissolved Antimony (Sb)	2018/04/25	99	80 - 120	103	80 - 120	<0.020	ug/L	2.7	20
8969377	Dissolved Arsenic (As)	2018/04/25	101	80 - 120	102	80 - 120	<0.020	ug/L	1.5	20
8969377	Dissolved Barium (Ba)	2018/04/25	NC	80 - 120	100	80 - 120	<0.020	ug/L	0.25	20
8969377	Dissolved Beryllium (Be)	2018/04/25	96	80 - 120	100	80 - 120	<0.010	ug/L	11	20
8969377	Dissolved Bismuth (Bi)	2018/04/25	93	80 - 120	100	80 - 120	<0.0050	ug/L	NC	20
8969377	Dissolved Boron (B)	2018/04/25	97	80 - 120	101	80 - 120	<10	ug/L	NC	20
8969377	Dissolved Cadmium (Cd)	2018/04/25	99	80 - 120	103	80 - 120	<0.0050	ug/L	2.5	20
8969377	Dissolved Chromium (Cr)	2018/04/25	99	80 - 120	101	80 - 120	<0.10	ug/L	5.6	20
8969377	Dissolved Cobalt (Co)	2018/04/25	95	80 - 120	99	80 - 120	<0.0050	ug/L	1.5	20
8969377	Dissolved Copper (Cu)	2018/04/25	94	80 - 120	100	80 - 120	<0.050	ug/L	0.91	20
8969377	Dissolved Iron (Fe)	2018/04/25	98	80 - 120	105	80 - 120	<1.0	ug/L	0.14	20
8969377	Dissolved Lead (Pb)	2018/04/25	96	80 - 120	102	80 - 120	<0.0050	ug/L	NC	20
8969377	Dissolved Lithium (Li)	2018/04/25	93	80 - 120	97	80 - 120	<0.50	ug/L	0.99	20
8969377	Dissolved Manganese (Mn)	2018/04/25	NC	80 - 120	102	80 - 120	<0.050	ug/L	2.0	20
8969377	Dissolved Molybdenum (Mo)	2018/04/25	103	80 - 120	105	80 - 120	<0.050	ug/L	2.6	20
8969377	Dissolved Nickel (Ni)	2018/04/25	97	80 - 120	103	80 - 120	<0.020	ug/L	1.8	20
8969377	Dissolved Phosphorus (P)	2018/04/25	107	80 - 120	106	80 - 120	<2.0	ug/L	16	20
8969377	Dissolved Selenium (Se)	2018/04/25	101	80 - 120	103	80 - 120	<0.040	ug/L	2.9	20
8969377	Dissolved Silicon (Si)	2018/04/25	NC	80 - 120	111	80 - 120	<50	ug/L	0.046	20
8969377	Dissolved Silver (Ag)	2018/04/25	99	80 - 120	102	80 - 120	<0.0050	ug/L	NC	20
8969377	Dissolved Strontium (Sr)	2018/04/25	NC	80 - 120	101	80 - 120	<0.050	ug/L	2.1	20
8969377	Dissolved Thallium (Tl)	2018/04/25	97	80 - 120	101	80 - 120	<0.0020	ug/L	13	20
8969377	Dissolved Tin (Sn)	2018/04/25	101	80 - 120	103	80 - 120	<0.20	ug/L	NC	20
8969377	Dissolved Titanium (Ti)	2018/04/25	100	80 - 120	102	80 - 120	<0.50	ug/L	NC	20
8969377	Dissolved Uranium (U)	2018/04/25	NC	80 - 120	103	80 - 120	<0.0020	ug/L	1.7	20
8969377	Dissolved Vanadium (V)	2018/04/25	101	80 - 120	103	80 - 120	<0.20	ug/L	9.0	20
8969377	Dissolved Zinc (Zn)	2018/04/25	96	80 - 120	102	80 - 120	<0.10	ug/L	5.7	20

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QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8969377	Dissolved Zirconium (Zr)	2018/04/25	101	80 - 120	100	80 - 120	<0.10	ug/L	5.6	20
8969436	Dissolved Aluminum (Al)	2018/04/26	107	80 - 120	113	80 - 120	<0.50	ug/L	NC	20
8969436	Dissolved Antimony (Sb)	2018/04/26	98	80 - 120	102	80 - 120	<0.020	ug/L	NC	20
8969436	Dissolved Arsenic (As)	2018/04/26	98	80 - 120	101	80 - 120	<0.020	ug/L	NC	20
8969436	Dissolved Barium (Ba)	2018/04/26	96	80 - 120	99	80 - 120	<0.020	ug/L	NC	20
8969436	Dissolved Beryllium (Be)	2018/04/26	96	80 - 120	100	80 - 120	<0.010	ug/L	NC	20
8969436	Dissolved Bismuth (Bi)	2018/04/26	94	80 - 120	100	80 - 120	<0.0050	ug/L	NC	20
8969436	Dissolved Boron (B)	2018/04/26	99	80 - 120	102	80 - 120	<10	ug/L	NC	20
8969436	Dissolved Cadmium (Cd)	2018/04/26	98	80 - 120	102	80 - 120	<0.0050	ug/L	NC	20
8969436	Dissolved Chromium (Cr)	2018/04/26	98	80 - 120	102	80 - 120	<0.10	ug/L	NC	20
8969436	Dissolved Cobalt (Co)	2018/04/26	95	80 - 120	100	80 - 120	<0.0050	ug/L	NC	20
8969436	Dissolved Copper (Cu)	2018/04/26	96	80 - 120	100	80 - 120	<0.050	ug/L	NC	20
8969436	Dissolved Iron (Fe)	2018/04/26	98	80 - 120	103	80 - 120	<1.0	ug/L	NC	20
8969436	Dissolved Lead (Pb)	2018/04/26	95	80 - 120	101	80 - 120	<0.0050	ug/L	NC	20
8969436	Dissolved Lithium (Li)	2018/04/26	95	80 - 120	98	80 - 120	<0.50	ug/L	NC	20
8969436	Dissolved Manganese (Mn)	2018/04/26	97	80 - 120	102	80 - 120	<0.050	ug/L	NC	20
8969436	Dissolved Molybdenum (Mo)	2018/04/26	97	80 - 120	102	80 - 120	<0.050	ug/L	NC	20
8969436	Dissolved Nickel (Ni)	2018/04/26	98	80 - 120	103	80 - 120	<0.020	ug/L	NC	20
8969436	Dissolved Phosphorus (P)	2018/04/26	103	80 - 120	107	80 - 120	<2.0	ug/L	NC	20
8969436	Dissolved Selenium (Se)	2018/04/26	97	80 - 120	101	80 - 120	<0.040	ug/L	NC	20
8969436	Dissolved Silicon (Si)	2018/04/26	104	80 - 120	110	80 - 120	<50	ug/L	NC	20
8969436	Dissolved Silver (Ag)	2018/04/26	97	80 - 120	101	80 - 120	<0.0050	ug/L	NC	20
8969436	Dissolved Strontium (Sr)	2018/04/26	96	80 - 120	100	80 - 120	<0.050	ug/L	NC	20
8969436	Dissolved Thallium (Tl)	2018/04/26	95	80 - 120	101	80 - 120	<0.0020	ug/L	NC	20
8969436	Dissolved Tin (Sn)	2018/04/26	95	80 - 120	102	80 - 120	<0.20	ug/L	NC	20
8969436	Dissolved Titanium (Ti)	2018/04/26	96	80 - 120	100	80 - 120	<0.50	ug/L	NC	20
8969436	Dissolved Uranium (U)	2018/04/26	97	80 - 120	104	80 - 120	<0.0020	ug/L	NC	20
8969436	Dissolved Vanadium (V)	2018/04/26	98	80 - 120	101	80 - 120	<0.20	ug/L	NC	20
8969436	Dissolved Zinc (Zn)	2018/04/26	99	80 - 120	101	80 - 120	<0.10	ug/L	NC	20
8969436	Dissolved Zirconium (Zr)	2018/04/26	96	80 - 120	99	80 - 120	<0.10	ug/L	NC	20
8969596	Total Aluminum (Al)	2018/04/26	108	80 - 120	112	80 - 120	<0.50	ug/L	NC	20

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QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8969596	Total Antimony (Sb)	2018/04/26	99	80 - 120	101	80 - 120	<0.020	ug/L	NC	20
8969596	Total Arsenic (As)	2018/04/26	97	80 - 120	100	80 - 120	<0.020	ug/L	NC	20
8969596	Total Barium (Ba)	2018/04/26	95	80 - 120	99	80 - 120	<0.020	ug/L	NC	20
8969596	Total Beryllium (Be)	2018/04/26	97	80 - 120	106	80 - 120	<0.010	ug/L	NC	20
8969596	Total Bismuth (Bi)	2018/04/26	93	80 - 120	97	80 - 120	<0.0050	ug/L	NC	20
8969596	Total Boron (B)	2018/04/26	101	80 - 120	109	80 - 120	<10	ug/L	NC	20
8969596	Total Cadmium (Cd)	2018/04/26	99	80 - 120	102	80 - 120	<0.0050	ug/L	NC	20
8969596	Total Chromium (Cr)	2018/04/26	100	80 - 120	102	80 - 120	<0.10	ug/L	NC	20
8969596	Total Cobalt (Co)	2018/04/26	96	80 - 120	100	80 - 120	<0.0050	ug/L	NC	20
8969596	Total Copper (Cu)	2018/04/26	96	80 - 120	100	80 - 120	<0.050	ug/L	NC	20
8969596	Total Iron (Fe)	2018/04/26	99	80 - 120	102	80 - 120	<1.0	ug/L	NC	20
8969596	Total Lead (Pb)	2018/04/26	94	80 - 120	100	80 - 120	<0.0050	ug/L	NC	20
8969596	Total Lithium (Li)	2018/04/26	95	80 - 120	106	80 - 120	<0.50	ug/L	NC	20
8969596	Total Manganese (Mn)	2018/04/26	98	80 - 120	102	80 - 120	<0.050	ug/L	NC	20
8969596	Total Molybdenum (Mo)	2018/04/26	100	80 - 120	102	80 - 120	<0.050	ug/L	NC	20
8969596	Total Nickel (Ni)	2018/04/26	98	80 - 120	104	80 - 120	<0.020	ug/L	NC	20
8969596	Total Phosphorus (P)	2018/04/26	100	80 - 120	105	80 - 120	<2.0	ug/L	NC	20
8969596	Total Selenium (Se)	2018/04/26	95	80 - 120	100	80 - 120	<0.040	ug/L	NC	20
8969596	Total Silicon (Si)	2018/04/26	101	80 - 120	110	80 - 120	<50	ug/L	NC	20
8969596	Total Silver (Ag)	2018/04/26	99	80 - 120	101	80 - 120	<0.0050	ug/L	NC	20
8969596	Total Strontium (Sr)	2018/04/26	96	80 - 120	98	80 - 120	<0.050	ug/L	NC	20
8969596	Total Thallium (Tl)	2018/04/26	94	80 - 120	100	80 - 120	<0.0020	ug/L	NC	20
8969596	Total Tin (Sn)	2018/04/26	96	80 - 120	99	80 - 120	<0.20	ug/L	NC	20
8969596	Total Titanium (Ti)	2018/04/26	97	80 - 120	100	80 - 120	<0.50	ug/L	NC	20
8969596	Total Uranium (U)	2018/04/26	98	80 - 120	104	80 - 120	<0.0020	ug/L	NC	20
8969596	Total Vanadium (V)	2018/04/26	99	80 - 120	101	80 - 120	<0.20	ug/L	NC	20
8969596	Total Zinc (Zn)	2018/04/26	98	80 - 120	102	80 - 120	<0.10	ug/L	NC	20
8969596	Total Zirconium (Zr)	2018/04/26	97	80 - 120	99	80 - 120	<0.10	ug/L	NC	20
8969686	Dissolved Organic Carbon (C)	2018/04/25	94	80 - 120	112	80 - 120	<0.50	mg/L	18	20
8969687	Dissolved Organic Carbon (C)	2018/04/25	110	80 - 120	112	80 - 120	<0.50	mg/L	NC	20
8969690	Total Organic Carbon (C)	2018/04/25	95	80 - 120	112	80 - 120	<0.50	mg/L	0.25	20

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QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8969900	Nitrate plus Nitrite (N)	2018/04/25	116	80 - 120	104	80 - 120	<0.0020	mg/L	1.4	25
8969902	Nitrite (N)	2018/04/25	115	80 - 120	101	80 - 120	<0.0020	mg/L	NC	25
8969904	Nitrate plus Nitrite (N)	2018/04/25	115	80 - 120	106	80 - 120	<0.0020	mg/L		
8969905	Nitrite (N)	2018/04/25	114	80 - 120	103	80 - 120	<0.0020	mg/L		
8969928	Total Aluminum (Al)	2018/04/27	106	80 - 120	107	80 - 120	<0.50	ug/L	3.7	20
8969928	Total Antimony (Sb)	2018/04/27	96	80 - 120	97	80 - 120	<0.020	ug/L	7.0	20
8969928	Total Arsenic (As)	2018/04/27	99	80 - 120	97	80 - 120	<0.020	ug/L	2.0	20
8969928	Total Barium (Ba)	2018/04/27	NC	80 - 120	97	80 - 120	<0.020	ug/L	3.0	20
8969928	Total Beryllium (Be)	2018/04/27	97	80 - 120	94	80 - 120	<0.010	ug/L	NC	20
8969928	Total Bismuth (Bi)	2018/04/27	93	80 - 120	94	80 - 120	<0.0050	ug/L	NC	20
8969928	Total Boron (B)	2018/04/27	94	80 - 120	93	80 - 120	<10	ug/L	NC	20
8969928	Total Cadmium (Cd)	2018/04/27	96	80 - 120	96	80 - 120	<0.0050	ug/L	8.5	20
8969928	Total Chromium (Cr)	2018/04/27	93	80 - 120	94	80 - 120	<0.10	ug/L	11	20
8969928	Total Cobalt (Co)	2018/04/27	93	80 - 120	94	80 - 120	<0.0050	ug/L	4.2	20
8969928	Total Copper (Cu)	2018/04/27	92	80 - 120	94	80 - 120	<0.050	ug/L	6.3	20
8969928	Total Iron (Fe)	2018/04/27	103	80 - 120	102	80 - 120	<1.0	ug/L	0.12	20
8969928	Total Lead (Pb)	2018/04/27	94	80 - 120	94	80 - 120	<0.0050	ug/L	NC	20
8969928	Total Lithium (Li)	2018/04/27	94	80 - 120	91	80 - 120	<0.50	ug/L	0.94	20
8969928	Total Manganese (Mn)	2018/04/27	NC	80 - 120	95	80 - 120	<0.050	ug/L	2.5	20
8969928	Total Molybdenum (Mo)	2018/04/27	100	80 - 120	99	80 - 120	<0.050	ug/L	15	20
8969928	Total Nickel (Ni)	2018/04/27	95	80 - 120	97	80 - 120	<0.020	ug/L	4.6	20
8969928	Total Phosphorus (P)	2018/04/27	110	80 - 120	104	80 - 120	<2.0	ug/L	NC	20
8969928	Total Selenium (Se)	2018/04/27	99	80 - 120	94	80 - 120	<0.040	ug/L	3.0	20
8969928	Total Silicon (Si)	2018/04/27	NC	80 - 120	108	80 - 120	<50	ug/L	2.6	20
8969928	Total Silver (Ag)	2018/04/27	95	80 - 120	96	80 - 120	<0.0050	ug/L	NC	20
8969928	Total Strontium (Sr)	2018/04/27	NC	80 - 120	98	80 - 120	<0.050	ug/L	2.7	20
8969928	Total Thallium (Tl)	2018/04/27	93	80 - 120	95	80 - 120	<0.0020	ug/L	NC	20
8969928	Total Tin (Sn)	2018/04/27	94	80 - 120	96	80 - 120	<0.20	ug/L	NC	20
8969928	Total Titanium (Ti)	2018/04/27	92	80 - 120	99	80 - 120	<0.50	ug/L	NC	20
8969928	Total Uranium (U)	2018/04/27	96	80 - 120	96	80 - 120	<0.0020	ug/L	3.6	20
8969928	Total Vanadium (V)	2018/04/27	96	80 - 120	95	80 - 120	<0.20	ug/L	NC	20

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QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8969928	Total Zinc (Zn)	2018/04/27	95	80 - 120	94	80 - 120	<0.10	ug/L	2.4	20
8969928	Total Zirconium (Zr)	2018/04/27	98	80 - 120	95	80 - 120	<0.10	ug/L	4.1	20
8969973	pH	2018/04/25			102	97 - 103			1.6	20
8969976	Alkalinity (PP as CaCO3)	2018/04/25					<0.50	mg/L	NC	20
8969976	Alkalinity (Total as CaCO3)	2018/04/25			99	80 - 120	<0.50	mg/L	5.3	20
8969976	Bicarbonate (HCO3)	2018/04/25					<0.50	mg/L	5.3	20
8969976	Carbonate (CO3)	2018/04/25					<0.50	mg/L	NC	20
8969976	Hydroxide (OH)	2018/04/25					<0.50	mg/L	NC	20
8969977	Conductivity	2018/04/25			100	80 - 120	<1.0	uS/cm	0.92	20
8969989	pH	2018/04/26			101	97 - 103			0.13	20
8969992	Alkalinity (PP as CaCO3)	2018/04/26					<0.50	mg/L		
8969992	Alkalinity (Total as CaCO3)	2018/04/26	NC	80 - 120	101	80 - 120	<0.50	mg/L		
8969992	Bicarbonate (HCO3)	2018/04/26					<0.50	mg/L		
8969992	Carbonate (CO3)	2018/04/26					<0.50	mg/L		
8969992	Hydroxide (OH)	2018/04/26					<0.50	mg/L		
8969993	Conductivity	2018/04/26			100	80 - 120	1.0, RDL=1.0	uS/cm		
8969995	pH	2018/04/26			101	97 - 103			0.12	20
8969998	Alkalinity (PP as CaCO3)	2018/04/26					<0.50	mg/L		
8969998	Alkalinity (Total as CaCO3)	2018/04/26	101	80 - 120	100	80 - 120	<0.50	mg/L		
8969998	Bicarbonate (HCO3)	2018/04/26					<0.50	mg/L		
8969998	Carbonate (CO3)	2018/04/26					<0.50	mg/L		
8969998	Hydroxide (OH)	2018/04/26					<0.50	mg/L		
8969999	Conductivity	2018/04/26			100	80 - 120	<1.0	uS/cm		
8970245	Total Aluminum (Al)	2018/04/27	73 (1)	80 - 120	111	80 - 120	<3.0	ug/L	4.4	20
8970245	Total Antimony (Sb)	2018/04/27	102	80 - 120	100	80 - 120	<0.020	ug/L	4.2	20
8970245	Total Arsenic (As)	2018/04/27	102	80 - 120	100	80 - 120	<0.020	ug/L	2.7	20
8970245	Total Barium (Ba)	2018/04/27	NC	80 - 120	99	80 - 120	<0.050	ug/L	0.34	20
8970245	Total Beryllium (Be)	2018/04/27	102	80 - 120	102	80 - 120	<0.010	ug/L	NC	20
8970245	Total Bismuth (Bi)	2018/04/27	99	80 - 120	99	80 - 120	<0.010	ug/L	NC	20
8970245	Total Boron (B)	2018/04/27	95	80 - 120	106	80 - 120	<10	ug/L	3.3	20
8970245	Total Cadmium (Cd)	2018/04/27	101	80 - 120	102	80 - 120	<0.0050	ug/L	9.2	20

Maxxam Job #: B830387
Report Date: 2018/05/04

QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: LE

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8970245	Total Chromium (Cr)	2018/04/27	99	80 - 120	99	80 - 120	<0.10	ug/L	9.1	20
8970245	Total Cobalt (Co)	2018/04/27	99	80 - 120	98	80 - 120	<0.010	ug/L	5.9	20
8970245	Total Copper (Cu)	2018/04/27	98	80 - 120	99	80 - 120	<0.10	ug/L	6.0	20
8970245	Total Iron (Fe)	2018/04/27	NC	80 - 120	107	80 - 120	<5.0	ug/L	0.16	20
8970245	Total Lead (Pb)	2018/04/27	98	80 - 120	99	80 - 120	<0.020	ug/L	2.8	20
8970245	Total Lithium (Li)	2018/04/27	88	80 - 120	103	80 - 120	<0.50	ug/L	0.97	20
8970245	Total Manganese (Mn)	2018/04/27	NC	80 - 120	100	80 - 120	<0.10	ug/L	0.78	20
8970245	Total Molybdenum (Mo)	2018/04/27	99	80 - 120	101	80 - 120	<0.050	ug/L	0.75	20
8970245	Total Nickel (Ni)	2018/04/27	98	80 - 120	99	80 - 120	<0.10	ug/L	6.4	20
8970245	Total Phosphorus (P)	2018/04/26	110	80 - 120	104	80 - 120	<5.0	ug/L		
8970245	Total Selenium (Se)	2018/04/27	100	80 - 120	99	80 - 120	<0.040	ug/L	16	20
8970245	Total Silicon (Si)	2018/04/27	NC	80 - 120	111	80 - 120	<50	ug/L	0.43	20
8970245	Total Silver (Ag)	2018/04/27	101	80 - 120	102	80 - 120	<0.010	ug/L	NC	20
8970245	Total Strontium (Sr)	2018/04/27	NC	80 - 120	100	80 - 120	<0.050	ug/L	0.32	20
8970245	Total Thallium (Tl)	2018/04/27	99	80 - 120	99	80 - 120	<0.0020	ug/L	4.3	20
8970245	Total Tin (Sn)	2018/04/27	102	80 - 120	101	80 - 120	<0.20	ug/L	NC	20
8970245	Total Titanium (Ti)	2018/04/27	94	80 - 120	100	80 - 120	<2.0	ug/L	NC	20
8970245	Total Uranium (U)	2018/04/27	102	80 - 120	104	80 - 120	<0.0050	ug/L	1.1	20
8970245	Total Vanadium (V)	2018/04/27	99	80 - 120	100	80 - 120	<0.20	ug/L	0.30	20
8970245	Total Zinc (Zn)	2018/04/27	98	80 - 120	101	80 - 120	<1.0	ug/L	2.9	20
8970245	Total Zirconium (Zr)	2018/04/27	83	80 - 120	100	80 - 120	<0.10	ug/L	3.0	20
8970511	Total Dissolved Solids	2018/04/27	107	80 - 120	93	80 - 120	<10	mg/L	5.0	20
8970672	Total Mercury (Hg)	2018/04/26	93	80 - 120	96	80 - 120	<0.0020	ug/L	NC	20
8971286	Total Dissolved Solids	2018/04/30	100	80 - 120	90	80 - 120	<10	mg/L	1.8	20
8971293	pH	2018/04/26			101	97 - 103			0	20
8971299	Alkalinity (PP as CaCO3)	2018/04/26					<0.50	mg/L		
8971299	Alkalinity (Total as CaCO3)	2018/04/26	NC	80 - 120	92	80 - 120	<0.50	mg/L		
8971299	Bicarbonate (HCO3)	2018/04/26					<0.50	mg/L		
8971299	Carbonate (CO3)	2018/04/26					<0.50	mg/L		
8971299	Hydroxide (OH)	2018/04/26					<0.50	mg/L		
8971300	Conductivity	2018/04/26			100	80 - 120	<1.0	uS/cm		

Maxxam Job #: B830387
Report Date: 2018/05/04

QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: LE

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8971336	Dissolved Chloride (Cl)	2018/04/26			104	80 - 120	<0.50	mg/L		
8971338	Dissolved Sulphate (SO4)	2018/04/26			99	80 - 120	<0.50	mg/L		
8971350	Dissolved Chloride (Cl)	2018/04/26	NC	80 - 120	97	80 - 120	<0.50	mg/L	6.1	20
8971351	Dissolved Sulphate (SO4)	2018/04/26			93	80 - 120	0.89, RDL=0.50	mg/L	0.76	20
8971354	Dissolved Chloride (Cl)	2018/04/26	116	80 - 120	97	80 - 120	<0.50	mg/L	17	20
8971355	Dissolved Sulphate (SO4)	2018/04/26	NC	80 - 120	94	80 - 120	0.73, RDL=0.50	mg/L	0.31	20
8971709	Total Mercury (Hg)	2018/04/27	91	80 - 120	92	80 - 120	<0.0020	ug/L	NC	20
8971813	Total Mercury (Hg)	2018/04/27	84	80 - 120	96	80 - 120	<0.0020	ug/L	0.42	20
8971845	Dissolved Mercury (Hg)	2018/04/27	106	80 - 120	92	80 - 120	<0.0020	ug/L	2.8	20
8971851	Total Suspended Solids	2018/04/30			106	80 - 120	<1.0	mg/L		
8971852	Total Suspended Solids	2018/04/30			108	80 - 120	<1.0	mg/L		
8972132	Total Ammonia (N)	2018/04/27	115	80 - 120	92	80 - 120	<0.0050	mg/L	0	20
8972133	Total Dissolved Solids	2018/04/30	98	80 - 120	97	80 - 120	<10	mg/L	0.62	20
8972134	Total Ammonia (N)	2018/04/27	NC	80 - 120	108	80 - 120	<0.0050	mg/L	13	20
8972276	Fluoride (F)	2018/04/27	104	80 - 120	102	80 - 120	0.012, RDL=0.010	mg/L	1.0	20
8972533	Fluoride (F)	2018/04/27	100	80 - 120	104	80 - 120	<0.010	mg/L	2.5	20
8973073	Nitrate plus Nitrite (N)	2018/04/29	87	80 - 120	92	80 - 120	<0.0020	mg/L	NC	25
8973074	Nitrite (N)	2018/04/29	102	80 - 120	103	80 - 120	<0.0020	mg/L	NC	25
8973657	Total Dissolved Solids	2018/05/01	104	80 - 120	100	80 - 120	<10	mg/L	2.0	20
8973730	Total Mercury (Hg)	2018/04/30	101	80 - 120	101	80 - 120	<0.0020	ug/L	NC	20
8973744	Dissolved Mercury (Hg)	2018/04/30	101	80 - 120	101	80 - 120	<0.0020	ug/L	NC	20
8974168	Dissolved Tin (Sn)	2018/04/30			100	80 - 120	<0.20	ug/L		
8974234	Total Organic Carbon (C)	2018/04/30	87	80 - 120	105	80 - 120	<0.50	mg/L	2.0	20
8975460	Dissolved Sulphate (SO4)	2018/04/30			95	80 - 120	<0.50	mg/L		
8976713	Dissolved Chloride (Cl)	2018/05/02	91	80 - 120	98	80 - 120	<0.50	mg/L	2.2	20
8976714	Dissolved Sulphate (SO4)	2018/05/02	NC	80 - 120	97	80 - 120	<0.50	mg/L	0.28	20
8978370	Dissolved Organic Carbon (C)	2018/05/03			112	80 - 120	<0.50	mg/L		

Maxxam Job #: B830387
Report Date: 2018/05/04

QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: LE

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8978372	Total Organic Carbon (C)	2018/05/03			112	80 - 120	<0.50	mg/L		

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

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

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

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

Maxxam Job #: B830387
Report Date: 2018/05/04

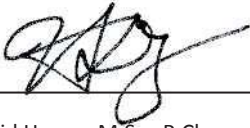
LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: LE

VALIDATION SIGNATURE PAGE

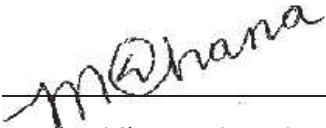
The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Andy Lu, Ph.D., P.Chem., Scientific Specialist



David Huang, M.Sc., P.Chem., QP, Scientific Services Manager



Mandheraj Chana, Junior Project Manager

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

INVOICE TO:		Report Information		Project Information	
Company Name	#3604 LORAX ENVIRONMENTAL SERVICES LTD.	Company Name		Quotation #	B40231
Contact Name	Aida Piaseczny	Contact Name	David Flather	P.O. #	
Address	2289 BURRARD STREET VANCOUVER BC V6J 3H9	Address		Project #	Gold Corp Coffee Creek-SW
Phone	(604) 688-7173 x	Phone		Project Name	
Fax	(604) 688-7175 x	Fax		Site #	
Email	aida.piaseczny@lorax.ca; shukling.ng@lorax.ca	Email	David.Flather@lorax.ca	Sampled By	



B830387_COC

551215

Project Manager
Diana Cruz

CP551215-01-01

Regulatory Criteria	Special Instructions	Analysis Requested													
		Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	Routine (Alk-L, EC-L, NH4-L, pH, TDS)	TSS-Low Level	Anions (LL-Cl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP			

Turnaround Time (TAT) Required
Please provide advance notice for rush projects

Regular (Standard) TAT
(will be applied if Rush TAT is not specified)
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: _____ Time Required: _____

Rush Confirmation Number _____ (call lab for #)

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 10°C) from time of sampling until delivery to maxxam

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	Routine (Alk-L, EC-L, NH4-L, pH, TDS)	TSS-Low Level	Anions (LL-Cl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	# of Bottles	Comments
SID#162743	CC-0.5	21-Apr	1030	H ₂ O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	RECEIVED IN WHITEHORSE
SID#162744	CC-1.0	21-Apr	1235	H ₂ O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	BY: <i>shyano@1100</i>
SID#162745	CC-1.5	21-Apr	1305	H ₂ O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	2018-04-2
SID#162746	CC-3.5	21-Apr	1105	H ₂ O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	3 3 3
SID#162747	CC-4.5	22-Apr	1140	H ₂ O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	4 3 3
SID#162748	CC-5.0																3 3 4
SID#149895	CC-5.5																1 1 1
SID#149896	CC-6.0																3 3 3
SID#149897	CC-A																
SID#149898	CC-B																

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# Jars used and not submitted	Lab Use Only	
<i>[Signature]</i>	18/07/22	1900	<i>[Signature]</i>	18/07/22	13:35	NA	Time Sensitive <input type="checkbox"/>	Temperature (°C) on Receipt SEE ADTK
							Custody Seal Intact on Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.

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Maxxam Analytics International Corporation o/a Maxxam Analytics
 4606 Canada Way, Burnaby, British Columbia Canada V5G 1K5 Tel:(604) 734 7276 Toll-free:800-563-6266 Fax:(604) 731 2386 www.maxxam.ca

INVOICE TO:		Report Information		Project Information	
Company Name	#3604 LORAX ENVIRONMENTAL SERVICES LTD.	Company Name	David Flather	Quotation #	B40231
Contact Name	Aida Piaseczny	Contact Name	David Flather	P.O. #	
Address	2289 BURRARD STREET VANCOUVER BC V6J 3H9	Address		Project #	Gold Corp Coffee Creek-SW
Phone	(604) 688-7173 x	Phone		Project Name	
Email	aida.piaseczny@lorax.ca; shukling.ng@lorax.ca	Email	David.Flather@lorax.ca	Site #	
		Fax:		Sampled By	



B830387_COC

Bottle Order #:



551215

Project Manager

Diana Cruz



CR951215-02-01

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	Analysis Requested										# of Bottles	Comments
							Routine (Alk-LI, EC-LI, NH4-LI, pH, TDS)	TSS-Low Level	Anions (LL-Cl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals Incl. CV Hg	Low Level Total Metals Incl. CV Hg	ORP			
1	CC-C	21/Apr	1330	H ₂ O	N	U	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	could be melt
2	CC-D																	
3	CC-X																	RECEIVED IN WHITEHORSE BY: SLUGG@1100
4	HC-2.5	21/Apr	1445	H ₂ O	N	U	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	2010 04 23
5	HC-5.0	21/Apr	1650	H ₂ O	N	U	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	TEMP: 4 / 3 / 3
6	HC-A																	3 3 3
7	HC-B	21/Apr	1530	H ₂ O	N	U	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	3 3 4
8	HC-C																	3 3 3
9	IC-0.5	22/Apr	1415	H ₂ O	N	U	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
10	IC-1.5	22/Apr	1220	H ₂ O	N	U	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	inter-aufeis, gas flow

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# Jars used and not submitted	Lab Use Only
<i>[Signature]</i>	18/04/22	19:00	<i>[Signature]</i>	18/04/24	15:35	NA	Time Sensitive <input type="checkbox"/> Temperature (°C) on Receipt SEE ACTA Custody Seal Intact on Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.							White: Maxxam Yellow: Client
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INVOICE TO:		Report Information		Project Information	
Company Name	#3604 LORAX ENVIRONMENTAL SERVICES LTD.	Company Name	David Flather	Quotation #	B40231
Contact Name	Aida Piaseczny	Contact Name	David Flather	P.O. #	
Address	2289 BURRARD STREET VANCOUVER BC V6J 3H9	Address		Project #	Gold Corp Coffee Creek-SW
Phone	(604) 688-7173 x	Phone		Project Name	
Fax	(604) 688-7175 x	Fax		Site #	
Email	aida.piaseczny@lorax.ca; shukling.ng@lorax.ca	Email	David.Flather@lorax.ca	Sampled By	LABERG ENVIRONMENTAL



B830387_COC

Bottle Order #: 551215
Project Manager: Diana Cruz

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y/N)	Metals Filtered ? (Y/N)	Analysis Requested										# of Bottles	Comments
							Routine (Alk-L, EC-L, NH4-L, pH, TDS)	TSS-Low Level	Anions (LL-Cl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP			
1 SID#206060	IC-4.5	22/April	1440	H ₂ O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	inter-aufeis sample
2 SID#206061	YT-24																	
3 SID#206062	YT-24-2			H ₂ O													13	2019 04 25
4 SID#206063	YUK-2.0	21/April	1820	H ₂ O	N	M	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	3 3 3
5 SID#206064	YUK-5.0	22/April	1510	H ₂ O	N	M	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	TEMP: 4 1 3 1 3
6 SID#206065	Ballarat U/S Y.R.	22/April	1110	H ₂ O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	inter-aufeis sample, good flow
7 SID#206066	Barker U/S S.R.	22/April	1635	H ₂ O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	1 1 1
8 SID#206067	Stewart D/S M.M.	22/April	1620	H ₂ O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	3 3 3
9 SID#206068	Latte Mix	21/April	1745	H ₂ O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	
10 SID#206069	Sample A	22/April		H ₂ O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Lab Use Only	
<i>[Signature]</i>	18/04/22	1800	<i>[Signature]</i>	18/04/24	1300	NA	Time Sensitive <input type="checkbox"/>	Temperature (°C) on Receipt: SEE AGR
							Custody Seal Intact on Cooler? <input type="checkbox"/> Yes <input type="checkbox"/> No	

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.
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INVOICE TO:
 Company Name: #3604 LORAX ENVIRONMENTAL SERVICES LTD.
 Contact Name: Aida Piaseczny
 Address: 2289 BURRARD STREET
 VANCOUVER BC V6J 3H9
 Phone: (604) 688-7173 x Fax: (604) 688-7175 x
 Email: aida.piaseczny@lorax.ca; shukling.ng@lorax.ca

Report Information
 Company Name: David Flather
 Contact Name: David Flather
 Address: _____
 Phone: _____ Fax: _____
 Email: David.Flather@lorax.ca

Project Information
 Quotation #: B40231
 P.O. #: _____
 Project #: Gold Corp Coffee Creek-
 Project Name: _____
 Site #: _____
 Sampled By: _____



B830387_COC

Only
 Bottle Order #: _____
 551215
 Project Manager: Diana Cruz

Regulatory Criteria	Special Instructions	Analysis Requested												Turnaround Time (TAT) Required		
		Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	Routine (Alk-LI, EC-LI, NH4-LI, pH, TDS)	TSS-Low Level	Anions (LL-Cl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	# of Bottles	Comments		
<p>Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form</p> <p>Samples must be kept cool (< 10°C) from time of sampling until delivery to maxxam</p>														<p>Regular (Standard) TAT (will be applied if Rush TAT is not specified) Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.</p> <p>Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____ Rush Confirmation Number: _____ (call lab for #)</p>		
1	Sample B															RECEIVED IN PROGRESS
2	FIELD BLANK	27/4/22	1800	170	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	BY: Slyam@1100
3	TRIP BLANK				N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	2018-06-23
4	FEAS															TEMP: 3 3 3
5	Blackhills	22/4/22			N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	3 3 4
6	Misty May D/S Street	22/4/22			N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	1 1 1
7																3 3 3
8																
9																
10																

* RELINQUISHED BY: (Signature/Print) *[Signature]* Date: (YY/MM/DD) 18/04/22 Time 1405 RECEIVED BY: (Signature/Print) *[Signature]* Date: (YY/MM/DD) 18/04/22 Time 1305 # Jars used and not submitted NA

Lab Use Only
 Time Sensitive Temperature (°C) on Receipt *SEE ACTR* Custody Seal Intact on Cooler? Yes No
 White: Maxxam Yellow: Client

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.
 * IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

Your Project #: B830387
Your C.O.C. #: b830387-ontv-01-01

Attention: Diana Cruz

Maxxam Analytics
4606 Canada Way
Burnaby, BC
V5G 1K5

Report Date: 2018/05/03
Report #: R5101543
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B895339

Received: 2018/04/26, 10:12

Sample Matrix: Water
Samples Received: 22

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Free (WAD) Cyanide	22	N/A	2018/05/01	CAM SOP-00457	OMOE E3015 m

Remarks:

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Maxxam's profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Maxxam in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected.

Maxxam Analytics' liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Maxxam has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Maxxam, unless otherwise agreed in writing.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

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

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key



Nazeema Rahaman
Project Manager
03 May 2018 13:21:54

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Nazeema Rahaman, Project Manager

Email: NRahaman@maxxam.ca

Phone# (905) 817-5700

=====
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

RESULTS OF ANALYSES OF WATER

Maxxam ID		GNV924	GNV925		GNV926			
Sampling Date		2018/04/21 10:30	2018/04/21 12:35		2018/04/21 13:05			
COC Number		b830387-ontv-01-01	b830387-ontv-01-01		b830387-ontv-01-01			
	UNITS	TH8809-CC-0.5	TH8810-CC-1.0	QC Batch	TH8811-CC-1.5	RDL	MDL	QC Batch
WAD Cyanide (Free)	mg/L	ND	ND	5505014	ND	0.0010	0.00040	5505420
RDL = Reportable Detection Limit QC Batch = Quality Control Batch ND = Not detected								

Maxxam ID		GNV926	GNV927	GNV928			
Sampling Date		2018/04/21 13:05	2018/04/21 11:05	2018/04/21 11:40			
COC Number		b830387-ontv-01-01	b830387-ontv-01-01	b830387-ontv-01-01			
	UNITS	TH8811-CC-1.5 Lab-Dup	TH8812-CC-3.5	TH8813-CC-4.5	RDL	MDL	QC Batch
WAD Cyanide (Free)	mg/L	ND	ND	ND	0.0010	0.00040	5505420
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate ND = Not detected							

Maxxam ID		GNV929	GNV930	GNV931			
Sampling Date		2018/04/21 13:30	2018/04/21 14:45	2018/04/21 16:50			
COC Number		b830387-ontv-01-01	b830387-ontv-01-01	b830387-ontv-01-01			
	UNITS	TH8822-CC-C	TH8823-HC-2.5	TH8824-HC-5.0	RDL	MDL	QC Batch
WAD Cyanide (Free)	mg/L	ND	ND	ND	0.0010	0.00040	5505420
RDL = Reportable Detection Limit QC Batch = Quality Control Batch ND = Not detected							

Maxxam ID		GNV932	GNV933	GNV934			
Sampling Date		2018/04/21 15:30	2018/04/22 14:15	2018/04/22 12:20			
COC Number		b830387-ontv-01-01	b830387-ontv-01-01	b830387-ontv-01-01			
	UNITS	TH8825-HC-B	TH8826-IC-0.5	TH8827-IC-1.5	RDL	MDL	QC Batch
WAD Cyanide (Free)	mg/L	ND	ND	ND	0.0010	0.00040	5505420
RDL = Reportable Detection Limit QC Batch = Quality Control Batch ND = Not detected							

RESULTS OF ANALYSES OF WATER

Maxxam ID		GNV935	GNV936	GNV937			
Sampling Date		2018/04/22 14:40	2018/04/21 18:20	2018/04/22 15:10			
COC Number		b830387-ontv-01-01	b830387-ontv-01-01	b830387-ontv-01-01			
	UNITS	TH8833-IC-4.5	TH8834-YUK-2.0	TH8835-YUK-5.0	RDL	MDL	QC Batch
WAD Cyanide (Free)	mg/L	ND	ND	ND	0.0010	0.00040	5505420
RDL = Reportable Detection Limit QC Batch = Quality Control Batch ND = Not detected							

Maxxam ID		GNV938	GNV939	GNV940			
Sampling Date		2018/04/22 11:10	2018/04/22 16:35	2018/04/22 16:20			
COC Number		b830387-ontv-01-01	b830387-ontv-01-01	b830387-ontv-01-01			
	UNITS	TH8836-BALLARAT U/S Y.R.	TH8837-BARKER U/S S.R.	TH8838-STEWART D/S M.M.	RDL	MDL	QC Batch
WAD Cyanide (Free)	mg/L	ND	ND	ND	0.0010	0.00040	5505420
RDL = Reportable Detection Limit QC Batch = Quality Control Batch ND = Not detected							

Maxxam ID		GNV941	GNV942	GNV943			
Sampling Date		2018/04/21 17:45	2018/04/22	2018/04/24 18:00			
COC Number		b830387-ontv-01-01	b830387-ontv-01-01	b830387-ontv-01-01			
	UNITS	TH8839-LATTE MIX	TH8840-SAMPLE A	TH8842-FIELD BLANK	RDL	MDL	QC Batch
WAD Cyanide (Free)	mg/L	ND	ND	ND	0.0010	0.00040	5505420
RDL = Reportable Detection Limit QC Batch = Quality Control Batch ND = Not detected							

Maxxam ID		GNV944	GNV945			
Sampling Date		2018/04/24	2018/04/22			
COC Number		b830387-ontv-01-01	b830387-ontv-01-01			
	UNITS	TH8843-TRIP BLANK	TH8844-BLACK HILLS	RDL	MDL	QC Batch
WAD Cyanide (Free)	mg/L	ND	ND	0.0010	0.00040	5505420
RDL = Reportable Detection Limit QC Batch = Quality Control Batch ND = Not detected						

TEST SUMMARY

Maxxam ID: GNV924
Sample ID: TH8809-CC-0.5
Matrix: Water

Collected: 2018/04/21
Shipped:
Received: 2018/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	SKAL/CN	5505014	N/A	2018/05/01	Xuanhong Qiu

Maxxam ID: GNV925
Sample ID: TH8810-CC-1.0
Matrix: Water

Collected: 2018/04/21
Shipped:
Received: 2018/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	SKAL/CN	5505014	N/A	2018/05/01	Xuanhong Qiu

Maxxam ID: GNV926
Sample ID: TH8811-CC-1.5
Matrix: Water

Collected: 2018/04/21
Shipped:
Received: 2018/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	SKAL/CN	5505420	N/A	2018/05/01	Xuanhong Qiu

Maxxam ID: GNV926 Dup
Sample ID: TH8811-CC-1.5
Matrix: Water

Collected: 2018/04/21
Shipped:
Received: 2018/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	SKAL/CN	5505420	N/A	2018/05/01	Xuanhong Qiu

Maxxam ID: GNV927
Sample ID: TH8812-CC-3.5
Matrix: Water

Collected: 2018/04/21
Shipped:
Received: 2018/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	SKAL/CN	5505420	N/A	2018/05/01	Xuanhong Qiu

Maxxam ID: GNV928
Sample ID: TH8813-CC-4.5
Matrix: Water

Collected: 2018/04/21
Shipped:
Received: 2018/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	SKAL/CN	5505420	N/A	2018/05/01	Xuanhong Qiu

Maxxam ID: GNV929
Sample ID: TH8822-CC-C
Matrix: Water

Collected: 2018/04/21
Shipped:
Received: 2018/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	SKAL/CN	5505420	N/A	2018/05/01	Xuanhong Qiu

TEST SUMMARY

Maxxam ID: GNV930
Sample ID: TH8823-HC-2.5
Matrix: Water

Collected: 2018/04/21
Shipped:
Received: 2018/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	SKAL/CN	5505420	N/A	2018/05/01	Xuanhong Qiu

Maxxam ID: GNV931
Sample ID: TH8824-HC-5.0
Matrix: Water

Collected: 2018/04/21
Shipped:
Received: 2018/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	SKAL/CN	5505420	N/A	2018/05/01	Xuanhong Qiu

Maxxam ID: GNV932
Sample ID: TH8825-HC-B
Matrix: Water

Collected: 2018/04/21
Shipped:
Received: 2018/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	SKAL/CN	5505420	N/A	2018/05/01	Xuanhong Qiu

Maxxam ID: GNV933
Sample ID: TH8826-IC-0.5
Matrix: Water

Collected: 2018/04/22
Shipped:
Received: 2018/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	SKAL/CN	5505420	N/A	2018/05/01	Xuanhong Qiu

Maxxam ID: GNV934
Sample ID: TH8827-IC-1.5
Matrix: Water

Collected: 2018/04/22
Shipped:
Received: 2018/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	SKAL/CN	5505420	N/A	2018/05/01	Xuanhong Qiu

Maxxam ID: GNV935
Sample ID: TH8833-IC-4.5
Matrix: Water

Collected: 2018/04/22
Shipped:
Received: 2018/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	SKAL/CN	5505420	N/A	2018/05/01	Xuanhong Qiu

Maxxam ID: GNV936
Sample ID: TH8834-YUK-2.0
Matrix: Water

Collected: 2018/04/21
Shipped:
Received: 2018/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	SKAL/CN	5505420	N/A	2018/05/01	Xuanhong Qiu

TEST SUMMARY

Maxxam ID: GNV937
Sample ID: TH8835-YUK-5.0
Matrix: Water

Collected: 2018/04/22
Shipped:
Received: 2018/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	SKAL/CN	5505420	N/A	2018/05/01	Xuanhong Qiu

Maxxam ID: GNV938
Sample ID: TH8836-BALLARAT U/S Y.R.
Matrix: Water

Collected: 2018/04/22
Shipped:
Received: 2018/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	SKAL/CN	5505420	N/A	2018/05/01	Xuanhong Qiu

Maxxam ID: GNV939
Sample ID: TH8837-BARKER U/S S.R.
Matrix: Water

Collected: 2018/04/22
Shipped:
Received: 2018/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	SKAL/CN	5505420	N/A	2018/05/01	Xuanhong Qiu

Maxxam ID: GNV940
Sample ID: TH8838-STEWART D/S M.M.
Matrix: Water

Collected: 2018/04/22
Shipped:
Received: 2018/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	SKAL/CN	5505420	N/A	2018/05/01	Xuanhong Qiu

Maxxam ID: GNV941
Sample ID: TH8839-LATTE MIX
Matrix: Water

Collected: 2018/04/21
Shipped:
Received: 2018/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	SKAL/CN	5505420	N/A	2018/05/01	Xuanhong Qiu

Maxxam ID: GNV942
Sample ID: TH8840-SAMPLE A
Matrix: Water

Collected: 2018/04/22
Shipped:
Received: 2018/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	SKAL/CN	5505420	N/A	2018/05/01	Xuanhong Qiu

Maxxam ID: GNV943
Sample ID: TH8842-FIELD BLANK
Matrix: Water

Collected: 2018/04/24
Shipped:
Received: 2018/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	SKAL/CN	5505420	N/A	2018/05/01	Xuanhong Qiu

TEST SUMMARY

Maxxam ID: GNV944
Sample ID: TH8843-TRIP BLANK
Matrix: Water

Collected: 2018/04/24
Shipped:
Received: 2018/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	SKAL/CN	5505420	N/A	2018/05/01	Xuanhong Qiu

Maxxam ID: GNV945
Sample ID: TH8844-BLACK HILLS
Matrix: Water

Collected: 2018/04/22
Shipped:
Received: 2018/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	SKAL/CN	5505420	N/A	2018/05/01	Xuanhong Qiu

GENERAL COMMENTS

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

Package 1	7.0°C
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Results relate only to the items tested.

QUALITY ASSURANCE REPORT

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
5505014	WAD Cyanide (Free)	2018/05/01	85	80 - 120	106	80 - 120	ND, RDL=0.0010	mg/L	NC	20
5505420	WAD Cyanide (Free)	2018/05/01	99	80 - 120	99	80 - 120	ND, RDL=0.0010	mg/L	NC	20

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

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

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

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference $\leq 2 \times$ RDL).

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Cristina Carriere

Cristina Carriere, Scientific Service Specialist

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Your Project #: Gold Corp Coffee Creek-SW
 Site Location: COFFEE CREEK - SURFACE WATER
 Your C.O.C. #: 553730-01-01, 553730-02-01

Attention: David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
 2289 BURRARD STREET
 VANCOUVER, BC
 CANADA V6J 3H9

Report Date: 2018/06/04

Report #: R2563297

Version: 2 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B839743

Received: 2018/05/23, 13:45

Sample Matrix: Water
 # Samples Received: 12

Analyses	Date		Laboratory Method	Analytical Method
	Quantity	Extracted		
Alkalinity - Low Level	9	N/A	2018/05/25 BBY6SOP-00026	SM 22 2320 B m
Alkalinity - Low Level	3	N/A	2018/05/26 BBY6SOP-00026	SM 22 2320 B m
Chloride - Low Level	12	N/A	2018/05/25 BBY6SOP-00011	SM 22 4500-Cl- E m
Carbon (DOC) - field filtered/preserved (2)	12	N/A	2018/05/28 BBY6SOP-00003	SM 22 5310 C m
Conductance - Low Level	9	N/A	2018/05/25 BBY6SOP-00026	SM 22 2510 B m
Conductance - Low Level	3	N/A	2018/05/26 BBY6SOP-00026	SM 22 2510 B m
Fluoride - Low Level	12	N/A	2018/05/28 BBY6SOP-00048	SM 22 4500-F C m
Hardness Total (calculated as CaCO3) (3)	12	N/A	2018/05/30 BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3)	12	N/A	2018/05/28 BBY WI-00033	Auto Calc
Mercury (Dissolved) by CVAf	12	N/A	2018/05/25 BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Total) by CVAf	12	2018/05/25	2018/05/25 BBY7SOP-00015	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	12	N/A	2018/05/28 BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (dissolved)	12	N/A	2018/05/26 BBY7SOP-00002	EPA 6020b R2 m
Elements by ICPMS Digested LL (total)	12	2018/05/28	2018/05/29 BBY7SOP-00003,	EPA 6020b R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total)	12	N/A	2018/05/30 BBY WI-00033	Auto Calc
Ammonia-N Low Level (Preserved)	12	N/A	2018/05/25 BBY6SOP-00009	EPA 350.1 m
Nitrate+Nitrite (N) (low level)	12	N/A	2018/05/25 BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrite (N) (low level)	12	N/A	2018/05/25 BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrogen - Nitrate (as N) Low Level Calc	12	N/A	2018/05/26 BBY WI-00033	Auto Calc
ORP Analysis on Water by ARD LAB	12	N/A	2018/05/25 BBY0SOP-00004	SM 22 2580 B
Filter and HNO3 Preserve for Metals	12	N/A	2018/05/25 BBY7 WI-00004	BCMOE Reqs 08/14
pH Water (4)	9	N/A	2018/05/25 BBY6SOP-00026	SM 22 4500-H+ B m
pH Water (4)	3	N/A	2018/05/26 BBY6SOP-00026	SM 22 4500-H+ B m
Sulphate - Low Level	12	N/A	2018/05/25 BBY6SOP-00017	SM 22 4500-SO42- E m
Total Dissolved Solids (Filt. Residue)	12	2018/05/29	2018/05/30 BBY6SOP-00033	SM 22 2540 C m
Carbon (Total Organic) (5)	12	N/A	2018/05/28 BBY6SOP-00003	SM 22 5310 C m
Total Suspended Solids-Low Level	12	2018/05/27	2018/05/28 BBY6SOP-00034	SM 22 2540 D
WAD Cyanide Water Subcontract (1)	12	2018/06/01	2018/06/01	

Remarks:

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted,

Your Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Your C.O.C. #: 553730-01-01, 553730-02-01

Attention: David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
2289 BURRARD STREET
VANCOUVER, BC
CANADA V6J 3H9

Report Date: 2018/06/04
Report #: R2563297
Version: 2 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B839743

Received: 2018/05/23, 13:45

procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Maxxam's profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Maxxam in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected.

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Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

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

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

- (1) This test was performed by Maxxam Ontario (From Burnaby)
- (2) DOC present in the sample should be considered as non-purgeable DOC.
- (3) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).
- (4) The BC-MOE and APHA Standard Method require pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the BC-MOE/APHA Standard Method holding time.
- (5) TOC present in the sample should be considered as non-purgeable TOC.

Encryption Key



Diana Cruz
Junior Project Manager
04 Jun 2018 17:07:23

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Diana Cruz, Junior Project Manager

Email: DCruz@maxxam.ca

Phone# (604) 734 7276

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Job #: B839743
Report Date: 2018/06/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TM4589	TM4590		TM4591		TM4592		
Sampling Date		2018/05/22 09:36	2018/05/22 10:18		2018/05/22 09:47		2018/05/22 07:50		
COC Number		553730-01-01	553730-01-01		553730-01-01		553730-01-01		
	UNITS	CC-0.5	CC-1.5	QC Batch	CC-3.5	QC Batch	CC-4.5	RDL	QC Batch
Parameter									
ORP	mV	473	475	9001405	354	9001405	361		9001405
Subcontract Parameter	N/A	ATTACHED	ATTACHED	9009842	ATTACHED	9009842	ATTACHED	N/A	9009842
Calculated Parameters									
Filter and HNO3 Preservation	N/A	LAB	LAB	9000377	LAB	9000377	LAB		9000377
Nitrate (N)	mg/L	0.0533	0.106	8999828	0.116	8999828	0.0798	0.0020	8999828
Misc. Inorganics									
Fluoride (F)	mg/L	0.043	0.043	9004026	0.048	9004026	0.046	0.010	9004026
Dissolved Organic Carbon (C)	mg/L	14.0	16.2	9003899	15.4	9003874	15.3	0.50	9003899
Alkalinity (Total as CaCO3)	mg/L	21.2	29.1	9002629	50.6	9002640	27.0	0.50	9002629
Total Organic Carbon (C)	mg/L	16.1	18.8	9003861	17.9	9003908	15.5	0.50	9003908
Alkalinity (PP as CaCO3)	mg/L	<0.50	<0.50	9002629	<0.50	9002640	<0.50	0.50	9002629
Bicarbonate (HCO3)	mg/L	25.8	35.5	9002629	61.7	9002640	32.9	0.50	9002629
Carbonate (CO3)	mg/L	<0.50	<0.50	9002629	<0.50	9002640	<0.50	0.50	9002629
Hydroxide (OH)	mg/L	<0.50	<0.50	9002629	<0.50	9002640	<0.50	0.50	9002629
Anions									
Dissolved Sulphate (SO4)	mg/L	19.4	33.4	9002120	53.2	9002120	29.9	0.50	9002120
Dissolved Chloride (Cl)	mg/L	0.86	0.72	9002119	0.75	9002119	0.79	0.50	9002119
Nutrients									
Total Ammonia (N)	mg/L	0.011	0.015	9001918	0.018	9001918	0.010	0.0050	9001918
Nitrate plus Nitrite (N)	mg/L	0.0533	0.106	9001417	0.116	9001422	0.0798	0.0020	9001417
Nitrite (N)	mg/L	<0.0020	<0.0020	9001421	<0.0020	9001425	<0.0020	0.0020	9001421
Physical Properties									
Conductivity	uS/cm	90.1	130	9002630	223	9002641	122	1.0	9002630
pH	pH	7.27	7.41	9002626	7.76	9002635	7.39		9002626
Physical Properties									
Total Suspended Solids	mg/L	7.9	1.5	9002315	2.0	9002315	7.6	1.0	9002315
Total Dissolved Solids	mg/L	78	102	9004438	172	9004438	100	10	9004438
RDL = Reportable Detection Limit N/A = Not Applicable									

Maxxam Job #: B839743
Report Date: 2018/06/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TM4593		TM4594	TM4595			TM4595		
Sampling Date		2018/05/22 10:40		2018/05/22 11:07	2018/05/22 11:55			2018/05/22 11:55		
COC Number		553730-01-01		553730-01-01	553730-01-01			553730-01-01		
	UNITS	HC-2.5	QC Batch	HC-5.0	YT-24	RDL	QC Batch	YT-24 Lab-Dup	RDL	QC Batch

Parameter										
ORP	mV	365	9001405	367	372		9001405			
Subcontract Parameter	N/A	ATTACHED	9009842	ATTACHED	ATTACHED	N/A	9009842			
Calculated Parameters										
Filter and HNO3 Preservation	N/A	LAB	9000377	LAB	LAB		9000377			
Nitrate (N)	mg/L	0.187	8999828	0.106	0.523	0.0020	8999828			
Misc. Inorganics										
Fluoride (F)	mg/L	0.042	9004026	0.048	0.058	0.010	9004026			
Dissolved Organic Carbon (C)	mg/L	26.9	9003899	18.9	18.3	0.50	9003874			
Alkalinity (Total as CaCO3)	mg/L	34.5	9002640	47.4	41.0	0.50	9002629			
Total Organic Carbon (C)	mg/L	28.3	9003861	19.0	20.9	0.50	9003861			
Alkalinity (PP as CaCO3)	mg/L	<0.50	9002640	<0.50	<0.50	0.50	9002629			
Bicarbonate (HCO3)	mg/L	42.1	9002640	57.8	50.0	0.50	9002629			
Carbonate (CO3)	mg/L	<0.50	9002640	<0.50	<0.50	0.50	9002629			
Hydroxide (OH)	mg/L	<0.50	9002640	<0.50	<0.50	0.50	9002629			
Anions										
Dissolved Sulphate (SO4)	mg/L	20.7	9002120	31.4	71.1	0.50	9002120			
Dissolved Chloride (Cl)	mg/L	0.80	9002119	0.93	1.1	0.50	9002119			
Nutrients										
Total Ammonia (N)	mg/L	0.0080	9001918	0.0080	0.021	0.0050	9001918			
Nitrate plus Nitrite (N)	mg/L	0.187	9001422	0.106	0.523	0.0020	9001417			
Nitrite (N)	mg/L	<0.0020	9001425	<0.0020	<0.0020	0.0020	9001421			
Physical Properties										
Conductivity	uS/cm	121	9002641	169	247	1.0	9002630			
pH	pH	7.52	9002635	7.62	7.58		9002626			
Physical Properties										
Total Suspended Solids	mg/L	2.5	9002315	1.1	1.7	1.0	9002315			
Total Dissolved Solids	mg/L	102	9004438	118	208	10	9004438	214	10	9004438

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Maxxam Job #: B839743
Report Date: 2018/06/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TM4596		TM4597			TM4597	
Sampling Date		2018/05/22 12:10		2018/05/22 12:30			2018/05/22 12:30	
COC Number		553730-01-01		553730-01-01			553730-01-01	
	UNITS	YT-24 MIX	QC Batch	COFFEE MIX	RDL	QC Batch	COFFEE MIX Lab-Dup	QC Batch
Parameter								
ORP	mV	372	9001405	373		9001405		
Subcontract Parameter	N/A	ATTACHED	9009842	ATTACHED	N/A	9009842		
Calculated Parameters								
Filter and HNO3 Preservation	N/A	LAB	9000377	LAB		9000377		
Nitrate (N)	mg/L	0.0260	8999828	0.0518	0.0020	8999828		
Misc. Inorganics								
Fluoride (F)	mg/L	0.093	9004026	0.071	0.010	9004026		
Dissolved Organic Carbon (C)	mg/L	7.33	9003874	10.1	0.50	9003874		
Alkalinity (Total as CaCO3)	mg/L	61.9	9002629	46.9	0.50	9002629		
Total Organic Carbon (C)	mg/L	8.15	9003861	12.3	0.50	9003908		
Alkalinity (PP as CaCO3)	mg/L	<0.50	9002629	<0.50	0.50	9002629		
Bicarbonate (HCO3)	mg/L	75.5	9002629	57.2	0.50	9002629		
Carbonate (CO3)	mg/L	<0.50	9002629	<0.50	0.50	9002629		
Hydroxide (OH)	mg/L	<0.50	9002629	<0.50	0.50	9002629		
Anions								
Dissolved Sulphate (SO4)	mg/L	25.3	9002120	28.3	0.50	9002120		
Dissolved Chloride (Cl)	mg/L	0.76	9002119	0.87	0.50	9002119		
Nutrients								
Total Ammonia (N)	mg/L	0.010	9001918	0.011	0.0050	9001918		
Nitrate plus Nitrite (N)	mg/L	0.0260	9001417	0.0518	0.0020	9001417		
Nitrite (N)	mg/L	<0.0020	9001421	<0.0020	0.0020	9001421		
Physical Properties								
Conductivity	uS/cm	180	9002630	155	1.0	9002630		
pH	pH	7.84	9002626	7.65		9002626	7.66	9002626
Physical Properties								
Total Suspended Solids	mg/L	94.5	9002315	56.2	1.0	9002315		
Total Dissolved Solids	mg/L	110	9004438	100	10	9004438		
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable								

Maxxam Job #: B839743
Report Date: 2018/06/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TM4598		TM4604	TM4605		
Sampling Date		2018/05/22 12:10		2018/05/22 08:15	2018/05/22 08:15		
COC Number		553730-01-01		553730-02-01	553730-02-01		
	UNITS	HALFWAY MIX	QC Batch	LATTE MIX	DUP	RDL	QC Batch
Parameter							
ORP	mV	369	9001405	373	373		9001405
Subcontract Parameter	N/A	ATTACHED	9009842	ATTACHED	ATTACHED	N/A	9009842
Calculated Parameters							
Filter and HNO3 Preservation	N/A	LAB	9000377	LAB	LAB		9000377
Nitrate (N)	mg/L	0.0326	8999828	0.0565	0.0684	0.0020	8999828
Misc. Inorganics							
Fluoride (F)	mg/L	0.096	9004026	0.045	0.044	0.010	9004026
Dissolved Organic Carbon (C)	mg/L	6.06	9003899	15.2	13.1	0.50	9003899
Alkalinity (Total as CaCO3)	mg/L	63.2	9002640	24.2	23.2	0.50	9002629
Total Organic Carbon (C)	mg/L	6.85	9003861	16.1	16.8	0.50	9003861
Alkalinity (PP as CaCO3)	mg/L	<0.50	9002640	<0.50	<0.50	0.50	9002629
Bicarbonate (HCO3)	mg/L	77.1	9002640	29.6	28.4	0.50	9002629
Carbonate (CO3)	mg/L	<0.50	9002640	<0.50	<0.50	0.50	9002629
Hydroxide (OH)	mg/L	<0.50	9002640	<0.50	<0.50	0.50	9002629
Anions							
Dissolved Sulphate (SO4)	mg/L	24.5	9002120	24.2	24.6	0.50	9002120
Dissolved Chloride (Cl)	mg/L	0.85	9002119	0.99	0.83	0.50	9002119
Nutrients							
Total Ammonia (N)	mg/L	0.014	9001918	0.0080	0.013	0.0050	9001918
Nitrate plus Nitrite (N)	mg/L	0.0326	9001422	0.0565	0.0684	0.0020	9001417
Nitrite (N)	mg/L	<0.0020	9001425	<0.0020	<0.0020	0.0020	9001421
Physical Properties							
Conductivity	uS/cm	182	9002641	105	104	1.0	9002630
pH	pH	7.89	9002635	7.31	7.31		9002626
Physical Properties							
Total Suspended Solids	mg/L	103	9002315	8.4	8.2	1.0	9002315
Total Dissolved Solids	mg/L	78	9004903	84	80	10	9004903
RDL = Reportable Detection Limit N/A = Not Applicable							

Maxxam Job #: B839743
Report Date: 2018/06/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TM4605		
Sampling Date		2018/05/22 08:15		
COC Number		553730-02-01		
	UNITS	DUP Lab-Dup	RDL	QC Batch

Nutrients				
Total Ammonia (N)	mg/L	0.013	0.0050	9001918
Physical Properties				
Total Dissolved Solids	mg/L	84	10	9004903
RDL = Reportable Detection Limit				
Lab-Dup = Laboratory Initiated Duplicate				

Maxxam Job #: B839743
Report Date: 2018/06/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TM4589	TM4590	TM4591	TM4592	TM4593	TM4594		
Sampling Date		2018/05/22 09:36	2018/05/22 10:18	2018/05/22 09:47	2018/05/22 07:50	2018/05/22 10:40	2018/05/22 11:07		
COC Number		553730-01-01	553730-01-01	553730-01-01	553730-01-01	553730-01-01	553730-01-01		
	UNITS	CC-0.5	CC-1.5	CC-3.5	CC-4.5	HC-2.5	HC-5.0	RDL	QC Batch
Calculated Parameters									
Dissolved Hardness (CaCO3)	mg/L	40.2	66.7	102	54.1	57.8	78.3	0.50	8999174
Elements									
Dissolved Mercury (Hg)	ug/L	0.0065	0.0107	0.0058	0.0058	0.0090	0.0060	0.0020	9001267
Dissolved Metals by ICPMS									
Dissolved Aluminum (Al)	ug/L	177	242	134	148	310	141	0.50	9001298
Dissolved Antimony (Sb)	ug/L	0.074	0.093	0.087	0.075	0.190	0.188	0.020	9001298
Dissolved Arsenic (As)	ug/L	0.404	0.483	0.446	0.414	1.06	0.943	0.020	9001298
Dissolved Barium (Ba)	ug/L	31.0	26.4	42.3	35.9	31.2	36.1	0.020	9001298
Dissolved Beryllium (Be)	ug/L	0.017	0.038	0.022	0.018	0.041	0.029	0.010	9001298
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9001298
Dissolved Boron (B)	ug/L	<10	<10	<10	<10	<10	<10	10	9001298
Dissolved Cadmium (Cd)	ug/L	0.0146	0.0122	0.0085	0.0137	0.0113	0.0053	0.0050	9001298
Dissolved Chromium (Cr)	ug/L	0.27	0.32	0.28	0.25	0.51	0.40	0.10	9001298
Dissolved Cobalt (Co)	ug/L	0.135	0.0686	0.123	0.117	0.328	0.141	0.0050	9001298
Dissolved Copper (Cu)	ug/L	2.07	1.98	1.63	1.95	2.11	1.74	0.050	9001298
Dissolved Iron (Fe)	ug/L	143	173	121	120	263	156	1.0	9001298
Dissolved Lead (Pb)	ug/L	0.0080	0.0063	0.0085	0.0085	0.0224	0.0118	0.0050	9001298
Dissolved Lithium (Li)	ug/L	0.62	0.95	0.65	0.54	0.99	0.78	0.50	9001298
Dissolved Manganese (Mn)	ug/L	19.1	6.13	23.7	18.7	55.1	7.84	0.050	9001298
Dissolved Molybdenum (Mo)	ug/L	0.568	0.083	0.192	0.519	0.622	0.577	0.050	9001298
Dissolved Nickel (Ni)	ug/L	1.13	1.06	0.829	1.09	1.27	0.964	0.020	9001298
Dissolved Phosphorus (P)	ug/L	9.2	11.0	9.4	8.9	10.3	9.6	2.0	9001298
Dissolved Selenium (Se)	ug/L	0.055	0.056	0.064	0.062	0.064	0.061	0.040	9001298
Dissolved Silicon (Si)	ug/L	2180	2290	2570	2290	2710	2950	50	9001298
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0250	<0.0050	0.0050	9001298
Dissolved Strontium (Sr)	ug/L	51.7	151	207	80.2	176	206	0.050	9001298
Dissolved Thallium (Tl)	ug/L	0.0053	0.0035	0.0034	0.0048	0.0051	0.0029	0.0020	9001298
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	9001298
Dissolved Titanium (Ti)	ug/L	1.45	1.70	1.26	1.32	3.17	2.03	0.50	9001298
Dissolved Uranium (U)	ug/L	3.14	4.54	9.14	3.27	17.0	13.6	0.0020	9001298
Dissolved Vanadium (V)	ug/L	0.41	0.31	0.37	0.38	0.62	0.51	0.20	9001298
Dissolved Zinc (Zn)	ug/L	0.58	0.76	0.38	0.54	0.98	0.33	0.10	9001298
RDL = Reportable Detection Limit									

Maxxam Job #: B839743
Report Date: 2018/06/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TM4589	TM4590	TM4591	TM4592	TM4593	TM4594		
Sampling Date		2018/05/22 09:36	2018/05/22 10:18	2018/05/22 09:47	2018/05/22 07:50	2018/05/22 10:40	2018/05/22 11:07		
COC Number		553730-01-01	553730-01-01	553730-01-01	553730-01-01	553730-01-01	553730-01-01		
	UNITS	CC-0.5	CC-1.5	CC-3.5	CC-4.5	HC-2.5	HC-5.0	RDL	QC Batch
Dissolved Zirconium (Zr)	ug/L	0.31	0.59	0.54	0.34	0.71	0.56	0.10	9001298
Dissolved Calcium (Ca)	mg/L	10.2	17.3	26.7	13.6	14.6	19.9	0.050	8999541
Dissolved Magnesium (Mg)	mg/L	3.59	5.74	8.54	4.88	5.20	6.93	0.050	8999541
Dissolved Potassium (K)	mg/L	0.954	1.04	1.61	1.05	1.24	1.57	0.050	8999541
Dissolved Sodium (Na)	mg/L	1.75	1.48	2.58	2.10	1.78	2.38	0.050	8999541
Dissolved Sulphur (S)	mg/L	5.4	9.5	16.2	8.3	5.9	9.3	3.0	8999541
RDL = Reportable Detection Limit									

Maxxam Job #: B839743
Report Date: 2018/06/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TM4595	TM4596	TM4597	TM4598	TM4604	TM4605		
Sampling Date		2018/05/22 11:55	2018/05/22 12:10	2018/05/22 12:30	2018/05/22 12:10	2018/05/22 08:15	2018/05/22 08:15		
COC Number		553730-01-01	553730-01-01	553730-01-01	553730-01-01	553730-02-01	553730-02-01		
	UNITS	YT-24	YT-24 MIX	COFFEE MIX	HALFWAY MIX	LATTE MIX	DUP	RDL	QC Batch
Calculated Parameters									
Dissolved Hardness (CaCO3)	mg/L	114	83.5	70.7	83.6	47.2	46.8	0.50	8999174
Elements									
Dissolved Mercury (Hg)	ug/L	0.0081	0.0028	0.0044	0.0027	0.0066	0.0065	0.0020	9001267
Dissolved Metals by ICPMS									
Dissolved Aluminum (Al)	ug/L	105	36.5	76.9	39.4	168	167	0.50	9001298
Dissolved Antimony (Sb)	ug/L	0.224	0.130	0.110	0.135	0.079	0.082	0.020	9001298
Dissolved Arsenic (As)	ug/L	0.673	0.499	0.471	0.501	0.421	0.422	0.020	9001298
Dissolved Barium (Ba)	ug/L	56.0	42.5	40.8	42.9	32.1	32.1	0.020	9001298
Dissolved Beryllium (Be)	ug/L	0.027	<0.010	0.010	<0.010	0.018	0.018	0.010	9001298
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9001298
Dissolved Boron (B)	ug/L	<10	<10	<10	<10	<10	<10	10	9001298
Dissolved Cadmium (Cd)	ug/L	0.0092	0.0574	0.0491	0.0627	0.0158	0.0160	0.0050	9001298
Dissolved Chromium (Cr)	ug/L	0.44	<0.10	0.16	<0.10	0.28	0.25	0.10	9001298
Dissolved Cobalt (Co)	ug/L	0.147	0.0436	0.0905	0.0506	0.136	0.133	0.0050	9001298
Dissolved Copper (Cu)	ug/L	2.31	1.93	1.98	1.96	2.01	1.99	0.050	9001298
Dissolved Iron (Fe)	ug/L	99.8	65.9	92.4	70.6	139	140	1.0	9001298
Dissolved Lead (Pb)	ug/L	0.0097	0.0412	0.0343	0.0488	0.0089	0.0094	0.0050	9001298
Dissolved Lithium (Li)	ug/L	<0.50	1.46	1.00	1.45	0.60	0.61	0.50	9001298
Dissolved Manganese (Mn)	ug/L	11.4	5.83	14.8	7.41	20.9	19.6	0.050	9001298
Dissolved Molybdenum (Mo)	ug/L	0.337	0.962	0.736	0.976	0.532	0.516	0.050	9001298
Dissolved Nickel (Ni)	ug/L	1.01	2.53	1.89	2.56	1.14	1.09	0.020	9001298
Dissolved Phosphorus (P)	ug/L	12.1	5.9	7.5	6.0	10.1	10.5	2.0	9001298
Dissolved Selenium (Se)	ug/L	0.061	0.306	0.179	0.308	0.055	0.057	0.040	9001298
Dissolved Silicon (Si)	ug/L	2790	2380	2370	2440	2200	2170	50	9001298
Dissolved Silver (Ag)	ug/L	0.0053	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9001298
Dissolved Strontium (Sr)	ug/L	180	119	103	116	73.2	72.3	0.050	9001298
Dissolved Thallium (Tl)	ug/L	0.0040	0.0040	0.0047	0.0043	0.0047	0.0053	0.0020	9001298
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	9001298
Dissolved Titanium (Ti)	ug/L	1.90	0.52	0.86	0.58	1.49	1.54	0.50	9001298
Dissolved Uranium (U)	ug/L	3.46	1.15	2.04	1.28	3.54	3.57	0.0020	9001298
Dissolved Vanadium (V)	ug/L	0.35	0.31	0.35	0.31	0.43	0.42	0.20	9001298
Dissolved Zinc (Zn)	ug/L	0.29	2.00	2.00	2.14	0.61	0.52	0.10	9001298
RDL = Reportable Detection Limit									

Maxxam Job #: B839743
Report Date: 2018/06/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TM4595	TM4596	TM4597	TM4598	TM4604	TM4605		
Sampling Date		2018/05/22 11:55	2018/05/22 12:10	2018/05/22 12:30	2018/05/22 12:10	2018/05/22 08:15	2018/05/22 08:15		
COC Number		553730-01-01	553730-01-01	553730-01-01	553730-01-01	553730-02-01	553730-02-01		
	UNITS	YT-24	YT-24 MIX	COFFEE MIX	HALFWAY MIX	LATTE MIX	DUP	RDL	QC Batch
Dissolved Zirconium (Zr)	ug/L	0.73	0.12	0.21	0.11	0.36	0.33	0.10	9001298
Dissolved Calcium (Ca)	mg/L	29.6	22.2	18.4	22.2	11.9	11.9	0.050	8999541
Dissolved Magnesium (Mg)	mg/L	9.67	6.79	5.97	6.81	4.21	4.15	0.050	8999541
Dissolved Potassium (K)	mg/L	1.74	0.998	1.03	0.978	1.02	1.00	0.050	8999541
Dissolved Sodium (Na)	mg/L	3.00	1.89	2.04	1.88	1.89	1.86	0.050	8999541
Dissolved Sulphur (S)	mg/L	22.0	7.0	7.9	7.1	6.7	6.6	3.0	8999541
RDL = Reportable Detection Limit									

Maxxam Job #: B839743
Report Date: 2018/06/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TM4589			TM4589			TM4590		
Sampling Date		2018/05/22 09:36			2018/05/22 09:36			2018/05/22 10:18		
COC Number		553730-01-01			553730-01-01			553730-01-01		
	UNITS	CC-0.5	RDL	QC Batch	CC-0.5 Lab-Dup	RDL	QC Batch	CC-1.5	RDL	QC Batch
Calculated Parameters										
Total Hardness (CaCO3)	mg/L	44.1	0.50	9000046				69.8	0.50	9000046
Elements										
Total Mercury (Hg)	ug/L	0.0066	0.0020	9000749				0.0115	0.0020	9001116
Total Metals by ICPMS										
Total Aluminum (Al)	ug/L	320	3.0	9003753	308	3.0	9003753	277	3.0	9003753
Total Antimony (Sb)	ug/L	0.083	0.020	9003753	0.078	0.020	9003753	0.081	0.020	9003753
Total Arsenic (As)	ug/L	0.558	0.020	9003753	0.540	0.020	9003753	0.522	0.020	9003753
Total Barium (Ba)	ug/L	34.1	0.050	9003753	32.7	0.050	9003753	26.5	0.050	9003753
Total Beryllium (Be)	ug/L	0.022	0.010	9003753	0.022	0.010	9003753	0.040	0.010	9003753
Total Bismuth (Bi)	ug/L	<0.010	0.010	9003753	<0.010	0.010	9003753	<0.010	0.010	9003753
Total Boron (B)	ug/L	<10	10	9003753	<10	10	9003753	<10	10	9003753
Total Cadmium (Cd)	ug/L	0.0246	0.0050	9003753	0.0215	0.0050	9003753	0.0154	0.0050	9003753
Total Chromium (Cr)	ug/L	0.50	0.10	9003753	0.47	0.10	9003753	0.39	0.10	9003753
Total Cobalt (Co)	ug/L	0.247	0.010	9003753	0.236	0.010	9003753	0.091	0.010	9003753
Total Copper (Cu)	ug/L	2.45	0.10	9003753	2.36	0.10	9003753	2.03	0.10	9003753
Total Iron (Fe)	ug/L	350	5.0	9003753	340	5.0	9003753	222	5.0	9003753
Total Lead (Pb)	ug/L	0.072	0.020	9003753	0.069	0.020	9003753	0.029	0.020	9003753
Total Lithium (Li)	ug/L	0.74	0.50	9003753	0.72	0.50	9003753	1.01	0.50	9003753
Total Manganese (Mn)	ug/L	41.8	0.10	9003753	39.8	0.10	9003753	10.2	0.10	9003753
Total Molybdenum (Mo)	ug/L	0.626	0.050	9003753	0.599	0.050	9003753	0.077	0.050	9003753
Total Nickel (Ni)	ug/L	1.37	0.10	9003753	1.27	0.10	9003753	1.04	0.10	9003753
Total Phosphorus (P)	ug/L	20.2	5.0	9003753	17.1	5.0	9003753	16.2	5.0	9003753
Total Selenium (Se)	ug/L	0.067	0.040	9003753	0.049	0.040	9003753	0.059	0.040	9003753
Total Silicon (Si)	ug/L	2760	50	9003753	2750	50	9003753	2610	50	9003753
Total Silver (Ag)	ug/L	<0.010	0.010	9003753	<0.010	0.010	9003753	<0.010	0.010	9003753
Total Strontium (Sr)	ug/L	58.7	0.050	9003753	57.0	0.050	9003753	151	0.050	9003753
Total Thallium (Tl)	ug/L	0.0078	0.0020	9003753	0.0073	0.0020	9003753	0.0030	0.0020	9003753
Total Tin (Sn)	ug/L	<0.20	0.20	9003753	<0.20	0.20	9003753	<0.20	0.20	9003753
Total Titanium (Ti)	ug/L	10.1	2.0	9003753	10.0	2.0	9003753	3.1	2.0	9003753
Total Uranium (U)	ug/L	3.53	0.0050	9003753	3.42	0.0050	9003753	4.87	0.0050	9003753
Total Vanadium (V)	ug/L	0.88	0.20	9003753	0.86	0.20	9003753	0.39	0.20	9003753
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B839743
Report Date: 2018/06/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TM4589			TM4589			TM4590		
Sampling Date		2018/05/22 09:36			2018/05/22 09:36			2018/05/22 10:18		
COC Number		553730-01-01			553730-01-01			553730-01-01		
	UNITS	CC-0.5	RDL	QC Batch	CC-0.5 Lab-Dup	RDL	QC Batch	CC-1.5	RDL	QC Batch
Total Zinc (Zn)	ug/L	1.3	1.0	9003753	1.3	1.0	9003753	1.1	1.0	9003753
Total Zirconium (Zr)	ug/L	0.31	0.10	9003753	0.29	0.10	9003753	0.47	0.10	9003753
Total Calcium (Ca)	mg/L	11.2	0.25	8999544				18.3	0.25	8999544
Total Magnesium (Mg)	mg/L	3.90	0.25	8999544				5.85	0.25	8999544
Total Potassium (K)	mg/L	1.04	0.25	8999544				1.09	0.25	8999544
Total Sodium (Na)	mg/L	1.93	0.25	8999544				1.52	0.25	8999544
Total Sulphur (S)	mg/L	5.6	3.0	8999544				9.9	3.0	8999544
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B839743
Report Date: 2018/06/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TM4591	TM4592	TM4593	TM4594	TM4595	TM4596		
Sampling Date		2018/05/22 09:47	2018/05/22 07:50	2018/05/22 10:40	2018/05/22 11:07	2018/05/22 11:55	2018/05/22 12:10		
COC Number		553730-01-01	553730-01-01	553730-01-01	553730-01-01	553730-01-01	553730-01-01		
	UNITS	CC-3.5	CC-4.5	HC-2.5	HC-5.0	YT-24	YT-24 MIX	RDL	QC Batch
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	109	56.4	58.5	81.5	118	99.5	0.50	9000046
Elements									
Total Mercury (Hg)	ug/L	0.0067	0.0065	0.0100	0.0064	0.0084	0.0028	0.0020	9001116
Total Metals by ICPMS									
Total Aluminum (Al)	ug/L	149	294	398	166	136	1380	3.0	9003753
Total Antimony (Sb)	ug/L	0.086	0.076	0.187	0.186	0.238	0.241	0.020	9003753
Total Arsenic (As)	ug/L	0.464	0.578	1.24	0.996	0.733	1.96	0.020	9003753
Total Barium (Ba)	ug/L	42.2	39.3	31.5	37.0	57.7	114	0.050	9003753
Total Beryllium (Be)	ug/L	0.032	0.014	0.050	0.031	0.024	0.079	0.010	9003753
Total Bismuth (Bi)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	0.029	0.010	9003753
Total Boron (B)	ug/L	<10	<10	<10	<10	<10	<10	10	9003753
Total Cadmium (Cd)	ug/L	0.0101	0.0242	0.0148	0.0075	0.0116	0.339	0.0050	9003753
Total Chromium (Cr)	ug/L	0.34	0.44	0.62	0.45	0.51	2.76	0.10	9003753
Total Cobalt (Co)	ug/L	0.139	0.240	0.361	0.163	0.177	1.40	0.010	9003753
Total Copper (Cu)	ug/L	1.77	2.18	2.14	1.93	2.38	5.99	0.10	9003753
Total Iron (Fe)	ug/L	152	341	341	201	140	2700	5.0	9003753
Total Lead (Pb)	ug/L	0.021	0.079	0.058	0.025	0.029	1.50	0.020	9003753
Total Lithium (Li)	ug/L	0.68	0.70	1.05	0.90	<0.50	2.91	0.50	9003753
Total Manganese (Mn)	ug/L	31.9	40.3	62.3	13.7	14.0	122	0.10	9003753
Total Molybdenum (Mo)	ug/L	0.201	0.543	0.616	0.647	0.353	1.07	0.050	9003753
Total Nickel (Ni)	ug/L	0.83	1.21	1.27	0.98	1.05	8.19	0.10	9003753
Total Phosphorus (P)	ug/L	14.0	17.5	13.5	14.7	18.4	128	5.0	9003753
Total Selenium (Se)	ug/L	0.064	0.051	0.075	0.052	0.062	0.410	0.040	9003753
Total Silicon (Si)	ug/L	3070	2830	3290	3470	3370	4970	50	9003753
Total Silver (Ag)	ug/L	<0.010	<0.010	0.070	<0.010	<0.010	0.025	0.010	9003753
Total Strontium (Sr)	ug/L	219	82.1	176	218	185	132	0.050	9003753
Total Thallium (Tl)	ug/L	0.0031	0.0060	0.0050	0.0030	0.0041	0.0248	0.0020	9003753
Total Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	9003753
Total Titanium (Ti)	ug/L	2.1	9.8	5.7	3.8	3.9	46.4	2.0	9003753
Total Uranium (U)	ug/L	9.72	3.61	16.8	14.2	3.65	1.38	0.0050	9003753
Total Vanadium (V)	ug/L	0.46	0.89	0.78	0.58	0.41	5.04	0.20	9003753
Total Zinc (Zn)	ug/L	<1.0	1.2	1.2	<1.0	<1.0	28.5	1.0	9003753
RDL = Reportable Detection Limit									

Maxxam Job #: B839743
Report Date: 2018/06/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TM4591	TM4592	TM4593	TM4594	TM4595	TM4596		
Sampling Date		2018/05/22 09:47	2018/05/22 07:50	2018/05/22 10:40	2018/05/22 11:07	2018/05/22 11:55	2018/05/22 12:10		
COC Number		553730-01-01	553730-01-01	553730-01-01	553730-01-01	553730-01-01	553730-01-01		
	UNITS	CC-3.5	CC-4.5	HC-2.5	HC-5.0	YT-24	YT-24 MIX	RDL	QC Batch
Total Zirconium (Zr)	ug/L	0.44	0.28	0.60	0.50	0.64	0.49	0.10	9003753
Total Calcium (Ca)	mg/L	28.9	14.5	15.2	21.2	31.3	26.5	0.25	8999544
Total Magnesium (Mg)	mg/L	8.98	4.92	4.97	6.91	9.65	8.11	0.25	8999544
Total Potassium (K)	mg/L	1.74	1.12	1.24	1.62	1.81	1.33	0.25	8999544
Total Sodium (Na)	mg/L	2.71	2.12	1.73	2.41	3.00	2.07	0.25	8999544
Total Sulphur (S)	mg/L	16.9	8.2	5.4	9.5	22.6	7.8	3.0	8999544
RDL = Reportable Detection Limit									

Maxxam Job #: B839743
Report Date: 2018/06/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TM4597	TM4598	TM4604	TM4605		
Sampling Date		2018/05/22 12:30	2018/05/22 12:10	2018/05/22 08:15	2018/05/22 08:15		
COC Number		553730-01-01	553730-01-01	553730-02-01	553730-02-01		
	UNITS	COFFEE MIX	HALFWAY MIX	LATTE MIX	DUP	RDL	QC Batch
Calculated Parameters							
Total Hardness (CaCO3)	mg/L	80.5	95.1	51.6	49.9	0.50	9000046
Elements							
Total Mercury (Hg)	ug/L	0.0048	0.0032	0.0069	0.0073	0.0020	9001116
Total Metals by ICPMS							
Total Aluminum (Al)	ug/L	892	1440	357	366	3.0	9003753
Total Antimony (Sb)	ug/L	0.170	0.244	0.083	0.077	0.020	9003753
Total Arsenic (As)	ug/L	1.30	1.95	0.605	0.620	0.020	9003753
Total Barium (Ba)	ug/L	80.3	116	36.2	38.0	0.050	9003753
Total Beryllium (Be)	ug/L	0.051	0.069	0.018	0.025	0.010	9003753
Total Bismuth (Bi)	ug/L	0.015	0.027	<0.010	<0.010	0.010	9003753
Total Boron (B)	ug/L	<10	<10	<10	<10	10	9003753
Total Cadmium (Cd)	ug/L	0.178	0.327	0.0258	0.0261	0.0050	9003753
Total Chromium (Cr)	ug/L	1.76	2.80	0.57	0.62	0.10	9003753
Total Cobalt (Co)	ug/L	0.823	1.35	0.288	0.303	0.010	9003753
Total Copper (Cu)	ug/L	4.15	5.90	2.50	2.45	0.10	9003753
Total Iron (Fe)	ug/L	1630	2790	414	431	5.0	9003753
Total Lead (Pb)	ug/L	0.815	1.49	0.094	0.099	0.020	9003753
Total Lithium (Li)	ug/L	1.78	2.87	0.76	0.72	0.50	9003753
Total Manganese (Mn)	ug/L	78.1	116	48.5	48.5	0.10	9003753
Total Molybdenum (Mo)	ug/L	0.809	1.07	0.559	0.568	0.050	9003753
Total Nickel (Ni)	ug/L	4.78	7.89	1.39	1.45	0.10	9003753
Total Phosphorus (P)	ug/L	71.8	111	20.7	22.8	5.0	9003753
Total Selenium (Se)	ug/L	0.234	0.407	0.063	0.059	0.040	9003753
Total Silicon (Si)	ug/L	4210	4950	2880	2850	50	9003753
Total Silver (Ag)	ug/L	0.016	0.026	<0.010	<0.010	0.010	9003753
Total Strontium (Sr)	ug/L	109	128	76.6	74.8	0.050	9003753
Total Thallium (Tl)	ug/L	0.0180	0.0269	0.0072	0.0063	0.0020	9003753
Total Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	9003753
Total Titanium (Ti)	ug/L	31.5	47.4	12.0	14.6	2.0	9003753
Total Uranium (U)	ug/L	2.35	1.47	4.19	4.10	0.0050	9003753
Total Vanadium (V)	ug/L	3.18	5.19	1.01	1.06	0.20	9003753
Total Zinc (Zn)	ug/L	15.1	28.3	1.6	1.7	1.0	9003753
RDL = Reportable Detection Limit							

Maxxam Job #: B839743
Report Date: 2018/06/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TM4597	TM4598	TM4604	TM4605		
Sampling Date		2018/05/22 12:30	2018/05/22 12:10	2018/05/22 08:15	2018/05/22 08:15		
COC Number		553730-01-01	553730-01-01	553730-02-01	553730-02-01		
	UNITS	COFFEE MIX	HALFWAY MIX	LATTE MIX	DUP	RDL	QC Batch
Total Zirconium (Zr)	ug/L	0.38	0.35	0.31	0.31	0.10	9003753
Total Calcium (Ca)	mg/L	21.3	25.2	13.4	13.0	0.25	8999544
Total Magnesium (Mg)	mg/L	6.62	7.78	4.38	4.24	0.25	8999544
Total Potassium (K)	mg/L	1.25	1.29	1.15	1.10	0.25	8999544
Total Sodium (Na)	mg/L	2.16	2.00	1.97	1.89	0.25	8999544
Total Sulphur (S)	mg/L	7.6	6.9	6.7	6.3	3.0	8999544
RDL = Reportable Detection Limit							

Maxxam Job #: B839743
Report Date: 2018/06/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

GENERAL COMMENTS

Results relate only to the items tested.

Maxxam Job #: B839743
Report Date: 2018/06/04

QUALITY ASSURANCE REPORT

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9000749	Total Mercury (Hg)	2018/05/25	94	80 - 120	99	80 - 120	<0.0020	ug/L	17	20
9001116	Total Mercury (Hg)	2018/05/25	96	80 - 120	96	80 - 120	<0.0020	ug/L	NC	20
9001267	Dissolved Mercury (Hg)	2018/05/25	100	80 - 120	100	80 - 120	<0.0020	ug/L	NC	20
9001298	Dissolved Aluminum (Al)	2018/05/26	99	80 - 120	101	80 - 120	<0.50	ug/L	0.39	20
9001298	Dissolved Antimony (Sb)	2018/05/26	102	80 - 120	103	80 - 120	<0.020	ug/L	2.8	20
9001298	Dissolved Arsenic (As)	2018/05/26	105	80 - 120	106	80 - 120	<0.020	ug/L	1.0	20
9001298	Dissolved Barium (Ba)	2018/05/26	99	80 - 120	103	80 - 120	<0.020	ug/L	0.78	20
9001298	Dissolved Beryllium (Be)	2018/05/26	99	80 - 120	100	80 - 120	<0.010	ug/L	NC	20
9001298	Dissolved Bismuth (Bi)	2018/05/26	96	80 - 120	103	80 - 120	<0.0050	ug/L	NC	20
9001298	Dissolved Boron (B)	2018/05/26	94	80 - 120	96	80 - 120	<10	ug/L	0.58	20
9001298	Dissolved Cadmium (Cd)	2018/05/26	97	80 - 120	99	80 - 120	<0.0050	ug/L	NC	20
9001298	Dissolved Chromium (Cr)	2018/05/26	95	80 - 120	101	80 - 120	<0.10	ug/L	NC	20
9001298	Dissolved Cobalt (Co)	2018/05/26	99	80 - 120	104	80 - 120	<0.0050	ug/L	0.81	20
9001298	Dissolved Copper (Cu)	2018/05/26	93	80 - 120	103	80 - 120	<0.050	ug/L	0.48	20
9001298	Dissolved Iron (Fe)	2018/05/26	93	80 - 120	95	80 - 120	<1.0	ug/L	15	20
9001298	Dissolved Lead (Pb)	2018/05/26	97	80 - 120	103	80 - 120	<0.0050	ug/L	6.3	20
9001298	Dissolved Lithium (Li)	2018/05/26	101	80 - 120	101	80 - 120	<0.50	ug/L	1.8	20
9001298	Dissolved Manganese (Mn)	2018/05/26	NC	80 - 120	98	80 - 120	<0.050	ug/L	1.3	20
9001298	Dissolved Molybdenum (Mo)	2018/05/26	NC	80 - 120	104	80 - 120	<0.050	ug/L	3.5	20
9001298	Dissolved Nickel (Ni)	2018/05/26	92	80 - 120	102	80 - 120	<0.020	ug/L	7.1	20
9001298	Dissolved Phosphorus (P)	2018/05/26	100	80 - 120	101	80 - 120	<2.0	ug/L	1.5	20
9001298	Dissolved Selenium (Se)	2018/05/26	100	80 - 120	102	80 - 120	<0.040	ug/L	15	20
9001298	Dissolved Silicon (Si)	2018/05/26	103	80 - 120	93	80 - 120	<50	ug/L	1.8	20
9001298	Dissolved Silver (Ag)	2018/05/26	99	80 - 120	102	80 - 120	<0.0050	ug/L	NC	20
9001298	Dissolved Strontium (Sr)	2018/05/26	NC	80 - 120	98	80 - 120	<0.050	ug/L	3.4	20
9001298	Dissolved Thallium (Tl)	2018/05/26	96	80 - 120	101	80 - 120	<0.0020	ug/L	4.2	20
9001298	Dissolved Tin (Sn)	2018/05/26	101	80 - 120	103	80 - 120	<0.20	ug/L	NC	20
9001298	Dissolved Titanium (Ti)	2018/05/26	98	80 - 120	103	80 - 120	<0.50	ug/L	NC	20
9001298	Dissolved Uranium (U)	2018/05/26	101	80 - 120	101	80 - 120	<0.0020	ug/L	1.8	20
9001298	Dissolved Vanadium (V)	2018/05/26	98	80 - 120	103	80 - 120	<0.20	ug/L	0.018	20
9001298	Dissolved Zinc (Zn)	2018/05/26	94	80 - 120	103	80 - 120	<0.10	ug/L	0.55	20

Maxxam Job #: B839743
Report Date: 2018/06/04

QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9001298	Dissolved Zirconium (Zr)	2018/05/26	105	80 - 120	104	80 - 120	<0.10	ug/L	NC	20
9001417	Nitrate plus Nitrite (N)	2018/05/25	122 (1)	80 - 120	111	80 - 120	<0.0020	mg/L	1.0	25
9001421	Nitrite (N)	2018/05/25	120	80 - 120	103	80 - 120	<0.0020	mg/L	NC	25
9001422	Nitrate plus Nitrite (N)	2018/05/25	118	80 - 120	107	80 - 120	<0.0020	mg/L	4.7	25
9001425	Nitrite (N)	2018/05/25	117	80 - 120	103	80 - 120	<0.0020	mg/L	NC	25
9001918	Total Ammonia (N)	2018/05/25	85	80 - 120	96	80 - 120	<0.0050	mg/L	0	20
9002119	Dissolved Chloride (Cl)	2018/05/25			101	80 - 120	<0.50	mg/L		
9002120	Dissolved Sulphate (SO4)	2018/05/25			103	80 - 120	0.54, RDL=0.50	mg/L		
9002315	Total Suspended Solids	2018/05/28			99	80 - 120	<1.0	mg/L		
9002626	pH	2018/05/25			101	97 - 103			0.13	20
9002629	Alkalinity (PP as CaCO3)	2018/05/25					<0.50	mg/L		
9002629	Alkalinity (Total as CaCO3)	2018/05/25			96	80 - 120	<0.50	mg/L		
9002629	Bicarbonate (HCO3)	2018/05/25					<0.50	mg/L		
9002629	Carbonate (CO3)	2018/05/25					<0.50	mg/L		
9002629	Hydroxide (OH)	2018/05/25					<0.50	mg/L		
9002630	Conductivity	2018/05/25			102	80 - 120	<1.0	uS/cm		
9002635	pH	2018/05/26			101	97 - 103				
9002640	Alkalinity (PP as CaCO3)	2018/05/26					<0.50	mg/L		
9002640	Alkalinity (Total as CaCO3)	2018/05/26			95	80 - 120	<0.50	mg/L		
9002640	Bicarbonate (HCO3)	2018/05/26					<0.50	mg/L		
9002640	Carbonate (CO3)	2018/05/26					<0.50	mg/L		
9002640	Hydroxide (OH)	2018/05/26					<0.50	mg/L		
9002641	Conductivity	2018/05/26			101	80 - 120	<1.0	uS/cm		
9003753	Total Aluminum (Al)	2018/05/29	90	80 - 120	107	80 - 120	<3.0	ug/L	4.0	20
9003753	Total Antimony (Sb)	2018/05/29	102	80 - 120	105	80 - 120	<0.020	ug/L	6.4	20
9003753	Total Arsenic (As)	2018/05/29	101	80 - 120	103	80 - 120	<0.020	ug/L	3.3	20
9003753	Total Barium (Ba)	2018/05/29	101	80 - 120	106	80 - 120	<0.050	ug/L	4.5	20
9003753	Total Beryllium (Be)	2018/05/29	101	80 - 120	102	80 - 120	<0.010	ug/L	0.46	20
9003753	Total Bismuth (Bi)	2018/05/29	98	80 - 120	105	80 - 120	<0.010	ug/L	NC	20
9003753	Total Boron (B)	2018/05/29	100	80 - 120	101	80 - 120	<10	ug/L	NC	20
9003753	Total Cadmium (Cd)	2018/05/29	103	80 - 120	104	80 - 120	<0.0050	ug/L	13	20

Maxxam Job #: B839743
Report Date: 2018/06/04

QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9003753	Total Chromium (Cr)	2018/05/29	102	80 - 120	107	80 - 120	<0.10	ug/L	5.6	20
9003753	Total Cobalt (Co)	2018/05/29	99	80 - 120	104	80 - 120	<0.010	ug/L	4.6	20
9003753	Total Copper (Cu)	2018/05/29	97	80 - 120	101	80 - 120	<0.10	ug/L	3.6	20
9003753	Total Iron (Fe)	2018/05/29	81	80 - 120	110	80 - 120	<5.0	ug/L	3.1	20
9003753	Total Lead (Pb)	2018/05/29	99	80 - 120	105	80 - 120	<0.020	ug/L	4.1	20
9003753	Total Lithium (Li)	2018/05/29	100	80 - 120	103	80 - 120	<0.50	ug/L	2.8	20
9003753	Total Manganese (Mn)	2018/05/29	100	80 - 120	107	80 - 120	<0.10	ug/L	4.9	20
9003753	Total Molybdenum (Mo)	2018/05/29	102	80 - 120	107	80 - 120	<0.050	ug/L	4.4	20
9003753	Total Nickel (Ni)	2018/05/29	101	80 - 120	105	80 - 120	<0.10	ug/L	7.8	20
9003753	Total Phosphorus (P)	2018/05/29	98	80 - 120	102	80 - 120	<5.0	ug/L	16	20
9003753	Total Selenium (Se)	2018/05/29	103	80 - 120	103	80 - 120	<0.040	ug/L	NC	20
9003753	Total Silicon (Si)	2018/05/29	103	80 - 120	113	80 - 120	<50	ug/L	0.46	20
9003753	Total Silver (Ag)	2018/05/29	102	80 - 120	105	80 - 120	<0.010	ug/L	NC	20
9003753	Total Strontium (Sr)	2018/05/29	NC	80 - 120	106	80 - 120	<0.050	ug/L	2.8	20
9003753	Total Thallium (Tl)	2018/05/29	100	80 - 120	105	80 - 120	<0.0020	ug/L	6.6	20
9003753	Total Tin (Sn)	2018/05/29	102	80 - 120	106	80 - 120	<0.20	ug/L	NC	20
9003753	Total Titanium (Ti)	2018/05/29	98	80 - 120	111	80 - 120	<2.0	ug/L	1.6	20
9003753	Total Uranium (U)	2018/05/29	104	80 - 120	109	80 - 120	<0.0050	ug/L	3.3	20
9003753	Total Vanadium (V)	2018/05/29	104	80 - 120	109	80 - 120	<0.20	ug/L	2.3	20
9003753	Total Zinc (Zn)	2018/05/29	102	80 - 120	105	80 - 120	<1.0	ug/L	2.7	20
9003753	Total Zirconium (Zr)	2018/05/29	101	80 - 120	106	80 - 120	<0.10	ug/L	5.4	20
9003861	Total Organic Carbon (C)	2018/05/28	97	80 - 120	96	80 - 120	<0.50	mg/L	NC	20
9003874	Dissolved Organic Carbon (C)	2018/05/28	98	80 - 120	96	80 - 120	<0.50	mg/L	16	20
9003899	Dissolved Organic Carbon (C)	2018/05/28	98	80 - 120	107	80 - 120	<0.50	mg/L	1.8	20
9003908	Total Organic Carbon (C)	2018/05/28	97	80 - 120	107	80 - 120	<0.50	mg/L	1.7	20
9004026	Fluoride (F)	2018/05/28	NC	80 - 120	102	80 - 120	<0.010	mg/L	9.2	20
9004438	Total Dissolved Solids	2018/05/30	102	80 - 120	100	80 - 120	<10	mg/L	2.8	20

Maxxam Job #: B839743
Report Date: 2018/06/04

QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9004903	Total Dissolved Solids	2018/05/30	102	80 - 120	92	80 - 120	<10	mg/L	4.9	20

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

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

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

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

Maxxam Job #: B839743
Report Date: 2018/06/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Andy Lu, Ph.D., P.Chem., Scientific Specialist



Mandheraj Chana, Junior Project Manager

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Maxxam Analytics International Corporation o/a Maxxam Analytics
 4806 Canada Way, Burnaby, British Columbia Canada V5G 1K5 Tel: (604) 734 7276 Toll-free: 800-563-6286 Fax: (604) 731 2386 www.maxxam.ca

INVOICE TO:		Report Information		Project Information	
Company Name	#3604 LORAX ENVIRONMENTAL SERVICES LTD.	Company Name		Quotation #	B40231
Contact Name	Aida Piaseczny	Contact Name	David Flather	P.O. #	
Address	2289 BURRARD STREET VANCOUVER BC V6J 3H9	Address		Project #	Gold Corp Coffee Creek-SW
Phone	(604) 688-7173 x	Phone		Project Name	
Fac	(604) 688-7175 x	Fac		Site #	
Email	aida.piaseczny@lorax.ca; shukling.ng@lorax.ca	Email	David.Flather@lorax.ca	Sampled By	



8839743_COC

Bottle Order #:

 553730
 Project Manager

Regulatory Criteria	Special Instructions	Analysis Requested														Turnaround Time (TAT) Required		
		Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	Routine (Alk-LI, EC-LI, NH4-LI, pH, TDS)	TSS-Low Level	Anions (LL-Cl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP					Please provide advance notice for rush projects	
																		Re: (Standard) TAT <input type="checkbox"/>

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 10°C) from time of sampling until delivery to maxxam

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	Routine (Alk-LI, EC-LI, NH4-LI, pH, TDS)	TSS-Low Level	Anions (LL-Cl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	# of Bottles	Comments
1 SID#162743	CC-0.5	22/05/18	9:36	w	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	
2 SID#162744	CC-1.5	22/05/18	10:18	w	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	
3 SID#162745	CC-3.5	22/05/18	9:47	w	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	RECEIVED IN WHITEHORSE
4 SID#162746	CC-4.5	22/05/18	7:50	w	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	BY: <i>f. Murphy @ 13:45</i>
5 SID#162747	HC-2.5	22/05/18	10:40	w	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	2018-05-23
6 SID#162748	HC-5.0	22/05/18	11:07	w	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	TEMP: 5 5 7
7 SID#149895	YT-24	22/05/18	11:55	w	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	5 5 4
8 SID#149896	YT-24 Mix	22/05/18	12:10	w	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	3 4 4
9 SID#149897	Coffee Mix	22/05/18	12:30	w	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	
10 SID#149898	Halfway Mix	22/05/18	12:10	w	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	

RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# Jars used and not submitted	Lab Use Only	
<i>Mitchell Nardin</i>	22/05/18	14:30	<i>KEVIN PINK</i>	2018/05/24	13:00	12	Time Sensative <input checked="" type="checkbox"/>	Temperature (°C) on Receipt: 1, 3, 7
	18/05/22						Custody Seal Intact on Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

2, 4, 4
2, 5, 4

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Maxxam Analytics International Corporation o/a Maxxam Analytics
 4606 Canada Way, Burnaby, British Columbia Canada V5G 1K5 Tel: (604) 734 7275 Toll-free 800-563-6266 Fax: (604) 731 2386 www.maxxam.ca

INVOICE TO:		Report Information		Project Information	
Company Name	#3604 LORAX ENVIRONMENTAL SERVICES LTD.	Company Name		Quotation #	B40231
Contact Name	Aida Piaseczny	Contact Name	David Flather	P.O. #	
Address	2289 BURRARD STREET VANCOUVER BC V6J 3H9	Address		Project #	Gold Corp Coffee Creek-SW
Phone	(604) 688-7173 x	Phone		Project Name	
Fax	(604) 688-7175 x	Fax		Site #	
Email	aida.piaseczny@lorax.ca; shukling.ng@lorax.ca	Email	David.Flather@lorax.ca	Sampled By	



Bottle Order #:
553730
Project Manager
Diana Cruz

Regulatory Criteria	Special Instructions	Analysis Requested												Turnaround Time (TAT) Required	
		Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	Routine (Alk-LL, EC-LL, NH4-LL, pH, TDS)	TSS-Low Level	Anions (LLCl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	Please provide advance notice for rush projects		
													Regular (Standard) TAT (will be applied if Rush TAT is not specified) Standard TAT = 5-7 Working days for most tests Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.		

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (+ 10°C) from time of sampling until delivery to maxxam

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	Routine (Alk-LL, EC-LL, NH4-LL, pH, TDS)	TSS-Low Level	Anions (LLCl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP
SID#149899	Latte Mix	22/05/18	8:15	w	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓
SID#208506	Dup	22/05/18	8:15	w	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓

Date Required: _____ Time Required: _____
 Rush Confirmation Number _____ (call lab for #)

# of Bottles	Comments
13	RECEIVED IN WHITEHORSE
13	BY: <i>KV Murphy</i> @ 13:45
	2018-05-23
	TEMP: 5 1 5 1 7
	5 5 4
	3 4 4

RELINQUISHED BY: (Signature/Print) <i>Mitchell Nordin</i>	Date: (YY/MM/DD) 18/05/22	Time 14:30	RECEIVED BY: (Signature/Print) <i>[Signature]</i>	Date: (YY/MM/DD) 2018/05/24	Time 13:00	# Jars used and not submitted NA	Lab Use Only	
							Time Sensitive <input checked="" type="checkbox"/>	Temperature (°C) on Receipt 7.3, 3 2.4, 4 2.5, 4
* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.							Custody Seal Intact on Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.							White: Maxxam Yellow: Client	

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Your Project #: Gold Corp Coffee Creek-SW
 Site Location: COFFEE CREEK - SURFACE WATER
 Your C.O.C. #: 553730-01-01, 553730-02-01

Attention: David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
 2289 BURRARD STREET
 VANCOUVER, BC
 CANADA V6J 3H9

Report Date: 2018/06/04

Report #: R2563297

Version: 2 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B839743

Received: 2018/05/23, 13:45

Sample Matrix: Water
 # Samples Received: 12

Analyses	Date		Laboratory Method	Analytical Method
	Quantity	Extracted		
Alkalinity - Low Level	9	N/A	2018/05/25 BBY6SOP-00026	SM 22 2320 B m
Alkalinity - Low Level	3	N/A	2018/05/26 BBY6SOP-00026	SM 22 2320 B m
Chloride - Low Level	12	N/A	2018/05/25 BBY6SOP-00011	SM 22 4500-Cl- E m
Carbon (DOC) - field filtered/preserved (2)	12	N/A	2018/05/28 BBY6SOP-00003	SM 22 5310 C m
Conductance - Low Level	9	N/A	2018/05/25 BBY6SOP-00026	SM 22 2510 B m
Conductance - Low Level	3	N/A	2018/05/26 BBY6SOP-00026	SM 22 2510 B m
Fluoride - Low Level	12	N/A	2018/05/28 BBY6SOP-00048	SM 22 4500-F C m
Hardness Total (calculated as CaCO3) (3)	12	N/A	2018/05/30 BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3)	12	N/A	2018/05/28 BBY WI-00033	Auto Calc
Mercury (Dissolved) by CVAf	12	N/A	2018/05/25 BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Total) by CVAf	12	2018/05/25	2018/05/25 BBY7SOP-00015	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	12	N/A	2018/05/28 BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (dissolved)	12	N/A	2018/05/26 BBY7SOP-00002	EPA 6020b R2 m
Elements by ICPMS Digested LL (total)	12	2018/05/28	2018/05/29 BBY7SOP-00003,	EPA 6020b R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total)	12	N/A	2018/05/30 BBY WI-00033	Auto Calc
Ammonia-N Low Level (Preserved)	12	N/A	2018/05/25 BBY6SOP-00009	EPA 350.1 m
Nitrate+Nitrite (N) (low level)	12	N/A	2018/05/25 BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrite (N) (low level)	12	N/A	2018/05/25 BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrogen - Nitrate (as N) Low Level Calc	12	N/A	2018/05/26 BBY WI-00033	Auto Calc
ORP Analysis on Water by ARD LAB	12	N/A	2018/05/25 BBY0SOP-00004	SM 22 2580 B
Filter and HNO3 Preserve for Metals	12	N/A	2018/05/25 BBY7 WI-00004	BCMOE Reqs 08/14
pH Water (4)	9	N/A	2018/05/25 BBY6SOP-00026	SM 22 4500-H+ B m
pH Water (4)	3	N/A	2018/05/26 BBY6SOP-00026	SM 22 4500-H+ B m
Sulphate - Low Level	12	N/A	2018/05/25 BBY6SOP-00017	SM 22 4500-SO42- E m
Total Dissolved Solids (Filt. Residue)	12	2018/05/29	2018/05/30 BBY6SOP-00033	SM 22 2540 C m
Carbon (Total Organic) (5)	12	N/A	2018/05/28 BBY6SOP-00003	SM 22 5310 C m
Total Suspended Solids-Low Level	12	2018/05/27	2018/05/28 BBY6SOP-00034	SM 22 2540 D
WAD Cyanide Water Subcontract (1)	12	2018/06/01	2018/06/01	

Remarks:

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted,

Your Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Your C.O.C. #: 553730-01-01, 553730-02-01

Attention: David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
2289 BURRARD STREET
VANCOUVER, BC
CANADA V6J 3H9

Report Date: 2018/06/04
Report #: R2563297
Version: 2 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B839743

Received: 2018/05/23, 13:45

procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Maxxam's profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Maxxam in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected.

Maxxam Analytics' liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Maxxam has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Maxxam, unless otherwise agreed in writing.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

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

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

- (1) This test was performed by Maxxam Ontario (From Burnaby)
- (2) DOC present in the sample should be considered as non-purgeable DOC.
- (3) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).
- (4) The BC-MOE and APHA Standard Method require pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the BC-MOE/APHA Standard Method holding time.
- (5) TOC present in the sample should be considered as non-purgeable TOC.

Encryption Key



Diana Cruz
Junior Project Manager
04 Jun 2018 17:07:23

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Diana Cruz, Junior Project Manager

Email: DCruz@maxxam.ca

Phone# (604) 734 7276

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Job #: B839743
Report Date: 2018/06/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TM4589	TM4590		TM4591		TM4592		
Sampling Date		2018/05/22 09:36	2018/05/22 10:18		2018/05/22 09:47		2018/05/22 07:50		
COC Number		553730-01-01	553730-01-01		553730-01-01		553730-01-01		
	UNITS	CC-0.5	CC-1.5	QC Batch	CC-3.5	QC Batch	CC-4.5	RDL	QC Batch
Parameter									
ORP	mV	473	475	9001405	354	9001405	361		9001405
Subcontract Parameter	N/A	ATTACHED	ATTACHED	9009842	ATTACHED	9009842	ATTACHED	N/A	9009842
Calculated Parameters									
Filter and HNO3 Preservation	N/A	LAB	LAB	9000377	LAB	9000377	LAB		9000377
Nitrate (N)	mg/L	0.0533	0.106	8999828	0.116	8999828	0.0798	0.0020	8999828
Misc. Inorganics									
Fluoride (F)	mg/L	0.043	0.043	9004026	0.048	9004026	0.046	0.010	9004026
Dissolved Organic Carbon (C)	mg/L	14.0	16.2	9003899	15.4	9003874	15.3	0.50	9003899
Alkalinity (Total as CaCO3)	mg/L	21.2	29.1	9002629	50.6	9002640	27.0	0.50	9002629
Total Organic Carbon (C)	mg/L	16.1	18.8	9003861	17.9	9003908	15.5	0.50	9003908
Alkalinity (PP as CaCO3)	mg/L	<0.50	<0.50	9002629	<0.50	9002640	<0.50	0.50	9002629
Bicarbonate (HCO3)	mg/L	25.8	35.5	9002629	61.7	9002640	32.9	0.50	9002629
Carbonate (CO3)	mg/L	<0.50	<0.50	9002629	<0.50	9002640	<0.50	0.50	9002629
Hydroxide (OH)	mg/L	<0.50	<0.50	9002629	<0.50	9002640	<0.50	0.50	9002629
Anions									
Dissolved Sulphate (SO4)	mg/L	19.4	33.4	9002120	53.2	9002120	29.9	0.50	9002120
Dissolved Chloride (Cl)	mg/L	0.86	0.72	9002119	0.75	9002119	0.79	0.50	9002119
Nutrients									
Total Ammonia (N)	mg/L	0.011	0.015	9001918	0.018	9001918	0.010	0.0050	9001918
Nitrate plus Nitrite (N)	mg/L	0.0533	0.106	9001417	0.116	9001422	0.0798	0.0020	9001417
Nitrite (N)	mg/L	<0.0020	<0.0020	9001421	<0.0020	9001425	<0.0020	0.0020	9001421
Physical Properties									
Conductivity	uS/cm	90.1	130	9002630	223	9002641	122	1.0	9002630
pH	pH	7.27	7.41	9002626	7.76	9002635	7.39		9002626
Physical Properties									
Total Suspended Solids	mg/L	7.9	1.5	9002315	2.0	9002315	7.6	1.0	9002315
Total Dissolved Solids	mg/L	78	102	9004438	172	9004438	100	10	9004438
RDL = Reportable Detection Limit N/A = Not Applicable									

Maxxam Job #: B839743
Report Date: 2018/06/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TM4593		TM4594	TM4595			TM4595		
Sampling Date		2018/05/22 10:40		2018/05/22 11:07	2018/05/22 11:55			2018/05/22 11:55		
COC Number		553730-01-01		553730-01-01	553730-01-01			553730-01-01		
	UNITS	HC-2.5	QC Batch	HC-5.0	YT-24	RDL	QC Batch	YT-24 Lab-Dup	RDL	QC Batch

Parameter										
ORP	mV	365	9001405	367	372		9001405			
Subcontract Parameter	N/A	ATTACHED	9009842	ATTACHED	ATTACHED	N/A	9009842			

Calculated Parameters										
Filter and HNO3 Preservation	N/A	LAB	9000377	LAB	LAB		9000377			
Nitrate (N)	mg/L	0.187	8999828	0.106	0.523	0.0020	8999828			

Misc. Inorganics										
Fluoride (F)	mg/L	0.042	9004026	0.048	0.058	0.010	9004026			
Dissolved Organic Carbon (C)	mg/L	26.9	9003899	18.9	18.3	0.50	9003874			
Alkalinity (Total as CaCO3)	mg/L	34.5	9002640	47.4	41.0	0.50	9002629			
Total Organic Carbon (C)	mg/L	28.3	9003861	19.0	20.9	0.50	9003861			
Alkalinity (PP as CaCO3)	mg/L	<0.50	9002640	<0.50	<0.50	0.50	9002629			
Bicarbonate (HCO3)	mg/L	42.1	9002640	57.8	50.0	0.50	9002629			
Carbonate (CO3)	mg/L	<0.50	9002640	<0.50	<0.50	0.50	9002629			
Hydroxide (OH)	mg/L	<0.50	9002640	<0.50	<0.50	0.50	9002629			

Anions										
Dissolved Sulphate (SO4)	mg/L	20.7	9002120	31.4	71.1	0.50	9002120			
Dissolved Chloride (Cl)	mg/L	0.80	9002119	0.93	1.1	0.50	9002119			

Nutrients										
Total Ammonia (N)	mg/L	0.0080	9001918	0.0080	0.021	0.0050	9001918			
Nitrate plus Nitrite (N)	mg/L	0.187	9001422	0.106	0.523	0.0020	9001417			
Nitrite (N)	mg/L	<0.0020	9001425	<0.0020	<0.0020	0.0020	9001421			

Physical Properties										
Conductivity	uS/cm	121	9002641	169	247	1.0	9002630			
pH	pH	7.52	9002635	7.62	7.58		9002626			

Physical Properties										
Total Suspended Solids	mg/L	2.5	9002315	1.1	1.7	1.0	9002315			
Total Dissolved Solids	mg/L	102	9004438	118	208	10	9004438	214	10	9004438

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Maxxam Job #: B839743
Report Date: 2018/06/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TM4596		TM4597			TM4597	
Sampling Date		2018/05/22 12:10		2018/05/22 12:30			2018/05/22 12:30	
COC Number		553730-01-01		553730-01-01			553730-01-01	
	UNITS	YT-24 MIX	QC Batch	COFFEE MIX	RDL	QC Batch	COFFEE MIX Lab-Dup	QC Batch
Parameter								
ORP	mV	372	9001405	373		9001405		
Subcontract Parameter	N/A	ATTACHED	9009842	ATTACHED	N/A	9009842		
Calculated Parameters								
Filter and HNO3 Preservation	N/A	LAB	9000377	LAB		9000377		
Nitrate (N)	mg/L	0.0260	8999828	0.0518	0.0020	8999828		
Misc. Inorganics								
Fluoride (F)	mg/L	0.093	9004026	0.071	0.010	9004026		
Dissolved Organic Carbon (C)	mg/L	7.33	9003874	10.1	0.50	9003874		
Alkalinity (Total as CaCO3)	mg/L	61.9	9002629	46.9	0.50	9002629		
Total Organic Carbon (C)	mg/L	8.15	9003861	12.3	0.50	9003908		
Alkalinity (PP as CaCO3)	mg/L	<0.50	9002629	<0.50	0.50	9002629		
Bicarbonate (HCO3)	mg/L	75.5	9002629	57.2	0.50	9002629		
Carbonate (CO3)	mg/L	<0.50	9002629	<0.50	0.50	9002629		
Hydroxide (OH)	mg/L	<0.50	9002629	<0.50	0.50	9002629		
Anions								
Dissolved Sulphate (SO4)	mg/L	25.3	9002120	28.3	0.50	9002120		
Dissolved Chloride (Cl)	mg/L	0.76	9002119	0.87	0.50	9002119		
Nutrients								
Total Ammonia (N)	mg/L	0.010	9001918	0.011	0.0050	9001918		
Nitrate plus Nitrite (N)	mg/L	0.0260	9001417	0.0518	0.0020	9001417		
Nitrite (N)	mg/L	<0.0020	9001421	<0.0020	0.0020	9001421		
Physical Properties								
Conductivity	uS/cm	180	9002630	155	1.0	9002630		
pH	pH	7.84	9002626	7.65		9002626	7.66	9002626
Physical Properties								
Total Suspended Solids	mg/L	94.5	9002315	56.2	1.0	9002315		
Total Dissolved Solids	mg/L	110	9004438	100	10	9004438		
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable								

Maxxam Job #: B839743
Report Date: 2018/06/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TM4598		TM4604	TM4605		
Sampling Date		2018/05/22 12:10		2018/05/22 08:15	2018/05/22 08:15		
COC Number		553730-01-01		553730-02-01	553730-02-01		
	UNITS	HALFWAY MIX	QC Batch	LATTE MIX	DUP	RDL	QC Batch
Parameter							
ORP	mV	369	9001405	373	373		9001405
Subcontract Parameter	N/A	ATTACHED	9009842	ATTACHED	ATTACHED	N/A	9009842
Calculated Parameters							
Filter and HNO3 Preservation	N/A	LAB	9000377	LAB	LAB		9000377
Nitrate (N)	mg/L	0.0326	8999828	0.0565	0.0684	0.0020	8999828
Misc. Inorganics							
Fluoride (F)	mg/L	0.096	9004026	0.045	0.044	0.010	9004026
Dissolved Organic Carbon (C)	mg/L	6.06	9003899	15.2	13.1	0.50	9003899
Alkalinity (Total as CaCO3)	mg/L	63.2	9002640	24.2	23.2	0.50	9002629
Total Organic Carbon (C)	mg/L	6.85	9003861	16.1	16.8	0.50	9003861
Alkalinity (PP as CaCO3)	mg/L	<0.50	9002640	<0.50	<0.50	0.50	9002629
Bicarbonate (HCO3)	mg/L	77.1	9002640	29.6	28.4	0.50	9002629
Carbonate (CO3)	mg/L	<0.50	9002640	<0.50	<0.50	0.50	9002629
Hydroxide (OH)	mg/L	<0.50	9002640	<0.50	<0.50	0.50	9002629
Anions							
Dissolved Sulphate (SO4)	mg/L	24.5	9002120	24.2	24.6	0.50	9002120
Dissolved Chloride (Cl)	mg/L	0.85	9002119	0.99	0.83	0.50	9002119
Nutrients							
Total Ammonia (N)	mg/L	0.014	9001918	0.0080	0.013	0.0050	9001918
Nitrate plus Nitrite (N)	mg/L	0.0326	9001422	0.0565	0.0684	0.0020	9001417
Nitrite (N)	mg/L	<0.0020	9001425	<0.0020	<0.0020	0.0020	9001421
Physical Properties							
Conductivity	uS/cm	182	9002641	105	104	1.0	9002630
pH	pH	7.89	9002635	7.31	7.31		9002626
Physical Properties							
Total Suspended Solids	mg/L	103	9002315	8.4	8.2	1.0	9002315
Total Dissolved Solids	mg/L	78	9004903	84	80	10	9004903
RDL = Reportable Detection Limit N/A = Not Applicable							

Maxxam Job #: B839743
Report Date: 2018/06/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TM4605		
Sampling Date		2018/05/22 08:15		
COC Number		553730-02-01		
	UNITS	DUP Lab-Dup	RDL	QC Batch

Nutrients				
Total Ammonia (N)	mg/L	0.013	0.0050	9001918

Physical Properties				
Total Dissolved Solids	mg/L	84	10	9004903

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Maxxam Job #: B839743
Report Date: 2018/06/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TM4589	TM4590	TM4591	TM4592	TM4593	TM4594		
Sampling Date		2018/05/22 09:36	2018/05/22 10:18	2018/05/22 09:47	2018/05/22 07:50	2018/05/22 10:40	2018/05/22 11:07		
COC Number		553730-01-01	553730-01-01	553730-01-01	553730-01-01	553730-01-01	553730-01-01		
	UNITS	CC-0.5	CC-1.5	CC-3.5	CC-4.5	HC-2.5	HC-5.0	RDL	QC Batch
Calculated Parameters									
Dissolved Hardness (CaCO3)	mg/L	40.2	66.7	102	54.1	57.8	78.3	0.50	8999174
Elements									
Dissolved Mercury (Hg)	ug/L	0.0065	0.0107	0.0058	0.0058	0.0090	0.0060	0.0020	9001267
Dissolved Metals by ICPMS									
Dissolved Aluminum (Al)	ug/L	177	242	134	148	310	141	0.50	9001298
Dissolved Antimony (Sb)	ug/L	0.074	0.093	0.087	0.075	0.190	0.188	0.020	9001298
Dissolved Arsenic (As)	ug/L	0.404	0.483	0.446	0.414	1.06	0.943	0.020	9001298
Dissolved Barium (Ba)	ug/L	31.0	26.4	42.3	35.9	31.2	36.1	0.020	9001298
Dissolved Beryllium (Be)	ug/L	0.017	0.038	0.022	0.018	0.041	0.029	0.010	9001298
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9001298
Dissolved Boron (B)	ug/L	<10	<10	<10	<10	<10	<10	10	9001298
Dissolved Cadmium (Cd)	ug/L	0.0146	0.0122	0.0085	0.0137	0.0113	0.0053	0.0050	9001298
Dissolved Chromium (Cr)	ug/L	0.27	0.32	0.28	0.25	0.51	0.40	0.10	9001298
Dissolved Cobalt (Co)	ug/L	0.135	0.0686	0.123	0.117	0.328	0.141	0.0050	9001298
Dissolved Copper (Cu)	ug/L	2.07	1.98	1.63	1.95	2.11	1.74	0.050	9001298
Dissolved Iron (Fe)	ug/L	143	173	121	120	263	156	1.0	9001298
Dissolved Lead (Pb)	ug/L	0.0080	0.0063	0.0085	0.0085	0.0224	0.0118	0.0050	9001298
Dissolved Lithium (Li)	ug/L	0.62	0.95	0.65	0.54	0.99	0.78	0.50	9001298
Dissolved Manganese (Mn)	ug/L	19.1	6.13	23.7	18.7	55.1	7.84	0.050	9001298
Dissolved Molybdenum (Mo)	ug/L	0.568	0.083	0.192	0.519	0.622	0.577	0.050	9001298
Dissolved Nickel (Ni)	ug/L	1.13	1.06	0.829	1.09	1.27	0.964	0.020	9001298
Dissolved Phosphorus (P)	ug/L	9.2	11.0	9.4	8.9	10.3	9.6	2.0	9001298
Dissolved Selenium (Se)	ug/L	0.055	0.056	0.064	0.062	0.064	0.061	0.040	9001298
Dissolved Silicon (Si)	ug/L	2180	2290	2570	2290	2710	2950	50	9001298
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0250	<0.0050	0.0050	9001298
Dissolved Strontium (Sr)	ug/L	51.7	151	207	80.2	176	206	0.050	9001298
Dissolved Thallium (Tl)	ug/L	0.0053	0.0035	0.0034	0.0048	0.0051	0.0029	0.0020	9001298
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	9001298
Dissolved Titanium (Ti)	ug/L	1.45	1.70	1.26	1.32	3.17	2.03	0.50	9001298
Dissolved Uranium (U)	ug/L	3.14	4.54	9.14	3.27	17.0	13.6	0.0020	9001298
Dissolved Vanadium (V)	ug/L	0.41	0.31	0.37	0.38	0.62	0.51	0.20	9001298
Dissolved Zinc (Zn)	ug/L	0.58	0.76	0.38	0.54	0.98	0.33	0.10	9001298
RDL = Reportable Detection Limit									

Maxxam Job #: B839743
Report Date: 2018/06/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TM4589	TM4590	TM4591	TM4592	TM4593	TM4594		
Sampling Date		2018/05/22 09:36	2018/05/22 10:18	2018/05/22 09:47	2018/05/22 07:50	2018/05/22 10:40	2018/05/22 11:07		
COC Number		553730-01-01	553730-01-01	553730-01-01	553730-01-01	553730-01-01	553730-01-01		
	UNITS	CC-0.5	CC-1.5	CC-3.5	CC-4.5	HC-2.5	HC-5.0	RDL	QC Batch
Dissolved Zirconium (Zr)	ug/L	0.31	0.59	0.54	0.34	0.71	0.56	0.10	9001298
Dissolved Calcium (Ca)	mg/L	10.2	17.3	26.7	13.6	14.6	19.9	0.050	8999541
Dissolved Magnesium (Mg)	mg/L	3.59	5.74	8.54	4.88	5.20	6.93	0.050	8999541
Dissolved Potassium (K)	mg/L	0.954	1.04	1.61	1.05	1.24	1.57	0.050	8999541
Dissolved Sodium (Na)	mg/L	1.75	1.48	2.58	2.10	1.78	2.38	0.050	8999541
Dissolved Sulphur (S)	mg/L	5.4	9.5	16.2	8.3	5.9	9.3	3.0	8999541
RDL = Reportable Detection Limit									

Maxxam Job #: B839743
Report Date: 2018/06/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TM4595	TM4596	TM4597	TM4598	TM4604	TM4605		
Sampling Date		2018/05/22 11:55	2018/05/22 12:10	2018/05/22 12:30	2018/05/22 12:10	2018/05/22 08:15	2018/05/22 08:15		
COC Number		553730-01-01	553730-01-01	553730-01-01	553730-01-01	553730-02-01	553730-02-01		
	UNITS	YT-24	YT-24 MIX	COFFEE MIX	HALFWAY MIX	LATTE MIX	DUP	RDL	QC Batch
Calculated Parameters									
Dissolved Hardness (CaCO3)	mg/L	114	83.5	70.7	83.6	47.2	46.8	0.50	8999174
Elements									
Dissolved Mercury (Hg)	ug/L	0.0081	0.0028	0.0044	0.0027	0.0066	0.0065	0.0020	9001267
Dissolved Metals by ICPMS									
Dissolved Aluminum (Al)	ug/L	105	36.5	76.9	39.4	168	167	0.50	9001298
Dissolved Antimony (Sb)	ug/L	0.224	0.130	0.110	0.135	0.079	0.082	0.020	9001298
Dissolved Arsenic (As)	ug/L	0.673	0.499	0.471	0.501	0.421	0.422	0.020	9001298
Dissolved Barium (Ba)	ug/L	56.0	42.5	40.8	42.9	32.1	32.1	0.020	9001298
Dissolved Beryllium (Be)	ug/L	0.027	<0.010	0.010	<0.010	0.018	0.018	0.010	9001298
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9001298
Dissolved Boron (B)	ug/L	<10	<10	<10	<10	<10	<10	10	9001298
Dissolved Cadmium (Cd)	ug/L	0.0092	0.0574	0.0491	0.0627	0.0158	0.0160	0.0050	9001298
Dissolved Chromium (Cr)	ug/L	0.44	<0.10	0.16	<0.10	0.28	0.25	0.10	9001298
Dissolved Cobalt (Co)	ug/L	0.147	0.0436	0.0905	0.0506	0.136	0.133	0.0050	9001298
Dissolved Copper (Cu)	ug/L	2.31	1.93	1.98	1.96	2.01	1.99	0.050	9001298
Dissolved Iron (Fe)	ug/L	99.8	65.9	92.4	70.6	139	140	1.0	9001298
Dissolved Lead (Pb)	ug/L	0.0097	0.0412	0.0343	0.0488	0.0089	0.0094	0.0050	9001298
Dissolved Lithium (Li)	ug/L	<0.50	1.46	1.00	1.45	0.60	0.61	0.50	9001298
Dissolved Manganese (Mn)	ug/L	11.4	5.83	14.8	7.41	20.9	19.6	0.050	9001298
Dissolved Molybdenum (Mo)	ug/L	0.337	0.962	0.736	0.976	0.532	0.516	0.050	9001298
Dissolved Nickel (Ni)	ug/L	1.01	2.53	1.89	2.56	1.14	1.09	0.020	9001298
Dissolved Phosphorus (P)	ug/L	12.1	5.9	7.5	6.0	10.1	10.5	2.0	9001298
Dissolved Selenium (Se)	ug/L	0.061	0.306	0.179	0.308	0.055	0.057	0.040	9001298
Dissolved Silicon (Si)	ug/L	2790	2380	2370	2440	2200	2170	50	9001298
Dissolved Silver (Ag)	ug/L	0.0053	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9001298
Dissolved Strontium (Sr)	ug/L	180	119	103	116	73.2	72.3	0.050	9001298
Dissolved Thallium (Tl)	ug/L	0.0040	0.0040	0.0047	0.0043	0.0047	0.0053	0.0020	9001298
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	9001298
Dissolved Titanium (Ti)	ug/L	1.90	0.52	0.86	0.58	1.49	1.54	0.50	9001298
Dissolved Uranium (U)	ug/L	3.46	1.15	2.04	1.28	3.54	3.57	0.0020	9001298
Dissolved Vanadium (V)	ug/L	0.35	0.31	0.35	0.31	0.43	0.42	0.20	9001298
Dissolved Zinc (Zn)	ug/L	0.29	2.00	2.00	2.14	0.61	0.52	0.10	9001298
RDL = Reportable Detection Limit									

Maxxam Job #: B839743
Report Date: 2018/06/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TM4595	TM4596	TM4597	TM4598	TM4604	TM4605		
Sampling Date		2018/05/22 11:55	2018/05/22 12:10	2018/05/22 12:30	2018/05/22 12:10	2018/05/22 08:15	2018/05/22 08:15		
COC Number		553730-01-01	553730-01-01	553730-01-01	553730-01-01	553730-02-01	553730-02-01		
	UNITS	YT-24	YT-24 MIX	COFFEE MIX	HALFWAY MIX	LATTE MIX	DUP	RDL	QC Batch
Dissolved Zirconium (Zr)	ug/L	0.73	0.12	0.21	0.11	0.36	0.33	0.10	9001298
Dissolved Calcium (Ca)	mg/L	29.6	22.2	18.4	22.2	11.9	11.9	0.050	8999541
Dissolved Magnesium (Mg)	mg/L	9.67	6.79	5.97	6.81	4.21	4.15	0.050	8999541
Dissolved Potassium (K)	mg/L	1.74	0.998	1.03	0.978	1.02	1.00	0.050	8999541
Dissolved Sodium (Na)	mg/L	3.00	1.89	2.04	1.88	1.89	1.86	0.050	8999541
Dissolved Sulphur (S)	mg/L	22.0	7.0	7.9	7.1	6.7	6.6	3.0	8999541
RDL = Reportable Detection Limit									

Maxxam Job #: B839743
Report Date: 2018/06/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TM4589			TM4589			TM4590		
Sampling Date		2018/05/22 09:36			2018/05/22 09:36			2018/05/22 10:18		
COC Number		553730-01-01			553730-01-01			553730-01-01		
	UNITS	CC-0.5	RDL	QC Batch	CC-0.5 Lab-Dup	RDL	QC Batch	CC-1.5	RDL	QC Batch
Calculated Parameters										
Total Hardness (CaCO3)	mg/L	44.1	0.50	9000046				69.8	0.50	9000046
Elements										
Total Mercury (Hg)	ug/L	0.0066	0.0020	9000749				0.0115	0.0020	9001116
Total Metals by ICPMS										
Total Aluminum (Al)	ug/L	320	3.0	9003753	308	3.0	9003753	277	3.0	9003753
Total Antimony (Sb)	ug/L	0.083	0.020	9003753	0.078	0.020	9003753	0.081	0.020	9003753
Total Arsenic (As)	ug/L	0.558	0.020	9003753	0.540	0.020	9003753	0.522	0.020	9003753
Total Barium (Ba)	ug/L	34.1	0.050	9003753	32.7	0.050	9003753	26.5	0.050	9003753
Total Beryllium (Be)	ug/L	0.022	0.010	9003753	0.022	0.010	9003753	0.040	0.010	9003753
Total Bismuth (Bi)	ug/L	<0.010	0.010	9003753	<0.010	0.010	9003753	<0.010	0.010	9003753
Total Boron (B)	ug/L	<10	10	9003753	<10	10	9003753	<10	10	9003753
Total Cadmium (Cd)	ug/L	0.0246	0.0050	9003753	0.0215	0.0050	9003753	0.0154	0.0050	9003753
Total Chromium (Cr)	ug/L	0.50	0.10	9003753	0.47	0.10	9003753	0.39	0.10	9003753
Total Cobalt (Co)	ug/L	0.247	0.010	9003753	0.236	0.010	9003753	0.091	0.010	9003753
Total Copper (Cu)	ug/L	2.45	0.10	9003753	2.36	0.10	9003753	2.03	0.10	9003753
Total Iron (Fe)	ug/L	350	5.0	9003753	340	5.0	9003753	222	5.0	9003753
Total Lead (Pb)	ug/L	0.072	0.020	9003753	0.069	0.020	9003753	0.029	0.020	9003753
Total Lithium (Li)	ug/L	0.74	0.50	9003753	0.72	0.50	9003753	1.01	0.50	9003753
Total Manganese (Mn)	ug/L	41.8	0.10	9003753	39.8	0.10	9003753	10.2	0.10	9003753
Total Molybdenum (Mo)	ug/L	0.626	0.050	9003753	0.599	0.050	9003753	0.077	0.050	9003753
Total Nickel (Ni)	ug/L	1.37	0.10	9003753	1.27	0.10	9003753	1.04	0.10	9003753
Total Phosphorus (P)	ug/L	20.2	5.0	9003753	17.1	5.0	9003753	16.2	5.0	9003753
Total Selenium (Se)	ug/L	0.067	0.040	9003753	0.049	0.040	9003753	0.059	0.040	9003753
Total Silicon (Si)	ug/L	2760	50	9003753	2750	50	9003753	2610	50	9003753
Total Silver (Ag)	ug/L	<0.010	0.010	9003753	<0.010	0.010	9003753	<0.010	0.010	9003753
Total Strontium (Sr)	ug/L	58.7	0.050	9003753	57.0	0.050	9003753	151	0.050	9003753
Total Thallium (Tl)	ug/L	0.0078	0.0020	9003753	0.0073	0.0020	9003753	0.0030	0.0020	9003753
Total Tin (Sn)	ug/L	<0.20	0.20	9003753	<0.20	0.20	9003753	<0.20	0.20	9003753
Total Titanium (Ti)	ug/L	10.1	2.0	9003753	10.0	2.0	9003753	3.1	2.0	9003753
Total Uranium (U)	ug/L	3.53	0.0050	9003753	3.42	0.0050	9003753	4.87	0.0050	9003753
Total Vanadium (V)	ug/L	0.88	0.20	9003753	0.86	0.20	9003753	0.39	0.20	9003753
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B839743
Report Date: 2018/06/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TM4589			TM4589			TM4590		
Sampling Date		2018/05/22 09:36			2018/05/22 09:36			2018/05/22 10:18		
COC Number		553730-01-01			553730-01-01			553730-01-01		
	UNITS	CC-0.5	RDL	QC Batch	CC-0.5 Lab-Dup	RDL	QC Batch	CC-1.5	RDL	QC Batch
Total Zinc (Zn)	ug/L	1.3	1.0	9003753	1.3	1.0	9003753	1.1	1.0	9003753
Total Zirconium (Zr)	ug/L	0.31	0.10	9003753	0.29	0.10	9003753	0.47	0.10	9003753
Total Calcium (Ca)	mg/L	11.2	0.25	8999544				18.3	0.25	8999544
Total Magnesium (Mg)	mg/L	3.90	0.25	8999544				5.85	0.25	8999544
Total Potassium (K)	mg/L	1.04	0.25	8999544				1.09	0.25	8999544
Total Sodium (Na)	mg/L	1.93	0.25	8999544				1.52	0.25	8999544
Total Sulphur (S)	mg/L	5.6	3.0	8999544				9.9	3.0	8999544
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B839743
Report Date: 2018/06/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TM4591	TM4592	TM4593	TM4594	TM4595	TM4596		
Sampling Date		2018/05/22 09:47	2018/05/22 07:50	2018/05/22 10:40	2018/05/22 11:07	2018/05/22 11:55	2018/05/22 12:10		
COC Number		553730-01-01	553730-01-01	553730-01-01	553730-01-01	553730-01-01	553730-01-01		
	UNITS	CC-3.5	CC-4.5	HC-2.5	HC-5.0	YT-24	YT-24 MIX	RDL	QC Batch
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	109	56.4	58.5	81.5	118	99.5	0.50	9000046
Elements									
Total Mercury (Hg)	ug/L	0.0067	0.0065	0.0100	0.0064	0.0084	0.0028	0.0020	9001116
Total Metals by ICPMS									
Total Aluminum (Al)	ug/L	149	294	398	166	136	1380	3.0	9003753
Total Antimony (Sb)	ug/L	0.086	0.076	0.187	0.186	0.238	0.241	0.020	9003753
Total Arsenic (As)	ug/L	0.464	0.578	1.24	0.996	0.733	1.96	0.020	9003753
Total Barium (Ba)	ug/L	42.2	39.3	31.5	37.0	57.7	114	0.050	9003753
Total Beryllium (Be)	ug/L	0.032	0.014	0.050	0.031	0.024	0.079	0.010	9003753
Total Bismuth (Bi)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	0.029	0.010	9003753
Total Boron (B)	ug/L	<10	<10	<10	<10	<10	<10	10	9003753
Total Cadmium (Cd)	ug/L	0.0101	0.0242	0.0148	0.0075	0.0116	0.339	0.0050	9003753
Total Chromium (Cr)	ug/L	0.34	0.44	0.62	0.45	0.51	2.76	0.10	9003753
Total Cobalt (Co)	ug/L	0.139	0.240	0.361	0.163	0.177	1.40	0.010	9003753
Total Copper (Cu)	ug/L	1.77	2.18	2.14	1.93	2.38	5.99	0.10	9003753
Total Iron (Fe)	ug/L	152	341	341	201	140	2700	5.0	9003753
Total Lead (Pb)	ug/L	0.021	0.079	0.058	0.025	0.029	1.50	0.020	9003753
Total Lithium (Li)	ug/L	0.68	0.70	1.05	0.90	<0.50	2.91	0.50	9003753
Total Manganese (Mn)	ug/L	31.9	40.3	62.3	13.7	14.0	122	0.10	9003753
Total Molybdenum (Mo)	ug/L	0.201	0.543	0.616	0.647	0.353	1.07	0.050	9003753
Total Nickel (Ni)	ug/L	0.83	1.21	1.27	0.98	1.05	8.19	0.10	9003753
Total Phosphorus (P)	ug/L	14.0	17.5	13.5	14.7	18.4	128	5.0	9003753
Total Selenium (Se)	ug/L	0.064	0.051	0.075	0.052	0.062	0.410	0.040	9003753
Total Silicon (Si)	ug/L	3070	2830	3290	3470	3370	4970	50	9003753
Total Silver (Ag)	ug/L	<0.010	<0.010	0.070	<0.010	<0.010	0.025	0.010	9003753
Total Strontium (Sr)	ug/L	219	82.1	176	218	185	132	0.050	9003753
Total Thallium (Tl)	ug/L	0.0031	0.0060	0.0050	0.0030	0.0041	0.0248	0.0020	9003753
Total Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	9003753
Total Titanium (Ti)	ug/L	2.1	9.8	5.7	3.8	3.9	46.4	2.0	9003753
Total Uranium (U)	ug/L	9.72	3.61	16.8	14.2	3.65	1.38	0.0050	9003753
Total Vanadium (V)	ug/L	0.46	0.89	0.78	0.58	0.41	5.04	0.20	9003753
Total Zinc (Zn)	ug/L	<1.0	1.2	1.2	<1.0	<1.0	28.5	1.0	9003753
RDL = Reportable Detection Limit									

Maxxam Job #: B839743
Report Date: 2018/06/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TM4591	TM4592	TM4593	TM4594	TM4595	TM4596		
Sampling Date		2018/05/22 09:47	2018/05/22 07:50	2018/05/22 10:40	2018/05/22 11:07	2018/05/22 11:55	2018/05/22 12:10		
COC Number		553730-01-01	553730-01-01	553730-01-01	553730-01-01	553730-01-01	553730-01-01		
	UNITS	CC-3.5	CC-4.5	HC-2.5	HC-5.0	YT-24	YT-24 MIX	RDL	QC Batch
Total Zirconium (Zr)	ug/L	0.44	0.28	0.60	0.50	0.64	0.49	0.10	9003753
Total Calcium (Ca)	mg/L	28.9	14.5	15.2	21.2	31.3	26.5	0.25	8999544
Total Magnesium (Mg)	mg/L	8.98	4.92	4.97	6.91	9.65	8.11	0.25	8999544
Total Potassium (K)	mg/L	1.74	1.12	1.24	1.62	1.81	1.33	0.25	8999544
Total Sodium (Na)	mg/L	2.71	2.12	1.73	2.41	3.00	2.07	0.25	8999544
Total Sulphur (S)	mg/L	16.9	8.2	5.4	9.5	22.6	7.8	3.0	8999544
RDL = Reportable Detection Limit									

Maxxam Job #: B839743
 Report Date: 2018/06/04

LORAX ENVIRONMENTAL SERVICES LTD.
 Client Project #: Gold Corp Coffee Creek-SW
 Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TM4597	TM4598	TM4604	TM4605		
Sampling Date		2018/05/22 12:30	2018/05/22 12:10	2018/05/22 08:15	2018/05/22 08:15		
COC Number		553730-01-01	553730-01-01	553730-02-01	553730-02-01		
	UNITS	COFFEE MIX	HALFWAY MIX	LATTE MIX	DUP	RDL	QC Batch
Calculated Parameters							
Total Hardness (CaCO3)	mg/L	80.5	95.1	51.6	49.9	0.50	9000046
Elements							
Total Mercury (Hg)	ug/L	0.0048	0.0032	0.0069	0.0073	0.0020	9001116
Total Metals by ICPMS							
Total Aluminum (Al)	ug/L	892	1440	357	366	3.0	9003753
Total Antimony (Sb)	ug/L	0.170	0.244	0.083	0.077	0.020	9003753
Total Arsenic (As)	ug/L	1.30	1.95	0.605	0.620	0.020	9003753
Total Barium (Ba)	ug/L	80.3	116	36.2	38.0	0.050	9003753
Total Beryllium (Be)	ug/L	0.051	0.069	0.018	0.025	0.010	9003753
Total Bismuth (Bi)	ug/L	0.015	0.027	<0.010	<0.010	0.010	9003753
Total Boron (B)	ug/L	<10	<10	<10	<10	10	9003753
Total Cadmium (Cd)	ug/L	0.178	0.327	0.0258	0.0261	0.0050	9003753
Total Chromium (Cr)	ug/L	1.76	2.80	0.57	0.62	0.10	9003753
Total Cobalt (Co)	ug/L	0.823	1.35	0.288	0.303	0.010	9003753
Total Copper (Cu)	ug/L	4.15	5.90	2.50	2.45	0.10	9003753
Total Iron (Fe)	ug/L	1630	2790	414	431	5.0	9003753
Total Lead (Pb)	ug/L	0.815	1.49	0.094	0.099	0.020	9003753
Total Lithium (Li)	ug/L	1.78	2.87	0.76	0.72	0.50	9003753
Total Manganese (Mn)	ug/L	78.1	116	48.5	48.5	0.10	9003753
Total Molybdenum (Mo)	ug/L	0.809	1.07	0.559	0.568	0.050	9003753
Total Nickel (Ni)	ug/L	4.78	7.89	1.39	1.45	0.10	9003753
Total Phosphorus (P)	ug/L	71.8	111	20.7	22.8	5.0	9003753
Total Selenium (Se)	ug/L	0.234	0.407	0.063	0.059	0.040	9003753
Total Silicon (Si)	ug/L	4210	4950	2880	2850	50	9003753
Total Silver (Ag)	ug/L	0.016	0.026	<0.010	<0.010	0.010	9003753
Total Strontium (Sr)	ug/L	109	128	76.6	74.8	0.050	9003753
Total Thallium (Tl)	ug/L	0.0180	0.0269	0.0072	0.0063	0.0020	9003753
Total Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	9003753
Total Titanium (Ti)	ug/L	31.5	47.4	12.0	14.6	2.0	9003753
Total Uranium (U)	ug/L	2.35	1.47	4.19	4.10	0.0050	9003753
Total Vanadium (V)	ug/L	3.18	5.19	1.01	1.06	0.20	9003753
Total Zinc (Zn)	ug/L	15.1	28.3	1.6	1.7	1.0	9003753
RDL = Reportable Detection Limit							

Maxxam Job #: B839743
Report Date: 2018/06/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TM4597	TM4598	TM4604	TM4605		
Sampling Date		2018/05/22 12:30	2018/05/22 12:10	2018/05/22 08:15	2018/05/22 08:15		
COC Number		553730-01-01	553730-01-01	553730-02-01	553730-02-01		
	UNITS	COFFEE MIX	HALFWAY MIX	LATTE MIX	DUP	RDL	QC Batch
Total Zirconium (Zr)	ug/L	0.38	0.35	0.31	0.31	0.10	9003753
Total Calcium (Ca)	mg/L	21.3	25.2	13.4	13.0	0.25	8999544
Total Magnesium (Mg)	mg/L	6.62	7.78	4.38	4.24	0.25	8999544
Total Potassium (K)	mg/L	1.25	1.29	1.15	1.10	0.25	8999544
Total Sodium (Na)	mg/L	2.16	2.00	1.97	1.89	0.25	8999544
Total Sulphur (S)	mg/L	7.6	6.9	6.7	6.3	3.0	8999544
RDL = Reportable Detection Limit							

Maxxam Job #: B839743
Report Date: 2018/06/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

GENERAL COMMENTS

Results relate only to the items tested.

Maxxam Job #: B839743
Report Date: 2018/06/04

QUALITY ASSURANCE REPORT

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9000749	Total Mercury (Hg)	2018/05/25	94	80 - 120	99	80 - 120	<0.0020	ug/L	17	20
9001116	Total Mercury (Hg)	2018/05/25	96	80 - 120	96	80 - 120	<0.0020	ug/L	NC	20
9001267	Dissolved Mercury (Hg)	2018/05/25	100	80 - 120	100	80 - 120	<0.0020	ug/L	NC	20
9001298	Dissolved Aluminum (Al)	2018/05/26	99	80 - 120	101	80 - 120	<0.50	ug/L	0.39	20
9001298	Dissolved Antimony (Sb)	2018/05/26	102	80 - 120	103	80 - 120	<0.020	ug/L	2.8	20
9001298	Dissolved Arsenic (As)	2018/05/26	105	80 - 120	106	80 - 120	<0.020	ug/L	1.0	20
9001298	Dissolved Barium (Ba)	2018/05/26	99	80 - 120	103	80 - 120	<0.020	ug/L	0.78	20
9001298	Dissolved Beryllium (Be)	2018/05/26	99	80 - 120	100	80 - 120	<0.010	ug/L	NC	20
9001298	Dissolved Bismuth (Bi)	2018/05/26	96	80 - 120	103	80 - 120	<0.0050	ug/L	NC	20
9001298	Dissolved Boron (B)	2018/05/26	94	80 - 120	96	80 - 120	<10	ug/L	0.58	20
9001298	Dissolved Cadmium (Cd)	2018/05/26	97	80 - 120	99	80 - 120	<0.0050	ug/L	NC	20
9001298	Dissolved Chromium (Cr)	2018/05/26	95	80 - 120	101	80 - 120	<0.10	ug/L	NC	20
9001298	Dissolved Cobalt (Co)	2018/05/26	99	80 - 120	104	80 - 120	<0.0050	ug/L	0.81	20
9001298	Dissolved Copper (Cu)	2018/05/26	93	80 - 120	103	80 - 120	<0.050	ug/L	0.48	20
9001298	Dissolved Iron (Fe)	2018/05/26	93	80 - 120	95	80 - 120	<1.0	ug/L	15	20
9001298	Dissolved Lead (Pb)	2018/05/26	97	80 - 120	103	80 - 120	<0.0050	ug/L	6.3	20
9001298	Dissolved Lithium (Li)	2018/05/26	101	80 - 120	101	80 - 120	<0.50	ug/L	1.8	20
9001298	Dissolved Manganese (Mn)	2018/05/26	NC	80 - 120	98	80 - 120	<0.050	ug/L	1.3	20
9001298	Dissolved Molybdenum (Mo)	2018/05/26	NC	80 - 120	104	80 - 120	<0.050	ug/L	3.5	20
9001298	Dissolved Nickel (Ni)	2018/05/26	92	80 - 120	102	80 - 120	<0.020	ug/L	7.1	20
9001298	Dissolved Phosphorus (P)	2018/05/26	100	80 - 120	101	80 - 120	<2.0	ug/L	1.5	20
9001298	Dissolved Selenium (Se)	2018/05/26	100	80 - 120	102	80 - 120	<0.040	ug/L	15	20
9001298	Dissolved Silicon (Si)	2018/05/26	103	80 - 120	93	80 - 120	<50	ug/L	1.8	20
9001298	Dissolved Silver (Ag)	2018/05/26	99	80 - 120	102	80 - 120	<0.0050	ug/L	NC	20
9001298	Dissolved Strontium (Sr)	2018/05/26	NC	80 - 120	98	80 - 120	<0.050	ug/L	3.4	20
9001298	Dissolved Thallium (Tl)	2018/05/26	96	80 - 120	101	80 - 120	<0.0020	ug/L	4.2	20
9001298	Dissolved Tin (Sn)	2018/05/26	101	80 - 120	103	80 - 120	<0.20	ug/L	NC	20
9001298	Dissolved Titanium (Ti)	2018/05/26	98	80 - 120	103	80 - 120	<0.50	ug/L	NC	20
9001298	Dissolved Uranium (U)	2018/05/26	101	80 - 120	101	80 - 120	<0.0020	ug/L	1.8	20
9001298	Dissolved Vanadium (V)	2018/05/26	98	80 - 120	103	80 - 120	<0.20	ug/L	0.018	20
9001298	Dissolved Zinc (Zn)	2018/05/26	94	80 - 120	103	80 - 120	<0.10	ug/L	0.55	20

Maxxam Job #: B839743
Report Date: 2018/06/04

QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9001298	Dissolved Zirconium (Zr)	2018/05/26	105	80 - 120	104	80 - 120	<0.10	ug/L	NC	20
9001417	Nitrate plus Nitrite (N)	2018/05/25	122 (1)	80 - 120	111	80 - 120	<0.0020	mg/L	1.0	25
9001421	Nitrite (N)	2018/05/25	120	80 - 120	103	80 - 120	<0.0020	mg/L	NC	25
9001422	Nitrate plus Nitrite (N)	2018/05/25	118	80 - 120	107	80 - 120	<0.0020	mg/L	4.7	25
9001425	Nitrite (N)	2018/05/25	117	80 - 120	103	80 - 120	<0.0020	mg/L	NC	25
9001918	Total Ammonia (N)	2018/05/25	85	80 - 120	96	80 - 120	<0.0050	mg/L	0	20
9002119	Dissolved Chloride (Cl)	2018/05/25			101	80 - 120	<0.50	mg/L		
9002120	Dissolved Sulphate (SO4)	2018/05/25			103	80 - 120	0.54, RDL=0.50	mg/L		
9002315	Total Suspended Solids	2018/05/28			99	80 - 120	<1.0	mg/L		
9002626	pH	2018/05/25			101	97 - 103			0.13	20
9002629	Alkalinity (PP as CaCO3)	2018/05/25					<0.50	mg/L		
9002629	Alkalinity (Total as CaCO3)	2018/05/25			96	80 - 120	<0.50	mg/L		
9002629	Bicarbonate (HCO3)	2018/05/25					<0.50	mg/L		
9002629	Carbonate (CO3)	2018/05/25					<0.50	mg/L		
9002629	Hydroxide (OH)	2018/05/25					<0.50	mg/L		
9002630	Conductivity	2018/05/25			102	80 - 120	<1.0	uS/cm		
9002635	pH	2018/05/26			101	97 - 103				
9002640	Alkalinity (PP as CaCO3)	2018/05/26					<0.50	mg/L		
9002640	Alkalinity (Total as CaCO3)	2018/05/26			95	80 - 120	<0.50	mg/L		
9002640	Bicarbonate (HCO3)	2018/05/26					<0.50	mg/L		
9002640	Carbonate (CO3)	2018/05/26					<0.50	mg/L		
9002640	Hydroxide (OH)	2018/05/26					<0.50	mg/L		
9002641	Conductivity	2018/05/26			101	80 - 120	<1.0	uS/cm		
9003753	Total Aluminum (Al)	2018/05/29	90	80 - 120	107	80 - 120	<3.0	ug/L	4.0	20
9003753	Total Antimony (Sb)	2018/05/29	102	80 - 120	105	80 - 120	<0.020	ug/L	6.4	20
9003753	Total Arsenic (As)	2018/05/29	101	80 - 120	103	80 - 120	<0.020	ug/L	3.3	20
9003753	Total Barium (Ba)	2018/05/29	101	80 - 120	106	80 - 120	<0.050	ug/L	4.5	20
9003753	Total Beryllium (Be)	2018/05/29	101	80 - 120	102	80 - 120	<0.010	ug/L	0.46	20
9003753	Total Bismuth (Bi)	2018/05/29	98	80 - 120	105	80 - 120	<0.010	ug/L	NC	20
9003753	Total Boron (B)	2018/05/29	100	80 - 120	101	80 - 120	<10	ug/L	NC	20
9003753	Total Cadmium (Cd)	2018/05/29	103	80 - 120	104	80 - 120	<0.0050	ug/L	13	20

Maxxam Job #: B839743
Report Date: 2018/06/04

QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9003753	Total Chromium (Cr)	2018/05/29	102	80 - 120	107	80 - 120	<0.10	ug/L	5.6	20
9003753	Total Cobalt (Co)	2018/05/29	99	80 - 120	104	80 - 120	<0.010	ug/L	4.6	20
9003753	Total Copper (Cu)	2018/05/29	97	80 - 120	101	80 - 120	<0.10	ug/L	3.6	20
9003753	Total Iron (Fe)	2018/05/29	81	80 - 120	110	80 - 120	<5.0	ug/L	3.1	20
9003753	Total Lead (Pb)	2018/05/29	99	80 - 120	105	80 - 120	<0.020	ug/L	4.1	20
9003753	Total Lithium (Li)	2018/05/29	100	80 - 120	103	80 - 120	<0.50	ug/L	2.8	20
9003753	Total Manganese (Mn)	2018/05/29	100	80 - 120	107	80 - 120	<0.10	ug/L	4.9	20
9003753	Total Molybdenum (Mo)	2018/05/29	102	80 - 120	107	80 - 120	<0.050	ug/L	4.4	20
9003753	Total Nickel (Ni)	2018/05/29	101	80 - 120	105	80 - 120	<0.10	ug/L	7.8	20
9003753	Total Phosphorus (P)	2018/05/29	98	80 - 120	102	80 - 120	<5.0	ug/L	16	20
9003753	Total Selenium (Se)	2018/05/29	103	80 - 120	103	80 - 120	<0.040	ug/L	NC	20
9003753	Total Silicon (Si)	2018/05/29	103	80 - 120	113	80 - 120	<50	ug/L	0.46	20
9003753	Total Silver (Ag)	2018/05/29	102	80 - 120	105	80 - 120	<0.010	ug/L	NC	20
9003753	Total Strontium (Sr)	2018/05/29	NC	80 - 120	106	80 - 120	<0.050	ug/L	2.8	20
9003753	Total Thallium (Tl)	2018/05/29	100	80 - 120	105	80 - 120	<0.0020	ug/L	6.6	20
9003753	Total Tin (Sn)	2018/05/29	102	80 - 120	106	80 - 120	<0.20	ug/L	NC	20
9003753	Total Titanium (Ti)	2018/05/29	98	80 - 120	111	80 - 120	<2.0	ug/L	1.6	20
9003753	Total Uranium (U)	2018/05/29	104	80 - 120	109	80 - 120	<0.0050	ug/L	3.3	20
9003753	Total Vanadium (V)	2018/05/29	104	80 - 120	109	80 - 120	<0.20	ug/L	2.3	20
9003753	Total Zinc (Zn)	2018/05/29	102	80 - 120	105	80 - 120	<1.0	ug/L	2.7	20
9003753	Total Zirconium (Zr)	2018/05/29	101	80 - 120	106	80 - 120	<0.10	ug/L	5.4	20
9003861	Total Organic Carbon (C)	2018/05/28	97	80 - 120	96	80 - 120	<0.50	mg/L	NC	20
9003874	Dissolved Organic Carbon (C)	2018/05/28	98	80 - 120	96	80 - 120	<0.50	mg/L	16	20
9003899	Dissolved Organic Carbon (C)	2018/05/28	98	80 - 120	107	80 - 120	<0.50	mg/L	1.8	20
9003908	Total Organic Carbon (C)	2018/05/28	97	80 - 120	107	80 - 120	<0.50	mg/L	1.7	20
9004026	Fluoride (F)	2018/05/28	NC	80 - 120	102	80 - 120	<0.010	mg/L	9.2	20
9004438	Total Dissolved Solids	2018/05/30	102	80 - 120	100	80 - 120	<10	mg/L	2.8	20

Maxxam Job #: B839743
Report Date: 2018/06/04

QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9004903	Total Dissolved Solids	2018/05/30	102	80 - 120	92	80 - 120	<10	mg/L	4.9	20

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

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

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

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

Maxxam Job #: B839743
Report Date: 2018/06/04

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Andy Lu, Ph.D., P.Chem., Scientific Specialist



Mandheraj Chana, Junior Project Manager

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Maxxam Analytics International Corporation o/a Maxxam Analytics
 4806 Canada Way, Burnaby, British Columbia Canada V5G 1K5 Tel: (604) 734 7276 Toll-free: 800-563-6286 Fax: (604) 731 2386 www.maxxam.ca

INVOICE TO:		Report Information		Project Information	
Company Name	#3604 LORAX ENVIRONMENTAL SERVICES LTD.	Company Name		Quotation #	B40231
Contact Name	Aida Piaseczny	Contact Name	David Flather	P.O. #	
Address	2289 BURRARD STREET VANCOUVER BC V6J 3H9	Address		Project #	Gold Corp Coffee Creek-SW
Phone	(604) 688-7173 x	Phone		Project Name	
Fac	(604) 688-7175 x	Fac		Site #	
Email	aida.piaseczny@lorax.ca; shukling.ng@lorax.ca	Email	David.Flather@lorax.ca	Sampled By	



8839743_COC

Bottle Order #:

553730

Project Manager



C#553730-01-01

Diana Cruz

Regulatory Criteria		Special Instructions		Analysis Requested												Turnaround Time (TAT) Required	
				Regulated Drinking Water? (Y/N) <input type="checkbox"/> Metals Field Filtered? (Y/N) <input type="checkbox"/> Routine (Alk-LI, EC-LI, NH4-LI, pH, TDS) <input type="checkbox"/> TSS-Low Level <input type="checkbox"/> Anions (LI, Cl, F, NO2, NO3, SO4) <input type="checkbox"/> Cyanide - WAD <input type="checkbox"/> TOC <input type="checkbox"/> DOC <input type="checkbox"/> Low Level Dissolved Metals incl. CV Hg <input type="checkbox"/> Low Level Total Metals incl. CV Hg <input type="checkbox"/> ORP <input type="checkbox"/>												Please provide advance notice for rush projects Re: (Standard) TAT <input type="checkbox"/> (v. Standard T = 5-7 Working days for most tests) Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 working days - contact your Project Manager for details. Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____ Rush Confirmation Number: _____ (col lab for #)	
Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form Samples must be kept cool (< 10°C) from time of sampling until delivery to maxxam																	
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	Routine (Alk-LI, EC-LI, NH4-LI, pH, TDS)	TSS-Low Level	Anions (LI, Cl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	# of Bottles	Comments
1 SID#162743	CC-0.5	22/05/18	9:36	w	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	
2 SID#162744	CC-1.5	22/05/18	10:18	w	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	
3 SID#162745	CC-3.5	22/05/18	9:47	w	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	RECEIVED IN WHITEHORSE
4 SID#162746	CC-4.5	22/05/18	7:50	w	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	BY: <i>f. Murphy @ 13:45</i>
5 SID#162747	HC-2.5	22/05/18	10:40	w	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	2018-05-23
6 SID#162748	HC-5.0	22/05/18	11:07	w	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	TEMP: 5 5 7
7 SID#149895	YT-24	22/05/18	11:55	w	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	5 5 4
8 SID#149896	YT-24 Mix	22/05/18	12:10	w	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	3 4 4
9 SID#149897	Coffee Mix	22/05/18	12:30	w	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	
10 SID#149898	Halfway Mix	22/05/18	12:10	w	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	
* RELINQUISHED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	# Jars used and not submitted	Lab Use Only								
<i>Mitchell Nardin</i>		22/05/18	14:30	<i>KEVIN PINK</i>		2018/05/24	13:00	12	Time Sensative <input checked="" type="checkbox"/>	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?						
<i>Calvin</i>		18/05/22							1, 3, 7	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No							
* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.												While: Maxxam Yellow: Client					
* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.														2, 4, 4 2, 5, 4			

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Maxxam Analytics International Corporation o/a Maxxam Analytics
 4606 Canada Way, Burnaby, British Columbia Canada V5G 1K5 Tel: (604) 734 7275 Toll-free 800-563-6266 Fax: (604) 731 2386 www.maxxam.ca

INVOICE TO:		Report Information		Project Information	
Company Name	#3604 LORAX ENVIRONMENTAL SERVICES LTD.	Company Name		Quotation #	B40231
Contact Name	Aida Piaseczny	Contact Name	David Flather	P.O. #	
Address	2289 BURRARD STREET VANCOUVER BC V6J 3H9	Address		Project #	Gold Corp Coffee Creek-SW
Phone	(604) 688-7173 x	Phone		Project Name	
Fax	(604) 688-7175 x	Fax		Site #	
Email	aida.piaseczny@lorax.ca; shukling.ng@lorax.ca	Email	David.Flather@lorax.ca	Sampled By	



Bottle Order #:
553730
Project Manager
Diana Cruz

Regulatory Criteria	Special Instructions	Analysis Requested											Turnaround Time (TAT) Required	
		Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	Routine (Alk-LL, EC-LL, NH4-LL, pH, TDS)	TSS-Low Level	Anions (LLCl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	Please provide advance notice for rush projects	
													Regular (Standard) TAT (will be applied if Rush TAT is not specified) Standard TAT = 5-7 Working days for most tests Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.	
													Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____	
													Rush Confirmation Number _____ (call lab for #)	

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (+ 10°C) from time of sampling until delivery to maxxam

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	Routine (Alk-LL, EC-LL, NH4-LL, pH, TDS)	TSS-Low Level	Anions (LLCl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP
SID#149899	Latte Mix	22/05/18	8:15	w	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓
SID#208506	Dup	22/05/18	8:15	w	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓

# of Bottles	Comments
13	RECEIVED IN WHITEHORSE
13	BY: <i>KV Murphy</i> @ 13:45
	2018-05-23
	TEMP: 5 1 5 1 7
	5 5 4
	3 4 4

RELINQUISHED BY: (Signature/Print) <i>Mitchell Nordin</i>	Date: (YY/MM/DD) 18/05/22	Time 14:30	RECEIVED BY: (Signature/Print) <i>[Signature]</i>	Date: (YY/MM/DD) 2018/05/24	Time 13:00	# Jars used and not submitted NA	Lab Use Only	
							Time Sensitive <input checked="" type="checkbox"/>	Temperature (°C) on Receipt 7.3, 3 2.4, 4 2.5, 4
* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.								Custody Seal Intact on Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.								White: Maxxam Yellow: Client

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Your Project #: Gold Corp Coffee Creek-SW
 Site Location: COFFEE CREEK - SURFACE WATER
 Your C.O.C. #: 553733-01-01, 553733-02-01

Attention: David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
 2289 BURRARD STREET
 VANCOUVER, BC
 CANADA V6J 3H9

Report Date: 2018/06/07
 Report #: R2566597
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B840685

Received: 2018/05/28, 13:30

Sample Matrix: Water
 # Samples Received: 11

Analyses	Date		Laboratory Method	Analytical Method
	Quantity	Extracted		
Alkalinity - Low Level	6	N/A	2018/05/29 BBY6SOP-00026	SM 22 2320 B m
Alkalinity - Low Level	5	N/A	2018/05/30 BBY6SOP-00026	SM 22 2320 B m
Chloride by Automated Colourimetry (1)	1	N/A	2018/05/31 AB SOP-00020	SM 22-4500-Cl-E m
Chloride by Automated Colourimetry (1)	10	N/A	2018/06/01 AB SOP-00020	SM 22-4500-Cl-E m
Carbon (DOC) - field filtered/preserved (3)	11	N/A	2018/05/30 BBY6SOP-00003	SM 22 5310 C m
Conductance - Low Level	6	N/A	2018/05/29 BBY6SOP-00026	SM 22 2510 B m
Conductance - Low Level	5	N/A	2018/05/30 BBY6SOP-00026	SM 22 2510 B m
Fluoride - Low Level	11	N/A	2018/05/29 BBY6SOP-00048	SM 22 4500-F C m
Hardness Total (calculated as CaCO3) (4)	11	N/A	2018/05/30 BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3)	11	N/A	2018/06/01 BBY WI-00033	Auto Calc
Mercury (Dissolved) by CVAf	1	N/A	2018/05/29 BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Dissolved) by CVAf	10	N/A	2018/06/01 BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Total) by CVAf	11	2018/06/01	2018/06/01 BBY7SOP-00015	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	11	N/A	2018/06/01 BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (dissolved)	11	N/A	2018/05/31 BBY7SOP-00002	EPA 6020b R2 m
Elements by ICPMS Digested LL (total)	11	2018/05/29	2018/05/30 BBY7SOP-00003,	EPA 6020b R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total)	11	N/A	2018/05/30 BBY WI-00033	Auto Calc
Ammonia-N Low Level (Preserved)	11	N/A	2018/05/29 BBY6SOP-00009	EPA 350.1 m
Nitrate+Nitrite (N) (low level)	11	N/A	2018/05/29 BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrite (N) (low level)	11	N/A	2018/05/29 BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrogen - Nitrate (as N) Low Level Calc	11	N/A	2018/05/30 BBY WI-00033	Auto Calc
ORP Analysis on Water by ARD LAB	11	N/A	2018/05/29 BBY0SOP-00004	SM 22 2580 B
Filter and HNO3 Preserve for Metals	11	N/A	2018/05/29 BBY7 WI-00004	BCMOE Reqs 08/14
pH Water (5)	6	N/A	2018/05/29 BBY6SOP-00026	SM 22 4500-H+ B m
pH Water (5)	5	N/A	2018/05/30 BBY6SOP-00026	SM 22 4500-H+ B m
Sulphate - Low Level	10	N/A	2018/06/05 BBY6SOP-00017	SM 22 4500-SO42- E m
Sulphate - Low Level	1	N/A	2018/06/07 BBY6SOP-00017	SM 22 4500-SO42- E m
Total Dissolved Solids (Filt. Residue)	8	2018/05/30	2018/05/31 BBY6SOP-00033	SM 22 2540 C m
Total Dissolved Solids (Filt. Residue)	3	2018/05/31	2018/06/01 BBY6SOP-00033	SM 22 2540 C m
Carbon (Total Organic) (6)	11	N/A	2018/05/30 BBY6SOP-00003	SM 22 5310 C m

Your Project #: Gold Corp Coffee Creek-SW
 Site Location: COFFEE CREEK - SURFACE WATER
 Your C.O.C. #: 553733-01-01, 553733-02-01

Attention: David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
 2289 BURRARD STREET
 VANCOUVER, BC
 CANADA V6J 3H9

Report Date: 2018/06/07
 Report #: R2566597
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B840685

Received: 2018/05/28, 13:30

Sample Matrix: Water
 # Samples Received: 11

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Total Suspended Solids-Low Level	10	2018/05/30	2018/05/31	BBY6SOP-00034	SM 22 2540 D
Total Suspended Solids-Low Level	1	2018/05/31	2018/06/01	BBY6SOP-00034	SM 22 2540 D
WAD Cyanide Water Subcontract (2)	11	2018/06/01	2018/06/01		

Remarks:

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Maxxam's profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Maxxam in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected.

Maxxam Analytics' liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Maxxam has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Maxxam, unless otherwise agreed in writing.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

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

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

- (1) This test was performed by Maxxam Calgary Environmental
- (2) This test was performed by Maxxam Ontario (From Burnaby)
- (3) DOC present in the sample should be considered as non-purgeable DOC.
- (4) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).
- (5) The BC-MOE and APHA Standard Method require pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the BC-MOE/APHA Standard Method holding time.
- (6) TOC present in the sample should be considered as non-purgeable TOC.

Your Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Your C.O.C. #: 553733-01-01, 553733-02-01

Attention: David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
2289 BURRARD STREET
VANCOUVER, BC
CANADA V6J 3H9

Report Date: 2018/06/07
Report #: R2566597
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B840685

Received: 2018/05/28, 13:30

Encryption Key



Letitia Prefontaine
Senior Project Manager
07 Jun 2018 18:45:34

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Diana Cruz, Junior Project Manager
Email: DCruz@maxxam.ca
Phone# (604) 734 7276

=====
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Job #: B840685
Report Date: 2018/06/07

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TM9219			TM9219			TM9220		
Sampling Date		2018/05/24 12:00			2018/05/24 12:00			2018/05/24 14:00		
COC Number		553733-01-01			553733-01-01			553733-01-01		
	UNITS	CC-0.5	RDL	QC Batch	CC-0.5 Lab-Dup	RDL	QC Batch	CC-1.5	RDL	QC Batch
Parameter										
ORP	mV	464		9004719	463		9004719	463		9004719
Subcontract Parameter	N/A	ATTACHED	N/A	9009864				ATTACHED	N/A	9009864
Calculated Parameters										
Filter and HNO3 Preservation	N/A	LAB		9004244				LAB		9004244
Nitrate (N)	mg/L	0.0540	0.0020	9003880				0.119	0.0020	9003880
Misc. Inorganics										
Fluoride (F)	mg/L	0.052	0.010	9005558				0.040	0.010	9005558
Dissolved Organic Carbon (C)	mg/L	14.2	0.50	9006396	14.3	0.50	9006396	17.8	0.50	9006396
Alkalinity (Total as CaCO3)	mg/L	28.2	0.50	9005126				32.1	0.50	9005107
Total Organic Carbon (C)	mg/L	16.0	0.50	9006398				19.7	0.50	9006398
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	9005126				<0.50	0.50	9005107
Bicarbonate (HCO3)	mg/L	34.4	0.50	9005126				39.1	0.50	9005107
Carbonate (CO3)	mg/L	<0.50	0.50	9005126				<0.50	0.50	9005107
Hydroxide (OH)	mg/L	<0.50	0.50	9005126				<0.50	0.50	9005107
Anions										
Dissolved Sulphate (SO4)	mg/L	26.2	0.50	9017539				26.5	0.50	9013838
Dissolved Chloride (Cl)	mg/L	1.2	0.50	9009211				1.1	0.50	9009211
Nutrients										
Total Ammonia (N)	mg/L	0.015	0.0050	9005054				0.013	0.0050	9005054
Nitrate plus Nitrite (N)	mg/L	0.0577	0.0020	9005400				0.121	0.0020	9005398
Nitrite (N)	mg/L	0.0037	0.0020	9005402				0.0020	0.0020	9005399
Physical Properties										
Conductivity	uS/cm	112	1.0	9005127				123	1.0	9005108
pH	pH	7.54		9005113				7.55		9005100
Physical Properties										
Total Suspended Solids	mg/L	2.4	1.0	9006331				10.9	1.0	9006331
Total Dissolved Solids	mg/L	114	10	9006007				126	10	9006007
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable										

Maxxam Job #: B840685
Report Date: 2018/06/07

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TM9221		TM9222		TM9223		
Sampling Date		2018/05/24 13:00		2018/05/24 11:00		2018/05/24 15:00		
COC Number		553733-01-01		553733-01-01		553733-01-01		
	UNITS	CC-3.5	QC Batch	CC-4.5	QC Batch	HC-2.5	RDL	QC Batch
Parameter								
ORP	mV	463	9004719	460	9004719	459		9004719
Subcontract Parameter	N/A	ATTACHED	9009864	ATTACHED	9009864	ATTACHED	N/A	9009864
Calculated Parameters								
Filter and HNO3 Preservation	N/A	LAB	9004244	LAB	9004244	LAB		9004244
Nitrate (N)	mg/L	0.112	9003880	0.0841	9003880	0.208	0.0020	9003880
Misc. Inorganics								
Fluoride (F)	mg/L	0.055	9005558	0.052	9005558	0.039	0.010	9005558
Dissolved Organic Carbon (C)	mg/L	14.0	9006319	12.3	9006319	24.5	0.50	9006396
Alkalinity (Total as CaCO3)	mg/L	62.4	9005107	36.4	9005126	21.0	0.50	9005107
Total Organic Carbon (C)	mg/L	15.0	9006318	12.6	9006318	29.2	0.50	9006398
Alkalinity (PP as CaCO3)	mg/L	<0.50	9005107	<0.50	9005126	<0.50	0.50	9005107
Bicarbonate (HCO3)	mg/L	76.2	9005107	44.4	9005126	25.6	0.50	9005107
Carbonate (CO3)	mg/L	<0.50	9005107	<0.50	9005126	<0.50	0.50	9005107
Hydroxide (OH)	mg/L	<0.50	9005107	<0.50	9005126	<0.50	0.50	9005107
Anions								
Dissolved Sulphate (SO4)	mg/L	66.5	9013838	34.8	9013838	<0.50	0.50	9013838
Dissolved Chloride (Cl)	mg/L	1.1	9009211	1.3	9007789	1.7	0.50	9009211
Nutrients								
Total Ammonia (N)	mg/L	0.041	9005054	0.013	9005054	0.035	0.0050	9005054
Nitrate plus Nitrite (N)	mg/L	0.115	9005398	0.0870	9005400	0.210	0.0020	9005398
Nitrite (N)	mg/L	0.0022	9005399	0.0029	9005402	0.0023	0.0020	9005399
Physical Properties								
Conductivity	uS/cm	254	9005108	149	9005127	63.8	1.0	9005108
pH	pH	7.89	9005100	7.67	9005113	7.26		9005100
Physical Properties								
Total Suspended Solids	mg/L	<1.0	9006331	1.7	9006331	26.0	1.0	9006331
Total Dissolved Solids	mg/L	190	9006007	132	9006007	110	10	9006007
RDL = Reportable Detection Limit N/A = Not Applicable								

Maxxam Job #: B840685
Report Date: 2018/06/07

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TM9224			TM9224			TM9225		
Sampling Date		2018/05/24 15:30			2018/05/24 15:30			2018/05/24 16:15		
COC Number		553733-01-01			553733-01-01			553733-01-01		
	UNITS	HC-5.0	RDL	QC Batch	HC-5.0 Lab-Dup	RDL	QC Batch	YT-24	RDL	QC Batch
Parameter										
ORP	mV	451		9004719				457		9004719
Subcontract Parameter	N/A	ATTACHED	N/A	9009864				ATTACHED	N/A	9009864
Calculated Parameters										
Filter and HNO3 Preservation	N/A	LAB		9004244				LAB		9004244
Nitrate (N)	mg/L	0.0915	0.0020	9003880				0.523	0.0020	9003880
Misc. Inorganics										
Fluoride (F)	mg/L	0.052	0.010	9005558				0.048	0.010	9005558
Dissolved Organic Carbon (C)	mg/L	16.0	0.50	9006319	14.6	0.50	9006319	14.6	0.50	9006396
Alkalinity (Total as CaCO3)	mg/L	49.4	0.50	9005107				50.7	0.50	9005107
Total Organic Carbon (C)	mg/L	16.8	0.50	9006318				17.6	0.50	9006398
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	9005107				<0.50	0.50	9005107
Bicarbonate (HCO3)	mg/L	60.3	0.50	9005107				61.8	0.50	9005107
Carbonate (CO3)	mg/L	<0.50	0.50	9005107				<0.50	0.50	9005107
Hydroxide (OH)	mg/L	<0.50	0.50	9005107				<0.50	0.50	9005107
Anions										
Dissolved Sulphate (SO4)	mg/L	28.6	0.50	9013838				93.6	0.50	9013838
Dissolved Chloride (Cl)	mg/L	1.3	0.50	9009211				1.5	0.50	9009211
Nutrients										
Total Ammonia (N)	mg/L	0.022	0.0050	9005054				0.022	0.0050	9005054
Nitrate plus Nitrite (N)	mg/L	0.0935	0.0020	9005398				0.526	0.0020	9005398
Nitrite (N)	mg/L	0.0020	0.0020	9005399				0.0028	0.0020	9005399
Physical Properties										
Conductivity	uS/cm	161	1.0	9005108				286	1.0	9005108
pH	pH	7.85		9005100				7.76		9005100
Physical Properties										
Total Suspended Solids	mg/L	8.5	1.0	9006331				26.0	1.0	9006331
Total Dissolved Solids	mg/L	142	10	9006007				228	10	9006007
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable										

Maxxam Job #: B840685
Report Date: 2018/06/07

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TM9226			TM9226			TM9227		
Sampling Date		2018/05/25 10:30			2018/05/25 10:30			2018/05/25 09:30		
COC Number		553733-01-01			553733-01-01			553733-01-01		
	UNITS	YT-24 MIX	RDL	QC Batch	YT-24 MIX Lab-Dup	RDL	QC Batch	COFFEE MIX	RDL	QC Batch
Parameter										
ORP	mV	457		9004719				453		9004719
Subcontract Parameter	N/A	ATTACHED	N/A	9009864				ATTACHED	N/A	9009864
Calculated Parameters										
Filter and HNO3 Preservation	N/A	LAB		9004244				LAB		9004244
Nitrate (N)	mg/L	0.0276	0.0020	9003880				0.0348	0.0020	9003880
Misc. Inorganics										
Fluoride (F)	mg/L	0.094	0.010	9005558				0.090	0.010	9005558
Dissolved Organic Carbon (C)	mg/L	7.21	0.50	9006396				8.55	0.50	9006319
Alkalinity (Total as CaCO3)	mg/L	60.0	0.50	9005107				56.1	0.50	9005126
Total Organic Carbon (C)	mg/L	8.96	0.50	9006398				10.2	0.50	9006398
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	9005107				<0.50	0.50	9005126
Bicarbonate (HCO3)	mg/L	73.2	0.50	9005107				68.4	0.50	9005126
Carbonate (CO3)	mg/L	<0.50	0.50	9005107				<0.50	0.50	9005126
Hydroxide (OH)	mg/L	<0.50	0.50	9005107				<0.50	0.50	9005126
Anions										
Dissolved Sulphate (SO4)	mg/L	21.7	0.50	9013838				21.2	0.50	9013838
Dissolved Chloride (Cl)	mg/L	1.5	0.50	9009211				1.5	0.50	9009211
Nutrients										
Total Ammonia (N)	mg/L	0.017	0.0050	9005054				0.031	0.0050	9005054
Nitrate plus Nitrite (N)	mg/L	0.0318	0.0020	9005398				0.0368	0.0020	9005400
Nitrite (N)	mg/L	0.0042	0.0020	9005399				0.0020	0.0020	9005402
Physical Properties										
Conductivity	uS/cm	165	1.0	9005108				155	1.0	9005127
pH	pH	7.85		9005100				7.88		9005113
Physical Properties										
Total Suspended Solids	mg/L	98.8	1.0	9006331				81.3 (1)	2.5	9006331
Total Dissolved Solids	mg/L	128	10	9006007	126	10	9006007	108	10	9006987
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable (1) RDL raised due to sample matrix interference.										

Maxxam Job #: B840685
Report Date: 2018/06/07

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TM9228			TM9228			TM9229		
Sampling Date		2018/05/25 12:00			2018/05/25 12:00			2018/05/24 11:45		
COC Number		553733-01-01			553733-01-01			553733-02-01		
	UNITS	HALFWAY MIX	RDL	QC Batch	HALFWAY MIX Lab-Dup	RDL	QC Batch	LATTE MIX	RDL	QC Batch

Parameter										
ORP	mV	454		9004719				455		9004719
Subcontract Parameter	N/A	ATTACHED	N/A	9009864				ATTACHED	N/A	9009864

Calculated Parameters										
Filter and HNO3 Preservation	N/A	LAB		9004244				LAB		9004244
Nitrate (N)	mg/L	0.0245	0.0020	9003880				0.0686	0.0020	9003880

Misc. Inorganics										
Fluoride (F)	mg/L	0.095	0.010	9005558				0.052	0.010	9005558
Dissolved Organic Carbon (C)	mg/L	6.10	0.50	9006396				14.1	0.50	9006396
Alkalinity (Total as CaCO3)	mg/L	59.3	0.50	9005089				32.5	0.50	9005107
Total Organic Carbon (C)	mg/L	8.38	0.50	9006398				14.3	0.50	9006318
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	9005089				<0.50	0.50	9005107
Bicarbonate (HCO3)	mg/L	72.4	0.50	9005089				39.6	0.50	9005107
Carbonate (CO3)	mg/L	<0.50	0.50	9005089				<0.50	0.50	9005107
Hydroxide (OH)	mg/L	<0.50	0.50	9005089				<0.50	0.50	9005107

Anions										
Dissolved Sulphate (SO4)	mg/L	21.6	0.50	9013838				29.6	0.50	9013838
Dissolved Chloride (Cl)	mg/L	1.5	0.50	9009211				1.6	0.50	9009211

Nutrients										
Total Ammonia (N)	mg/L	0.019	0.0050	9005054				0.012	0.0050	9005054
Nitrate plus Nitrite (N)	mg/L	0.0277	0.0020	9005398	0.0278	0.0020	9005398	0.0720	0.0020	9005398
Nitrite (N)	mg/L	0.0032	0.0020	9005399	0.0026	0.0020	9005399	0.0034	0.0020	9005399

Physical Properties										
Conductivity	uS/cm	163	1.0	9005090				128	1.0	9005108
pH	pH	7.88		9005079				7.55		9005100

Physical Properties										
Total Suspended Solids	mg/L	78.8 (1)	2.0	9007449				2.1	1.0	9006331
Total Dissolved Solids	mg/L	112	10	9006987				110	10	9006987

RDL = Reportable Detection Limit
 Lab-Dup = Laboratory Initiated Duplicate
 N/A = Not Applicable
 (1) RDL raised due to sample matrix interference.

Maxxam Job #: B840685
Report Date: 2018/06/07

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TM9229		
Sampling Date		2018/05/24 11:45		
COC Number		553733-02-01		
	UNITS	LATTE MIX Lab-Dup	RDL	QC Batch
Nutrients				
Total Ammonia (N)	mg/L	0.012	0.0050	9005054
RDL = Reportable Detection Limit				
Lab-Dup = Laboratory Initiated Duplicate				

Maxxam Job #: B840685
Report Date: 2018/06/07

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TM9219		TM9220		TM9221	TM9222		
Sampling Date		2018/05/24 12:00		2018/05/24 14:00		2018/05/24 13:00	2018/05/24 11:00		
COC Number		553733-01-01		553733-01-01		553733-01-01	553733-01-01		
	UNITS	CC-0.5	QC Batch	CC-1.5	QC Batch	CC-3.5	CC-4.5	RDL	QC Batch
Calculated Parameters									
Dissolved Hardness (CaCO3)	mg/L	53.9	9003126	65.4	9003126	125	73.3	0.50	9003126
Elements									
Dissolved Mercury (Hg)	ug/L	0.0065	9008763	0.0120	9004431	0.0045	0.0044	0.0020	9008763
Dissolved Metals by ICPMS									
Dissolved Aluminum (Al)	ug/L	143	9005408	287	9005408	95.3	121	0.50	9005408
Dissolved Antimony (Sb)	ug/L	0.082	9005408	0.090	9005408	0.095	0.082	0.020	9005408
Dissolved Arsenic (As)	ug/L	0.429	9005408	0.532	9005408	0.455	0.406	0.020	9005408
Dissolved Barium (Ba)	ug/L	33.2	9005408	25.5	9005408	45.0	40.7	0.020	9005408
Dissolved Beryllium (Be)	ug/L	0.019	9005408	0.036	9005408	0.014	0.016	0.010	9005408
Dissolved Bismuth (Bi)	ug/L	<0.0050	9005408	<0.0050	9005408	<0.0050	<0.0050	0.0050	9005408
Dissolved Boron (B)	ug/L	<10	9005408	<10	9005408	<10	<10	10	9005408
Dissolved Cadmium (Cd)	ug/L	0.0162	9005408	0.0110	9005408	0.0085	0.0132	0.0050	9005408
Dissolved Chromium (Cr)	ug/L	0.30	9005408	0.45	9005408	0.31	0.29	0.10	9005408
Dissolved Cobalt (Co)	ug/L	0.0981	9005408	0.108	9005408	0.104	0.0787	0.0050	9005408
Dissolved Copper (Cu)	ug/L	2.17	9005408	2.32	9005408	1.64	2.07	0.050	9005408
Dissolved Iron (Fe)	ug/L	138	9005408	214	9005408	94.0	109	1.0	9005408
Dissolved Lead (Pb)	ug/L	0.0223	9005408	0.0108	9005408	0.0076	0.0087	0.0050	9005408
Dissolved Lithium (Li)	ug/L	0.77	9005408	1.02	9005408	0.73	0.69	0.50	9005408
Dissolved Manganese (Mn)	ug/L	13.0	9005408	7.37	9005408	18.3	9.91	0.050	9005408
Dissolved Molybdenum (Mo)	ug/L	0.701	9005408	0.087	9005408	0.251	0.660	0.050	9005408
Dissolved Nickel (Ni)	ug/L	1.14	9005408	1.06	9005408	0.897	1.08	0.020	9005408
Dissolved Phosphorus (P)	ug/L	9.6	9005408	12.4	9005408	11.6	11.0	2.0	9005408
Dissolved Selenium (Se)	ug/L	0.064	9005408	0.067	9005408	0.074	0.077	0.040	9005408
Dissolved Silicon (Si)	ug/L	2960	9005408	2670	9005408	3210	3140	50	9005408
Dissolved Silver (Ag)	ug/L	<0.0050	9005408	<0.0050	9005408	<0.0050	<0.0050	0.0050	9005408
Dissolved Strontium (Sr)	ug/L	69.5	9005408	143	9005408	252	104	0.050	9005408
Dissolved Thallium (Tl)	ug/L	0.0033	9005408	0.0025	9005408	0.0025	0.0037	0.0020	9005408
Dissolved Tin (Sn)	ug/L	<0.20	9005408	<0.20	9005408	<0.20	<0.20	0.20	9005408
Dissolved Titanium (Ti)	ug/L	1.69	9005408	2.16	9005408	1.69	1.28	0.50	9005408
Dissolved Uranium (U)	ug/L	3.57	9005408	4.11	9005408	11.2	3.93	0.0020	9005408
Dissolved Vanadium (V)	ug/L	0.50	9005408	0.52	9005408	0.46	0.46	0.20	9005408
Dissolved Zinc (Zn)	ug/L	0.54	9005408	0.95	9005408	0.43	0.58	0.10	9005408
RDL = Reportable Detection Limit									

Maxxam Job #: B840685
Report Date: 2018/06/07

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TM9219		TM9220		TM9221	TM9222		
Sampling Date		2018/05/24 12:00		2018/05/24 14:00		2018/05/24 13:00	2018/05/24 11:00		
COC Number		553733-01-01		553733-01-01		553733-01-01	553733-01-01		
	UNITS	CC-0.5	QC Batch	CC-1.5	QC Batch	CC-3.5	CC-4.5	RDL	QC Batch
Dissolved Zirconium (Zr)	ug/L	0.37	9005408	0.69	9005408	0.55	0.35	0.10	9005408
Dissolved Calcium (Ca)	mg/L	13.9	9003129	17.1	9003129	33.5	18.8	0.050	9003129
Dissolved Magnesium (Mg)	mg/L	4.65	9003129	5.49	9003129	10.1	6.40	0.050	9003129
Dissolved Potassium (K)	mg/L	0.987	9003129	1.04	9003129	1.96	1.20	0.050	9003129
Dissolved Sodium (Na)	mg/L	2.26	9003129	1.43	9003129	3.04	2.66	0.050	9003129
Dissolved Sulphur (S)	mg/L	7.9	9003129	8.4	9003129	20.3	11.1	3.0	9003129
RDL = Reportable Detection Limit									

Maxxam Job #: B840685
Report Date: 2018/06/07

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TM9223	TM9224	TM9225		TM9226		
Sampling Date		2018/05/24 15:00	2018/05/24 15:30	2018/05/24 16:15		2018/05/25 10:30		
COC Number		553733-01-01	553733-01-01	553733-01-01		553733-01-01		
	UNITS	HC-2.5	HC-5.0	YT-24	QC Batch	YT-24 MIX	RDL	QC Batch
Calculated Parameters								
Dissolved Hardness (CaCO3)	mg/L	35.2	80.0	137	9003126	86.1	0.50	9003126
Elements								
Dissolved Mercury (Hg)	ug/L	0.0111	0.0052	0.0057	9008763	0.0023	0.0020	9008924
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	ug/L	390	109	74.2	9005408	46.9	0.50	9005408
Dissolved Antimony (Sb)	ug/L	0.156	0.186	0.219	9005408	0.148	0.020	9005408
Dissolved Arsenic (As)	ug/L	1.20	0.910	0.608	9005408	0.523	0.020	9005408
Dissolved Barium (Ba)	ug/L	23.1	33.3	58.9	9005408	43.5	0.020	9005408
Dissolved Beryllium (Be)	ug/L	0.044	0.021	0.017	9005408	<0.010	0.010	9005408
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	9005408	<0.0050	0.0050	9005408
Dissolved Boron (B)	ug/L	<10	<10	<10	9005408	<10	10	9005408
Dissolved Cadmium (Cd)	ug/L	0.0124	<0.0050	0.0096	9005408	0.0945	0.0050	9005408
Dissolved Chromium (Cr)	ug/L	0.77	0.40	0.41	9005408	0.14	0.10	9005408
Dissolved Cobalt (Co)	ug/L	0.212	0.101	0.140	9005408	0.0444	0.0050	9005408
Dissolved Copper (Cu)	ug/L	2.43	1.93	2.11	9005408	2.41	0.050	9005408
Dissolved Iron (Fe)	ug/L	324	121	68.0	9005408	80.0	1.0	9005408
Dissolved Lead (Pb)	ug/L	0.0294	0.0100	0.0084	9005408	0.0539	0.0050	9005408
Dissolved Lithium (Li)	ug/L	0.65	0.83	<0.50	9005408	1.43	0.50	9005408
Dissolved Manganese (Mn)	ug/L	15.6	3.93	8.24	9005408	6.64	0.050	9005408
Dissolved Molybdenum (Mo)	ug/L	0.359	0.668	0.411	9005408	1.01	0.050	9005408
Dissolved Nickel (Ni)	ug/L	1.40	0.881	0.969	9005408	2.84	0.020	9005408
Dissolved Phosphorus (P)	ug/L	14.4	12.4	12.6	9005408	29.7	2.0	9005408
Dissolved Selenium (Se)	ug/L	0.055	0.056	0.073	9005408	0.311	0.040	9005408
Dissolved Silicon (Si)	ug/L	2700	3260	3250	9005408	2790	50	9005408
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	9005408	<0.0050	0.0050	9005408
Dissolved Strontium (Sr)	ug/L	110	203	210	9005408	115	0.050	9005408
Dissolved Thallium (Tl)	ug/L	0.0047	0.0021	0.0025	9005408	0.0042	0.0020	9005408
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	<0.20	9005408	<0.20	0.20	9005408
Dissolved Titanium (Ti)	ug/L	3.99	1.73	1.14	9005408	0.93	0.50	9005408
Dissolved Uranium (U)	ug/L	7.44	12.0	4.41	9005408	0.846	0.0020	9005408
Dissolved Vanadium (V)	ug/L	0.88	0.56	0.38	9005408	0.48	0.20	9005408
Dissolved Zinc (Zn)	ug/L	1.17	0.34	0.33	9005408	5.05	0.10	9005408
RDL = Reportable Detection Limit								

Maxxam Job #: B840685
Report Date: 2018/06/07

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TM9223	TM9224	TM9225		TM9226		
Sampling Date		2018/05/24 15:00	2018/05/24 15:30	2018/05/24 16:15		2018/05/25 10:30		
COC Number		553733-01-01	553733-01-01	553733-01-01		553733-01-01		
	UNITS	HC-2.5	HC-5.0	YT-24	QC Batch	YT-24 MIX	RDL	QC Batch
Dissolved Zirconium (Zr)	ug/L	0.90	0.54	0.63	9005408	0.15	0.10	9005408
Dissolved Calcium (Ca)	mg/L	9.76	20.7	36.4	9003129	23.7	0.050	9003129
Dissolved Magnesium (Mg)	mg/L	2.63	6.86	11.3	9003129	6.54	0.050	9003129
Dissolved Potassium (K)	mg/L	1.03	1.63	1.98	9003129	0.957	0.050	9003129
Dissolved Sodium (Na)	mg/L	1.07	2.33	3.35	9003129	1.88	0.050	9003129
Dissolved Sulphur (S)	mg/L	<3.0	8.9	27.6	9003129	9.1	3.0	9003129
RDL = Reportable Detection Limit								

Maxxam Job #: B840685
Report Date: 2018/06/07

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TM9227	TM9228	TM9229		
Sampling Date		2018/05/25 09:30	2018/05/25 12:00	2018/05/24 11:45		
COC Number		553733-01-01	553733-01-01	553733-02-01		
	UNITS	COFFEE MIX	HALFWAY MIX	LATTE MIX	RDL	QC Batch
Calculated Parameters						
Dissolved Hardness (CaCO3)	mg/L	78.4	83.9	63.6	0.50	9003126
Elements						
Dissolved Mercury (Hg)	ug/L	0.0038	0.0027	0.0061	0.0020	9008763
Dissolved Metals by ICPMS						
Dissolved Aluminum (Al)	ug/L	82.5	56.0	144	0.50	9005408
Dissolved Antimony (Sb)	ug/L	0.137	0.127	0.092	0.020	9005408
Dissolved Arsenic (As)	ug/L	0.556	0.556	0.437	0.020	9005408
Dissolved Barium (Ba)	ug/L	39.6	39.7	35.4	0.020	9005408
Dissolved Beryllium (Be)	ug/L	0.016	<0.010	0.014	0.010	9005408
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	0.0050	9005408
Dissolved Boron (B)	ug/L	<10	<10	<10	10	9005408
Dissolved Cadmium (Cd)	ug/L	0.0699	0.0668	0.0128	0.0050	9005408
Dissolved Chromium (Cr)	ug/L	0.22	0.13	0.31	0.10	9005408
Dissolved Cobalt (Co)	ug/L	0.0662	0.0509	0.102	0.0050	9005408
Dissolved Copper (Cu)	ug/L	2.47	2.29	2.23	0.050	9005408
Dissolved Iron (Fe)	ug/L	111	84.0	136	1.0	9005408
Dissolved Lead (Pb)	ug/L	0.0535	0.0509	0.0069	0.0050	9005408
Dissolved Lithium (Li)	ug/L	1.27	1.40	0.75	0.50	9005408
Dissolved Manganese (Mn)	ug/L	4.81	4.37	15.2	0.050	9005408
Dissolved Molybdenum (Mo)	ug/L	0.881	0.991	0.664	0.050	9005408
Dissolved Nickel (Ni)	ug/L	2.60	2.67	1.17	0.020	9005408
Dissolved Phosphorus (P)	ug/L	28.3	32.2	10.9	2.0	9005408
Dissolved Selenium (Se)	ug/L	0.284	0.321	0.071	0.040	9005408
Dissolved Silicon (Si)	ug/L	2830	2750	2940	50	9005408
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	0.0050	9005408
Dissolved Strontium (Sr)	ug/L	102	111	91.2	0.050	9005408
Dissolved Thallium (Tl)	ug/L	0.0036	0.0038	0.0043	0.0020	9005408
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	<0.20	0.20	9005408
Dissolved Titanium (Ti)	ug/L	1.36	0.75	1.42	0.50	9005408
Dissolved Uranium (U)	ug/L	1.14	1.12	4.39	0.0020	9005408
Dissolved Vanadium (V)	ug/L	0.53	0.49	0.52	0.20	9005408
Dissolved Zinc (Zn)	ug/L	3.26	3.14	0.52	0.10	9005408
RDL = Reportable Detection Limit						

Maxxam Job #: B840685
Report Date: 2018/06/07

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TM9227	TM9228	TM9229		
Sampling Date		2018/05/25 09:30	2018/05/25 12:00	2018/05/24 11:45		
COC Number		553733-01-01	553733-01-01	553733-02-01		
	UNITS	COFFEE MIX	HALFWAY MIX	LATTE MIX	RDL	QC Batch
Dissolved Zirconium (Zr)	ug/L	0.19	0.17	0.38	0.10	9005408
Dissolved Calcium (Ca)	mg/L	21.5	23.0	16.5	0.050	9003129
Dissolved Magnesium (Mg)	mg/L	6.01	6.42	5.45	0.050	9003129
Dissolved Potassium (K)	mg/L	0.935	0.933	1.13	0.050	9003129
Dissolved Sodium (Na)	mg/L	1.77	1.82	2.45	0.050	9003129
Dissolved Sulphur (S)	mg/L	6.7	7.0	9.1	3.0	9003129
RDL = Reportable Detection Limit						

Maxxam Job #: B840685
Report Date: 2018/06/07

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TM9219	TM9220	TM9221	TM9222	TM9223	TM9224		
Sampling Date		2018/05/24 12:00	2018/05/24 14:00	2018/05/24 13:00	2018/05/24 11:00	2018/05/24 15:00	2018/05/24 15:30		
COC Number		553733-01-01	553733-01-01	553733-01-01	553733-01-01	553733-01-01	553733-01-01		
	UNITS	CC-0.5	CC-1.5	CC-3.5	CC-4.5	HC-2.5	HC-5.0	RDL	QC Batch
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	51.2	60.3	125	72.1	39.0	81.8	0.50	9003125
Elements									
Total Mercury (Hg)	ug/L	0.0060	0.0113	0.0046	0.0049	0.0095	0.0044	0.0020	9008805
Total Metals by ICPMS									
Total Aluminum (Al)	ug/L	190	378	105	142	655	136	3.0	9004235
Total Antimony (Sb)	ug/L	0.102	0.103	0.093	0.090	0.169	0.183	0.020	9004235
Total Arsenic (As)	ug/L	0.494	0.634	0.465	0.456	1.79	1.01	0.020	9004235
Total Barium (Ba)	ug/L	33.3	25.9	44.7	41.4	28.8	34.9	0.050	9004235
Total Beryllium (Be)	ug/L	0.018	0.045	0.016	0.016	0.057	0.024	0.010	9004235
Total Bismuth (Bi)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	9004235
Total Boron (B)	ug/L	<10	<10	<10	<10	<10	<10	10	9004235
Total Cadmium (Cd)	ug/L	0.0177	0.0153	0.0066	0.0152	0.0248	0.0091	0.0050	9004235
Total Chromium (Cr)	ug/L	0.36	0.56	0.29	0.28	1.12	0.42	0.10	9004235
Total Cobalt (Co)	ug/L	0.167	0.151	0.107	0.116	0.523	0.139	0.010	9004235
Total Copper (Cu)	ug/L	2.10	2.26	1.57	2.05	2.79	1.75	0.10	9004235
Total Iron (Fe)	ug/L	213	328	104	151	645	158	5.0	9004235
Total Lead (Pb)	ug/L	0.046	0.079	<0.020	0.022	0.189	0.030	0.020	9004235
Total Lithium (Li)	ug/L	0.81	1.10	0.79	0.75	0.92	0.92	0.50	9004235
Total Manganese (Mn)	ug/L	31.1	18.6	21.0	20.6	65.1	12.5	0.10	9004235
Total Molybdenum (Mo)	ug/L	0.630	0.083	0.218	0.604	0.365	0.612	0.050	9004235
Total Nickel (Ni)	ug/L	1.12	1.16	0.74	1.05	1.65	0.97	0.10	9004235
Total Phosphorus (P)	ug/L	17.7	18.8	13.0	12.5	32.5	17.2	5.0	9004235
Total Selenium (Se)	ug/L	0.064	0.060	0.074	0.079	0.071	0.065	0.040	9004235
Total Silicon (Si)	ug/L	2930	2860	3340	3250	3220	3480	50	9004235
Total Silver (Ag)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	9004235
Total Strontium (Sr)	ug/L	66.2	130	251	99.8	115	203	0.050	9004235
Total Thallium (Tl)	ug/L	0.0053	0.0035	0.0028	0.0046	0.0065	0.0039	0.0020	9004235
Total Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	9004235
Total Titanium (Ti)	ug/L	4.0	6.1	<2.0	<2.0	12.6	2.3	2.0	9004235
Total Uranium (U)	ug/L	3.80	4.18	11.8	4.34	9.54	13.4	0.0050	9004235
Total Vanadium (V)	ug/L	0.60	0.70	0.41	0.47	1.42	0.56	0.20	9004235
RDL = Reportable Detection Limit									

Maxxam Job #: B840685
Report Date: 2018/06/07

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TM9219	TM9220	TM9221	TM9222	TM9223	TM9224		
Sampling Date		2018/05/24 12:00	2018/05/24 14:00	2018/05/24 13:00	2018/05/24 11:00	2018/05/24 15:00	2018/05/24 15:30		
COC Number		553733-01-01	553733-01-01	553733-01-01	553733-01-01	553733-01-01	553733-01-01		
	UNITS	CC-0.5	CC-1.5	CC-3.5	CC-4.5	HC-2.5	HC-5.0	RDL	QC Batch
Total Zinc (Zn)	ug/L	1.0	1.7	<1.0	<1.0	2.6	<1.0	1.0	9004235
Total Zirconium (Zr)	ug/L	0.29	0.56	0.44	0.29	0.85	0.43	0.10	9004235
Total Calcium (Ca)	mg/L	13.0	16.0	33.2	18.8	10.8	21.4	0.25	9003132
Total Magnesium (Mg)	mg/L	4.52	4.95	10.3	6.13	2.90	6.87	0.25	9003132
Total Potassium (K)	mg/L	0.94	0.96	1.94	1.16	1.07	1.64	0.25	9003132
Total Sodium (Na)	mg/L	2.19	1.40	3.09	2.63	1.18	2.37	0.25	9003132
Total Sulphur (S)	mg/L	7.6	7.8	20.4	11.1	<3.0	9.6	3.0	9003132
RDL = Reportable Detection Limit									

Maxxam Job #: B840685
Report Date: 2018/06/07

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TM9225	TM9226	TM9227	TM9228			TM9228		
Sampling Date		2018/05/24 16:15	2018/05/25 10:30	2018/05/25 09:30	2018/05/25 12:00			2018/05/25 12:00		
COC Number		553733-01-01	553733-01-01	553733-01-01	553733-01-01			553733-01-01		
	UNITS	YT-24	YT-24 MIX	COFFEE MIX	HALFWAY MIX	RDL	QC Batch	HALFWAY MIX Lab-Dup	RDL	QC Batch

Calculated Parameters										
Total Hardness (CaCO3)	mg/L	138	86.5	81.1	87.8	0.50	9003125			

Elements										
Total Mercury (Hg)	ug/L	0.0061	0.0031	0.0038	0.0031	0.0020	9008805			

Total Metals by ICPMS										
Total Aluminum (Al)	ug/L	401	780	1010	1240	3.0	9004235	1240	3.0	9004235
Total Antimony (Sb)	ug/L	0.230	0.211	0.213	0.269	0.020	9004235	0.259	0.020	9004235
Total Arsenic (As)	ug/L	0.953	1.45	1.59	1.88	0.020	9004235	1.85	0.020	9004235
Total Barium (Ba)	ug/L	65.7	88.2	89.0	102	0.050	9004235	97.7	0.050	9004235
Total Beryllium (Be)	ug/L	0.042	0.067	0.076	0.079	0.010	9004235	0.074	0.010	9004235
Total Bismuth (Bi)	ug/L	<0.010	0.018	0.020	0.023	0.010	9004235	0.023	0.010	9004235
Total Boron (B)	ug/L	<10	<10	<10	<10	10	9004235	<10	10	9004235
Total Cadmium (Cd)	ug/L	0.0173	0.331	0.304	0.355	0.0050	9004235	0.344	0.0050	9004235
Total Chromium (Cr)	ug/L	1.05	1.22	1.63	2.21	0.10	9004235	2.15	0.10	9004235
Total Cobalt (Co)	ug/L	0.399	0.862	1.00	1.20	0.010	9004235	1.16	0.010	9004235
Total Copper (Cu)	ug/L	2.71	4.75	4.91	5.52	0.10	9004235	5.20	0.10	9004235
Total Iron (Fe)	ug/L	552	1390	1780	2330	5.0	9004235	2260	5.0	9004235
Total Lead (Pb)	ug/L	0.285	1.15	1.13	1.38	0.020	9004235	1.34	0.020	9004235
Total Lithium (Li)	ug/L	0.71	2.17	2.23	2.73	0.50	9004235	2.65	0.50	9004235
Total Manganese (Mn)	ug/L	26.2	86.8	88.4	102	0.10	9004235	97.8	0.10	9004235
Total Molybdenum (Mo)	ug/L	0.388	0.947	0.909	1.03	0.050	9004235	1.00	0.050	9004235
Total Nickel (Ni)	ug/L	1.39	5.87	6.05	7.27	0.10	9004235	7.09	0.10	9004235
Total Phosphorus (P)	ug/L	37.2	154	133	114	5.0	9004235	107	5.0	9004235
Total Selenium (Se)	ug/L	0.073	0.352	0.336	0.409	0.040	9004235	0.437	0.040	9004235
Total Silicon (Si)	ug/L	3710	3870	4130	4760	50	9004235	4620	50	9004235
Total Silver (Ag)	ug/L	<0.010	0.019	0.020	0.022	0.010	9004235	0.025	0.010	9004235
Total Strontium (Sr)	ug/L	203	113	103	113	0.050	9004235	111	0.050	9004235
Total Thallium (Tl)	ug/L	0.0073	0.0149	0.0184	0.0244	0.0020	9004235	0.0223	0.0020	9004235
Total Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	9004235	<0.20	0.20	9004235
Total Titanium (Ti)	ug/L	18.5	17.4	24.4	37.8	2.0	9004235	45.0	2.0	9004235
Total Uranium (U)	ug/L	4.99	1.17	1.34	1.34	0.0050	9004235	1.30	0.0050	9004235

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Maxxam Job #: B840685
Report Date: 2018/06/07

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TM9225	TM9226	TM9227	TM9228			TM9228		
Sampling Date		2018/05/24 16:15	2018/05/25 10:30	2018/05/25 09:30	2018/05/25 12:00			2018/05/25 12:00		
COC Number		553733-01-01	553733-01-01	553733-01-01	553733-01-01			553733-01-01		
	UNITS	YT-24	YT-24 MIX	COFFEE MIX	HALFWAY MIX	RDL	QC Batch	HALFWAY MIX Lab-Dup	RDL	QC Batch
Total Vanadium (V)	ug/L	1.26	3.07	3.65	4.61	0.20	9004235	4.44	0.20	9004235
Total Zinc (Zn)	ug/L	2.2	28.0	26.4	31.8	1.0	9004235	30.2	1.0	9004235
Total Zirconium (Zr)	ug/L	0.52	0.57	0.55	0.46	0.10	9004235	0.41	0.10	9004235
Total Calcium (Ca)	mg/L	36.2	23.2	21.9	23.5	0.25	9003132			
Total Magnesium (Mg)	mg/L	11.4	6.94	6.42	7.05	0.25	9003132			
Total Potassium (K)	mg/L	1.95	1.08	1.09	1.14	0.25	9003132			
Total Sodium (Na)	mg/L	3.40	1.88	1.85	1.79	0.25	9003132			
Total Sulphur (S)	mg/L	27.5	7.1	6.8	6.8	3.0	9003132			

RDL = Reportable Detection Limit

Lab-Dup = Laboratory Initiated Duplicate

Maxxam Job #: B840685
 Report Date: 2018/06/07

LORAX ENVIRONMENTAL SERVICES LTD.
 Client Project #: Gold Corp Coffee Creek-SW
 Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TM9229		
Sampling Date		2018/05/24 11:45		
COC Number		553733-02-01		
	UNITS	LATTE MIX	RDL	QC Batch
Calculated Parameters				
Total Hardness (CaCO3)	mg/L	59.8	0.50	9003125
Elements				
Total Mercury (Hg)	ug/L	0.0055	0.0020	9008805
Total Metals by ICPMS				
Total Aluminum (Al)	ug/L	168	3.0	9004235
Total Antimony (Sb)	ug/L	0.081	0.020	9004235
Total Arsenic (As)	ug/L	0.469	0.020	9004235
Total Barium (Ba)	ug/L	34.7	0.050	9004235
Total Beryllium (Be)	ug/L	0.011	0.010	9004235
Total Bismuth (Bi)	ug/L	<0.010	0.010	9004235
Total Boron (B)	ug/L	<10	10	9004235
Total Cadmium (Cd)	ug/L	0.0162	0.0050	9004235
Total Chromium (Cr)	ug/L	0.28	0.10	9004235
Total Cobalt (Co)	ug/L	0.154	0.010	9004235
Total Copper (Cu)	ug/L	2.03	0.10	9004235
Total Iron (Fe)	ug/L	177	5.0	9004235
Total Lead (Pb)	ug/L	0.031	0.020	9004235
Total Lithium (Li)	ug/L	0.77	0.50	9004235
Total Manganese (Mn)	ug/L	28.4	0.10	9004235
Total Molybdenum (Mo)	ug/L	0.635	0.050	9004235
Total Nickel (Ni)	ug/L	1.07	0.10	9004235
Total Phosphorus (P)	ug/L	14.0	5.0	9004235
Total Selenium (Se)	ug/L	0.061	0.040	9004235
Total Silicon (Si)	ug/L	2970	50	9004235
Total Silver (Ag)	ug/L	<0.010	0.010	9004235
Total Strontium (Sr)	ug/L	86.4	0.050	9004235
Total Thallium (Tl)	ug/L	0.0052	0.0020	9004235
Total Tin (Sn)	ug/L	<0.20	0.20	9004235
Total Titanium (Ti)	ug/L	2.2	2.0	9004235
Total Uranium (U)	ug/L	4.66	0.0050	9004235
Total Vanadium (V)	ug/L	0.52	0.20	9004235
RDL = Reportable Detection Limit				

Maxxam Job #: B840685
Report Date: 2018/06/07

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TM9229		
Sampling Date		2018/05/24 11:45		
COC Number		553733-02-01		
	UNITS	LATTE MIX	RDL	QC Batch
Total Zinc (Zn)	ug/L	1.0	1.0	9004235
Total Zirconium (Zr)	ug/L	0.34	0.10	9004235
Total Calcium (Ca)	mg/L	15.4	0.25	9003132
Total Magnesium (Mg)	mg/L	5.15	0.25	9003132
Total Potassium (K)	mg/L	1.05	0.25	9003132
Total Sodium (Na)	mg/L	2.31	0.25	9003132
Total Sulphur (S)	mg/L	8.6	3.0	9003132
RDL = Reportable Detection Limit				

Maxxam Job #: B840685
Report Date: 2018/06/07

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

GENERAL COMMENTS

Sample TM9219 [CC-0.5] : Sample received past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample received past method specified hold time for Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample TM9220 [CC-1.5] : Sample received past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample received past method specified hold time for Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample TM9221 [CC-3.5] : Sample received past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample received past method specified hold time for Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample TM9222 [CC-4.5] : Sample received past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample received past method specified hold time for Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample TM9223 [HC-2.5] : Sample received past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample received past method specified hold time for Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample TM9224 [HC-5.0] : Sample received past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample received past method specified hold time for Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample TM9225 [YT-24] : Sample received past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample received past method specified hold time for Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample TM9226 [YT-24 MIX] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample TM9227 [COFFEE MIX] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample TM9228 [HALFWAY MIX] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample TM9229 [LATTE MIX] : Sample received past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample received past method specified hold time for Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Results relate only to the items tested.

Maxxam Job #: B840685
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LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

Maxxam Job #: B840685
Report Date: 2018/06/07

QUALITY ASSURANCE REPORT

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9004235	Total Aluminum (Al)	2018/05/30	NC	80 - 120	105	80 - 120	<3.0	ug/L	0.66	20
9004235	Total Antimony (Sb)	2018/05/30	107	80 - 120	104	80 - 120	<0.020	ug/L	3.6	20
9004235	Total Arsenic (As)	2018/05/30	111	80 - 120	105	80 - 120	<0.020	ug/L	1.4	20
9004235	Total Barium (Ba)	2018/05/30	NC	80 - 120	103	80 - 120	<0.050	ug/L	4.7	20
9004235	Total Beryllium (Be)	2018/05/30	114	80 - 120	107	80 - 120	<0.010	ug/L	7.3	20
9004235	Total Bismuth (Bi)	2018/05/30	106	80 - 120	104	80 - 120	<0.010	ug/L	2.2	20
9004235	Total Boron (B)	2018/05/30	112	80 - 120	105	80 - 120	<10	ug/L	NC	20
9004235	Total Cadmium (Cd)	2018/05/30	110	80 - 120	104	80 - 120	<0.0050	ug/L	3.0	20
9004235	Total Chromium (Cr)	2018/05/30	110	80 - 120	102	80 - 120	<0.10	ug/L	2.7	20
9004235	Total Cobalt (Co)	2018/05/30	106	80 - 120	101	80 - 120	<0.010	ug/L	3.5	20
9004235	Total Copper (Cu)	2018/05/30	104	80 - 120	98	80 - 120	<0.10	ug/L	5.9	20
9004235	Total Iron (Fe)	2018/05/30	NC	80 - 120	106	80 - 120	<5.0	ug/L	3.3	20
9004235	Total Lead (Pb)	2018/05/30	108	80 - 120	103	80 - 120	<0.020	ug/L	3.2	20
9004235	Total Lithium (Li)	2018/05/30	119	80 - 120	109	80 - 120	<0.50	ug/L	3.0	20
9004235	Total Manganese (Mn)	2018/05/30	NC	80 - 120	102	80 - 120	<0.10	ug/L	4.2	20
9004235	Total Molybdenum (Mo)	2018/05/30	117	80 - 120	107	80 - 120	<0.050	ug/L	2.5	20
9004235	Total Nickel (Ni)	2018/05/30	108	80 - 120	101	80 - 120	<0.10	ug/L	2.5	20
9004235	Total Phosphorus (P)	2018/05/30	110	80 - 120	102	80 - 120	<5.0	ug/L	5.8	20
9004235	Total Selenium (Se)	2018/05/30	112	80 - 120	103	80 - 120	<0.040	ug/L	6.8	20
9004235	Total Silicon (Si)	2018/05/30	92	80 - 120	110	80 - 120	<50	ug/L	2.9	20
9004235	Total Silver (Ag)	2018/05/30	109	80 - 120	103	80 - 120	<0.010	ug/L	9.8	20
9004235	Total Strontium (Sr)	2018/05/30	NC	80 - 120	104	80 - 120	<0.050	ug/L	1.6	20
9004235	Total Thallium (Tl)	2018/05/30	108	80 - 120	105	80 - 120	<0.0020	ug/L	9.0	20
9004235	Total Tin (Sn)	2018/05/30	108	80 - 120	104	80 - 120	<0.20	ug/L	NC	20
9004235	Total Titanium (Ti)	2018/05/30	93	80 - 120	103	80 - 120	<2.0	ug/L	18	20
9004235	Total Uranium (U)	2018/05/30	114	80 - 120	108	80 - 120	<0.0050	ug/L	2.6	20
9004235	Total Vanadium (V)	2018/05/30	115	80 - 120	103	80 - 120	<0.20	ug/L	3.8	20
9004235	Total Zinc (Zn)	2018/05/30	106	80 - 120	103	80 - 120	<1.0	ug/L	4.9	20
9004235	Total Zirconium (Zr)	2018/05/30	107	80 - 120	102	80 - 120	<0.10	ug/L	11	20
9004431	Dissolved Mercury (Hg)	2018/05/29	91	80 - 120	97	80 - 120	<0.0020	ug/L	NC	20
9004719	ORP	2018/05/29							0.17	20

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QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9005054	Total Ammonia (N)	2018/05/29	85	80 - 120	92	80 - 120	<0.0050	mg/L	0	20
9005079	pH	2018/05/29			101	97 - 103				
9005089	Alkalinity (PP as CaCO3)	2018/05/29					<0.50	mg/L		
9005089	Alkalinity (Total as CaCO3)	2018/05/29	NC	80 - 120	98	80 - 120	<0.50	mg/L		
9005089	Bicarbonate (HCO3)	2018/05/29					<0.50	mg/L		
9005089	Carbonate (CO3)	2018/05/29					<0.50	mg/L		
9005089	Hydroxide (OH)	2018/05/29					<0.50	mg/L		
9005090	Conductivity	2018/05/29			100	80 - 120	<1.0	uS/cm		
9005100	pH	2018/05/29			101	97 - 103			0.48	20
9005107	Alkalinity (PP as CaCO3)	2018/05/29					<0.50	mg/L		
9005107	Alkalinity (Total as CaCO3)	2018/05/29	NC	80 - 120	102	80 - 120	0.65, RDL=0.50	mg/L		
9005107	Bicarbonate (HCO3)	2018/05/29					0.79, RDL=0.50	mg/L		
9005107	Carbonate (CO3)	2018/05/29					<0.50	mg/L		
9005107	Hydroxide (OH)	2018/05/29					<0.50	mg/L		
9005108	Conductivity	2018/05/29			101	80 - 120	<1.0	uS/cm		
9005113	pH	2018/05/30			101	97 - 103			0.25	20
9005126	Alkalinity (PP as CaCO3)	2018/05/30					<0.50	mg/L		
9005126	Alkalinity (Total as CaCO3)	2018/05/30	NC	80 - 120	96	80 - 120	0.83, RDL=0.50	mg/L		
9005126	Bicarbonate (HCO3)	2018/05/30					1.01, RDL=0.50	mg/L		
9005126	Carbonate (CO3)	2018/05/30					<0.50	mg/L		
9005126	Hydroxide (OH)	2018/05/30					<0.50	mg/L		
9005127	Conductivity	2018/05/30			101	80 - 120	<1.0	uS/cm		
9005398	Nitrate plus Nitrite (N)	2018/05/29	118	80 - 120	108	80 - 120	<0.0020	mg/L	0.36	25
9005399	Nitrite (N)	2018/05/29	116	80 - 120	104	80 - 120	<0.0020	mg/L	21	25
9005400	Nitrate plus Nitrite (N)	2018/05/29	117	80 - 120	107	80 - 120	<0.0020	mg/L	0.29	25
9005402	Nitrite (N)	2018/05/29	117	80 - 120	101	80 - 120	<0.0020	mg/L	NC	25
9005408	Dissolved Aluminum (Al)	2018/05/31	103	80 - 120	104	80 - 120	<0.50	ug/L	2.1	20
9005408	Dissolved Antimony (Sb)	2018/05/31	101	80 - 120	101	80 - 120	<0.020	ug/L	2.5	20
9005408	Dissolved Arsenic (As)	2018/05/31	102	80 - 120	102	80 - 120	<0.020	ug/L	2.7	20
9005408	Dissolved Barium (Ba)	2018/05/31	96	80 - 120	100	80 - 120	<0.020	ug/L	3.0	20
9005408	Dissolved Beryllium (Be)	2018/05/31	102	80 - 120	106	80 - 120	<0.010	ug/L	NC	20

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QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9005408	Dissolved Bismuth (Bi)	2018/05/31	96	80 - 120	100	80 - 120	<0.0050	ug/L	NC	20
9005408	Dissolved Boron (B)	2018/05/31	NC	80 - 120	104	80 - 120	<10	ug/L	3.6	20
9005408	Dissolved Cadmium (Cd)	2018/05/31	101	80 - 120	105	80 - 120	<0.0050	ug/L	7.2	20
9005408	Dissolved Chromium (Cr)	2018/05/31	104	80 - 120	105	80 - 120	<0.10	ug/L	NC	20
9005408	Dissolved Cobalt (Co)	2018/05/31	99	80 - 120	103	80 - 120	<0.0050	ug/L	12	20
9005408	Dissolved Copper (Cu)	2018/05/31	94	80 - 120	102	80 - 120	<0.050	ug/L	0.053	20
9005408	Dissolved Iron (Fe)	2018/05/31	102	80 - 120	106	80 - 120	<1.0	ug/L	1.1	20
9005408	Dissolved Lead (Pb)	2018/05/31	98	80 - 120	102	80 - 120	<0.0050	ug/L	NC	20
9005408	Dissolved Lithium (Li)	2018/05/31	101	80 - 120	106	80 - 120	<0.50	ug/L	1.5	20
9005408	Dissolved Manganese (Mn)	2018/05/31	101	80 - 120	104	80 - 120	<0.050	ug/L	7.7	20
9005408	Dissolved Molybdenum (Mo)	2018/05/31	111	80 - 120	109	80 - 120	<0.050	ug/L	6.2	20
9005408	Dissolved Nickel (Ni)	2018/05/31	100	80 - 120	106	80 - 120	<0.020	ug/L	7.6	20
9005408	Dissolved Phosphorus (P)	2018/05/31	99	80 - 120	97	80 - 120	<2.0	ug/L	NC	20
9005408	Dissolved Selenium (Se)	2018/05/31	99	80 - 120	100	80 - 120	<0.040	ug/L	4.0	20
9005408	Dissolved Silicon (Si)	2018/05/31	NC	80 - 120	105	80 - 120	<50	ug/L	2.7	20
9005408	Dissolved Silver (Ag)	2018/05/31	102	80 - 120	105	80 - 120	<0.0050	ug/L	NC	20
9005408	Dissolved Strontium (Sr)	2018/05/31	NC	80 - 120	107	80 - 120	<0.050	ug/L	3.6	20
9005408	Dissolved Thallium (Tl)	2018/05/31	99	80 - 120	102	80 - 120	<0.0020	ug/L	NC	20
9005408	Dissolved Tin (Sn)	2018/05/31	102	80 - 120	103	80 - 120	<0.20	ug/L	NC	20
9005408	Dissolved Titanium (Ti)	2018/05/31	104	80 - 120	105	80 - 120	<0.50	ug/L	NC	20
9005408	Dissolved Uranium (U)	2018/05/31	105	80 - 120	102	80 - 120	<0.0020	ug/L	12	20
9005408	Dissolved Vanadium (V)	2018/05/31	105	80 - 120	104	80 - 120	<0.20	ug/L	5.9	20
9005408	Dissolved Zinc (Zn)	2018/05/31	96	80 - 120	103	80 - 120	<0.10	ug/L	0.25	20
9005408	Dissolved Zirconium (Zr)	2018/05/31	106	80 - 120	104	80 - 120	<0.10	ug/L	NC	20
9005558	Fluoride (F)	2018/05/29	103	80 - 120	100	80 - 120	<0.010	mg/L	0	20
9006007	Total Dissolved Solids	2018/05/31	101	80 - 120	103	80 - 120	<10	mg/L	1.6	20
9006318	Total Organic Carbon (C)	2018/05/30	105	80 - 120	107	80 - 120	<0.50	mg/L	5.8	20
9006319	Dissolved Organic Carbon (C)	2018/05/30	NC	80 - 120	107	80 - 120	<0.50	mg/L	9.4	20
9006331	Total Suspended Solids	2018/05/31			96	80 - 120	<1.0	mg/L		
9006396	Dissolved Organic Carbon (C)	2018/05/30	97	80 - 120	102	80 - 120	<0.50	mg/L	0.84	20
9006398	Total Organic Carbon (C)	2018/05/30	114	80 - 120	102	80 - 120	<0.50	mg/L	NC	20

Maxxam Job #: B840685
Report Date: 2018/06/07

QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9006987	Total Dissolved Solids	2018/06/01	NC	80 - 120	94	80 - 120	<10	mg/L	0.31	20
9007449	Total Suspended Solids	2018/06/01			97	80 - 120	<1.0	mg/L		
9007789	Dissolved Chloride (Cl)	2018/05/31	110	80 - 120	103	80 - 120	<0.50	mg/L	NC	20
9008763	Dissolved Mercury (Hg)	2018/06/01	95	80 - 120	101	80 - 120	<0.0020	ug/L	NC	20
9008805	Total Mercury (Hg)	2018/06/01	98	80 - 120	100	80 - 120	<0.0020	ug/L	NC	20
9008924	Dissolved Mercury (Hg)	2018/06/01	91	80 - 120	96	80 - 120	<0.0020	ug/L	NC	20
9009211	Dissolved Chloride (Cl)	2018/06/01	108	80 - 120	105	80 - 120	<0.50	mg/L	NC	20
9013838	Dissolved Sulphate (SO4)	2018/06/05			101	80 - 120	0.61, RDL=0.50	mg/L		
9017539	Dissolved Sulphate (SO4)	2018/06/07			106	80 - 120	<0.50	mg/L		

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

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

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

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

Maxxam Job #: B840685
Report Date: 2018/06/07

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Andy Lu, Ph.D., P.Chem., Scientific Specialist



Ghayasuddin Khan, M.Sc., P.Chem., QP, Scientific Specialist, Inorganics



Mandheraj Chana, Junior Project Manager



Rob Reinert, B.Sc., Scientific Specialist

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Maxxam Analytics International Corporation o/a Maxxam Analytics
 4606 Canada Way, Burnaby, British Columbia Canada V5G 1K5 Tel:(604) 734 7276 Toll-free:800-563-6266 Fax:(604) 731 2386 www.maxxam.ca

INVOICE TO:		Report Information		Project Information	
Company Name	#3604 LORAX ENVIRONMENTAL SERVICES LTD.	Company Name		Quotation #	B40231
Contact Name	Aida Piaseczny	Contact Name	David Flather	P.O. #	
Address	2289 BURRARD STREET VANCOUVER BC V6J 3H9	Address		Project #	Gold Corp Coffee Creek-SW
Phone	(604) 688-7173 Fax: (604) 688-7175	Phone		Project Name	
Email	aida.piaseczny@lorax.ca; shuking.ng@lorax.ca	Email	David.Flather@lorax.ca	Site #	
				Sampled By	



8840685_COC

Order #:
553733
Project Manager



C8553733-01-01

Diana Cruz

Regulatory Criteria		Special Instructions		Analysis Requested											Turnaround Time (TAT) Required	
				Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	Routine (Alk-L, EC-L, NH4-L, pH, TDS)	TSS-Low Level	Anions (L, Cl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	# of Bottles	Comments
<p>Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form</p> <p>Samples must be kept cool (< 10°C) from time of sampling until delivery to maxxam</p>																
1	CC-0.5	May 24	12:00	W	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	
2	CC-1.5	May 24	14:00	W	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	
3	CC-3.5	May 24	13:00	W	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	
4	CC-4.5	May 24	11:00	W	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	
5	HC-2.5	May 24	15:00	W	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	
6	HC-5.0	May 24	15:30	W	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	
7	YT-24	May 24	16:15	W	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	
8	YT-24 Mix	MAY 25	10:30	W	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	
9	Coffee Mix	MAY 25	09:30	W	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	
10	Halfway Mix	MAY 25	12:00	W	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	

Regular (Standard) TAT
 (will be applied if Rush TAT is not specified)
 Standard TAT = 5-7 Working days for most tests.
 Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
 Date Required: _____ Time Required: _____
 Rush Confirmation Number: _____ (call lab for #)

RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# Jars used and not submitted	Lab Use Only	
<i>Ken Nordin</i> KEN NORDIN	18/05/26	12:00	<i>Ken Nordin</i>	20/05/26	13:30	11	Time Sensitive <input checked="" type="checkbox"/>	Temperature (°C) on Receipt 7, 7, 6/6, 6, 10
<p>* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.</p> <p>* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.</p>							Custody Seal Intact on Cooler? <input type="checkbox"/> Yes <input type="checkbox"/> No	White Maxxam Yellow Client

0400



Maxxam Analytics International Corporation o/a Maxxam Analytics
 4806 Canada Way, Burnaby, British Columbia Canada V5G 1K5 Tel: (604) 734 7276 Toll-free: 800-563-6266 Fax: (604) 731 2386 www.maxxam.ca

INVOICE TO:		Report Information		Project Information	
Company Name	#3604 LORAX ENVIRONMENTAL SERVICES LTD.	Company Name		Quotation #	B40231
Contact Name	Aida Piaseczny	Contact Name	David Flather	P.O. #	
Address	2289 BURRARD STREET VANCOUVER BC V6J 3H9	Address		Project #	Gold Corp Coffee Creek-SW
Phone	(604) 688-7173 Fax: (604) 688-7175	Phone		Project Name	
Email	aida.piaseczny@lorax.ca; shukling.ng@lorax.ca	Email	David.Flather@lorax.ca	Site #	
				Sampled By	



B840685_COC

Order #:
53733
ct Manager



C#553733-02-01

Diana Cruz

Regulatory Criteria	Special Instructions	Analysis Requested												Turnaround Time (TAT) Required	
		Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	Routine (Alk-LI, EC-LI, NH4-LI, pH, TDS)	TSS-Low Level	Anions (LI, Cl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	Please provide advance notice for rush projects		
													Regular (Standard) TAT (will be applied if Rush TAT is not specified) Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.		
		Job Specific: Rush TAT (if applies to entire submission)												Date Required: _____ Time Required: _____	
		Rush Confirmation Number _____												Rush Confirmation Number _____ (call lab for #)	

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 10°C) from time of sampling until delivery to maxxam

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	Routine (Alk-LI, EC-LI, NH4-LI, pH, TDS)	TSS-Low Level	Anions (LI, Cl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	# of Bottles	Comments
SID#149899	Latte Mix	May 24	11:45	W	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	
SID#208906	Dup			W													(NO DUP THIS ROUND)

* RELINQUISHED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	# Jars used and not submitted	Lab Use Only		
KEN NORDIN		18/05/26	12:00	KEVIN KWAN		20180528	13:30	NH	Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
									<input type="checkbox"/>	7.7, 6.6, 6.14	<input type="checkbox"/> Yes <input type="checkbox"/> No
										10, 9, 8	White: Maxxam Yellow: Client

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.

IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

0408

Your Project #: GOLD CORP COFFEE CREEK-SW
 Site Location: COFFEE CREEK - SURFACE WATER
 Your C.O.C. #: 553731-01-01, 553731-02-01

Attention: David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
 2289 BURRARD STREET
 VANCOUVER, BC
 CANADA V6J 3H9

Report Date: 2018/06/14

Report #: R2572544

Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B844935

Received: 2018/06/06, 13:30

Sample Matrix: Water
 # Samples Received: 11

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Alkalinity - Low Level	4	N/A	2018/06/08	BBY6SOP-00026	SM 22 2320 B m
Alkalinity - Low Level	7	N/A	2018/06/09	BBY6SOP-00026	SM 22 2320 B m
Chloride - Low Level	11	N/A	2018/06/11	BBY6SOP-00011	SM 22 4500-Cl- E m
Carbon (DOC) - field filtered/preserved (2)	11	N/A	2018/06/08	BBY6SOP-00003	SM 22 5310 C m
Conductance - Low Level	4	N/A	2018/06/08	BBY6SOP-00026	SM 22 2510 B m
Conductance - Low Level	7	N/A	2018/06/09	BBY6SOP-00026	SM 22 2510 B m
Fluoride - Low Level	11	N/A	2018/06/12	BBY6SOP-00048	SM 22 4500-F C m
Hardness Total (calculated as CaCO3) (3)	11	N/A	2018/06/12	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3)	11	N/A	2018/06/11	BBY WI-00033	Auto Calc
Mercury (Dissolved) by CVAF	11	N/A	2018/06/08	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Total) by CVAF	11	2018/06/08	2018/06/08	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	11	N/A	2018/06/11	BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (dissolved)	11	N/A	2018/06/11	BBY7SOP-00002	EPA 6020b R2 m
Elements by ICPMS Digested LL (total)	10	2018/06/08	2018/06/11	BBY7SOP-00003,	EPA 6020b R2 m
Elements by ICPMS Digested LL (total)	1	2018/06/08	2018/06/12	BBY7SOP-00003,	EPA 6020b R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total)	11	N/A	2018/06/12	BBY WI-00033	Auto Calc
Ammonia-N Low Level (Preserved)	11	N/A	2018/06/08	BBY6SOP-00009	EPA 350.1 m
Nitrate+Nitrite (N) (low level)	11	N/A	2018/06/08	BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrite (N) (low level)	11	N/A	2018/06/08	BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrogen - Nitrate (as N) Low Level Calc	11	N/A	2018/06/13	BBY WI-00033	Auto Calc
ORP Analysis on Water by ARD LAB	11	N/A	2018/06/08	BBY0SOP-00004	SM 22 2580 B
Filter and HNO3 Preserve for Metals	11	N/A	2018/06/08	BBY7 WI-00004	BCMOE Reqs 08/14
pH Water (4)	4	N/A	2018/06/08	BBY6SOP-00026	SM 22 4500-H+ B m
pH Water (4)	7	N/A	2018/06/09	BBY6SOP-00026	SM 22 4500-H+ B m
Sulphate - Low Level	11	N/A	2018/06/11	BBY6SOP-00017	SM 22 4500-SO42- E m
Total Dissolved Solids (Filt. Residue)	3	2018/06/08	2018/06/11	BBY6SOP-00033	SM 22 2540 C m
Total Dissolved Solids (Filt. Residue)	8	2018/06/12	2018/06/13	BBY6SOP-00033	SM 22 2540 C m
Carbon (Total Organic) (5)	11	N/A	2018/06/08	BBY6SOP-00003	SM 22 5310 C m
Total Suspended Solids-Low Level	3	2018/06/11	2018/06/12	BBY6SOP-00034	SM 22 2540 D
Total Suspended Solids-Low Level	8	2018/06/12	2018/06/13	BBY6SOP-00034	SM 22 2540 D

Your Project #: GOLD CORP COFFEE CREEK-SW
 Site Location: COFFEE CREEK - SURFACE WATER
 Your C.O.C. #: 553731-01-01, 553731-02-01

Attention: David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
 2289 BURRARD STREET
 VANCOUVER, BC
 CANADA V6J 3H9

Report Date: 2018/06/14
 Report #: R2572544
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B844935

Received: 2018/06/06, 13:30

Sample Matrix: Water
 # Samples Received: 11

Analyses	Date		Laboratory Method	Analytical Method
	Quantity Extracted	Date Analyzed		
WAD Cyanide Water Subcontract (1)	11	2018/06/13	2018/06/13	

Remarks:

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Maxxam's profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Maxxam in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected.

Maxxam Analytics' liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Maxxam has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Maxxam, unless otherwise agreed in writing.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

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

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

- (1) This test was performed by Maxxam Ontario (From Burnaby)
- (2) DOC present in the sample should be considered as non-purgeable DOC.
- (3) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).
- (4) The BC-MOE and APHA Standard Method require pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the BC-MOE/APHA Standard Method holding time.
- (5) TOC present in the sample should be considered as non-purgeable TOC.

Your Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER
Your C.O.C. #: 553731-01-01, 553731-02-01

Attention: David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
2289 BURRARD STREET
VANCOUVER, BC
CANADA V6J 3H9

Report Date: 2018/06/14
Report #: R2572544
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B844935

Received: 2018/06/06, 13:30

Encryption Key



Diana Cruz
Junior Project Manager
14 Jun 2018 16:59:31

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Diana Cruz, Junior Project Manager

Email: DCruz@maxxam.ca

Phone# (604) 734 7276

=====
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Job #: B844935
Report Date: 2018/06/14

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TP1120		TP1121			TP1121		
Sampling Date		2018/06/05 11:15		2018/06/05 12:20			2018/06/05 12:20		
COC Number		553731-01-01		553731-01-01			553731-01-01		
	UNITS	CC-0.5	QC Batch	CC-1.5	RDL	QC Batch	CC-1.5 Lab-Dup	RDL	QC Batch
Parameter									
ORP	mV	247	9017919	251		9017919			
Subcontract Parameter	N/A	ATTACHED	9023543	ATTACHED	N/A	9023543			
Calculated Parameters									
Filter and HNO3 Preservation	N/A	LAB	9017700	LAB		9017700			
Nitrate (N)	mg/L	0.0623	9016674	0.121	0.0020	9016674			
Misc. Inorganics									
Fluoride (F)	mg/L	0.052	9022656	0.046	0.010	9022656			
Dissolved Organic Carbon (C)	mg/L	22.5	9018943	18.0	0.50	9018943			
Alkalinity (Total as CaCO3)	mg/L	14.0	9019088	32.1	0.50	9019088			
Total Organic Carbon (C)	mg/L	23.4	9018945	22.3	0.50	9018945			
Alkalinity (PP as CaCO3)	mg/L	<0.50	9019088	<0.50	0.50	9019088			
Bicarbonate (HCO3)	mg/L	17.0	9019088	39.1	0.50	9019088			
Carbonate (CO3)	mg/L	<0.50	9019088	<0.50	0.50	9019088			
Hydroxide (OH)	mg/L	<0.50	9019088	<0.50	0.50	9019088			
Anions									
Dissolved Sulphate (SO4)	mg/L	7.03	9022212	26.3	0.50	9022241	26.5	0.50	9022241
Dissolved Chloride (Cl)	mg/L	1.5	9022208	1.3	0.50	9022230	1.0	0.50	9022230
Nutrients									
Total Ammonia (N)	mg/L	0.013	9019027	0.0080	0.0050	9019027			
Nitrate plus Nitrite (N)	mg/L	0.0623	9018992	0.121	0.0020	9018992			
Nitrite (N)	mg/L	<0.0020	9018994	<0.0020	0.0020	9018994			
Physical Properties									
Conductivity	uS/cm	71.9	9019089	129	1.0	9019089			
pH	pH	7.03	9019085	7.45		9019085			
Physical Properties									
Total Suspended Solids	mg/L	7.4	9021999	5.1	1.0	9021999			
Total Dissolved Solids	mg/L	76 (1)	9020847	104 (1)	10	9020847			
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable (1) Particulates < 1.5 um present in sample.									

Maxxam Job #: B844935
Report Date: 2018/06/14

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TP1122		TP1123			TP1123	
Sampling Date		2018/06/05 11:30		2018/06/05 10:40			2018/06/05 10:40	
COC Number		553731-01-01		553731-01-01			553731-01-01	
	UNITS	CC-3.5	QC Batch	CC-4.5	RDL	QC Batch	CC-4.5 Lab-Dup	QC Batch
Parameter								
ORP	mV	255	9017919	257		9017919	258	9017919
Subcontract Parameter	N/A	ATTACHED	9023543	ATTACHED	N/A	9023543		
Calculated Parameters								
Filter and HNO3 Preservation	N/A	LAB	9017700	LAB		9017700		
Nitrate (N)	mg/L	0.0981	9016674	0.0717	0.0020	9016674		
Misc. Inorganics								
Fluoride (F)	mg/L	0.048	9022656	0.052	0.010	9022656		
Dissolved Organic Carbon (C)	mg/L	21.7	9018943	23.0	0.50	9018943		
Alkalinity (Total as CaCO3)	mg/L	32.1	9019088	22.1	0.50	9019088		
Total Organic Carbon (C)	mg/L	23.1	9018945	22.8	0.50	9018945		
Alkalinity (PP as CaCO3)	mg/L	<0.50	9019088	<0.50	0.50	9019088		
Bicarbonate (HCO3)	mg/L	39.2	9019088	26.9	0.50	9019088		
Carbonate (CO3)	mg/L	<0.50	9019088	<0.50	0.50	9019088		
Hydroxide (OH)	mg/L	<0.50	9019088	<0.50	0.50	9019088		
Anions								
Dissolved Sulphate (SO4)	mg/L	29.7	9022212	17.9	0.50	9022241		
Dissolved Chloride (Cl)	mg/L	1.4	9022208	1.3	0.50	9022230		
Nutrients								
Total Ammonia (N)	mg/L	0.0080	9019027	0.010	0.0050	9019027		
Nitrate plus Nitrite (N)	mg/L	0.0981	9018992	0.0717	0.0020	9018992		
Nitrite (N)	mg/L	<0.0020	9018994	<0.0020	0.0020	9018994		
Physical Properties								
Conductivity	uS/cm	133	9019089	93.0	1.0	9019089		
pH	pH	7.43	9019085	7.25		9019085		
Physical Properties								
Total Suspended Solids	mg/L	4.9	9021999	11.9	1.0	9021999		
Total Dissolved Solids	mg/L	126 (1)	9020847	84 (1)	10	9020847		
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable (1) Particulates < 1.5 um present in sample.								

Maxxam Job #: B844935
Report Date: 2018/06/14

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TP1124			TP1124			TP1125		
Sampling Date		2018/06/05 12:45			2018/06/05 12:45			2018/06/05 13:15		
COC Number		553731-01-01			553731-01-01			553731-01-01		
	UNITS	HC-2.5	RDL	QC Batch	HC-2.5 Lab-Dup	RDL	QC Batch	HC-5.0	RDL	QC Batch
Parameter										
ORP	mV	259		9017919				260		9017919
Subcontract Parameter	N/A	ATTACHED	N/A	9023543				ATTACHED	N/A	9023543
Calculated Parameters										
Filter and HNO3 Preservation	N/A	LAB		9017700				LAB		9017700
Nitrate (N)	mg/L	0.147	0.0020	9016674				0.122	0.0020	9016674
Misc. Inorganics										
Fluoride (F)	mg/L	0.041	0.010	9022656	0.041	0.010	9022656	0.053	0.010	9022656
Dissolved Organic Carbon (C)	mg/L	22.7	0.50	9018943				21.2	0.50	9018943
Alkalinity (Total as CaCO3)	mg/L	16.9	0.50	9019088				29.2	0.50	9019088
Total Organic Carbon (C)	mg/L	26.3	0.50	9018945				29.5	0.50	9018945
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	9019088				<0.50	0.50	9019088
Bicarbonate (HCO3)	mg/L	20.6	0.50	9019088				35.6	0.50	9019088
Carbonate (CO3)	mg/L	<0.50	0.50	9019088				<0.50	0.50	9019088
Hydroxide (OH)	mg/L	<0.50	0.50	9019088				<0.50	0.50	9019088
Anions										
Dissolved Sulphate (SO4)	mg/L	0.56	0.50	9022241				11.3	0.50	9022212
Dissolved Chloride (Cl)	mg/L	1.6	0.50	9022230				1.5	0.50	9022208
Nutrients										
Total Ammonia (N)	mg/L	0.010	0.0050	9019027				0.016	0.0050	9019027
Nitrate plus Nitrite (N)	mg/L	0.147	0.0020	9018992				0.122	0.0020	9018992
Nitrite (N)	mg/L	<0.0020	0.0020	9018994				<0.0020	0.0020	9018994
Physical Properties										
Conductivity	uS/cm	69.3	1.0	9019089				98.6	1.0	9019089
pH	pH	7.15		9019085				7.36		9019085
Physical Properties										
Total Suspended Solids	mg/L	2.0	1.0	9021999				8.5	1.0	9022000
Total Dissolved Solids	mg/L	86 (1)	10	9020847				102 (1)	10	9020847
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable (1) Particulates < 1.5 um present in sample.										

Maxxam Job #: B844935
Report Date: 2018/06/14

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TP1126			TP1127		TP1128		
Sampling Date		2018/06/05 13:35			2018/06/04 10:30		2018/06/04 10:00		
COC Number		553731-01-01			553731-01-01		553731-01-01		
	UNITS	YT-24	RDL	QC Batch	YT-24 Mix	QC Batch	Coffee Mix	RDL	QC Batch

Parameter									
ORP	mV	260		9017919	261	9017919	261		9017919
Subcontract Parameter	N/A	ATTACHED	N/A	9023543	ATTACHED	9023543	ATTACHED	N/A	9023543

Calculated Parameters									
Filter and HNO3 Preservation	N/A	LAB		9017700	LAB	9017700	LAB		9017700
Nitrate (N)	mg/L	0.369	0.0020	9016674	0.0452	9016674	0.0427	0.0020	9016674

Misc. Inorganics									
Fluoride (F)	mg/L	0.054	0.010	9022656	0.100	9022656	0.086	0.010	9022656
Dissolved Organic Carbon (C)	mg/L	21.1	0.50	9018943	6.88	9018943	13.2	0.50	9018943
Alkalinity (Total as CaCO3)	mg/L	25.8	0.50	9019081	60.6	9019081	48.2	0.50	9019088
Total Organic Carbon (C)	mg/L	28.1	0.50	9018945	7.32	9018945	14.1	0.50	9018945
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	9019081	<0.50	9019081	<0.50	0.50	9019088
Bicarbonate (HCO3)	mg/L	31.5	0.50	9019081	73.9	9019081	58.8	0.50	9019088
Carbonate (CO3)	mg/L	<0.50	0.50	9019081	<0.50	9019081	<0.50	0.50	9019088
Hydroxide (OH)	mg/L	<0.50	0.50	9019081	<0.50	9019081	<0.50	0.50	9019088

Anions									
Dissolved Sulphate (SO4)	mg/L	26.5	0.50	9022212	23.2	9022212	20.4	0.50	9022212
Dissolved Chloride (Cl)	mg/L	2.1	0.50	9022208	0.96	9022208	1.3	0.50	9022208

Nutrients									
Total Ammonia (N)	mg/L	0.0090	0.0050	9019027	0.013	9019027	0.015	0.0050	9019027
Nitrate plus Nitrite (N)	mg/L	0.373	0.0020	9018992	0.0475	9018992	0.0427	0.0020	9018992
Nitrite (N)	mg/L	0.0040	0.0020	9018994	0.0023	9018994	<0.0020	0.0020	9018994

Physical Properties									
Conductivity	uS/cm	120	1.0	9019082	173	9019082	144	1.0	9019089
pH	pH	7.36		9019078	7.86	9019078	7.68		9019085

Physical Properties									
Total Suspended Solids	mg/L	25.6 (1)	1.1	9022000	20.0	9020561	23.0	1.0	9020561
Total Dissolved Solids	mg/L	102 (2)	10	9020847	106	9019021	108	10	9019021

RDL = Reportable Detection Limit
N/A = Not Applicable
(1) RDL raised due to limited initial sample amount.
(2) Particulates < 1.5 um present in sample.

Maxxam Job #: B844935
Report Date: 2018/06/14

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TP1129			TP1129			TP1130		
Sampling Date		2018/06/04 11:00			2018/06/04 11:00			2018/06/05 11:55		
COC Number		553731-01-01			553731-01-01			553731-02-01		
	UNITS	Halfway Mix	RDL	QC Batch	Halfway Mix Lab-Dup	RDL	QC Batch	Latte Mix	RDL	QC Batch
Parameter										
ORP	mV	262		9017919				262		9017919
Subcontract Parameter	N/A	ATTACHED	N/A	9023543				ATTACHED	N/A	9023543
Calculated Parameters										
Filter and HNO3 Preservation	N/A	LAB		9017700				LAB		9017700
Nitrate (N)	mg/L	0.0425	0.0020	9016674				0.0735	0.0020	9016674
Misc. Inorganics										
Fluoride (F)	mg/L	0.100	0.010	9022656				0.048	0.010	9022656
Dissolved Organic Carbon (C)	mg/L	6.99	0.50	9018943				20.9	0.50	9018943
Alkalinity (Total as CaCO3)	mg/L	57.9	0.50	9019081				20.3	0.50	9019081
Total Organic Carbon (C)	mg/L	9.85	0.50	9018945				24.4	0.50	9018945
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	9019081				<0.50	0.50	9019081
Bicarbonate (HCO3)	mg/L	70.7	0.50	9019081				24.8	0.50	9019081
Carbonate (CO3)	mg/L	<0.50	0.50	9019081				<0.50	0.50	9019081
Hydroxide (OH)	mg/L	<0.50	0.50	9019081				<0.50	0.50	9019081
Anions										
Dissolved Sulphate (SO4)	mg/L	25.7	0.50	9022212	22.5	0.50	9022212	13.1	0.50	9022212
Dissolved Chloride (Cl)	mg/L	1.0	0.50	9022208	1.5	0.50	9022208	1.4	0.50	9022208
Nutrients										
Total Ammonia (N)	mg/L	0.019	0.0050	9019027				0.010	0.0050	9019027
Nitrate plus Nitrite (N)	mg/L	0.0500	0.0020	9018992				0.0758	0.0020	9018992
Nitrite (N)	mg/L	0.0075	0.0020	9018994				0.0023	0.0020	9018994
Physical Properties										
Conductivity	uS/cm	168	1.0	9019082				82.6	1.0	9019082
pH	pH	7.87		9019078				7.21		9019078
Physical Properties										
Total Suspended Solids	mg/L	20.0	1.0	9020561				7.3	1.0	9022000
Total Dissolved Solids	mg/L	92	10	9019021				86 (1)	10	9020847
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable (1) Particulates < 1.5 um present in sample.										

Maxxam Job #: B844935
Report Date: 2018/06/14

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TP1130		
Sampling Date		2018/06/05 11:55		
COC Number		553731-02-01		
	UNITS	Latte Mix Lab-Dup	RDL	QC Batch
Nutrients				
Total Ammonia (N)	mg/L	0.012	0.0050	9019027
RDL = Reportable Detection Limit				
Lab-Dup = Laboratory Initiated Duplicate				

Maxxam Job #: B844935
Report Date: 2018/06/14

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TP1120	TP1121		TP1122		TP1123		
Sampling Date		2018/06/05 11:15	2018/06/05 12:20		2018/06/05 11:30		2018/06/05 10:40		
COC Number		553731-01-01	553731-01-01		553731-01-01		553731-01-01		
	UNITS	CC-0.5	CC-1.5	QC Batch	CC-3.5	QC Batch	CC-4.5	RDL	QC Batch
Calculated Parameters									
Dissolved Hardness (CaCO3)	mg/L	37.7	69.0	9016135	68.2	9016135	48.1	0.50	9016135
Elements									
Dissolved Mercury (Hg)	ug/L	0.0127	0.0141	9018162	0.0149	9017897	0.0156	0.0020	9018162
Dissolved Metals by ICPMS									
Dissolved Aluminum (Al)	ug/L	384	356	9018735	302	9018735	304	0.50	9018735
Dissolved Antimony (Sb)	ug/L	0.083	0.090	9018735	0.084	9018735	0.086	0.020	9018735
Dissolved Arsenic (As)	ug/L	0.445	0.548	9018735	0.428	9018735	0.431	0.020	9018735
Dissolved Barium (Ba)	ug/L	31.6	29.6	9018735	33.2	9018735	33.8	0.020	9018735
Dissolved Beryllium (Be)	ug/L	0.027	0.053	9018735	0.045	9018735	0.034	0.010	9018735
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	9018735	<0.0050	9018735	<0.0050	0.0050	9018735
Dissolved Boron (B)	ug/L	<10	<10	9018735	<10	9018735	<10	10	9018735
Dissolved Cadmium (Cd)	ug/L	0.0147	0.0147	9018735	0.0121	9018735	0.0176	0.0050	9018735
Dissolved Chromium (Cr)	ug/L	0.48	0.44	9018735	0.46	9018735	0.48	0.10	9018735
Dissolved Cobalt (Co)	ug/L	0.135	0.116	9018735	0.114	9018735	0.118	0.0050	9018735
Dissolved Copper (Cu)	ug/L	3.03	2.17	9018735	2.32	9018735	3.12	0.050	9018735
Dissolved Iron (Fe)	ug/L	293	247	9018735	252	9018735	262	1.0	9018735
Dissolved Lead (Pb)	ug/L	0.0175	0.0170	9018735	0.0175	9018735	0.0189	0.0050	9018735
Dissolved Lithium (Li)	ug/L	0.68	1.16	9018735	0.73	9018735	0.63	0.50	9018735
Dissolved Manganese (Mn)	ug/L	6.45	11.2	9018735	6.47	9018735	5.06	0.050	9018735
Dissolved Molybdenum (Mo)	ug/L	0.522	0.081	9018735	0.126	9018735	0.470	0.050	9018735
Dissolved Nickel (Ni)	ug/L	1.41	1.13	9018735	1.03	9018735	1.34	0.020	9018735
Dissolved Phosphorus (P)	ug/L	10.0	9.5	9018735	8.9	9018735	9.6	2.0	9018735
Dissolved Selenium (Se)	ug/L	0.075	0.079	9018735	0.077	9018735	0.089	0.040	9018735
Dissolved Silicon (Si)	ug/L	2890	2730	9018735	2880	9018735	2920	50	9018735
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	9018735	<0.0050	9018735	<0.0050	0.0050	9018735
Dissolved Strontium (Sr)	ug/L	43.1	143	9018735	125	9018735	61.4	0.050	9018735
Dissolved Thallium (Tl)	ug/L	0.0063	0.0041	9018735	0.0045	9018735	0.0053	0.0020	9018735
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	9018735	<0.20	9018735	<0.20	0.20	9018735
Dissolved Titanium (Ti)	ug/L	2.94	2.43	9018735	2.53	9018735	2.89	0.50	9018735
Dissolved Uranium (U)	ug/L	2.15	4.38	9018735	4.22	9018735	2.41	0.0020	9018735
Dissolved Vanadium (V)	ug/L	0.51	0.33	9018735	0.37	9018735	0.48	0.20	9018735
RDL = Reportable Detection Limit									

Maxxam Job #: B844935
Report Date: 2018/06/14

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TP1120	TP1121		TP1122		TP1123		
Sampling Date		2018/06/05 11:15	2018/06/05 12:20		2018/06/05 11:30		2018/06/05 10:40		
COC Number		553731-01-01	553731-01-01		553731-01-01		553731-01-01		
	UNITS	CC-0.5	CC-1.5	QC Batch	CC-3.5	QC Batch	CC-4.5	RDL	QC Batch
Dissolved Zinc (Zn)	ug/L	0.84	1.43	9018735	0.63	9018735	1.23	0.10	9018735
Dissolved Zirconium (Zr)	ug/L	0.54	0.60	9018735	0.80	9018735	0.60	0.10	9018735
Dissolved Calcium (Ca)	mg/L	10.2	18.2	9016136	18.5	9016136	12.6	0.050	9016136
Dissolved Magnesium (Mg)	mg/L	2.97	5.72	9016136	5.32	9016136	4.02	0.050	9016136
Dissolved Potassium (K)	mg/L	0.816	1.16	9016136	1.23	9016136	0.976	0.050	9016136
Dissolved Sodium (Na)	mg/L	1.58	1.40	9016136	1.88	9016136	1.88	0.050	9016136
Dissolved Sulphur (S)	mg/L	3.5	7.6	9016136	8.2	9016136	5.2	3.0	9016136
RDL = Reportable Detection Limit									

Maxxam Job #: B844935
Report Date: 2018/06/14

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TP1124	TP1125		TP1126		TP1127		
Sampling Date		2018/06/05 12:45	2018/06/05 13:15		2018/06/05 13:35		2018/06/04 10:30		
COC Number		553731-01-01	553731-01-01		553731-01-01		553731-01-01		
	UNITS	HC-2.5	HC-5.0	QC Batch	YT-24	QC Batch	YT-24 Mix	RDL	QC Batch
Calculated Parameters									
Dissolved Hardness (CaCO3)	mg/L	38.0	51.6	9016135	61.0	9016135	83.0	0.50	9016135
Elements									
Dissolved Mercury (Hg)	ug/L	0.0140	0.0124	9018162	0.0161	9017897	0.0032	0.0020	9018162
Dissolved Metals by ICPMS									
Dissolved Aluminum (Al)	ug/L	441	282	9018735	290	9018735	60.2	0.50	9018735
Dissolved Antimony (Sb)	ug/L	0.149	0.159	9018735	0.215	9018735	0.122	0.020	9018735
Dissolved Arsenic (As)	ug/L	1.02	0.907	9018735	0.840	9018735	0.466	0.020	9018735
Dissolved Barium (Ba)	ug/L	27.0	28.1	9018735	41.7	9018735	38.9	0.020	9018735
Dissolved Beryllium (Be)	ug/L	0.060	0.041	9018735	0.053	9018735	<0.010	0.010	9018735
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	9018735	<0.0050	9018735	<0.0050	0.0050	9018735
Dissolved Boron (B)	ug/L	<10	<10	9018735	<10	9018735	<10	10	9018735
Dissolved Cadmium (Cd)	ug/L	0.0177	0.0067	9018735	0.0187	9018735	0.0364	0.0050	9018735
Dissolved Chromium (Cr)	ug/L	0.73	0.62	9018735	0.74	9018735	0.15	0.10	9018735
Dissolved Cobalt (Co)	ug/L	0.279	0.135	9018735	0.196	9018735	0.0468	0.0050	9018735
Dissolved Copper (Cu)	ug/L	2.41	2.47	9018735	2.76	9018735	1.57	0.050	9018735
Dissolved Iron (Fe)	ug/L	346	250	9018735	252	9018735	70.9	1.0	9018735
Dissolved Lead (Pb)	ug/L	0.0299	0.0188	9018735	0.0322	9018735	0.0283	0.0050	9018735
Dissolved Lithium (Li)	ug/L	0.83	0.75	9018735	<0.50	9018735	1.41	0.50	9018735
Dissolved Manganese (Mn)	ug/L	31.2	5.83	9018735	21.8	9018735	4.43	0.050	9018735
Dissolved Molybdenum (Mo)	ug/L	0.358	0.339	9018735	0.231	9018735	0.913	0.050	9018735
Dissolved Nickel (Ni)	ug/L	1.38	1.23	9018735	1.22	9018735	1.46	0.020	9018735
Dissolved Phosphorus (P)	ug/L	11.5	9.8	9018735	11.3	9018735	6.8	2.0	9018735
Dissolved Selenium (Se)	ug/L	0.090	0.088	9018735	0.098	9018735	0.281	0.040	9018735
Dissolved Silicon (Si)	ug/L	2920	3190	9018735	3180	9018735	2920	50	9018735
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	9018735	0.0062	9018735	<0.0050	0.0050	9018735
Dissolved Strontium (Sr)	ug/L	106	119	9018735	86.1	9018735	104	0.050	9018735
Dissolved Thallium (Tl)	ug/L	0.0057	0.0048	9018735	0.0052	9018735	0.0042	0.0020	9018735
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	9018735	<0.20	9018735	<0.20	0.20	9018735
Dissolved Titanium (Ti)	ug/L	4.49	3.44	9018735	3.89	9018735	0.88	0.50	9018735
Dissolved Uranium (U)	ug/L	9.46	6.85	9018735	3.05	9018735	1.30	0.0020	9018735
Dissolved Vanadium (V)	ug/L	0.71	0.56	9018735	0.48	9018735	0.25	0.20	9018735
RDL = Reportable Detection Limit									

Maxxam Job #: B844935
Report Date: 2018/06/14

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TP1124	TP1125		TP1126		TP1127		
Sampling Date		2018/06/05 12:45	2018/06/05 13:15		2018/06/05 13:35		2018/06/04 10:30		
COC Number		553731-01-01	553731-01-01		553731-01-01		553731-01-01		
	UNITS	HC-2.5	HC-5.0	QC Batch	YT-24	QC Batch	YT-24 Mix	RDL	QC Batch
Dissolved Zinc (Zn)	ug/L	1.33	0.32	9018735	0.70	9018735	2.45	0.10	9018735
Dissolved Zirconium (Zr)	ug/L	0.84	0.81	9018735	1.04	9018735	0.23	0.10	9018735
Dissolved Calcium (Ca)	mg/L	10.2	13.9	9016136	16.2	9016136	22.1	0.050	9016136
Dissolved Magnesium (Mg)	mg/L	3.03	4.08	9016136	4.98	9016136	6.78	0.050	9016136
Dissolved Potassium (K)	mg/L	1.04	1.28	9016136	1.18	9016136	0.937	0.050	9016136
Dissolved Sodium (Na)	mg/L	1.27	1.56	9016136	1.71	9016136	1.97	0.050	9016136
Dissolved Sulphur (S)	mg/L	<3.0	4.0	9016136	7.9	9016136	7.0	3.0	9016136
RDL = Reportable Detection Limit									

Maxxam Job #: B844935
Report Date: 2018/06/14

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TP1127			TP1128	TP1129	TP1130		
Sampling Date		2018/06/04 10:30			2018/06/04 10:00	2018/06/04 11:00	2018/06/05 11:55		
COC Number		553731-01-01			553731-01-01	553731-01-01	553731-02-01		
	UNITS	YT-24 Mix Lab-Dup	RDL	QC Batch	Coffee Mix	Halfway Mix	Latte Mix	RDL	QC Batch
Calculated Parameters									
Dissolved Hardness (CaCO3)	mg/L				72.1	81.4	41.3	0.50	9016135
Elements									
Dissolved Mercury (Hg)	ug/L				0.0052	0.0042	0.0135	0.0020	9018162
Dissolved Metals by ICPMS									
Dissolved Aluminum (Al)	ug/L	60.4	0.50	9018735	135	85.3	324	0.50	9018735
Dissolved Antimony (Sb)	ug/L	0.122	0.020	9018735	0.107	0.116	0.083	0.020	9018735
Dissolved Arsenic (As)	ug/L	0.457	0.020	9018735	0.463	0.512	0.464	0.020	9018735
Dissolved Barium (Ba)	ug/L	38.6	0.020	9018735	37.0	38.8	31.0	0.020	9018735
Dissolved Beryllium (Be)	ug/L	<0.010	0.010	9018735	0.023	0.015	0.039	0.010	9018735
Dissolved Bismuth (Bi)	ug/L	<0.0050	0.0050	9018735	<0.0050	<0.0050	<0.0050	0.0050	9018735
Dissolved Boron (B)	ug/L	<10	10	9018735	<10	<10	<10	10	9018735
Dissolved Cadmium (Cd)	ug/L	0.0349	0.0050	9018735	0.0302	0.0347	0.0169	0.0050	9018735
Dissolved Chromium (Cr)	ug/L	0.15	0.10	9018735	0.24	0.18	0.50	0.10	9018735
Dissolved Cobalt (Co)	ug/L	0.0495	0.0050	9018735	0.0642	0.0447	0.130	0.0050	9018735
Dissolved Copper (Cu)	ug/L	1.57	0.050	9018735	2.04	1.51	3.00	0.050	9018735
Dissolved Iron (Fe)	ug/L	71.0	1.0	9018735	127	80.3	273	1.0	9018735
Dissolved Lead (Pb)	ug/L	0.0279	0.0050	9018735	0.0277	0.0250	0.0199	0.0050	9018735
Dissolved Lithium (Li)	ug/L	1.43	0.50	9018735	1.19	1.42	0.65	0.50	9018735
Dissolved Manganese (Mn)	ug/L	4.44	0.050	9018735	1.73	1.77	6.55	0.050	9018735
Dissolved Molybdenum (Mo)	ug/L	0.900	0.050	9018735	0.752	0.865	0.449	0.050	9018735
Dissolved Nickel (Ni)	ug/L	1.50	0.020	9018735	1.46	1.44	1.35	0.020	9018735
Dissolved Phosphorus (P)	ug/L	6.0	2.0	9018735	7.6	6.1	8.7	2.0	9018735
Dissolved Selenium (Se)	ug/L	0.284	0.040	9018735	0.221	0.278	0.084	0.040	9018735
Dissolved Silicon (Si)	ug/L	2950	50	9018735	2780	2870	2890	50	9018735
Dissolved Silver (Ag)	ug/L	<0.0050	0.0050	9018735	<0.0050	0.0072	0.0052	0.0050	9018735
Dissolved Strontium (Sr)	ug/L	102	0.050	9018735	91.1	106	55.3	0.050	9018735
Dissolved Thallium (Tl)	ug/L	0.0034	0.0020	9018735	0.0044	0.0044	0.0057	0.0020	9018735
Dissolved Tin (Sn)	ug/L	<0.20	0.20	9018735	<0.20	<0.20	<0.20	0.20	9018735
Dissolved Titanium (Ti)	ug/L	0.85	0.50	9018735	1.67	1.30	3.11	0.50	9018735
Dissolved Uranium (U)	ug/L	1.28	0.0020	9018735	1.38	1.69	2.50	0.0020	9018735
RDL = Reportable Detection Limit									
Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B844935
Report Date: 2018/06/14

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TP1127			TP1128	TP1129	TP1130		
Sampling Date		2018/06/04 10:30			2018/06/04 10:00	2018/06/04 11:00	2018/06/05 11:55		
COC Number		553731-01-01			553731-01-01	553731-01-01	553731-02-01		
	UNITS	YT-24 Mix Lab-Dup	RDL	QC Batch	Coffee Mix	Halfway Mix	Latte Mix	RDL	QC Batch
Dissolved Vanadium (V)	ug/L	0.23	0.20	9018735	0.29	0.21	0.50	0.20	9018735
Dissolved Zinc (Zn)	ug/L	2.44	0.10	9018735	2.23	1.74	0.80	0.10	9018735
Dissolved Zirconium (Zr)	ug/L	0.19	0.10	9018735	0.33	0.25	0.60	0.10	9018735
Dissolved Calcium (Ca)	mg/L				19.5	22.0	10.9	0.050	9016136
Dissolved Magnesium (Mg)	mg/L				5.69	6.41	3.39	0.050	9016136
Dissolved Potassium (K)	mg/L				0.897	0.964	0.905	0.050	9016136
Dissolved Sodium (Na)	mg/L				1.81	1.86	1.62	0.050	9016136
Dissolved Sulphur (S)	mg/L				6.0	6.1	4.3	3.0	9016136
RDL = Reportable Detection Limit									
Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B844935
Report Date: 2018/06/14

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TP1120			TP1120			TP1121		
Sampling Date		2018/06/05 11:15			2018/06/05 11:15			2018/06/05 12:20		
COC Number		553731-01-01			553731-01-01			553731-01-01		
	UNITS	CC-0.5	RDL	QC Batch	CC-0.5 Lab-Dup	RDL	QC Batch	CC-1.5	RDL	QC Batch
Calculated Parameters										
Total Hardness (CaCO3)	mg/L	36.5	0.50	9016134				66.7	0.50	9016134
Elements										
Total Mercury (Hg)	ug/L	<0.0020	0.0020	9017976				<0.0020	0.0020	9017976
Total Metals by ICPMS										
Total Aluminum (Al)	ug/L	428	3.0	9015522	446	3.0	9015522	489	3.0	9015522
Total Antimony (Sb)	ug/L	0.088	0.020	9015522	0.096	0.020	9015522	0.102	0.020	9015522
Total Arsenic (As)	ug/L	0.575	0.020	9015522	0.620	0.020	9015522	0.804	0.020	9015522
Total Barium (Ba)	ug/L	33.6	0.050	9015522	35.4	0.050	9015522	31.8	0.050	9015522
Total Beryllium (Be)	ug/L	0.035	0.010	9015522	0.031	0.010	9015522	0.060	0.010	9015522
Total Bismuth (Bi)	ug/L	<0.010	0.010	9015522	<0.010	0.010	9015522	<0.010	0.010	9015522
Total Boron (B)	ug/L	<10	10	9015522	<10	10	9015522	<10	10	9015522
Total Cadmium (Cd)	ug/L	0.0169	0.0050	9015522	0.0180	0.0050	9015522	0.0207	0.0050	9015522
Total Chromium (Cr)	ug/L	0.69	0.10	9015522	0.77	0.10	9015522	0.88	0.10	9015522
Total Cobalt (Co)	ug/L	0.213	0.010	9015522	0.220	0.010	9015522	0.215	0.010	9015522
Total Copper (Cu)	ug/L	3.45	0.10	9015522	3.50	0.10	9015522	2.44	0.10	9015522
Total Iron (Fe)	ug/L	470	5.0	9015522	506	5.0	9015522	523	5.0	9015522
Total Lead (Pb)	ug/L	0.079	0.020	9015522	0.080	0.020	9015522	0.130	0.020	9015522
Total Lithium (Li)	ug/L	0.62	0.50	9015522	0.67	0.50	9015522	1.09	0.50	9015522
Total Manganese (Mn)	ug/L	12.8	0.10	9015522	13.5	0.10	9015522	27.0	0.10	9015522
Total Molybdenum (Mo)	ug/L	0.564	0.050	9015522	0.515	0.050	9015522	0.115	0.050	9015522
Total Nickel (Ni)	ug/L	1.66	0.10	9015522	1.64	0.10	9015522	1.35	0.10	9015522
Total Phosphorus (P)	ug/L	15.7	5.0	9015522	15.8	5.0	9015522	24.7	5.0	9015522
Total Selenium (Se)	ug/L	0.056	0.040	9015522	0.068	0.040	9015522	0.072	0.040	9015522
Total Silicon (Si)	ug/L	3150	50	9015522	3360	50	9015522	3110	50	9015522
Total Silver (Ag)	ug/L	<0.010	0.010	9015522	<0.010	0.010	9015522	<0.010	0.010	9015522
Total Strontium (Sr)	ug/L	47.6	0.050	9015522	49.6	0.050	9015522	148	0.050	9015522
Total Thallium (Tl)	ug/L	0.0055	0.0020	9015522	0.0075	0.0020	9015522	0.0048	0.0020	9015522
Total Tin (Sn)	ug/L	<0.20	0.20	9015522	<0.20	0.20	9015522	<0.20	0.20	9015522
Total Titanium (Ti)	ug/L	10.3	2.0	9015522	10.2	2.0	9015522	10.6	2.0	9015522
Total Uranium (U)	ug/L	2.04	0.0050	9015522	2.11	0.0050	9015522	4.33	0.0050	9015522
Total Vanadium (V)	ug/L	1.07	0.20	9015522	1.10	0.20	9015522	0.93	0.20	9015522
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B844935
Report Date: 2018/06/14

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TP1120			TP1120			TP1121		
Sampling Date		2018/06/05 11:15			2018/06/05 11:15			2018/06/05 12:20		
COC Number		553731-01-01			553731-01-01			553731-01-01		
	UNITS	CC-0.5	RDL	QC Batch	CC-0.5 Lab-Dup	RDL	QC Batch	CC-1.5	RDL	QC Batch
Total Zinc (Zn)	ug/L	1.5	1.0	9015522	1.5	1.0	9015522	2.0	1.0	9015522
Total Zirconium (Zr)	ug/L	0.52	0.10	9015522	0.53	0.10	9015522	0.92	0.10	9015522
Total Calcium (Ca)	mg/L	9.60	0.25	9016137				17.5	0.25	9016137
Total Magnesium (Mg)	mg/L	3.05	0.25	9016137				5.56	0.25	9016137
Total Potassium (K)	mg/L	0.78	0.25	9016137				1.03	0.25	9016137
Total Sodium (Na)	mg/L	1.63	0.25	9016137				1.37	0.25	9016137
Total Sulphur (S)	mg/L	3.6	3.0	9016137				7.4	3.0	9016137
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B844935
Report Date: 2018/06/14

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TP1122	TP1123		TP1124	TP1125	TP1126		
Sampling Date		2018/06/05 11:30	2018/06/05 10:40		2018/06/05 12:45	2018/06/05 13:15	2018/06/05 13:35		
COC Number		553731-01-01	553731-01-01		553731-01-01	553731-01-01	553731-01-01		
	UNITS	CC-3.5	CC-4.5	QC Batch	HC-2.5	HC-5.0	YT-24	RDL	QC Batch
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	67.4	49.2	9016134	38.0	55.0	63.5	0.50	9016134
Elements									
Total Mercury (Hg)	ug/L	0.0138	0.0117	9018154	<0.0020	0.0128	0.0154	0.0020	9017976
Total Metals by ICPMS									
Total Aluminum (Al)	ug/L	321	994	9015522	434	366	540	3.0	9015522
Total Antimony (Sb)	ug/L	0.084	0.109	9015522	0.167	0.171	0.243	0.020	9015522
Total Arsenic (As)	ug/L	0.520	1.15	9015522	1.18	1.16	1.29	0.020	9015522
Total Barium (Ba)	ug/L	34.3	51.8	9015522	28.0	31.7	49.7	0.050	9015522
Total Beryllium (Be)	ug/L	0.041	0.065	9015522	0.046	0.050	0.065	0.010	9015522
Total Bismuth (Bi)	ug/L	<0.010	<0.010	9015522	<0.010	<0.010	<0.010	0.010	9015522
Total Boron (B)	ug/L	<10	<10	9015522	<10	<10	<10	10	9015522
Total Cadmium (Cd)	ug/L	0.0112	0.0477	9015522	0.0138	0.0102	0.0181	0.0050	9015522
Total Chromium (Cr)	ug/L	0.59	1.60	9015522	0.76	0.91	1.22	0.10	9015522
Total Cobalt (Co)	ug/L	0.143	0.666	9015522	0.280	0.207	0.384	0.010	9015522
Total Copper (Cu)	ug/L	2.44	4.45	9015522	2.43	2.82	3.34	0.10	9015522
Total Iron (Fe)	ug/L	322	1360	9015522	388	397	650	5.0	9015522
Total Lead (Pb)	ug/L	0.063	0.551	9015522	0.052	0.089	0.315	0.020	9015522
Total Lithium (Li)	ug/L	0.69	1.30	9015522	0.76	0.79	0.53	0.50	9015522
Total Manganese (Mn)	ug/L	11.4	45.9	9015522	34.4	11.5	37.0	0.10	9015522
Total Molybdenum (Mo)	ug/L	0.138	0.515	9015522	0.413	0.381	0.281	0.050	9015522
Total Nickel (Ni)	ug/L	1.10	2.27	9015522	1.38	1.48	1.62	0.10	9015522
Total Phosphorus (P)	ug/L	9.7	52.5	9015522	10.8	15.7	28.8	5.0	9015522
Total Selenium (Se)	ug/L	0.055	0.075	9015522	0.063	0.083	0.078	0.040	9015522
Total Silicon (Si)	ug/L	3150	4040	9015522	3250	3670	3920	50	9015522
Total Silver (Ag)	ug/L	<0.010	<0.010	9015522	<0.010	<0.010	<0.010	0.010	9015522
Total Strontium (Sr)	ug/L	130	72.8	9015522	112	135	98.2	0.050	9015522
Total Thallium (Tl)	ug/L	0.0035	0.0133	9015522	0.0046	0.0039	0.0064	0.0020	9015522
Total Tin (Sn)	ug/L	<0.20	<0.20	9015522	<0.20	<0.20	<0.20	0.20	9015522
Total Titanium (Ti)	ug/L	4.9	42.0	9015522	5.5	8.0	17.6	2.0	9015522
Total Uranium (U)	ug/L	4.00	2.85	9015522	9.06	7.34	3.27	0.0050	9015522
Total Vanadium (V)	ug/L	0.62	3.10	9015522	0.84	0.92	1.34	0.20	9015522
Total Zinc (Zn)	ug/L	1.4	5.3	9015522	1.0	<1.0	1.8	1.0	9015522
RDL = Reportable Detection Limit									

Maxxam Job #: B844935
Report Date: 2018/06/14

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TP1122	TP1123		TP1124	TP1125	TP1126		
Sampling Date		2018/06/05 11:30	2018/06/05 10:40		2018/06/05 12:45	2018/06/05 13:15	2018/06/05 13:35		
COC Number		553731-01-01	553731-01-01		553731-01-01	553731-01-01	553731-01-01		
	UNITS	CC-3.5	CC-4.5	QC Batch	HC-2.5	HC-5.0	YT-24	RDL	QC Batch
Total Zirconium (Zr)	ug/L	0.70	0.61	9015522	0.79	0.79	1.02	0.10	9015522
Total Calcium (Ca)	mg/L	18.1	12.8	9016137	10.3	15.0	16.9	0.25	9016137
Total Magnesium (Mg)	mg/L	5.36	4.21	9016137	2.96	4.26	5.17	0.25	9016137
Total Potassium (K)	mg/L	1.15	1.00	9016137	0.92	1.25	1.18	0.25	9016137
Total Sodium (Na)	mg/L	1.87	2.51	9016137	1.20	1.65	1.81	0.25	9016137
Total Sulphur (S)	mg/L	8.5	4.9	9016137	<3.0	4.4	8.1	3.0	9016137
RDL = Reportable Detection Limit									

Maxxam Job #: B844935
Report Date: 2018/06/14

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TP1127		TP1128	TP1129		TP1130		
Sampling Date		2018/06/04 10:30		2018/06/04 10:00	2018/06/04 11:00		2018/06/05 11:55		
COC Number		553731-01-01		553731-01-01	553731-01-01		553731-02-01		
	UNITS	YT-24 Mix	QC Batch	Coffee Mix	Halfway Mix	QC Batch	Latte Mix	RDL	QC Batch
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	88.8	9016134	73.3	85.0	9016134	43.7	0.50	9016134
Elements									
Total Mercury (Hg)	ug/L	0.0030	9018154	0.0061	0.0043	9017976	0.0117	0.0020	9018154
Total Metals by ICPMS									
Total Aluminum (Al)	ug/L	329	9015522	382	294	9015522	431	3.0	9015522
Total Antimony (Sb)	ug/L	0.186	9015522	0.158	0.148	9015522	0.096	0.020	9015522
Total Arsenic (As)	ug/L	0.792	9015522	0.783	0.794	9015522	0.588	0.020	9015522
Total Barium (Ba)	ug/L	52.9	9015522	47.9	48.5	9015522	35.7	0.050	9015522
Total Beryllium (Be)	ug/L	0.033	9015522	0.029	0.024	9015522	0.043	0.010	9015522
Total Bismuth (Bi)	ug/L	<0.010	9015522	<0.010	<0.010	9015522	<0.010	0.010	9015522
Total Boron (B)	ug/L	<10	9015522	<10	<10	9015522	<10	10	9015522
Total Cadmium (Cd)	ug/L	0.0763	9015522	0.0677	0.0644	9015522	0.0168	0.0050	9015522
Total Chromium (Cr)	ug/L	0.64	9015522	0.70	0.58	9015522	0.71	0.10	9015522
Total Cobalt (Co)	ug/L	0.280	9015522	0.281	0.245	9015522	0.212	0.010	9015522
Total Copper (Cu)	ug/L	2.34	9015522	2.80	2.15	9015522	3.27	0.10	9015522
Total Iron (Fe)	ug/L	557	9015522	555	460	9015522	471	5.0	9015522
Total Lead (Pb)	ug/L	0.307	9015522	0.267	0.249	9015522	0.079	0.020	9015522
Total Lithium (Li)	ug/L	1.61	9015522	1.28	1.51	9015522	0.70	0.50	9015522
Total Manganese (Mn)	ug/L	28.2	9015522	26.3	24.4	9015522	14.2	0.10	9015522
Total Molybdenum (Mo)	ug/L	0.966	9015522	0.822	0.912	9015522	0.513	0.050	9015522
Total Nickel (Ni)	ug/L	2.65	9015522	2.35	2.25	9015522	1.60	0.10	9015522
Total Phosphorus (P)	ug/L	32.9	9015522	31.3	27.0	9015522	13.2	5.0	9015522
Total Selenium (Se)	ug/L	0.305	9015522	0.208	0.273	9015522	0.062	0.040	9015522
Total Silicon (Si)	ug/L	3500	9015522	3320	3390	9015522	3370	50	9015522
Total Silver (Ag)	ug/L	<0.010	9015522	<0.010	<0.010	9015522	<0.010	0.010	9015522
Total Strontium (Sr)	ug/L	118	9015522	100	118	9015522	65.1	0.050	9015522
Total Thallium (Tl)	ug/L	0.0059	9015522	0.0057	0.0041	9015522	0.0060	0.0020	9015522
Total Tin (Sn)	ug/L	<0.20	9015522	<0.20	<0.20	9015522	<0.20	0.20	9015522
Total Titanium (Ti)	ug/L	10.5	9015522	10.7	7.8	9015522	10.4	2.0	9015522
Total Uranium (U)	ug/L	1.32	9015522	1.51	1.71	9015522	2.50	0.0050	9015522
Total Vanadium (V)	ug/L	1.17	9015522	1.24	1.06	9015522	1.09	0.20	9015522
Total Zinc (Zn)	ug/L	8.2	9015522	7.4	6.0	9015522	1.4	1.0	9015522
RDL = Reportable Detection Limit									

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Client Project #: GOLD CORP COFFEE CREEK-SW
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LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TP1127		TP1128	TP1129		TP1130		
Sampling Date		2018/06/04 10:30		2018/06/04 10:00	2018/06/04 11:00		2018/06/05 11:55		
COC Number		553731-01-01		553731-01-01	553731-01-01		553731-02-01		
	UNITS	YT-24 Mix	QC Batch	Coffee Mix	Halfway Mix	QC Batch	Latte Mix	RDL	QC Batch
Total Zirconium (Zr)	ug/L	0.19	9015522	0.29	0.22	9015522	0.56	0.10	9015522
Total Calcium (Ca)	mg/L	23.9	9016137	19.6	23.0	9016137	11.5	0.25	9016137
Total Magnesium (Mg)	mg/L	7.07	9016137	5.94	6.68	9016137	3.65	0.25	9016137
Total Potassium (K)	mg/L	0.97	9016137	0.90	0.97	9016137	0.90	0.25	9016137
Total Sodium (Na)	mg/L	2.05	9016137	1.91	1.94	9016137	1.69	0.25	9016137
Total Sulphur (S)	mg/L	7.3	9016137	6.1	6.3	9016137	4.4	3.0	9016137
RDL = Reportable Detection Limit									

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LORAX ENVIRONMENTAL SERVICES LTD.
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GENERAL COMMENTS

Sample TP1127 [YT-24 Mix] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.}

Sample TP1128 [Coffee Mix] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.}

Sample TP1129 [Halfway Mix] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.}

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER) Comments

Method Blank Elements by ICPMS Low Level (dissolved): Method Blank exceeds acceptance limits for (Mercury) - 2X RDL acceptable for low level metals determination.

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9015522	Total Aluminum (Al)	2018/06/12	117	80 - 120	102	80 - 120	<3.0	ug/L	4.1	20
9015522	Total Antimony (Sb)	2018/06/12	108	80 - 120	100	80 - 120	<0.020	ug/L	8.7	20
9015522	Total Arsenic (As)	2018/06/12	109	80 - 120	103	80 - 120	<0.020	ug/L	7.5	20
9015522	Total Barium (Ba)	2018/06/12	110	80 - 120	99	80 - 120	<0.050	ug/L	5.4	20
9015522	Total Beryllium (Be)	2018/06/12	112	80 - 120	105	80 - 120	<0.010	ug/L	13	20
9015522	Total Bismuth (Bi)	2018/06/12	102	80 - 120	99	80 - 120	<0.010	ug/L	NC	20
9015522	Total Boron (B)	2018/06/12	110	80 - 120	104	80 - 120	<10	ug/L	NC	20
9015522	Total Cadmium (Cd)	2018/06/12	109	80 - 120	102	80 - 120	<0.0050	ug/L	6.3	20
9015522	Total Chromium (Cr)	2018/06/12	106	80 - 120	100	80 - 120	<0.10	ug/L	11	20
9015522	Total Cobalt (Co)	2018/06/12	101	80 - 120	96	80 - 120	<0.010	ug/L	3.3	20
9015522	Total Copper (Cu)	2018/06/12	104	80 - 120	98	80 - 120	<0.10	ug/L	1.6	20
9015522	Total Iron (Fe)	2018/06/12	112	80 - 120	103	80 - 120	<5.0	ug/L	7.3	20
9015522	Total Lead (Pb)	2018/06/12	104	80 - 120	99	80 - 120	<0.020	ug/L	0.13	20
9015522	Total Lithium (Li)	2018/06/12	111	80 - 120	104	80 - 120	<0.50	ug/L	7.7	20
9015522	Total Manganese (Mn)	2018/06/12	105	80 - 120	101	80 - 120	<0.10	ug/L	5.3	20
9015522	Total Molybdenum (Mo)	2018/06/12	108	80 - 120	103	80 - 120	<0.050	ug/L	9.2	20
9015522	Total Nickel (Ni)	2018/06/12	104	80 - 120	98	80 - 120	<0.10	ug/L	1.6	20
9015522	Total Phosphorus (P)	2018/06/12	103	80 - 120	99	80 - 120	<5.0	ug/L	0.70	20
9015522	Total Selenium (Se)	2018/06/12	106	80 - 120	97	80 - 120	<0.040	ug/L	19	20
9015522	Total Silicon (Si)	2018/06/12	109	80 - 120	102	80 - 120	<50	ug/L	6.5	20
9015522	Total Silver (Ag)	2018/06/12	108	80 - 120	101	80 - 120	<0.010	ug/L	NC	20
9015522	Total Strontium (Sr)	2018/06/12	112	80 - 120	102	80 - 120	<0.050	ug/L	4.1	20
9015522	Total Thallium (Tl)	2018/06/12	102	80 - 120	99	80 - 120	<0.0020	ug/L	NC	20
9015522	Total Tin (Sn)	2018/06/12	108	80 - 120	100	80 - 120	<0.20	ug/L	NC	20
9015522	Total Titanium (Ti)	2018/06/12	112	80 - 120	101	80 - 120	<2.0	ug/L	0.030	20
9015522	Total Uranium (U)	2018/06/12	110	80 - 120	107	80 - 120	<0.0050	ug/L	3.3	20
9015522	Total Vanadium (V)	2018/06/12	107	80 - 120	101	80 - 120	<0.20	ug/L	3.7	20
9015522	Total Zinc (Zn)	2018/06/12	107	80 - 120	100	80 - 120	<1.0	ug/L	0.41	20
9015522	Total Zirconium (Zr)	2018/06/12	107	80 - 120	100	80 - 120	<0.10	ug/L	2.2	20
9017897	Dissolved Mercury (Hg)	2018/06/08	95	80 - 120	95	80 - 120	<0.0020	ug/L	NC	20
9017919	ORP	2018/06/08							0.39	20

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QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9017976	Total Mercury (Hg)	2018/06/08	91	80 - 120	91	80 - 120	<0.0020	ug/L	NC	20
9018154	Total Mercury (Hg)	2018/06/08	86	80 - 120	90	80 - 120	<0.0020	ug/L	NC	20
9018162	Dissolved Mercury (Hg)	2018/06/08	91	80 - 120	89	80 - 120	<0.0020	ug/L	NC	20
9018735	Dissolved Aluminum (Al)	2018/06/11	110	80 - 120	109	80 - 120	<0.50	ug/L	0.36	20
9018735	Dissolved Antimony (Sb)	2018/06/11	99	80 - 120	100	80 - 120	<0.020	ug/L	0	20
9018735	Dissolved Arsenic (As)	2018/06/11	101	80 - 120	100	80 - 120	<0.020	ug/L	2.0	20
9018735	Dissolved Barium (Ba)	2018/06/11	98	80 - 120	98	80 - 120	<0.020	ug/L	0.74	20
9018735	Dissolved Beryllium (Be)	2018/06/11	106	80 - 120	106	80 - 120	<0.010	ug/L	NC	20
9018735	Dissolved Bismuth (Bi)	2018/06/11	103	80 - 120	106	80 - 120	<0.0050	ug/L	NC	20
9018735	Dissolved Boron (B)	2018/06/11	110	80 - 120	108	80 - 120	<10	ug/L	NC	20
9018735	Dissolved Cadmium (Cd)	2018/06/11	96	80 - 120	98	80 - 120	<0.0050	ug/L	4.2	20
9018735	Dissolved Chromium (Cr)	2018/06/11	100	80 - 120	101	80 - 120	<0.10	ug/L	2.5	20
9018735	Dissolved Cobalt (Co)	2018/06/11	101	80 - 120	102	80 - 120	<0.0050	ug/L	5.6	20
9018735	Dissolved Copper (Cu)	2018/06/11	97	80 - 120	99	80 - 120	<0.050	ug/L	0.57	20
9018735	Dissolved Iron (Fe)	2018/06/11	102	80 - 120	103	80 - 120	<1.0	ug/L	0.14	20
9018735	Dissolved Lead (Pb)	2018/06/11	103	80 - 120	105	80 - 120	<0.0050	ug/L	1.4	20
9018735	Dissolved Lithium (Li)	2018/06/11	111	80 - 120	113	80 - 120	<0.50	ug/L	1.7	20
9018735	Dissolved Manganese (Mn)	2018/06/11	93	80 - 120	95	80 - 120	<0.050	ug/L	0.21	20
9018735	Dissolved Molybdenum (Mo)	2018/06/11	103	80 - 120	100	80 - 120	<0.050	ug/L	1.4	20
9018735	Dissolved Nickel (Ni)	2018/06/11	94	80 - 120	97	80 - 120	<0.020	ug/L	2.6	20
9018735	Dissolved Phosphorus (P)	2018/06/11	99	80 - 120	98	80 - 120	<2.0	ug/L	12	20
9018735	Dissolved Selenium (Se)	2018/06/11	104	80 - 120	100	80 - 120	<0.040	ug/L	0.99	20
9018735	Dissolved Silicon (Si)	2018/06/11	98	80 - 120	98	80 - 120	<50	ug/L	1.0	20
9018735	Dissolved Silver (Ag)	2018/06/11	100	80 - 120	98	80 - 120	<0.0050	ug/L	NC	20
9018735	Dissolved Strontium (Sr)	2018/06/11	NC	80 - 120	95	80 - 120	<0.050	ug/L	1.7	20
9018735	Dissolved Thallium (Tl)	2018/06/11	102	80 - 120	104	80 - 120	<0.0020	ug/L	NC	20
9018735	Dissolved Tin (Sn)	2018/06/11	98	80 - 120	98	80 - 120	<0.20	ug/L	NC	20
9018735	Dissolved Titanium (Ti)	2018/06/11	98	80 - 120	99	80 - 120	<0.50	ug/L	4.4	20
9018735	Dissolved Uranium (U)	2018/06/11	105	80 - 120	107	80 - 120	<0.0020	ug/L	0.87	20
9018735	Dissolved Vanadium (V)	2018/06/11	103	80 - 120	100	80 - 120	<0.20	ug/L	9.6	20
9018735	Dissolved Zinc (Zn)	2018/06/11	96	80 - 120	98	80 - 120	<0.10	ug/L	0.74	20

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QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9018735	Dissolved Zirconium (Zr)	2018/06/11	97	80 - 120	99	80 - 120	<0.10	ug/L	19	20
9018943	Dissolved Organic Carbon (C)	2018/06/08	93	80 - 120	98	80 - 120	<0.50	mg/L	13	20
9018945	Total Organic Carbon (C)	2018/06/08	87	80 - 120	98	80 - 120	<0.50	mg/L	NC	20
9018992	Nitrate plus Nitrite (N)	2018/06/08	119	80 - 120	103	80 - 120	<0.0020	mg/L	1.7	25
9018994	Nitrite (N)	2018/06/08			101	80 - 120	<0.0020	mg/L		
9019021	Total Dissolved Solids	2018/06/11	100	80 - 120	83	80 - 120	<10	mg/L	1.5	20
9019027	Total Ammonia (N)	2018/06/08	110	80 - 120	93	80 - 120	<0.0050	mg/L	18	20
9019078	pH	2018/06/08			101	97 - 103				
9019081	Alkalinity (PP as CaCO3)	2018/06/08					<0.50	mg/L		
9019081	Alkalinity (Total as CaCO3)	2018/06/08			91	80 - 120	<0.50	mg/L		
9019081	Bicarbonate (HCO3)	2018/06/08					<0.50	mg/L		
9019081	Carbonate (CO3)	2018/06/08					<0.50	mg/L		
9019081	Hydroxide (OH)	2018/06/08					<0.50	mg/L		
9019082	Conductivity	2018/06/08			101	80 - 120	<1.0	uS/cm		
9019085	pH	2018/06/09			101	97 - 103			0.57	20
9019088	Alkalinity (PP as CaCO3)	2018/06/08					<0.50	mg/L		
9019088	Alkalinity (Total as CaCO3)	2018/06/08	94	80 - 120	91	80 - 120	<0.50	mg/L		
9019088	Bicarbonate (HCO3)	2018/06/08					<0.50	mg/L		
9019088	Carbonate (CO3)	2018/06/08					<0.50	mg/L		
9019088	Hydroxide (OH)	2018/06/08					<0.50	mg/L		
9019089	Conductivity	2018/06/08			101	80 - 120	<1.0	uS/cm		
9020561	Total Suspended Solids	2018/06/12			96	80 - 120	<1.0	mg/L		
9020847	Total Dissolved Solids	2018/06/13	96	80 - 120	97	80 - 120	<10	mg/L	15	20
9021999	Total Suspended Solids	2018/06/13			97	80 - 120	<1.0	mg/L		
9022000	Total Suspended Solids	2018/06/13			99	80 - 120	<1.0	mg/L		
9022208	Dissolved Chloride (Cl)	2018/06/11			98	80 - 120	0.54, RDL=0.50	mg/L	NC	20
9022212	Dissolved Sulphate (SO4)	2018/06/11			106	80 - 120	<0.50	mg/L	13	20
9022230	Dissolved Chloride (Cl)	2018/06/11			100	80 - 120	<0.50	mg/L	NC	20
9022241	Dissolved Sulphate (SO4)	2018/06/11			103	80 - 120	<0.50	mg/L	0.75	20

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QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9022656	Fluoride (F)	2018/06/12	108	80 - 120	100	80 - 120	<0.010	mg/L	0	20

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

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

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

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

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LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: GOLD CORP COFFEE CREEK-SW
Site Location: COFFEE CREEK - SURFACE WATER

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Andy Lu, Ph.D., P.Chem., Scientific Specialist



Mandheraj Chana, Junior Project Manager

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



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INVOICE TO:		Report Information		Project Information	
Company Name	#3604 LORAX ENVIRONMENTAL SERVICES LTD.	Company Name	David Flather	Quotation #	B40231
Contact Name	Aida Piaseczny	Contact Name	David Flather	P.O. #	
Address	2289 BARRARD STREET VANCOUVER BC V6J 3H9	Address		Project #	Gold Corp Coffee Creek-SW
Phone	(604) 688-7173 Fax: (604) 688-7175	Phone		Project Name	B844935_COC
Email	aida.piaseczny@lorax.ca; shukling.ng@lorax.ca	Email	David.Flather@lorax.ca	Site #	
				Sampled By	



Bottle Order #: 563731
 Project Manager: Diana Cruz

Regulatory Criteria	Special Instructions	Analysis Requested										Turnaround Time (TAT) Required		
	<i>Red bottles (for lead) don't have preservative. Plz disregard that box re: preservative.</i>	Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	Routine (Alk-L, EC-L, NH4-L, pH, TDS)	TSS-Low Level	Anions (L, Cl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	Please provide advance notice for rush projects	
				X	X	X	X	X	X	X	X	X	Regular (Standard) TAT (will be applied if Rush TAT is not specified) <input checked="" type="checkbox"/>	
				X	X	X	X	X	X	X	X	X	Standard TAT = 5-7 Working days for most tests.	
				X	X	X	X	X	X	X	X	X	Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.	
				X	X	X	X	X	X	X	X	X	Job Specific Rush TAT (if applies to entire submission)	
				X	X	X	X	X	X	X	X	X	Date Required: _____ Time Required: _____	
				X	X	X	X	X	X	X	X	X	Rush Confirmation Number: _____ (not lab for #)	

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 10°C) from time of sampling until delivery to maxxam

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	Routine (Alk-L, EC-L, NH4-L, pH, TDS)	TSS-Low Level	Anions (L, Cl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	# of Bottles	Comments
SID#162743	CC-0.5	June 5/18	1115h	w			X	X	X	X	X	X	X	X	X	13	RECEIVED IN WHITEHORSE BY: <i>ayom@1330</i> 2018-06-06 TEMP: 7 1 8 1 8 9 7 9 5 7 6
SID#162744	CC-1.5		1220h	w			X	X	X	X	X	X	X	X	X		
SID#162745	CC-3.5		1130h	w			X	X	X	X	X	X	X	X	X		
SID#162746	CC-4.5		1040h	w			X	X	X	X	X	X	X	X	X		
SID#162747	HC-2.5		1245h	w			X	X	X	X	X	X	X	X	X		
SID#162748	HC-5.0		1315L	w			X	X	X	X	X	X	X	X	X		
SID#149895	YT-24		1335L	w			X	X	X	X	X	X	X	X	X		
SID#149896	YT-24 Mix	June 4/18	1030h	w			X	X	X	X	X	X	X	X	X		
SID#149897	Coffee Mix	June 4/18	1000h	w			X	X	X	X	X	X	X	X	X		
SID#149898	Halfway Mix	June 4/18	1100h	w			X	X	X	X	X	X	X	X	X		

RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# Jars used and not submitted	Lab Use Only	
<i>Chris Leifer</i>	June 6/18	0800h	<i>David Flather</i>	2/17/06/07	14:00	<i>1/1</i>	Time Sensitive <input checked="" type="checkbox"/>	Temperature (°C) on Receipt: <i>7.1/6.1</i>
* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.							Custom Seal Intact on Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.							White: Maxxam Yellow: Client	

6.6.6/7.7.6

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INVOICE TO:		Report Information		Project Information	
Company Name	#3604 LORAX ENVIRONMENTAL SERVICES LTD.	Company Name	David Flather	Quotation #	B40231
Contact Name	Aida Piaseczny	Contact Name	David Flather	P.O. #	
Address	2289 BURRARD STREET VANCOUVER BC V6J 3H9	Address		Project #	Gold Corp Coffee Creek-SW
Phone	(604) 688-7173 Fax: (604) 688-7175	Phone		Project Name	
Email	aida.piaseczny@lorax.ca; shukling.ng@lorax.ca	Email	David.Flather@lorax.ca	Site #	
				Sampled By	



8844935_COC

Order #:



553731

Project Manager

Diana Cruz

Regulatory Criteria	Special Instructions	Analysis Requested										Turnaround Time (TAT) Required		
		Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	Routine (Alk-LI, EC-LI, NH4-LI, pH, TDS)	TSS-Low Level	Anions (LI, Cl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	Please provide advance notice for rush projects	
				X	X	X	X	X	X	X	X	X	Regular (Standard) TAT (will be applied if Rush TAT is not specified) Standard TAT = 5-7 Working days for most tests. Please note, Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.	
		Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form											Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____ Rush Confirmation Number: _____ (call lab for #)	

Samples must be kept cool (< 10°C) from time of sampling until delivery to maxxam												# of Bottles	Comments				
Sample Barcodes Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	Routine (Alk-LI, EC-LI, NH4-LI, pH, TDS)	TSS-Low Level	Anions (LI, Cl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	# of Bottles	Comments
1 SID#149899	Latte Mix	June 5/18	11:55h	W			X	X	X	X	X	X	X	X	X	13	
2 SID#208506	Dup			W													
3																	RECEIVED IN WHITEHORSE BY: <i>shyma@1330</i>
4																	2018-06-06
5																	TEMP: 7/8/8
6																	9 7 9
7																	5 7 6
8																	
9																	
10																	

RELINQUISHED BY: (Signature/Print) <i>Chris Leade</i>	Date: (YY/MM/DD) June 6/18	Time 08:00h	RECEIVED BY: (Signature/Print) <i>DAVID FLATHER</i>	Date: (YY/MM/DD) 2018/06/07	Time 14:00	# jars used and not submitted NA	Time Sensitive <input type="checkbox"/>	Temperature (°C) on Receipt 6.6, 6.7, 7.6	Custody Seal/Intact on Cooler? <input type="checkbox"/> Yes <input type="checkbox"/> No
--	-------------------------------	----------------	--	--------------------------------	---------------	-------------------------------------	--	--	--

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.
 * IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

ab

Your Project #: Gold Corp Coffee Creek-SW

Attention: David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
2289 BURRARD STREET
VANCOUVER, BC
CANADA V6J 3H9

Your C.O.C. #: 555908-01-01, 555908-02-01, 555908-03-01, 555908-04-01, 555908-05-01

Report Date: 2018/07/03
Report #: R2582461
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B848821

Received: 2018/06/18, 10:40

Sample Matrix: Water
Samples Received: 34

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity - Low Level	32	N/A	2018/06/21	BBY6SOP-00026	SM 22 2320 B m
Alkalinity - Low Level	2	N/A	2018/06/24	BBY6SOP-00026	SM 22 2320 B m
Chloride - Low Level	34	N/A	2018/06/21	BBY6SOP-00011	SM 22 4500-Cl- E m
Carbon (DOC) - field filtered/preserved (2)	34	N/A	2018/06/22	BBY6SOP-00003	SM 22 5310 C m
Conductance - Low Level	32	N/A	2018/06/21	BBY6SOP-00026	SM 22 2510 B m
Conductance - Low Level	2	N/A	2018/06/24	BBY6SOP-00026	SM 22 2510 B m
Fluoride - Low Level	34	N/A	2018/06/21	BBY6SOP-00048	SM 22 4500-F C m
Hardness Total (calculated as CaCO3) (3)	3	N/A	2018/06/21	BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO3) (3)	13	N/A	2018/06/22	BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO3) (3)	18	N/A	2018/06/26	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3)	32	N/A	2018/06/21	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3)	2	N/A	2018/06/26	BBY WI-00033	Auto Calc
Mercury (Dissolved) by CVAf	19	N/A	2018/06/20	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Dissolved) by CVAf	15	N/A	2018/06/21	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Total) by CVAf	5	2018/06/20	2018/06/20	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Total) by CVAf	29	2018/06/21	2018/06/21	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	32	N/A	2018/06/21	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	2	N/A	2018/06/26	BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (dissolved)	32	N/A	2018/06/20	BBY7SOP-00002	EPA 6020b R2 m
Elements by ICPMS Low Level (dissolved)	2	N/A	2018/06/26	BBY7SOP-00002	EPA 6020b R2 m
Elements by ICPMS Digested LL (total)	13	2018/06/20	2018/06/21	BBY7SOP-00003,	EPA 6020b R2 m
Elements by ICPMS Digested LL (total)	5	2018/06/20	2018/06/25	BBY7SOP-00003,	EPA 6020b R2 m
Elements by ICPMS Digested LL (total)	13	2018/06/20	2018/06/26	BBY7SOP-00003,	EPA 6020b R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total)	3	N/A	2018/06/21	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (total)	13	N/A	2018/06/22	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (total)	18	N/A	2018/06/26	BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (total)	3	N/A	2018/06/20	BBY7SOP-00002	EPA 6020b R2 m

Your Project #: Gold Corp Coffee Creek-SW

Attention: David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
2289 BURRARD STREET
VANCOUVER, BC
CANADA V6J 3H9

Your C.O.C. #: 555908-01-01, 555908-02-01, 555908-03-01, 555908-04-01, 555908-05-01

Report Date: 2018/07/03
Report #: R2582461
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B848821

Received: 2018/06/18, 10:40

Sample Matrix: Water
Samples Received: 34

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Ammonia-N Low Level (Preserved)	34	N/A	2018/06/20	BBY6SOP-00009	EPA 350.1 m
Nitrate+Nitrite (N) (low level)	34	N/A	2018/06/20	BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrite (N) (low level)	34	N/A	2018/06/20	BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrogen - Nitrate (as N) Low Level Calc	34	N/A	2018/06/21	BBY WI-00033	Auto Calc
ORP Analysis on Water by ARD LAB	34	N/A	2018/06/21	BBY0SOP-00004	SM 22 2580 B
Filter and HNO3 Preserve for Metals	33	N/A	2018/06/20	BBY7 WI-00004	BCMOE Reqs 08/14
pH Water (4)	32	N/A	2018/06/21	BBY6SOP-00026	SM 22 4500-H+ B m
pH Water (4)	2	N/A	2018/06/24	BBY6SOP-00026	SM 22 4500-H+ B m
Sulphate - Low Level	33	N/A	2018/06/27	BBY6SOP-00017	SM 22 4500-SO42- E m
Sulphate - Low Level	1	N/A	2018/06/29	BBY6SOP-00017	SM 22 4500-SO42- E m
Total Dissolved Solids (Filt. Residue)	12	2018/06/21	2018/06/23	BBY6SOP-00033	SM 22 2540 C m
Total Dissolved Solids (Filt. Residue)	22	2018/06/22	2018/06/23	BBY6SOP-00033	SM 22 2540 C m
Carbon (Total Organic) (5)	34	N/A	2018/06/22	BBY6SOP-00003	SM 22 5310 C m
Total Suspended Solids-Low Level	1	2018/06/20	2018/06/21	BBY6SOP-00034	SM 22 2540 D
Total Suspended Solids-Low Level	33	2018/06/21	2018/06/22	BBY6SOP-00034	SM 22 2540 D
Free (WAD) Cyanide (1)	34	N/A	2018/06/25	CAM SOP-00457	OMOE E3015 5 m

Remarks:

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Maxxam's profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Maxxam in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected.

Maxxam Analytics' liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Maxxam has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Maxxam, unless otherwise

Your Project #: Gold Corp Coffee Creek-SW

Attention: David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
2289 BURRARD STREET
VANCOUVER, BC
CANADA V6J 3H9

Your C.O.C. #: 555908-01-01, 555908-02-01, 555908-03-01, 555908-04-01, 555908-05-01

Report Date: 2018/07/03
Report #: R2582461
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B848821

Received: 2018/06/18, 10:40
agreed in writing.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

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

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

- (1) This test was performed by Maxxam Ontario (From Burnaby)
- (2) DOC present in the sample should be considered as non-purgeable DOC.
- (3) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).
- (4) The BC-MOE and APHA Standard Method require pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the BC-MOE/APHA Standard Method holding time.
- (5) TOC present in the sample should be considered as non-purgeable TOC.

Encryption Key



Maxxam

03 Jul 2018 19:51:14

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Diana Cruz, Junior Project Manager

Email: DCruz@maxxam.ca

Phone# (604) 734 7276

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This report has been generated and distributed using a secure automated process.

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Job #: B848821
Report Date: 2018/07/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TR3182			TR3182		TR3183		
Sampling Date		2018/06/16 12:31			2018/06/16 12:31		2018/06/16 14:55		
COC Number		555908-01-01			555908-01-01		555908-01-01		
	UNITS	CC-0.5	RDL	QC Batch	CC-0.5 Lab-Dup	QC Batch	CC-1.0	RDL	QC Batch
Parameter									
ORP	mV	297		9033860	299	9033860	289		9033860
Calculated Parameters									
Filter and HNO3 Preservation	N/A	LAB		9031787			LAB		9031787
Nitrate (N)	mg/L	0.105	0.0020	9030795			0.547	0.0020	9030795
Misc. Inorganics									
Fluoride (F)	mg/L	0.056	0.010	9033986			0.080	0.010	9033986
Free Cyanide	mg/L	<0.0010	0.0010	9041541			<0.0010	0.0010	9041541
Dissolved Organic Carbon (C)	mg/L	19.4	0.50	9036009			7.94	0.50	9036008
Alkalinity (Total as CaCO3)	mg/L	30.0	0.50	9034704			198	0.50	9034704
Total Organic Carbon (C)	mg/L	20.1	0.50	9036013			8.02	0.50	9036013
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	9034704			<0.50	0.50	9034704
Bicarbonate (HCO3)	mg/L	36.6	0.50	9034704			241	0.50	9034704
Carbonate (CO3)	mg/L	<0.50	0.50	9034704			<0.50	0.50	9034704
Hydroxide (OH)	mg/L	<0.50	0.50	9034704			<0.50	0.50	9034704
Anions									
Dissolved Sulphate (SO4)	mg/L	22.8	0.50	9043098			142	0.50	9043093
Dissolved Chloride (Cl)	mg/L	1.1	0.50	9035705			0.60	0.50	9035705
Nutrients									
Total Ammonia (N)	mg/L	0.045	0.0050	9032514			<0.0050	0.0050	9032514
Nitrate plus Nitrite (N)	mg/L	0.107	0.0020	9032986			0.547	0.0020	9032986
Nitrite (N)	mg/L	0.0020	0.0020	9032988			<0.0020	0.0020	9032988
Physical Properties									
Conductivity	uS/cm	109	1.0	9034694			612	1.0	9034694
pH	pH	7.38		9034692			8.30		9034692
Physical Properties									
Total Suspended Solids	mg/L	2.1	1.0	9034141			1.3	1.0	9034141
Total Dissolved Solids	mg/L	94	10	9034470			398	10	9034470
RDL = Reportable Detection Limit									
Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B848821
Report Date: 2018/07/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TR3183			TR3184		TR3185		
Sampling Date		2018/06/16 14:55			2018/06/16 15:13		2018/06/16 12:57		
COC Number		555908-01-01			555908-01-01		555908-01-01		
	UNITS	CC-1.0 Lab-Dup	RDL	QC Batch	CC-1.5	QC Batch	CC-3.5	RDL	QC Batch
Parameter									
ORP	mV				295	9033860	292		9033860
Calculated Parameters									
Filter and HNO3 Preservation	N/A				LAB	9031787	LAB		9031787
Nitrate (N)	mg/L				0.151	9030795	0.148	0.0020	9030795
Misc. Inorganics									
Fluoride (F)	mg/L				0.045	9033986	0.048	0.010	9033986
Free Cyanide	mg/L				<0.0010	9041541	<0.0010	0.0010	9041541
Dissolved Organic Carbon (C)	mg/L				15.3	9036008	15.2	0.50	9036009
Alkalinity (Total as CaCO3)	mg/L				52.4	9032633	56.0	0.50	9032633
Total Organic Carbon (C)	mg/L				16.0	9036013	17.8	0.50	9036012
Alkalinity (PP as CaCO3)	mg/L				<0.50	9032633	<0.50	0.50	9032633
Bicarbonate (HCO3)	mg/L				63.9	9032633	68.3	0.50	9032633
Carbonate (CO3)	mg/L				<0.50	9032633	<0.50	0.50	9032633
Hydroxide (OH)	mg/L				<0.50	9032633	<0.50	0.50	9032633
Anions									
Dissolved Sulphate (SO4)	mg/L	142	0.50	9043093	42.6	9043093	48.8	0.50	9043093
Dissolved Chloride (Cl)	mg/L				0.71	9035702	0.83	0.50	9035702
Nutrients									
Total Ammonia (N)	mg/L				0.0070	9032514	0.088	0.0050	9032514
Nitrate plus Nitrite (N)	mg/L				0.154	9032979	0.150	0.0020	9032979
Nitrite (N)	mg/L				0.0021	9032982	0.0021	0.0020	9032982
Physical Properties									
Conductivity	uS/cm				192	9032635	214	1.0	9032635
pH	pH				7.67	9032627	7.73		9032627
Physical Properties									
Total Suspended Solids	mg/L				1.7	9034141	3.7	1.0	9034141
Total Dissolved Solids	mg/L				146	9034470	142	10	9034470
RDL = Reportable Detection Limit									
Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B848821
Report Date: 2018/07/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TR3186			TR3186			TR3187		
Sampling Date		2018/06/16 10:35			2018/06/16 10:35			2018/06/16 16:19		
COC Number		555908-01-01			555908-01-01			555908-01-01		
	UNITS	CC-4.5	RDL	QC Batch	CC-4.5 Lab-Dup	RDL	QC Batch	CC-6.0	RDL	QC Batch
Parameter										
ORP	mV	302		9033860				302		9033860
Calculated Parameters										
Filter and HNO3 Preservation	N/A	LAB		9031787				LAB		9031787
Nitrate (N)	mg/L	0.119	0.0020	9030795				0.0270	0.0020	9030795
Misc. Inorganics										
Fluoride (F)	mg/L	0.055	0.010	9033986				0.026	0.010	9033986
Free Cyanide	mg/L	<0.0010	0.0010	9041541				0.0012	0.0010	9041489
Dissolved Organic Carbon (C)	mg/L	17.6	0.50	9036008				16.2	0.50	9036009
Alkalinity (Total as CaCO3)	mg/L	35.2	0.50	9037500				4.96	0.50	9032633
Total Organic Carbon (C)	mg/L	20.0	0.50	9036013				17.8	0.50	9036012
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	9037500				<0.50	0.50	9032633
Bicarbonate (HCO3)	mg/L	42.9	0.50	9037500				6.05	0.50	9032633
Carbonate (CO3)	mg/L	<0.50	0.50	9037500				<0.50	0.50	9032633
Hydroxide (OH)	mg/L	<0.50	0.50	9037500				<0.50	0.50	9032633
Anions										
Dissolved Sulphate (SO4)	mg/L	27.4	0.50	9043089	30.0	0.50	9043089	<0.50	0.50	9043089
Dissolved Chloride (Cl)	mg/L	0.84	0.50	9035705				0.72	0.50	9035702
Nutrients										
Total Ammonia (N)	mg/L	0.013	0.0050	9032514				<0.0050	0.0050	9032514
Nitrate plus Nitrite (N)	mg/L	0.119	0.0020	9032983				0.0314	0.0020	9032979
Nitrite (N)	mg/L	<0.0020	0.0020	9032985				0.0044	0.0020	9032982
Physical Properties										
Conductivity	uS/cm	131	1.0	9037496				20.3	1.0	9032635
pH	pH	7.54		9037490				6.51		9032627
Physical Properties										
Total Suspended Solids	mg/L	2.8	1.0	9034141				1.4	1.0	9034141
Total Dissolved Solids	mg/L	102	10	9034470				20	10	9034470
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B848821
Report Date: 2018/07/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TR3187			TR3188	TR3189		
Sampling Date		2018/06/16 16:19			2018/06/16 15:52	2018/06/16 14:30		
COC Number		555908-01-01			555908-01-01	555908-01-01		
	UNITS	CC-6.0 Lab-Dup	RDL	QC Batch	CC-A	CC-B	RDL	QC Batch
Parameter								
ORP	mV				306	309		9033860
Calculated Parameters								
Filter and HNO3 Preservation	N/A				LAB	LAB		9031787
Nitrate (N)	mg/L				0.0702	0.164	0.0020	9030795
Misc. Inorganics								
Fluoride (F)	mg/L				0.032	0.048	0.010	9033986
Free Cyanide	mg/L	<0.0010	0.0010	9041489	<0.0010	<0.0010	0.0010	9041489
Dissolved Organic Carbon (C)	mg/L				16.8	13.1	0.50	9036008
Alkalinity (Total as CaCO3)	mg/L				15.3	57.2	0.50	9032633
Total Organic Carbon (C)	mg/L				18.5	15.1	0.50	9036013
Alkalinity (PP as CaCO3)	mg/L				<0.50	<0.50	0.50	9032633
Bicarbonate (HCO3)	mg/L				18.6	69.7	0.50	9032633
Carbonate (CO3)	mg/L				<0.50	<0.50	0.50	9032633
Hydroxide (OH)	mg/L				<0.50	<0.50	0.50	9032633
Anions								
Dissolved Sulphate (SO4)	mg/L				14.0	49.1	0.50	9043089
Dissolved Chloride (Cl)	mg/L				0.73	0.89	0.50	9035702
Nutrients								
Total Ammonia (N)	mg/L				<0.0050	<0.0050	0.0050	9032514
Nitrate plus Nitrite (N)	mg/L				0.0728	0.171	0.0020	9032979
Nitrite (N)	mg/L				0.0026	0.0077	0.0020	9032982
Physical Properties								
Conductivity	uS/cm				70.3	209	1.0	9032635
pH	pH				7.10	7.77		9032627
Physical Properties								
Total Suspended Solids	mg/L				2.9	43.8	1.0	9034141
Total Dissolved Solids	mg/L				60	144	10	9034470
RDL = Reportable Detection Limit								
Lab-Dup = Laboratory Initiated Duplicate								

Maxxam Job #: B848821
Report Date: 2018/07/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TR3189			TR3192			TR3193		
Sampling Date		2018/06/16 14:30			2018/06/16 11:26			2018/06/16 11:50		
COC Number		555908-01-01			555908-02-01			555908-02-01		
	UNITS	CC-B Lab-Dup	RDL	QC Batch	CC-X	RDL	QC Batch	LATTE MIX	RDL	QC Batch
Parameter										
ORP	mV				310		9033860	300		9033860
Calculated Parameters										
Filter and HNO3 Preservation	N/A				LAB		9031787	LAB		9031787
Nitrate (N)	mg/L				0.119	0.0020	9030795	0.100	0.0020	9030795
Misc. Inorganics										
Fluoride (F)	mg/L				0.058	0.010	9033989	0.056	0.010	9033989
Free Cyanide	mg/L				<0.0010	0.0010	9041489	<0.0010	0.0010	9041541
Dissolved Organic Carbon (C)	mg/L				17.3	0.50	9036008	19.7	0.50	9036009
Alkalinity (Total as CaCO3)	mg/L				34.8	0.50	9032633	32.6	0.50	9034704
Total Organic Carbon (C)	mg/L	15.6	0.50	9036013	20.2	0.50	9036012	22.9	0.50	9036012
Alkalinity (PP as CaCO3)	mg/L				<0.50	0.50	9032633	<0.50	0.50	9034704
Bicarbonate (HCO3)	mg/L				42.4	0.50	9032633	39.8	0.50	9034704
Carbonate (CO3)	mg/L				<0.50	0.50	9032633	<0.50	0.50	9034704
Hydroxide (OH)	mg/L				<0.50	0.50	9032633	<0.50	0.50	9034704
Anions										
Dissolved Sulphate (SO4)	mg/L				28.4	0.50	9043093	26.0	0.50	9043093
Dissolved Chloride (Cl)	mg/L				0.89	0.50	9035702	1.3	0.50	9035705
Nutrients										
Total Ammonia (N)	mg/L				0.014	0.0050	9032514	0.071	0.0050	9032514
Nitrate plus Nitrite (N)	mg/L				0.123	0.0020	9032979	0.100	0.0020	9032986
Nitrite (N)	mg/L				0.0040	0.0020	9032982	<0.0020	0.0020	9032988
Physical Properties										
Conductivity	uS/cm				132	1.0	9032635	124	1.0	9034694
pH	pH				7.48		9032627	7.49		9034692
Physical Properties										
Total Suspended Solids	mg/L				2.8	1.0	9034141	2.5 (1)	1.1	9034141
Total Dissolved Solids	mg/L				104	10	9034470	98	10	9034470
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate (1) RDL raised due to limited initial sample amount.										

Maxxam Job #: B848821
Report Date: 2018/07/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TR3193			TR3194			TR3194		
Sampling Date		2018/06/16 11:50			2018/06/17 09:45			2018/06/17 09:45		
COC Number		555908-02-01			555908-02-01			555908-02-01		
	UNITS	LATTE MIX Lab-Dup	RDL	QC Batch	HC-2.5	RDL	QC Batch	HC-2.5 Lab-Dup	RDL	QC Batch
Parameter										
ORP	mV	305		9033860	304		9033860			
Calculated Parameters										
Filter and HNO3 Preservation	N/A				LAB		9031787			
Nitrate (N)	mg/L				0.244	0.0020	9030795			
Misc. Inorganics										
Fluoride (F)	mg/L	0.054	0.010	9033989	0.048	0.010	9033989			
Free Cyanide	mg/L				<0.0010	0.0010	9041541			
Dissolved Organic Carbon (C)	mg/L				15.9	0.50	9036009			
Alkalinity (Total as CaCO3)	mg/L				47.0	0.50	9034704			
Total Organic Carbon (C)	mg/L				17.6	0.50	9036012			
Alkalinity (PP as CaCO3)	mg/L				<0.50	0.50	9034704			
Bicarbonate (HCO3)	mg/L				57.3	0.50	9034704			
Carbonate (CO3)	mg/L				<0.50	0.50	9034704			
Hydroxide (OH)	mg/L				<0.50	0.50	9034704			
Anions										
Dissolved Sulphate (SO4)	mg/L				22.0	0.50	9043093			
Dissolved Chloride (Cl)	mg/L				0.80	0.50	9035705			
Nutrients										
Total Ammonia (N)	mg/L				<0.0050	0.0050	9032514	<0.0050	0.0050	9032514
Nitrate plus Nitrite (N)	mg/L				0.244	0.0020	9032986			
Nitrite (N)	mg/L				<0.0020	0.0020	9032988			
Physical Properties										
Conductivity	uS/cm				137	1.0	9034694			
pH	pH				7.66		9034692			
Physical Properties										
Total Suspended Solids	mg/L				<1.0	1.0	9034141			
Total Dissolved Solids	mg/L				106	10	9034470			
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B848821
Report Date: 2018/07/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TR3195		TR3196	TR3197	TR3198		
Sampling Date		2018/06/17 07:45		2018/06/17 08:35	2018/06/17 08:55	2018/06/17 09:20		
COC Number		555908-02-01		555908-02-01	555908-02-01	555908-02-01		
	UNITS	HC-5.0	QC Batch	HC-A	HC-B	HC-C	RDL	QC Batch
Parameter								
ORP	mV	308	9033860	305	309	309		9033860
Calculated Parameters								
Filter and HNO3 Preservation	N/A	LAB	9031787	LAB	LAB	LAB		9031787
Nitrate (N)	mg/L	0.167	9030795	0.169	0.205	0.218	0.0020	9030795
Misc. Inorganics								
Fluoride (F)	mg/L	0.061	9033989	0.051	0.050	0.053	0.010	9033989
Free Cyanide	mg/L	<0.0010	9041541	<0.0010	<0.0010	<0.0010	0.0010	9041541
Dissolved Organic Carbon (C)	mg/L	14.8	9036008	13.0	13.4	13.2	0.50	9036009
Alkalinity (Total as CaCO3)	mg/L	54.3	9034704	54.4	50.9	51.7	0.50	9034704
Total Organic Carbon (C)	mg/L	16.4	9036012	14.1	15.3	16.2	0.50	9036012
Alkalinity (PP as CaCO3)	mg/L	<0.50	9034704	<0.50	<0.50	<0.50	0.50	9034704
Bicarbonate (HCO3)	mg/L	66.2	9034704	66.3	62.1	63.1	0.50	9034704
Carbonate (CO3)	mg/L	<0.50	9034704	<0.50	<0.50	<0.50	0.50	9034704
Hydroxide (OH)	mg/L	<0.50	9034704	<0.50	<0.50	<0.50	0.50	9034704
Anions								
Dissolved Sulphate (SO4)	mg/L	30.2	9043093	31.2	27.8	28.3	0.50	9043098
Dissolved Chloride (Cl)	mg/L	0.62	9035705	0.66	0.65	0.96	0.50	9035705
Nutrients								
Total Ammonia (N)	mg/L	<0.0050	9032514	<0.0050	0.030	0.12	0.0050	9032514
Nitrate plus Nitrite (N)	mg/L	0.167	9032986	0.169	0.205	0.218	0.0020	9032986
Nitrite (N)	mg/L	<0.0020	9032988	<0.0020	<0.0020	<0.0020	0.0020	9032988
Physical Properties								
Conductivity	uS/cm	173	9034694	176	160	158	1.0	9034694
pH	pH	7.76	9034692	7.75	7.72	7.69		9034692
Physical Properties								
Total Suspended Solids	mg/L	1.3	9034141	1.3	<1.0	1.0	1.0	9034141
Total Dissolved Solids	mg/L	132	9034470	118	102	106	10	9034470
RDL = Reportable Detection Limit								

Maxxam Job #: B848821
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LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TR3198			TR3199		TR3200		
Sampling Date		2018/06/17 09:20			2018/06/17 09:23		2018/06/17 13:23		
COC Number		555908-02-01			555908-02-01		555908-03-01		
	UNITS	HC-C Lab-Dup	RDL	QC Batch	HALFWAY MIX	QC Batch	IC-0.5	RDL	QC Batch
Parameter									
ORP	mV				306	9033860	309		9033860
Calculated Parameters									
Filter and HNO3 Preservation	N/A				LAB	9031787	LAB		9031787
Nitrate (N)	mg/L				0.0184	9030795	0.0868	0.0020	9030795
Misc. Inorganics									
Fluoride (F)	mg/L				0.100	9033989	0.069	0.010	9033989
Free Cyanide	mg/L				<0.0010	9041489	<0.0010	0.0010	9041541
Dissolved Organic Carbon (C)	mg/L				3.42	9036008	19.2	0.50	9036008
Alkalinity (Total as CaCO3)	mg/L				70.7	9032654	26.7	0.50	9032654
Total Organic Carbon (C)	mg/L				4.68	9036012	20.8	0.50	9036013
Alkalinity (PP as CaCO3)	mg/L				<0.50	9032654	<0.50	0.50	9032654
Bicarbonate (HCO3)	mg/L				86.3	9032654	32.5	0.50	9032654
Carbonate (CO3)	mg/L				<0.50	9032654	<0.50	0.50	9032654
Hydroxide (OH)	mg/L				<0.50	9032654	<0.50	0.50	9032654
Anions									
Dissolved Sulphate (SO4)	mg/L				23.8	9043093	29.6	0.50	9043098
Dissolved Chloride (Cl)	mg/L				<0.50	9035702	0.90	0.50	9035702
Nutrients									
Total Ammonia (N)	mg/L				0.0050	9032514	0.0060	0.0050	9032517
Nitrate plus Nitrite (N)	mg/L				0.0206	9032983	0.0906	0.0020	9032979
Nitrite (N)	mg/L				0.0022	9032985	0.0038	0.0020	9032982
Physical Properties									
Conductivity	uS/cm				183	9032655	118	1.0	9032655
pH	pH				7.95	9032641	7.41		9032641
Physical Properties									
Total Suspended Solids	mg/L				18.6	9034141	1.9	1.0	9034141
Total Dissolved Solids	mg/L	114	10	9034470	100	9034470	104	10	9034470
RDL = Reportable Detection Limit									
Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B848821
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LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TR3201		TR3202		TR3203			TR3203	
Sampling Date		2018/06/17 13:10		2018/06/17 13:50		2018/06/17 14:20			2018/06/17 14:20	
COC Number		555908-03-01		555908-03-01		555908-03-01			555908-03-01	
	UNITS	IC-1.5	QC Batch	IC-2.5	QC Batch	IC-3.0	RDL	QC Batch	IC-3.0 Lab-Dup	QC Batch

Parameter										
ORP	mV	310	9033860	309	9033860	303		9033860	310	9033860

Calculated Parameters										
Filter and HNO3 Preservation	N/A	LAB	9031787	LAB	9031787	LAB		9031787		
Nitrate (N)	mg/L	0.0640	9030795	0.0449	9030795	0.343	0.0020	9030795		

Misc. Inorganics										
Fluoride (F)	mg/L	0.041	9033989	0.035	9033989	0.059	0.010	9033989		
Free Cyanide	mg/L	<0.0010	9041489	<0.0010	9041541	<0.0010	0.0010	9041541		
Dissolved Organic Carbon (C)	mg/L	16.2	9036008	19.3	9036008	15.4	0.50	9036008		
Alkalinity (Total as CaCO3)	mg/L	27.7	9032633	8.94	9032633	53.5	0.50	9032654		
Total Organic Carbon (C)	mg/L	18.1	9036012	20.3	9036013	17.0	0.50	9036013		
Alkalinity (PP as CaCO3)	mg/L	<0.50	9032633	<0.50	9032633	<0.50	0.50	9032654		
Bicarbonate (HCO3)	mg/L	33.8	9032633	10.9	9032633	65.3	0.50	9032654		
Carbonate (CO3)	mg/L	<0.50	9032633	<0.50	9032633	<0.50	0.50	9032654		
Hydroxide (OH)	mg/L	<0.50	9032633	<0.50	9032633	<0.50	0.50	9032654		

Anions										
Dissolved Sulphate (SO4)	mg/L	2.32	9043093	<0.50	9043093	48.8	0.50	9043093		
Dissolved Chloride (Cl)	mg/L	2.3	9035702	0.85	9035702	0.68	0.50	9035702		

Nutrients										
Total Ammonia (N)	mg/L	0.015	9032517	<0.0050	9032517	0.023	0.0050	9032517		
Nitrate plus Nitrite (N)	mg/L	0.0661	9032979	0.0483	9032979	0.346	0.0020	9032979		
Nitrite (N)	mg/L	0.0021	9032982	0.0034	9032982	0.0024	0.0020	9032982		

Physical Properties										
Conductivity	uS/cm	78.0	9032635	30.9	9032635	210	1.0	9032655		
pH	pH	7.48	9032627	6.87	9032627	7.89		9032641		

Physical Properties										
Total Suspended Solids	mg/L	1.9	9034141	1.4	9034304	7.9	1.0	9034304		
Total Dissolved Solids	mg/L	66	9034470	40	9034470	160	10	9034737		

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Maxxam Job #: B848821
Report Date: 2018/07/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TR3204		TR3205		TR3206		
Sampling Date		2018/06/17 14:45		2018/06/17 11:45		2018/06/17 12:10		
COC Number		555908-03-01		555908-03-01		555908-03-01		
	UNITS	IC-4.5	QC Batch	ML-A	QC Batch	ML-B	RDL	QC Batch
Parameter								
ORP	mV	302	9033860	309	9033860	304		9033860
Calculated Parameters								
Filter and HNO3 Preservation	N/A	LAB	9031787	LAB	9031787	LAB		9031787
Nitrate (N)	mg/L	0.141	9030795	0.451	9030795	0.572	0.0020	9030795
Misc. Inorganics								
Fluoride (F)	mg/L	0.057	9033989	0.049	9033989	0.039	0.010	9033989
Free Cyanide	mg/L	<0.0010	9041489	<0.0010	9041489	0.0010	0.0010	9041489
Dissolved Organic Carbon (C)	mg/L	16.5	9036009	16.8	9036009	18.5	0.50	9036008
Alkalinity (Total as CaCO3)	mg/L	33.6	9032633	49.1	9032654	24.3	0.50	9032633
Total Organic Carbon (C)	mg/L	18.4	9036013	21.2	9036013	22.6	0.50	9036013
Alkalinity (PP as CaCO3)	mg/L	<0.50	9032633	<0.50	9032654	<0.50	0.50	9032633
Bicarbonate (HCO3)	mg/L	40.9	9032633	59.9	9032654	29.6	0.50	9032633
Carbonate (CO3)	mg/L	<0.50	9032633	<0.50	9032654	<0.50	0.50	9032633
Hydroxide (OH)	mg/L	<0.50	9032633	<0.50	9032654	<0.50	0.50	9032633
Anions								
Dissolved Sulphate (SO4)	mg/L	19.8	9043093	67.3	9043093	24.4	0.50	9043089
Dissolved Chloride (Cl)	mg/L	1.1	9035676	0.87	9035702	0.95	0.50	9035702
Nutrients								
Total Ammonia (N)	mg/L	0.023	9032517	0.0060	9032517	0.024	0.0050	9032517
Nitrate plus Nitrite (N)	mg/L	0.151	9032979	0.453	9032979	0.578	0.0020	9032979
Nitrite (N)	mg/L	0.0103	9032982	0.0020	9032982	0.0069	0.0020	9032982
Physical Properties								
Conductivity	uS/cm	109	9032635	235	9032655	111	1.0	9032635
pH	pH	7.45	9032627	7.72	9032641	7.31		9032627
Physical Properties								
Total Suspended Solids	mg/L	1.4	9034304	131	9034304	75.6	1.0	9034304
Total Dissolved Solids	mg/L	98	9034737	170	9034737	108	10	9034737
RDL = Reportable Detection Limit								

Maxxam Job #: B848821
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LORAX ENVIRONMENTAL SERVICES LTD.
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RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TR3207		TR3208		TR3209		
Sampling Date		2018/06/17 11:15		2018/06/17 12:30		2018/06/16 11:05		
COC Number		555908-03-01		555908-03-01		555908-03-01		
	UNITS	YT-24-1 (OR ML-1.0)	QC Batch	YT-24-2 (OLD ML-C)	QC Batch	YUK-2.0	RDL	QC Batch
Parameter								
ORP	mV	302	9033860	302	9033860	311		9033860
Calculated Parameters								
Filter and HNO3 Preservation	N/A	LAB	9031787	LAB	9031787	LAB		9031787
Nitrate (N)	mg/L	0.486	9030795	0.689	9030795	0.0170	0.0020	9030795
Misc. Inorganics								
Fluoride (F)	mg/L	0.060	9033989	0.035	9033989	0.110	0.010	9033989
Free Cyanide	mg/L	<0.0010	9041541	0.0010	9041541	<0.0010	0.0010	9041541
Dissolved Organic Carbon (C)	mg/L	14.8	9036008	17.6	9036008	3.32	0.50	9036009
Alkalinity (Total as CaCO3)	mg/L	49.8	9032654	10.6	9032633	70.8	0.50	9034704
Total Organic Carbon (C)	mg/L	17.2	9036013	21.7	9036012	4.14	0.50	9036012
Alkalinity (PP as CaCO3)	mg/L	<0.50	9032654	<0.50	9032633	<0.50	0.50	9034704
Bicarbonate (HCO3)	mg/L	60.8	9032654	13.0	9032633	86.3	0.50	9034704
Carbonate (CO3)	mg/L	<0.50	9032654	<0.50	9032633	<0.50	0.50	9034704
Hydroxide (OH)	mg/L	<0.50	9032654	<0.50	9032633	<0.50	0.50	9034704
Anions								
Dissolved Sulphate (SO4)	mg/L	61.9	9043093	<0.50	9043093	28.4	0.50	9043093
Dissolved Chloride (Cl)	mg/L	0.83	9035702	0.87	9035702	0.54	0.50	9035705
Nutrients								
Total Ammonia (N)	mg/L	0.0060	9032517	0.015	9032517	<0.0050	0.0050	9032517
Nitrate plus Nitrite (N)	mg/L	0.486	9032983	0.692	9032979	0.0192	0.0020	9032986
Nitrite (N)	mg/L	<0.0020	9032985	0.0026	9032982	0.0022	0.0020	9032988
Physical Properties								
Conductivity	uS/cm	230	9032655	39.2	9032635	196	1.0	9034694
pH	pH	7.76	9032641	6.99	9032627	7.89		9034692
Physical Properties								
Total Suspended Solids	mg/L	2.3	9034304	2.1	9034304	20.7	1.0	9034304
Total Dissolved Solids	mg/L	164	9034737	48	9034737	130	10	9034737
RDL = Reportable Detection Limit								

Maxxam Job #: B848821
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LORAX ENVIRONMENTAL SERVICES LTD.
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RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TR3209			TR3214		TR3215		
Sampling Date		2018/06/16 11:05			2018/06/17 15:05		2018/06/17		
COC Number		555908-03-01			555908-04-01		555908-04-01		
	UNITS	YUK-2.0 Lab-Dup	RDL	QC Batch	YUK-5.0	QC Batch	SAMPLE A	RDL	QC Batch
Parameter									
ORP	mV				313	9033860	298		9033860
Calculated Parameters									
Filter and HNO3 Preservation	N/A				LAB	9031787	LAB		9031787
Nitrate (N)	mg/L				0.0381	9030795	0.162	0.0020	9030795
Misc. Inorganics									
Fluoride (F)	mg/L				0.110	9033989	0.059	0.010	9033989
Free Cyanide	mg/L				<0.0010	9041489	<0.0010	0.0010	9041541
Dissolved Organic Carbon (C)	mg/L				3.27	9036009	13.9	0.50	9036008
Alkalinity (Total as CaCO3)	mg/L				70.3	9034704	55.3	0.50	9032654
Total Organic Carbon (C)	mg/L	3.70	0.50	9036012	4.85	9036012	15.2	0.50	9036012
Alkalinity (PP as CaCO3)	mg/L				<0.50	9034704	<0.50	0.50	9032654
Bicarbonate (HCO3)	mg/L				85.8	9034704	67.4	0.50	9032654
Carbonate (CO3)	mg/L				<0.50	9034704	<0.50	0.50	9032654
Hydroxide (OH)	mg/L				<0.50	9034704	<0.50	0.50	9032654
Anions									
Dissolved Sulphate (SO4)	mg/L				24.4	9043093	30.1	0.50	9043093
Dissolved Chloride (Cl)	mg/L				<0.50	9035705	0.82	0.50	9035702
Nutrients									
Total Ammonia (N)	mg/L				<0.0050	9032517	0.036	0.0050	9032517
Nitrate plus Nitrite (N)	mg/L				0.0409	9032986	0.162	0.0020	9032979
Nitrite (N)	mg/L				0.0028	9032988	<0.0020	0.0020	9032982
Physical Properties									
Conductivity	uS/cm				180	9034694	178	1.0	9032655
pH	pH				7.90	9034692	7.79		9032641
Physical Properties									
Total Suspended Solids	mg/L				16.3	9034304	<1.0	1.0	9034304
Total Dissolved Solids	mg/L				102	9034737	140	10	9034737
RDL = Reportable Detection Limit									
Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B848821
Report Date: 2018/07/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TR3216			TR3216			TR3217		
Sampling Date		2018/06/17			2018/06/17			2018/06/16 17:00		
COC Number		555908-04-01			555908-04-01			555908-04-01		
	UNITS	SAMPLE B	RDL	QC Batch	SAMPLE B Lab-Dup	RDL	QC Batch	FIELD BLANK	RDL	QC Batch
Parameter										
ORP	mV	291		9033860	296		9033860	305		9033860
Calculated Parameters										
Filter and HNO3 Preservation	N/A	LAB		9031787				LAB		9031787
Nitrate (N)	mg/L	0.555	0.0020	9030795				0.0043	0.0020	9030795
Misc. Inorganics										
Fluoride (F)	mg/L	0.045	0.010	9033991				<0.010	0.010	9033991
Free Cyanide	mg/L	0.0011	0.0010	9041541	0.0011	0.0010	9041541	<0.0010	0.0010	9041489
Dissolved Organic Carbon (C)	mg/L	19.7	0.50	9036008	19.3	0.50	9036008	0.62	0.50	9036008
Alkalinity (Total as CaCO3)	mg/L	23.0	0.50	9032633				0.60	0.50	9032654
Total Organic Carbon (C)	mg/L	22.6	0.50	9036012				<0.50	0.50	9036013
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	9032633				<0.50	0.50	9032654
Bicarbonate (HCO3)	mg/L	28.0	0.50	9032633				0.73	0.50	9032654
Carbonate (CO3)	mg/L	<0.50	0.50	9032633				<0.50	0.50	9032654
Hydroxide (OH)	mg/L	<0.50	0.50	9032633				<0.50	0.50	9032654
Anions										
Dissolved Sulphate (SO4)	mg/L	24.9	0.50	9043098				<0.50	0.50	9043098
Dissolved Chloride (Cl)	mg/L	1.0	0.50	9035702				<0.50	0.50	9035705
Nutrients										
Total Ammonia (N)	mg/L	0.029	0.0050	9032517				<0.0050	0.0050	9032517
Nitrate plus Nitrite (N)	mg/L	0.558	0.0020	9032979				0.0064	0.0020	9032986
Nitrite (N)	mg/L	0.0037	0.0020	9032982				0.0021	0.0020	9032988
Physical Properties										
Conductivity	uS/cm	111	1.0	9032635				1.1	1.0	9032655
pH	pH	7.29		9032627				5.54		9032641
Physical Properties										
Total Suspended Solids	mg/L	88.5	1.0	9034304				<1.3 (1)	1.3	9034304
Total Dissolved Solids	mg/L	92	10	9034737				<10	10	9034737
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										
(1) RDL raised due to limited initial sample amount.										

Maxxam Job #: B848821
Report Date: 2018/07/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TR3217			TR3218			TR3218		
Sampling Date		2018/06/16 17:00			2018/06/17 17:00			2018/06/17 17:00		
COC Number		555908-04-01			555908-05-01			555908-05-01		
	UNITS	FIELD BLANK Lab-Dup	RDL	QC Batch	TRIP BLANK	RDL	QC Batch	TRIP BLANK Lab-Dup	RDL	QC Batch
Parameter										
ORP	mV				302		9033860			
Calculated Parameters										
Nitrate (N)	mg/L				0.0031	0.0020	9030795			
Misc. Inorganics										
Fluoride (F)	mg/L				<0.010	0.010	9033991	<0.010	0.010	9033991
Free Cyanide	mg/L				<0.0010	0.0010	9041489			
Dissolved Organic Carbon (C)	mg/L				<0.50	0.50	9036008			
Alkalinity (Total as CaCO3)	mg/L				0.74	0.50	9032654	0.81	0.50	9032654
Total Organic Carbon (C)	mg/L				<0.50	0.50	9036013			
Alkalinity (PP as CaCO3)	mg/L				<0.50	0.50	9032654	<0.50	0.50	9032654
Bicarbonate (HCO3)	mg/L				0.90	0.50	9032654	0.99	0.50	9032654
Carbonate (CO3)	mg/L				<0.50	0.50	9032654	<0.50	0.50	9032654
Hydroxide (OH)	mg/L				<0.50	0.50	9032654	<0.50	0.50	9032654
Anions										
Dissolved Sulphate (SO4)	mg/L				<0.50	0.50	9045883			
Dissolved Chloride (Cl)	mg/L				<0.50	0.50	9035702	0.74	0.50	9035702
Nutrients										
Total Ammonia (N)	mg/L				<0.0050	0.0050	9032517			
Nitrate plus Nitrite (N)	mg/L	0.0047	0.0020	9032986	0.0031	0.0020	9032983	<0.0020	0.0020	9032983
Nitrite (N)	mg/L	<0.0020	0.0020	9032988	<0.0020	0.0020	9032985	<0.0020	0.0020	9032985
Physical Properties										
Conductivity	uS/cm				1.2	1.0	9032655	1.1	1.0	9032655
pH	pH				5.66		9032641	5.61		9032641
Physical Properties										
Total Suspended Solids	mg/L				1.1 (1)	1.1	9034304			
Total Dissolved Solids	mg/L				<10	10	9035544			
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate (1) RDL raised due to limited initial sample amount.										

Maxxam Job #: B848821
Report Date: 2018/07/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TR3219		TR3220		TR3242		
Sampling Date		2018/06/17 09:30		2018/06/17 10:00				
COC Number		555908-05-01		555908-05-01		555908-05-01		
	UNITS	COFFEE MIX	QC Batch	YT-24 MIX	QC Batch	SAMPLE C	RDL	QC Batch
Parameter								
ORP	mV	297	9033860	298	9033860	300		9033860
Calculated Parameters								
Filter and HNO3 Preservation	N/A	LAB	9031787	LAB	9031787	LAB		9031787
Nitrate (N)	mg/L	0.0227	9030795	0.0280	9030795	0.0882	0.0020	9030795
Misc. Inorganics								
Fluoride (F)	mg/L	0.100	9033991	0.100	9033991	0.058	0.010	9033991
Free Cyanide	mg/L	<0.0010	9041489	<0.0010	9041489	<0.0010	0.0010	9041541
Dissolved Organic Carbon (C)	mg/L	3.13	9036009	3.26	9036009	18.1	0.50	9036008
Alkalinity (Total as CaCO3)	mg/L	72.5	9032633	69.5	9032633	32.7	0.50	9037500
Total Organic Carbon (C)	mg/L	4.37	9036013	4.15	9036012	20.5	0.50	9036012
Alkalinity (PP as CaCO3)	mg/L	<0.50	9032633	<0.50	9032633	<0.50	0.50	9037500
Bicarbonate (HCO3)	mg/L	88.5	9032633	84.8	9032633	39.9	0.50	9037500
Carbonate (CO3)	mg/L	<0.50	9032633	<0.50	9032633	<0.50	0.50	9037500
Hydroxide (OH)	mg/L	<0.50	9032633	<0.50	9032633	<0.50	0.50	9037500
Anions								
Dissolved Sulphate (SO4)	mg/L	23.0	9043098	23.7	9043093	19.7	0.50	9043093
Dissolved Chloride (Cl)	mg/L	0.73	9035702	<0.50	9035702	0.95	0.50	9035705
Nutrients								
Total Ammonia (N)	mg/L	0.015	9032517	0.0080	9032517	<0.0050	0.0050	9032517
Nitrate plus Nitrite (N)	mg/L	0.0264	9032979	0.0325	9032979	0.0882	0.0020	9032986
Nitrite (N)	mg/L	0.0037	9032982	0.0045	9032982	<0.0020	0.0020	9032988
Physical Properties								
Conductivity	uS/cm	185	9032635	184	9032635	110	1.0	9037496
pH	pH	7.96	9032627	7.92	9032627	7.47		9037490
Physical Properties								
Total Suspended Solids	mg/L	20.4	9034304	24.5	9034304	2.2	1.0	9031504
Total Dissolved Solids	mg/L	106	9034470	94	9034737	100	10	9035544
RDL = Reportable Detection Limit								

Maxxam Job #: B848821
Report Date: 2018/07/03

LORAX ENVIRONMENTAL SERVICES LTD.
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RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TR3242		
Sampling Date				
COC Number		555908-05-01		
	UNITS	SAMPLE C Lab-Dup	RDL	QC Batch
Nutrients				
Total Ammonia (N)	mg/L	0.0050	0.0050	9032517
RDL = Reportable Detection Limit				
Lab-Dup = Laboratory Initiated Duplicate				

Maxxam Job #: B848821
Report Date: 2018/07/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TR3182	TR3183			TR3183		
Sampling Date		2018/06/16 12:31	2018/06/16 14:55			2018/06/16 14:55		
COC Number		555908-01-01	555908-01-01			555908-01-01		
	UNITS	CC-0.5	CC-1.0	RDL	QC Batch	CC-1.0 Lab-Dup	RDL	QC Batch
Calculated Parameters								
Dissolved Hardness (CaCO3)	mg/L	53.2	328	0.50	9030106			
Elements								
Dissolved Mercury (Hg)	ug/L	0.0030	<0.0020	0.0020	9032110	<0.0020	0.0020	9032110
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	ug/L	215	19.8	0.50	9032129			
Dissolved Antimony (Sb)	ug/L	0.095	0.204	0.020	9032129			
Dissolved Arsenic (As)	ug/L	0.438	1.12	0.020	9032129			
Dissolved Barium (Ba)	ug/L	35.4	78.0	0.020	9032129			
Dissolved Beryllium (Be)	ug/L	0.023	<0.010	0.010	9032129			
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	0.0050	9032129			
Dissolved Boron (B)	ug/L	<10	<10	10	9032129			
Dissolved Cadmium (Cd)	ug/L	0.0094	<0.0050	0.0050	9032129			
Dissolved Chromium (Cr)	ug/L	0.49	0.14	0.10	9032129			
Dissolved Cobalt (Co)	ug/L	0.0778	0.0454	0.0050	9032129			
Dissolved Copper (Cu)	ug/L	3.19	1.06	0.050	9032129			
Dissolved Iron (Fe)	ug/L	164	18.9	1.0	9032129			
Dissolved Lead (Pb)	ug/L	0.0092	<0.0050	0.0050	9032129			
Dissolved Lithium (Li)	ug/L	0.78	3.89	0.50	9032129			
Dissolved Manganese (Mn)	ug/L	2.05	0.660	0.050	9032129			
Dissolved Molybdenum (Mo)	ug/L	0.619	0.304	0.050	9032129			
Dissolved Nickel (Ni)	ug/L	1.44	0.564	0.020	9032129			
Dissolved Phosphorus (P)	ug/L	8.4	4.0	2.0	9032129			
Dissolved Selenium (Se)	ug/L	0.069	0.224	0.040	9032129			
Dissolved Silicon (Si)	ug/L	4080	5140	50	9032129			
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	0.0050	9032129			
Dissolved Strontium (Sr)	ug/L	70.8	865	0.050	9032129			
Dissolved Thallium (Tl)	ug/L	0.0043	0.0020	0.0020	9032129			
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	0.20	9032129			
Dissolved Titanium (Ti)	ug/L	1.99	0.63	0.50	9032129			
Dissolved Uranium (U)	ug/L	3.14	22.8	0.0020	9032129			
Dissolved Vanadium (V)	ug/L	0.53	0.33	0.20	9032129			
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate								

Maxxam Job #: B848821
Report Date: 2018/07/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TR3182	TR3183			TR3183		
Sampling Date		2018/06/16 12:31	2018/06/16 14:55			2018/06/16 14:55		
COC Number		555908-01-01	555908-01-01			555908-01-01		
	UNITS	CC-0.5	CC-1.0	RDL	QC Batch	CC-1.0 Lab-Dup	RDL	QC Batch
Dissolved Zinc (Zn)	ug/L	0.62	0.15	0.10	9032129			
Dissolved Zirconium (Zr)	ug/L	0.64	0.17	0.10	9032129			
Dissolved Calcium (Ca)	mg/L	13.9	83.4	0.050	9030107			
Dissolved Magnesium (Mg)	mg/L	4.49	29.2	0.050	9030107			
Dissolved Potassium (K)	mg/L	0.981	4.64	0.050	9030107			
Dissolved Sodium (Na)	mg/L	2.32	4.19	0.050	9030107			
Dissolved Sulphur (S)	mg/L	7.7	44.3	3.0	9030107			
RDL = Reportable Detection Limit								
Lab-Dup = Laboratory Initiated Duplicate								

Maxxam Job #: B848821
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LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TR3184			TR3184			TR3185		
Sampling Date		2018/06/16 15:13			2018/06/16 15:13			2018/06/16 12:57		
COC Number		555908-01-01			555908-01-01			555908-01-01		
	UNITS	CC-1.5	RDL	QC Batch	CC-1.5 Lab-Dup	RDL	QC Batch	CC-3.5	RDL	QC Batch

Calculated Parameters										
Dissolved Hardness (CaCO3)	mg/L	95.6	0.50	9030106				104	0.50	9030106

Elements										
Dissolved Mercury (Hg)	ug/L	0.0093	0.0020	9032110				0.0069	0.0020	9032110

Dissolved Metals by ICPMS										
Dissolved Aluminum (Al)	ug/L	212	0.50	9032129				125	0.50	9032129
Dissolved Antimony (Sb)	ug/L	0.103	0.020	9032129				0.100	0.020	9032129
Dissolved Arsenic (As)	ug/L	0.583	0.020	9032129				0.433	0.020	9032129
Dissolved Barium (Ba)	ug/L	32.0	0.020	9032129				42.8	0.020	9032129
Dissolved Beryllium (Be)	ug/L	0.033	0.010	9032129				0.022	0.010	9032129
Dissolved Bismuth (Bi)	ug/L	<0.0050	0.0050	9032129				<0.0050	0.0050	9032129
Dissolved Boron (B)	ug/L	<10	10	9032129				<10	10	9032129
Dissolved Cadmium (Cd)	ug/L	0.0075	0.0050	9032129				0.0055	0.0050	9032129
Dissolved Chromium (Cr)	ug/L	0.41	0.10	9032129				0.38	0.10	9032129
Dissolved Cobalt (Co)	ug/L	0.0629	0.0050	9032129				0.0770	0.0050	9032129
Dissolved Copper (Cu)	ug/L	1.85	0.050	9032129				1.93	0.050	9032129
Dissolved Iron (Fe)	ug/L	139	1.0	9032129				106	1.0	9032129
Dissolved Lead (Pb)	ug/L	0.0083	0.0050	9032129				0.0102	0.0050	9032129
Dissolved Lithium (Li)	ug/L	1.47	0.50	9032129				0.77	0.50	9032129
Dissolved Manganese (Mn)	ug/L	4.35	0.050	9032129				4.19	0.050	9032129
Dissolved Molybdenum (Mo)	ug/L	0.108	0.050	9032129				0.184	0.050	9032129
Dissolved Nickel (Ni)	ug/L	0.900	0.020	9032129				0.761	0.020	9032129
Dissolved Phosphorus (P)	ug/L	6.4	2.0	9032129				4.6	2.0	9032129
Dissolved Selenium (Se)	ug/L	0.071	0.040	9032129				0.079	0.040	9032129
Dissolved Silicon (Si)	ug/L	3910	50	9032129				3910	50	9032129
Dissolved Silver (Ag)	ug/L	<0.0050	0.0050	9032129				<0.0050	0.0050	9032129
Dissolved Strontium (Sr)	ug/L	220	0.050	9032129				215	0.050	9032129
Dissolved Thallium (Tl)	ug/L	0.0022	0.0020	9032129				0.0022	0.0020	9032129
Dissolved Tin (Sn)	ug/L	<0.20	0.20	9032129				<0.20	0.20	9032129
Dissolved Titanium (Ti)	ug/L	1.32	0.50	9032129				1.43	0.50	9032129
Dissolved Uranium (U)	ug/L	5.48	0.0020	9032129				5.31	0.0020	9032129
Dissolved Vanadium (V)	ug/L	0.40	0.20	9032129				0.49	0.20	9032129

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Maxxam Job #: B848821
Report Date: 2018/07/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TR3184			TR3184			TR3185		
Sampling Date		2018/06/16 15:13			2018/06/16 15:13			2018/06/16 12:57		
COC Number		555908-01-01			555908-01-01			555908-01-01		
	UNITS	CC-1.5	RDL	QC Batch	CC-1.5 Lab-Dup	RDL	QC Batch	CC-3.5	RDL	QC Batch
Dissolved Zinc (Zn)	ug/L	0.63	0.10	9032129				0.27	0.10	9032129
Dissolved Zirconium (Zr)	ug/L	0.84	0.10	9042281	0.81	0.10	9042281	0.67	0.10	9040541
Dissolved Calcium (Ca)	mg/L	25.1	0.050	9030107				27.9	0.050	9030107
Dissolved Magnesium (Mg)	mg/L	7.98	0.050	9030107				8.27	0.050	9030107
Dissolved Potassium (K)	mg/L	1.47	0.050	9030107				1.69	0.050	9030107
Dissolved Sodium (Na)	mg/L	2.03	0.050	9030107				2.79	0.050	9030107
Dissolved Sulphur (S)	mg/L	14.1	3.0	9030107				15.7	3.0	9030107
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B848821
Report Date: 2018/07/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TR3186	TR3187	TR3188	TR3189	TR3192	TR3193		
Sampling Date		2018/06/16 10:35	2018/06/16 16:19	2018/06/16 15:52	2018/06/16 14:30	2018/06/16 11:26	2018/06/16 11:50		
COC Number		555908-01-01	555908-01-01	555908-01-01	555908-01-01	555908-02-01	555908-02-01		
	UNITS	CC-4.5	CC-6.0	CC-A	CC-B	CC-X	LATTE MIX	RDL	QC Batch

Calculated Parameters

Dissolved Hardness (CaCO3)	mg/L	64.1	10.4	32.8	101	61.4	58.2	0.50	9030106
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Elements

Dissolved Mercury (Hg)	ug/L	0.0065	0.0082	0.0076	0.0074	0.0076	0.0088	0.0020	9032110
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Dissolved Metals by ICPMS

Dissolved Aluminum (Al)	ug/L	184	300	255	171	165	201	0.50	9032129
Dissolved Antimony (Sb)	ug/L	0.094	0.064	0.086	0.096	0.091	0.099	0.020	9032129
Dissolved Arsenic (As)	ug/L	0.420	0.412	0.458	0.537	0.419	0.427	0.020	9032129
Dissolved Barium (Ba)	ug/L	38.3	14.2	17.9	32.9	38.7	35.4	0.020	9032129
Dissolved Beryllium (Be)	ug/L	0.017	0.034	0.041	0.030	0.017	0.023	0.010	9032129
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9032129
Dissolved Boron (B)	ug/L	<10	<10	<10	<10	<10	<10	10	9032129
Dissolved Cadmium (Cd)	ug/L	0.0098	0.0179	0.0090	0.0076	0.0089	0.0095	0.0050	9032129
Dissolved Chromium (Cr)	ug/L	0.42	0.46	0.46	0.39	0.40	0.45	0.10	9032129
Dissolved Cobalt (Co)	ug/L	0.0694	0.0659	0.0626	0.0616	0.0645	0.0814	0.0050	9032129
Dissolved Copper (Cu)	ug/L	2.93	1.96	1.99	1.85	2.85	2.95	0.050	9032129
Dissolved Iron (Fe)	ug/L	136	230	146	126	126	157	1.0	9032129
Dissolved Lead (Pb)	ug/L	0.0083	0.0116	0.0108	0.0059	0.0077	0.0074	0.0050	9032129
Dissolved Lithium (Li)	ug/L	0.63	<0.50	0.76	1.17	0.61	0.70	0.50	9032129
Dissolved Manganese (Mn)	ug/L	2.27	14.1	5.28	5.87	1.28	3.02	0.050	9032129
Dissolved Molybdenum (Mo)	ug/L	0.570	<0.050	<0.050	0.145	0.534	0.570	0.050	9032129
Dissolved Nickel (Ni)	ug/L	1.25	1.10	0.945	0.771	1.19	1.33	0.020	9032129
Dissolved Phosphorus (P)	ug/L	6.8	9.7	6.8	5.6	4.9	6.9	2.0	9032129
Dissolved Selenium (Se)	ug/L	0.080	<0.040	0.046	0.071	0.077	0.080	0.040	9032129
Dissolved Silicon (Si)	ug/L	4010	3000	3380	3730	3790	3800	50	9032129
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9032129
Dissolved Strontium (Sr)	ug/L	92.5	16.9	59.5	242	89.3	86.6	0.050	9032129
Dissolved Thallium (Tl)	ug/L	0.0042	<0.0020	<0.0020	0.0023	0.0031	0.0027	0.0020	9032129
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	9032129
Dissolved Titanium (Ti)	ug/L	2.02	1.72	1.96	1.48	1.81	1.87	0.50	9032129
Dissolved Uranium (U)	ug/L	2.80	0.617	2.19	5.58	2.73	3.39	0.0020	9032129
Dissolved Vanadium (V)	ug/L	0.52	0.53	0.46	0.42	0.61	0.59	0.20	9032129
Dissolved Zinc (Zn)	ug/L	0.51	1.40	0.75	0.38	0.47	0.50	0.10	9032129

RDL = Reportable Detection Limit

Maxxam Job #: B848821
Report Date: 2018/07/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TR3186	TR3187	TR3188	TR3189	TR3192	TR3193		
Sampling Date		2018/06/16 10:35	2018/06/16 16:19	2018/06/16 15:52	2018/06/16 14:30	2018/06/16 11:26	2018/06/16 11:50		
COC Number		555908-01-01	555908-01-01	555908-01-01	555908-01-01	555908-02-01	555908-02-01		
	UNITS	CC-4.5	CC-6.0	CC-A	CC-B	CC-X	LATTE MIX	RDL	QC Batch
Dissolved Zirconium (Zr)	ug/L	0.63	0.75	0.80	0.65	0.62	0.67	0.10	9032129
Dissolved Calcium (Ca)	mg/L	16.6	2.89	9.19	27.0	16.1	15.1	0.050	9030107
Dissolved Magnesium (Mg)	mg/L	5.48	0.783	2.38	8.10	5.17	4.97	0.050	9030107
Dissolved Potassium (K)	mg/L	1.10	0.194	0.507	1.86	1.05	1.04	0.050	9030107
Dissolved Sodium (Na)	mg/L	2.47	0.740	1.32	2.11	2.42	2.34	0.050	9030107
Dissolved Sulphur (S)	mg/L	9.3	<3.0	4.3	14.5	8.5	7.8	3.0	9030107
RDL = Reportable Detection Limit									

Maxxam Job #: B848821
Report Date: 2018/07/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TR3194	TR3195	TR3196	TR3197		TR3198		
Sampling Date		2018/06/17 09:45	2018/06/17 07:45	2018/06/17 08:35	2018/06/17 08:55		2018/06/17 09:20		
COC Number		555908-02-01	555908-02-01	555908-02-01	555908-02-01		555908-02-01		
	UNITS	HC-2.5	HC-5.0	HC-A	HC-B	QC Batch	HC-C	RDL	QC Batch
Calculated Parameters									
Dissolved Hardness (CaCO3)	mg/L	68.1	85.1	86.9	79.1	9030106	78.6	0.50	9030106
Elements									
Dissolved Mercury (Hg)	ug/L	0.0070	0.0050	0.0048	0.0059	9032110	0.0058	0.0020	9032110
Dissolved Metals by ICPMS									
Dissolved Aluminum (Al)	ug/L	177	79.5	90.0	106	9032129	119	0.50	9032131
Dissolved Antimony (Sb)	ug/L	0.223	0.197	0.214	0.237	9032129	0.244	0.020	9032131
Dissolved Arsenic (As)	ug/L	0.942	0.660	0.734	0.792	9032129	0.841	0.020	9032131
Dissolved Barium (Ba)	ug/L	30.4	37.1	39.7	32.5	9032129	32.3	0.020	9032131
Dissolved Beryllium (Be)	ug/L	0.019	0.013	0.019	0.019	9032129	0.020	0.010	9032131
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	9032129	<0.0050	0.0050	9032131
Dissolved Boron (B)	ug/L	<10	<10	<10	<10	9032129	<10	10	9032131
Dissolved Cadmium (Cd)	ug/L	0.0056	<0.0050	<0.0050	<0.0050	9032129	<0.0050	0.0050	9032131
Dissolved Chromium (Cr)	ug/L	0.54	0.34	0.36	0.41	9032129	0.44	0.10	9032131
Dissolved Cobalt (Co)	ug/L	0.0854	0.0569	0.0616	0.0646	9032129	0.0654	0.0050	9032131
Dissolved Copper (Cu)	ug/L	1.92	1.87	1.81	1.73	9032129	1.78	0.050	9032131
Dissolved Iron (Fe)	ug/L	144	62.5	69.6	83.8	9032129	95.2	1.0	9032131
Dissolved Lead (Pb)	ug/L	0.0080	<0.0050	<0.0050	0.0050	9032129	0.0050	0.0050	9032131
Dissolved Lithium (Li)	ug/L	0.94	0.84	0.73	0.81	9032129	0.96	0.50	9032131
Dissolved Manganese (Mn)	ug/L	3.55	0.560	0.806	1.74	9032129	2.94	0.050	9032131
Dissolved Molybdenum (Mo)	ug/L	0.829	0.562	0.594	0.686	9032129	0.783	0.050	9032131
Dissolved Nickel (Ni)	ug/L	0.998	0.847	0.808	0.847	9032129	0.828	0.020	9032131
Dissolved Phosphorus (P)	ug/L	3.8	5.1	5.3	3.6	9032129	5.7	2.0	9032131
Dissolved Selenium (Se)	ug/L	0.069	0.058	0.067	0.066	9032129	0.077	0.040	9032131
Dissolved Silicon (Si)	ug/L	4220	4070	4130	4150	9032129	4160	50	9032131
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	9032129	<0.0050	0.0050	9032131
Dissolved Strontium (Sr)	ug/L	214	207	226	213	9032129	218	0.050	9032131
Dissolved Thallium (Tl)	ug/L	<0.0020	<0.0020	<0.0020	<0.0020	9032129	<0.0020	0.0020	9032131
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	9032129	<0.20	0.20	9032131
Dissolved Titanium (Ti)	ug/L	2.39	0.67	1.37	1.61	9032129	1.97	0.50	9032131
Dissolved Uranium (U)	ug/L	14.2	7.94	11.3	13.2	9032129	14.2	0.0020	9032131
Dissolved Vanadium (V)	ug/L	0.56	0.41	0.47	0.49	9032129	0.47	0.20	9032131
Dissolved Zinc (Zn)	ug/L	0.26	0.17	0.18	0.18	9032129	0.21	0.10	9032131
RDL = Reportable Detection Limit									

Maxxam Job #: B848821
Report Date: 2018/07/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TR3194	TR3195	TR3196	TR3197		TR3198		
Sampling Date		2018/06/17 09:45	2018/06/17 07:45	2018/06/17 08:35	2018/06/17 08:55		2018/06/17 09:20		
COC Number		555908-02-01	555908-02-01	555908-02-01	555908-02-01		555908-02-01		
	UNITS	HC-2.5	HC-5.0	HC-A	HC-B	QC Batch	HC-C	RDL	QC Batch
Dissolved Zirconium (Zr)	ug/L	0.78	0.58	0.59	0.64	9032129	0.66	0.10	9032131
Dissolved Calcium (Ca)	mg/L	17.6	22.7	22.7	20.3	9030107	20.2	0.050	9030107
Dissolved Magnesium (Mg)	mg/L	5.85	6.88	7.32	6.92	9030107	6.85	0.050	9030107
Dissolved Potassium (K)	mg/L	1.41	1.77	1.76	1.37	9030107	1.41	0.050	9030107
Dissolved Sodium (Na)	mg/L	2.05	2.54	2.63	2.42	9030107	2.39	0.050	9030107
Dissolved Sulphur (S)	mg/L	6.4	9.4	10.3	8.5	9030107	8.6	3.0	9030107
RDL = Reportable Detection Limit									

Maxxam Job #: B848821
Report Date: 2018/07/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TR3199		TR3200		TR3201		TR3202		
Sampling Date		2018/06/17 09:23		2018/06/17 13:23		2018/06/17 13:10		2018/06/17 13:50		
COC Number		555908-02-01		555908-03-01		555908-03-01		555908-03-01		
	UNITS	HALFWAY MIX	QC Batch	IC-0.5	QC Batch	IC-1.5	QC Batch	IC-2.5	RDL	QC Batch

Calculated Parameters

Dissolved Hardness (CaCO3)	mg/L	91.6	9030106	61.4	9039888	39.3	9030106	17.0	0.50	9039888
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Elements

Dissolved Mercury (Hg)	ug/L	<0.0020	9032110	0.0070	9032110	0.0070	9032110	0.0069	0.0020	9032110
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Dissolved Metals by ICPMS

Dissolved Aluminum (Al)	ug/L	30.4	9032131	253	9040541	196	9032131	280	0.50	9040541
Dissolved Antimony (Sb)	ug/L	0.101	9032131	0.079	9040541	0.074	9032131	0.127	0.020	9040541
Dissolved Arsenic (As)	ug/L	0.450	9032131	0.486	9040541	0.258	9032131	0.961	0.020	9040541
Dissolved Barium (Ba)	ug/L	40.8	9032131	25.7	9040541	27.3	9032131	16.8	0.020	9040541
Dissolved Beryllium (Be)	ug/L	<0.010	9032131	0.040	9040541	0.014	9032131	0.046	0.010	9040541
Dissolved Bismuth (Bi)	ug/L	<0.0050	9032131	<0.0050	9040541	<0.0050	9032131	<0.0050	0.0050	9040541
Dissolved Boron (B)	ug/L	<10	9032131	<10	9040541	<10	9032131	<10	10	9040541
Dissolved Cadmium (Cd)	ug/L	0.0405	9032131	0.0347	9040541	0.0077	9032131	0.0070	0.0050	9040541
Dissolved Chromium (Cr)	ug/L	<0.10	9032131	0.60	9040541	0.37	9032131	0.63	0.10	9040541
Dissolved Cobalt (Co)	ug/L	0.0281	9032131	0.147	9040541	0.0545	9032131	0.0802	0.0050	9040541
Dissolved Copper (Cu)	ug/L	0.963	9032131	3.70	9040541	2.31	9032131	2.12	0.050	9040541
Dissolved Iron (Fe)	ug/L	21.9	9032131	201	9040541	139	9032131	325	1.0	9040541
Dissolved Lead (Pb)	ug/L	0.0184	9032131	0.0116	9040541	0.0079	9032131	0.0101	0.0050	9040541
Dissolved Lithium (Li)	ug/L	1.45	9032131	1.40	9040541	1.37	9032131	0.78	0.50	9040541
Dissolved Manganese (Mn)	ug/L	2.49	9032131	6.12	9040541	1.44	9032131	3.12	0.050	9040541
Dissolved Molybdenum (Mo)	ug/L	1.05	9032131	0.234	9040541	0.182	9032131	0.074	0.050	9040541
Dissolved Nickel (Ni)	ug/L	1.13	9032131	2.79	9040541	1.11	9032131	1.19	0.020	9040541
Dissolved Phosphorus (P)	ug/L	5.0	9032131	7.1	9040541	5.7	9032131	8.1	2.0	9040541
Dissolved Selenium (Se)	ug/L	0.309	9032131	0.129	9040541	0.062	9032131	0.041	0.040	9040541
Dissolved Silicon (Si)	ug/L	3050	9032131	4150	9040541	3560	9032131	4110	50	9040541
Dissolved Silver (Ag)	ug/L	<0.0050	9032131	<0.0050	9040541	<0.0050	9032131	<0.0050	0.0050	9040541
Dissolved Strontium (Sr)	ug/L	122	9032131	55.2	9040541	64.3	9032131	23.5	0.050	9040541
Dissolved Thallium (Tl)	ug/L	<0.0020	9032131	<0.0020	9040541	0.0021	9032131	<0.0020	0.0020	9040541
Dissolved Tin (Sn)	ug/L	<0.20	9032131	<0.20	9040541	<0.20	9032131	<0.20	0.20	9040541
Dissolved Titanium (Ti)	ug/L	<0.50	9032131	2.45	9040541	1.73	9032131	2.04	0.50	9040541
Dissolved Uranium (U)	ug/L	1.09	9032131	1.32	9040541	1.78	9032131	1.19	0.0020	9040541
Dissolved Vanadium (V)	ug/L	0.25	9032131	0.63	9040541	0.46	9032131	0.61	0.20	9040541
Dissolved Zinc (Zn)	ug/L	1.79	9032131	1.99	9040541	0.46	9032131	0.79	0.10	9040541

RDL = Reportable Detection Limit

Maxxam Job #: B848821
Report Date: 2018/07/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TR3199		TR3200		TR3201		TR3202		
Sampling Date		2018/06/17 09:23		2018/06/17 13:23		2018/06/17 13:10		2018/06/17 13:50		
COC Number		555908-02-01		555908-03-01		555908-03-01		555908-03-01		
	UNITS	HALFWAY MIX	QC Batch	IC-0.5	QC Batch	IC-1.5	QC Batch	IC-2.5	RDL	QC Batch
Dissolved Zirconium (Zr)	ug/L	<0.10	9032131	0.76	9040541	0.63	9032131	1.22	0.10	9040541
Dissolved Calcium (Ca)	mg/L	24.8	9030107	15.8	9039891	10.9	9030107	4.69	0.050	9039891
Dissolved Magnesium (Mg)	mg/L	7.18	9030107	5.34	9039891	2.95	9030107	1.29	0.050	9039891
Dissolved Potassium (K)	mg/L	0.803	9030107	0.804	9039891	0.864	9030107	0.265	0.050	9039891
Dissolved Sodium (Na)	mg/L	1.97	9030107	1.82	9039891	1.90	9030107	1.16	0.050	9039891
Dissolved Sulphur (S)	mg/L	7.6	9030107	9.1	9039891	<3.0	9030107	<3.0	3.0	9039891
RDL = Reportable Detection Limit										

Maxxam Job #: B848821
Report Date: 2018/07/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TR3203	TR3204		TR3205	TR3206	TR3207		
Sampling Date		2018/06/17 14:20	2018/06/17 14:45		2018/06/17 11:45	2018/06/17 12:10	2018/06/17 11:15		
COC Number		555908-03-01	555908-03-01		555908-03-01	555908-03-01	555908-03-01		
	UNITS	IC-3.0	IC-4.5	QC Batch	ML-A	ML-B	YT-24-1 (OR ML-1.0)	RDL	QC Batch

Calculated Parameters

Dissolved Hardness (CaCO3)	mg/L	101	52.3	9030106	112	54.9	108	0.50	9031531
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Elements

Dissolved Mercury (Hg)	ug/L	0.0051	0.0063	9033916	0.0079	0.0092	0.0051	0.0020	9033916
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Dissolved Metals by ICPMS

Dissolved Aluminum (Al)	ug/L	87.1	162	9032131	142	179	96.9	0.50	9032131
Dissolved Antimony (Sb)	ug/L	0.287	0.094	9032131	0.243	0.323	0.205	0.020	9032131
Dissolved Arsenic (As)	ug/L	1.16	0.416	9032131	0.719	0.949	0.586	0.020	9032131
Dissolved Barium (Ba)	ug/L	33.0	28.8	9032131	58.9	45.2	57.0	0.020	9032131
Dissolved Beryllium (Be)	ug/L	0.021	0.021	9032131	0.031	0.039	0.026	0.010	9032131
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	9032131	<0.0050	<0.0050	<0.0050	0.0050	9032131
Dissolved Boron (B)	ug/L	<10	<10	9032131	<10	<10	<10	10	9032131
Dissolved Cadmium (Cd)	ug/L	<0.0050	0.0107	9032131	0.0095	0.0067	0.0060	0.0050	9032131
Dissolved Chromium (Cr)	ug/L	0.34	0.41	9032131	0.50	0.61	0.40	0.10	9032131
Dissolved Cobalt (Co)	ug/L	0.0708	0.0622	9032131	0.116	0.228	0.0876	0.0050	9032131
Dissolved Copper (Cu)	ug/L	2.06	2.59	9032131	2.07	2.52	2.14	0.050	9032131
Dissolved Iron (Fe)	ug/L	64.3	121	9032131	120	274	77.4	1.0	9032131
Dissolved Lead (Pb)	ug/L	<0.0050	0.0069	9032131	0.0143	0.0291	0.0053	0.0050	9032131
Dissolved Lithium (Li)	ug/L	<0.50	1.11	9032131	<0.50	<0.50	<0.50	0.50	9032131
Dissolved Manganese (Mn)	ug/L	2.77	3.16	9032131	7.65	29.2	4.10	0.050	9032131
Dissolved Molybdenum (Mo)	ug/L	0.366	0.178	9032131	0.374	0.273	0.366	0.050	9032131
Dissolved Nickel (Ni)	ug/L	0.843	1.43	9032131	0.999	1.14	0.893	0.020	9032131
Dissolved Phosphorus (P)	ug/L	3.9	5.0	9032131	7.0	5.6	4.8	2.0	9032131
Dissolved Selenium (Se)	ug/L	0.060	0.084	9032131	0.070	0.067	0.064	0.040	9032131
Dissolved Silicon (Si)	ug/L	4230	3730	9032131	3720	3900	3790	50	9032131
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	9032131	<0.0050	<0.0050	<0.0050	0.0050	9032131
Dissolved Strontium (Sr)	ug/L	183	74.9	9032131	189	68.7	184	0.050	9032131
Dissolved Thallium (Tl)	ug/L	0.0032	<0.0020	9032131	<0.0020	<0.0020	<0.0020	0.0020	9032131
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	9032131	<0.20	<0.20	<0.20	0.20	9032131
Dissolved Titanium (Ti)	ug/L	1.03	1.42	9032131	1.98	2.61	1.37	0.50	9032131
Dissolved Uranium (U)	ug/L	5.27	1.58	9032131	10.1	2.69	3.56	0.0020	9032131
Dissolved Vanadium (V)	ug/L	0.46	0.45	9032131	0.54	1.20	0.38	0.20	9032131
Dissolved Zinc (Zn)	ug/L	0.18	0.57	9032131	0.28	0.19	0.23	0.10	9032131

RDL = Reportable Detection Limit

Maxxam Job #: B848821
Report Date: 2018/07/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TR3203	TR3204		TR3205	TR3206	TR3207		
Sampling Date		2018/06/17 14:20	2018/06/17 14:45		2018/06/17 11:45	2018/06/17 12:10	2018/06/17 11:15		
COC Number		555908-03-01	555908-03-01		555908-03-01	555908-03-01	555908-03-01		
	UNITS	IC-3.0	IC-4.5	QC Batch	ML-A	ML-B	YT-24-1 (OR ML-1.0)	RDL	QC Batch
Dissolved Zirconium (Zr)	ug/L	0.65	0.71	9032131	0.89	1.04	0.76	0.10	9032131
Dissolved Calcium (Ca)	mg/L	31.5	14.3	9030107	28.2	16.3	29.2	0.050	9030107
Dissolved Magnesium (Mg)	mg/L	5.43	4.06	9030107	10.0	3.43	8.54	0.050	9030107
Dissolved Potassium (K)	mg/L	1.88	0.927	9030107	1.28	0.840	1.73	0.050	9030107
Dissolved Sodium (Na)	mg/L	3.00	2.13	9030107	2.91	1.43	2.92	0.050	9030107
Dissolved Sulphur (S)	mg/L	15.5	6.3	9030107	19.0	7.5	18.1	3.0	9030107
RDL = Reportable Detection Limit									

Maxxam Job #: B848821
Report Date: 2018/07/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TR3208	TR3209	TR3214	TR3215	TR3216		
Sampling Date		2018/06/17 12:30	2018/06/16 11:05	2018/06/17 15:05	2018/06/17	2018/06/17		
COC Number		555908-03-01	555908-03-01	555908-04-01	555908-04-01	555908-04-01		
	UNITS	YT-24-2 (OLD ML-C)	YUK-2.0	YUK-5.0	SAMPLE A	SAMPLE B	RDL	QC Batch

Calculated Parameters

Dissolved Hardness (CaCO3)	mg/L	20.9	93.7	91.0	84.8	53.7	0.50	9031531
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Elements

Dissolved Mercury (Hg)	ug/L	0.0110	<0.0020	<0.0020	0.0045	0.0086	0.0020	9033916
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Dissolved Metals by ICPMS

Dissolved Aluminum (Al)	ug/L	302	32.7	32.5	78.4	170	0.50	9032131
Dissolved Antimony (Sb)	ug/L	0.427	0.110	0.105	0.194	0.326	0.020	9032131
Dissolved Arsenic (As)	ug/L	0.985	0.440	0.457	0.684	0.998	0.020	9032131
Dissolved Barium (Ba)	ug/L	21.4	40.5	40.3	37.5	45.0	0.020	9032131
Dissolved Beryllium (Be)	ug/L	0.047	<0.010	<0.010	0.022	0.042	0.010	9032131
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9032131
Dissolved Boron (B)	ug/L	<10	<10	<10	<10	<10	10	9032131
Dissolved Cadmium (Cd)	ug/L	0.0093	0.0312	0.0257	<0.0050	0.0058	0.0050	9032131
Dissolved Chromium (Cr)	ug/L	0.72	<0.10	<0.10	0.36	0.61	0.10	9032131
Dissolved Cobalt (Co)	ug/L	0.120	0.0166	0.0222	0.0560	0.224	0.0050	9032131
Dissolved Copper (Cu)	ug/L	2.30	0.912	0.942	1.86	2.45	0.050	9032131
Dissolved Iron (Fe)	ug/L	212	22.3	20.8	61.8	284	1.0	9032131
Dissolved Lead (Pb)	ug/L	0.0223	0.0171	0.0145	<0.0050	0.0306	0.0050	9032131
Dissolved Lithium (Li)	ug/L	<0.50	1.74	1.50	0.92	<0.50	0.50	9032131
Dissolved Manganese (Mn)	ug/L	5.38	1.36	2.50	0.544	31.4	0.050	9032131
Dissolved Molybdenum (Mo)	ug/L	0.113	1.00	1.05	0.562	0.269	0.050	9032131
Dissolved Nickel (Ni)	ug/L	1.10	1.27	1.12	0.916	1.09	0.020	9032131
Dissolved Phosphorus (P)	ug/L	6.3	2.2	3.7	3.4	7.4	2.0	9032131
Dissolved Selenium (Se)	ug/L	0.055	0.393	0.335	0.076	0.060	0.040	9032131
Dissolved Silicon (Si)	ug/L	3700	2930	2990	3940	3750	50	9032131
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9032131
Dissolved Strontium (Sr)	ug/L	21.2	120	120	209	67.8	0.050	9032131
Dissolved Thallium (Tl)	ug/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	9032131
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	9032131
Dissolved Titanium (Ti)	ug/L	3.16	0.74	0.79	1.32	2.54	0.50	9032131
Dissolved Uranium (U)	ug/L	0.344	0.913	1.01	8.00	2.57	0.0020	9032131
Dissolved Vanadium (V)	ug/L	0.73	0.35	0.34	0.47	1.34	0.20	9032131
Dissolved Zinc (Zn)	ug/L	0.45	1.10	0.92	0.17	0.18	0.10	9032131

RDL = Reportable Detection Limit

Maxxam Job #: B848821
Report Date: 2018/07/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TR3208	TR3209	TR3214	TR3215	TR3216		
Sampling Date		2018/06/17 12:30	2018/06/16 11:05	2018/06/17 15:05	2018/06/17	2018/06/17		
COC Number		555908-03-01	555908-03-01	555908-04-01	555908-04-01	555908-04-01		
	UNITS	YT-24-2 (OLD ML-C)	YUK-2.0	YUK-5.0	SAMPLE A	SAMPLE B	RDL	QC Batch
Dissolved Zirconium (Zr)	ug/L	0.95	<0.10	<0.10	0.56	1.04	0.10	9032131
Dissolved Calcium (Ca)	mg/L	6.49	25.2	24.5	22.3	15.9	0.050	9030107
Dissolved Magnesium (Mg)	mg/L	1.13	7.48	7.25	7.06	3.37	0.050	9030107
Dissolved Potassium (K)	mg/L	0.603	0.759	0.785	1.76	0.834	0.050	9030107
Dissolved Sodium (Na)	mg/L	0.903	1.86	1.92	2.60	1.41	0.050	9030107
Dissolved Sulphur (S)	mg/L	<3.0	9.1	8.2	10.0	7.7	3.0	9030107
RDL = Reportable Detection Limit								

Maxxam Job #: B848821
Report Date: 2018/07/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TR3217			TR3217			TR3218		
Sampling Date		2018/06/16 17:00			2018/06/16 17:00			2018/06/17 17:00		
COC Number		555908-04-01			555908-04-01			555908-05-01		
	UNITS	FIELD BLANK	RDL	QC Batch	FIELD BLANK Lab-Dup	RDL	QC Batch	TRIP BLANK	RDL	QC Batch

Calculated Parameters

Dissolved Hardness (CaCO3)	mg/L	<0.50	0.50	9031531				<0.50	0.50	9031531
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Elements

Dissolved Mercury (Hg)	ug/L	<0.0020	0.0020	9033916				<0.0020	0.0020	9033916
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Dissolved Metals by ICPMS

Dissolved Aluminum (Al)	ug/L	<0.50	0.50	9032131	<0.50	0.50	9032131	<0.50	0.50	9032131
Dissolved Antimony (Sb)	ug/L	<0.020	0.020	9032131	<0.020	0.020	9032131	<0.020	0.020	9032131
Dissolved Arsenic (As)	ug/L	<0.020	0.020	9032131	<0.020	0.020	9032131	<0.020	0.020	9032131
Dissolved Barium (Ba)	ug/L	<0.020	0.020	9032131	<0.020	0.020	9032131	<0.020	0.020	9032131
Dissolved Beryllium (Be)	ug/L	<0.010	0.010	9032131	<0.010	0.010	9032131	<0.010	0.010	9032131
Dissolved Bismuth (Bi)	ug/L	<0.0050	0.0050	9032131	<0.0050	0.0050	9032131	<0.0050	0.0050	9032131
Dissolved Boron (B)	ug/L	<10	10	9032131	<10	10	9032131	<10	10	9032131
Dissolved Cadmium (Cd)	ug/L	<0.0050	0.0050	9032131	<0.0050	0.0050	9032131	<0.0050	0.0050	9032131
Dissolved Chromium (Cr)	ug/L	<0.10	0.10	9032131	<0.10	0.10	9032131	<0.10	0.10	9032131
Dissolved Cobalt (Co)	ug/L	<0.0050	0.0050	9032131	<0.0050	0.0050	9032131	<0.0050	0.0050	9032131
Dissolved Copper (Cu)	ug/L	<0.050	0.050	9032131	<0.050	0.050	9032131	<0.050	0.050	9032131
Dissolved Iron (Fe)	ug/L	<1.0	1.0	9032131	<1.0	1.0	9032131	<1.0	1.0	9032131
Dissolved Lead (Pb)	ug/L	<0.0050	0.0050	9032131	<0.0050	0.0050	9032131	<0.0050	0.0050	9032131
Dissolved Lithium (Li)	ug/L	<0.50	0.50	9032131	<0.50	0.50	9032131	<0.50	0.50	9032131
Dissolved Manganese (Mn)	ug/L	<0.050	0.050	9032131	<0.050	0.050	9032131	<0.050	0.050	9032131
Dissolved Molybdenum (Mo)	ug/L	<0.050	0.050	9032131	<0.050	0.050	9032131	<0.050	0.050	9032131
Dissolved Nickel (Ni)	ug/L	<0.020	0.020	9032131	<0.020	0.020	9032131	<0.020	0.020	9032131
Dissolved Phosphorus (P)	ug/L	2.2	2.0	9032131	2.5	2.0	9032131	<2.0	2.0	9032131
Dissolved Selenium (Se)	ug/L	<0.040	0.040	9032131	<0.040	0.040	9032131	<0.040	0.040	9032131
Dissolved Silicon (Si)	ug/L	<50	50	9032131	<50	50	9032131	<50	50	9032131
Dissolved Silver (Ag)	ug/L	<0.0050	0.0050	9032131	<0.0050	0.0050	9032131	<0.0050	0.0050	9032131
Dissolved Strontium (Sr)	ug/L	<0.050	0.050	9032131	<0.050	0.050	9032131	<0.050	0.050	9032131
Dissolved Thallium (Tl)	ug/L	<0.0020	0.0020	9032131	<0.0020	0.0020	9032131	<0.0020	0.0020	9032131
Dissolved Tin (Sn)	ug/L	<0.20	0.20	9032131	<0.20	0.20	9032131	<0.20	0.20	9032131
Dissolved Titanium (Ti)	ug/L	<0.50	0.50	9032131	<0.50	0.50	9032131	<0.50	0.50	9032131
Dissolved Uranium (U)	ug/L	<0.0020	0.0020	9032131	<0.0020	0.0020	9032131	<0.0020	0.0020	9032131
Dissolved Vanadium (V)	ug/L	<0.20	0.20	9032131	<0.20	0.20	9032131	<0.20	0.20	9032131

RDL = Reportable Detection Limit

Lab-Dup = Laboratory Initiated Duplicate

Maxxam Job #: B848821
Report Date: 2018/07/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TR3217			TR3217			TR3218		
Sampling Date		2018/06/16 17:00			2018/06/16 17:00			2018/06/17 17:00		
COC Number		555908-04-01			555908-04-01			555908-05-01		
	UNITS	FIELD BLANK	RDL	QC Batch	FIELD BLANK Lab-Dup	RDL	QC Batch	TRIP BLANK	RDL	QC Batch
Dissolved Zinc (Zn)	ug/L	<0.10	0.10	9032131	<0.10	0.10	9032131	<0.10	0.10	9032131
Dissolved Zirconium (Zr)	ug/L	<0.10	0.10	9032131	<0.10	0.10	9032131	<0.10	0.10	9032131
Dissolved Calcium (Ca)	mg/L	<0.050	0.050	9030107				<0.050	0.050	9030107
Dissolved Magnesium (Mg)	mg/L	<0.050	0.050	9030107				<0.050	0.050	9030107
Dissolved Potassium (K)	mg/L	<0.050	0.050	9030107				<0.050	0.050	9030107
Dissolved Sodium (Na)	mg/L	<0.050	0.050	9030107				<0.050	0.050	9030107
Dissolved Sulphur (S)	mg/L	<3.0	3.0	9030107				<3.0	3.0	9030107
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B848821
Report Date: 2018/07/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TR3218			TR3219			TR3219		
Sampling Date		2018/06/17 17:00			2018/06/17 09:30			2018/06/17 09:30		
COC Number		555908-05-01			555908-05-01			555908-05-01		
	UNITS	TRIP BLANK Lab-Dup	RDL	QC Batch	COFFEE MIX	RDL	QC Batch	COFFEE MIX Lab-Dup	RDL	QC Batch

Calculated Parameters

Dissolved Hardness (CaCO3)	mg/L				87.8	0.50	9031531			
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Elements

Dissolved Mercury (Hg)	ug/L	<0.0020	0.0020	9033916	<0.0020	0.0020	9033916			
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Dissolved Metals by ICPMS

Dissolved Aluminum (Al)	ug/L	<0.50	0.50	9032131	26.0	0.50	9032131	26.1	0.50	9032131
Dissolved Antimony (Sb)	ug/L	<0.020	0.020	9032131	0.102	0.020	9032131	0.099	0.020	9032131
Dissolved Arsenic (As)	ug/L	<0.020	0.020	9032131	0.433	0.020	9032131	0.441	0.020	9032131
Dissolved Barium (Ba)	ug/L	<0.020	0.020	9032131	39.2	0.020	9032131	40.0	0.020	9032131
Dissolved Beryllium (Be)	ug/L	<0.010	0.010	9032131	<0.010	0.010	9032131	<0.010	0.010	9032131
Dissolved Bismuth (Bi)	ug/L	<0.0050	0.0050	9032131	<0.0050	0.0050	9032131	<0.0050	0.0050	9032131
Dissolved Boron (B)	ug/L	<10	10	9032131	<10	10	9032131	<10	10	9032131
Dissolved Cadmium (Cd)	ug/L	<0.0050	0.0050	9032131	0.0314	0.0050	9032131	0.0336	0.0050	9032131
Dissolved Chromium (Cr)	ug/L	<0.10	0.10	9032131	<0.10	0.10	9032131	<0.10	0.10	9032131
Dissolved Cobalt (Co)	ug/L	<0.0050	0.0050	9032131	0.0207	0.0050	9032131	0.0188	0.0050	9032131
Dissolved Copper (Cu)	ug/L	<0.050	0.050	9032131	0.998	0.050	9032131	0.993	0.050	9032131
Dissolved Iron (Fe)	ug/L	<1.0	1.0	9032131	18.3	1.0	9032131	19.2	1.0	9032131
Dissolved Lead (Pb)	ug/L	<0.0050	0.0050	9032131	0.0175	0.0050	9032131	0.0165	0.0050	9032131
Dissolved Lithium (Li)	ug/L	<0.50	0.50	9032131	1.40	0.50	9032131	1.46	0.50	9032131
Dissolved Manganese (Mn)	ug/L	<0.050	0.050	9032131	1.80	0.050	9032131	1.83	0.050	9032131
Dissolved Molybdenum (Mo)	ug/L	<0.050	0.050	9032131	1.01	0.050	9032131	1.03	0.050	9032131
Dissolved Nickel (Ni)	ug/L	<0.020	0.020	9032131	1.02	0.020	9032131	1.08	0.020	9032131
Dissolved Phosphorus (P)	ug/L	<2.0	2.0	9032131	2.6	2.0	9032131	2.7	2.0	9032131
Dissolved Selenium (Se)	ug/L	<0.040	0.040	9032131	0.300	0.040	9032131	0.325	0.040	9032131
Dissolved Silicon (Si)	ug/L	<50	50	9032131	2930	50	9032131	3060	50	9032131
Dissolved Silver (Ag)	ug/L	<0.0050	0.0050	9032131	<0.0050	0.0050	9032131	<0.0050	0.0050	9032131
Dissolved Strontium (Sr)	ug/L	<0.050	0.050	9032131	117	0.050	9032131	121	0.050	9032131
Dissolved Thallium (Tl)	ug/L	<0.0020	0.0020	9032131	<0.0020	0.0020	9032131	<0.0020	0.0020	9032131
Dissolved Tin (Sn)	ug/L	<0.20	0.20	9032131	<0.20	0.20	9032131	<0.20	0.20	9032131
Dissolved Titanium (Ti)	ug/L	<0.50	0.50	9032131	0.97	0.50	9032131	0.82	0.50	9032131
Dissolved Uranium (U)	ug/L	<0.0020	0.0020	9032131	0.979	0.0020	9032131	1.02	0.0020	9032131
Dissolved Vanadium (V)	ug/L	<0.20	0.20	9032131	0.34	0.20	9032131	0.33	0.20	9032131

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Maxxam Job #: B848821
Report Date: 2018/07/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TR3218			TR3219			TR3219		
Sampling Date		2018/06/17 17:00			2018/06/17 09:30			2018/06/17 09:30		
COC Number		555908-05-01			555908-05-01			555908-05-01		
	UNITS	TRIP BLANK Lab-Dup	RDL	QC Batch	COFFEE MIX	RDL	QC Batch	COFFEE MIX Lab-Dup	RDL	QC Batch
Dissolved Zinc (Zn)	ug/L	<0.10	0.10	9032131	3.92	0.10	9032131	4.03	0.10	9032131
Dissolved Zirconium (Zr)	ug/L	<0.10	0.10	9032131	<0.10	0.10	9032131	<0.10	0.10	9032131
Dissolved Calcium (Ca)	mg/L				23.9	0.050	9030107			
Dissolved Magnesium (Mg)	mg/L				6.83	0.050	9030107			
Dissolved Potassium (K)	mg/L				0.811	0.050	9030107			
Dissolved Sodium (Na)	mg/L				1.92	0.050	9030107			
Dissolved Sulphur (S)	mg/L				7.2	3.0	9030107			
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B848821
Report Date: 2018/07/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TR3220	TR3242		
Sampling Date		2018/06/17 10:00			
COC Number		555908-05-01	555908-05-01		
	UNITS	YT-24 MIX	SAMPLE C	RDL	QC Batch
Calculated Parameters					
Dissolved Hardness (CaCO3)	mg/L	92.7	54.2	0.50	9031531
Elements					
Dissolved Mercury (Hg)	ug/L	<0.0020	0.0072	0.0020	9033916
Dissolved Metals by ICPMS					
Dissolved Aluminum (Al)	ug/L	33.1	165	0.50	9032131
Dissolved Antimony (Sb)	ug/L	0.106	0.094	0.020	9032131
Dissolved Arsenic (As)	ug/L	0.440	0.439	0.020	9032131
Dissolved Barium (Ba)	ug/L	40.8	30.0	0.020	9032131
Dissolved Beryllium (Be)	ug/L	<0.010	0.024	0.010	9032131
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	0.0050	9032131
Dissolved Boron (B)	ug/L	<10	<10	10	9032131
Dissolved Cadmium (Cd)	ug/L	0.0372	0.0111	0.0050	9032131
Dissolved Chromium (Cr)	ug/L	<0.10	0.42	0.10	9032131
Dissolved Cobalt (Co)	ug/L	0.0204	0.0643	0.0050	9032131
Dissolved Copper (Cu)	ug/L	0.973	2.70	0.050	9032131
Dissolved Iron (Fe)	ug/L	24.2	124	1.0	9032131
Dissolved Lead (Pb)	ug/L	0.0188	0.0076	0.0050	9032131
Dissolved Lithium (Li)	ug/L	1.48	1.23	0.50	9032131
Dissolved Manganese (Mn)	ug/L	2.00	3.14	0.050	9032131
Dissolved Molybdenum (Mo)	ug/L	1.06	0.189	0.050	9032131
Dissolved Nickel (Ni)	ug/L	1.13	1.47	0.020	9032131
Dissolved Phosphorus (P)	ug/L	<2.0	7.1	2.0	9032131
Dissolved Selenium (Se)	ug/L	0.324	0.091	0.040	9032131
Dissolved Silicon (Si)	ug/L	3110	3890	50	9032131
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	0.0050	9032131
Dissolved Strontium (Sr)	ug/L	122	77.5	0.050	9032131
Dissolved Thallium (Tl)	ug/L	<0.0020	<0.0020	0.0020	9032131
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	0.20	9032131
Dissolved Titanium (Ti)	ug/L	0.66	1.82	0.50	9032131
Dissolved Uranium (U)	ug/L	1.11	1.63	0.0020	9032131
Dissolved Vanadium (V)	ug/L	0.35	0.48	0.20	9032131
Dissolved Zinc (Zn)	ug/L	1.44	0.55	0.10	9032131
RDL = Reportable Detection Limit					

Maxxam Job #: B848821
Report Date: 2018/07/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TR3220	TR3242		
Sampling Date		2018/06/17 10:00			
COC Number		555908-05-01	555908-05-01		
	UNITS	YT-24 MIX	SAMPLE C	RDL	QC Batch
Dissolved Zirconium (Zr)	ug/L	<0.10	0.73	0.10	9032131
Dissolved Calcium (Ca)	mg/L	25.5	14.8	0.050	9030107
Dissolved Magnesium (Mg)	mg/L	7.06	4.18	0.050	9030107
Dissolved Potassium (K)	mg/L	0.804	0.958	0.050	9030107
Dissolved Sodium (Na)	mg/L	1.96	2.18	0.050	9030107
Dissolved Sulphur (S)	mg/L	7.4	6.2	3.0	9030107
RDL = Reportable Detection Limit					

Maxxam Job #: B848821
Report Date: 2018/07/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		TR3183		TR3217			TR3217		
Sampling Date		2018/06/16 14:55		2018/06/16 17:00			2018/06/16 17:00		
COC Number		555908-01-01		555908-04-01			555908-04-01		
	UNITS	CC-1.0	QC Batch	FIELD BLANK	RDL	QC Batch	FIELD BLANK Lab-Dup	RDL	QC Batch
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	332	9031526	<0.50	0.50	9031526			
Elements									
Total Mercury (Hg)	ug/L	0.0025	9034463	<0.0020	0.0020	9031949			
Total Metals by ICPMS									
Total Aluminum (Al)	ug/L	60.8	9031890	0.56	0.50	9031890	<0.50	0.50	9031890
Total Antimony (Sb)	ug/L	0.206	9031890	<0.020	0.020	9031890	<0.020	0.020	9031890
Total Arsenic (As)	ug/L	1.32	9031890	<0.020	0.020	9031890	<0.020	0.020	9031890
Total Barium (Ba)	ug/L	81.8	9031890	<0.020	0.020	9031890	<0.020	0.020	9031890
Total Beryllium (Be)	ug/L	<0.010	9031890	<0.010	0.010	9031890	<0.010	0.010	9031890
Total Bismuth (Bi)	ug/L	<0.0050	9031890	<0.0050	0.0050	9031890	<0.0050	0.0050	9031890
Total Boron (B)	ug/L	<10	9031890	<10	10	9031890	<10	10	9031890
Total Cadmium (Cd)	ug/L	0.0077	9031890	<0.0050	0.0050	9031890	<0.0050	0.0050	9031890
Total Chromium (Cr)	ug/L	0.25	9031890	<0.10	0.10	9031890	<0.10	0.10	9031890
Total Cobalt (Co)	ug/L	0.0732	9031890	<0.0050	0.0050	9031890	<0.0050	0.0050	9031890
Total Copper (Cu)	ug/L	1.21	9031890	<0.050	0.050	9031890	<0.050	0.050	9031890
Total Iron (Fe)	ug/L	70.4	9031890	<1.0	1.0	9031890	<1.0	1.0	9031890
Total Lead (Pb)	ug/L	0.0376	9031890	<0.0050	0.0050	9031890	<0.0050	0.0050	9031890
Total Lithium (Li)	ug/L	4.28	9031890	<0.50	0.50	9031890	<0.50	0.50	9031890
Total Manganese (Mn)	ug/L	5.98	9031890	<0.050	0.050	9031890	<0.050	0.050	9031890
Total Molybdenum (Mo)	ug/L	0.311	9031890	<0.050	0.050	9031890	<0.050	0.050	9031890
Total Nickel (Ni)	ug/L	0.625	9031890	<0.020	0.020	9031890	<0.020	0.020	9031890
Total Phosphorus (P)	ug/L	5.4	9031890	<2.0	2.0	9031890	<2.0	2.0	9031890
Total Selenium (Se)	ug/L	0.242	9031890	<0.040	0.040	9031890	<0.040	0.040	9031890
Total Silicon (Si)	ug/L	5340	9031890	<50	50	9031890	<50	50	9031890
Total Silver (Ag)	ug/L	<0.0050	9031890	<0.0050	0.0050	9031890	<0.0050	0.0050	9031890
Total Strontium (Sr)	ug/L	892	9031890	<0.050	0.050	9031890	<0.050	0.050	9031890
Total Thallium (Tl)	ug/L	0.0032	9031890	<0.0020	0.0020	9031890	<0.0020	0.0020	9031890
Total Tin (Sn)	ug/L	<0.20	9031890	<0.20	0.20	9031890	<0.20	0.20	9031890
Total Titanium (Ti)	ug/L	2.34	9031890	<0.50	0.50	9031890	<0.50	0.50	9031890
Total Uranium (U)	ug/L	23.1	9031890	<0.0020	0.0020	9031890	<0.0020	0.0020	9031890
Total Vanadium (V)	ug/L	0.44	9031890	<0.20	0.20	9031890	<0.20	0.20	9031890
RDL = Reportable Detection Limit									
Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B848821
Report Date: 2018/07/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		TR3183		TR3217			TR3217		
Sampling Date		2018/06/16 14:55		2018/06/16 17:00			2018/06/16 17:00		
COC Number		555908-01-01		555908-04-01			555908-04-01		
	UNITS	CC-1.0	QC Batch	FIELD BLANK	RDL	QC Batch	FIELD BLANK Lab-Dup	RDL	QC Batch
Total Zinc (Zn)	ug/L	0.47	9031890	<0.10	0.10	9031890	<0.10	0.10	9031890
Total Zirconium (Zr)	ug/L	0.17	9031890	<0.10	0.10	9031890	<0.10	0.10	9031890
Total Calcium (Ca)	mg/L	83.8	9030108	<0.050	0.050	9030108			
Total Magnesium (Mg)	mg/L	29.7	9030108	<0.050	0.050	9030108			
Total Potassium (K)	mg/L	4.74	9030108	<0.050	0.050	9030108			
Total Sodium (Na)	mg/L	4.25	9030108	<0.050	0.050	9030108			
Total Sulphur (S)	mg/L	47.3	9030108	<3.0	3.0	9030108			
RDL = Reportable Detection Limit									
Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B848821
Report Date: 2018/07/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		TR3218			TR3218		
Sampling Date		2018/06/17 17:00			2018/06/17 17:00		
COC Number		555908-05-01			555908-05-01		
	UNITS	TRIP BLANK	RDL	QC Batch	TRIP BLANK Lab-Dup	RDL	QC Batch
Calculated Parameters							
Total Hardness (CaCO3)	mg/L	<0.50	0.50	9031526			
Elements							
Total Mercury (Hg)	ug/L	<0.0020	0.0020	9031949			
Total Metals by ICPMS							
Total Aluminum (Al)	ug/L	<0.50	0.50	9031890	<0.50	0.50	9031890
Total Antimony (Sb)	ug/L	<0.020	0.020	9031890	<0.020	0.020	9031890
Total Arsenic (As)	ug/L	<0.020	0.020	9031890	<0.020	0.020	9031890
Total Barium (Ba)	ug/L	<0.020	0.020	9031890	<0.020	0.020	9031890
Total Beryllium (Be)	ug/L	<0.010	0.010	9031890	<0.010	0.010	9031890
Total Bismuth (Bi)	ug/L	<0.0050	0.0050	9031890	<0.0050	0.0050	9031890
Total Boron (B)	ug/L	<10	10	9031890	<10	10	9031890
Total Cadmium (Cd)	ug/L	<0.0050	0.0050	9031890	<0.0050	0.0050	9031890
Total Chromium (Cr)	ug/L	<0.10	0.10	9031890	<0.10	0.10	9031890
Total Cobalt (Co)	ug/L	<0.0050	0.0050	9031890	<0.0050	0.0050	9031890
Total Copper (Cu)	ug/L	<0.050	0.050	9031890	<0.050	0.050	9031890
Total Iron (Fe)	ug/L	<1.0	1.0	9031890	<1.0	1.0	9031890
Total Lead (Pb)	ug/L	<0.0050	0.0050	9031890	<0.0050	0.0050	9031890
Total Lithium (Li)	ug/L	<0.50	0.50	9031890	<0.50	0.50	9031890
Total Manganese (Mn)	ug/L	<0.050	0.050	9031890	<0.050	0.050	9031890
Total Molybdenum (Mo)	ug/L	<0.050	0.050	9031890	<0.050	0.050	9031890
Total Nickel (Ni)	ug/L	<0.020	0.020	9031890	<0.020	0.020	9031890
Total Phosphorus (P)	ug/L	<2.0	2.0	9031890	<2.0	2.0	9031890
Total Selenium (Se)	ug/L	<0.040	0.040	9031890	<0.040	0.040	9031890
Total Silicon (Si)	ug/L	<50	50	9031890	<50	50	9031890
Total Silver (Ag)	ug/L	<0.0050	0.0050	9031890	<0.0050	0.0050	9031890
Total Strontium (Sr)	ug/L	<0.050	0.050	9031890	<0.050	0.050	9031890
Total Thallium (Tl)	ug/L	<0.0020	0.0020	9031890	<0.0020	0.0020	9031890
Total Tin (Sn)	ug/L	<0.20	0.20	9031890	<0.20	0.20	9031890
Total Titanium (Ti)	ug/L	<0.50	0.50	9031890	<0.50	0.50	9031890
Total Uranium (U)	ug/L	<0.0020	0.0020	9031890	<0.0020	0.0020	9031890
Total Vanadium (V)	ug/L	<0.20	0.20	9031890	<0.20	0.20	9031890
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate							

Maxxam Job #: B848821
Report Date: 2018/07/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		TR3218			TR3218		
Sampling Date		2018/06/17 17:00			2018/06/17 17:00		
COC Number		555908-05-01			555908-05-01		
	UNITS	TRIP BLANK	RDL	QC Batch	TRIP BLANK Lab-Dup	RDL	QC Batch
Total Zinc (Zn)	ug/L	<0.10	0.10	9031890	<0.10	0.10	9031890
Total Zirconium (Zr)	ug/L	<0.10	0.10	9031890	<0.10	0.10	9031890
Total Calcium (Ca)	mg/L	<0.050	0.050	9030108			
Total Magnesium (Mg)	mg/L	<0.050	0.050	9030108			
Total Potassium (K)	mg/L	<0.050	0.050	9030108			
Total Sodium (Na)	mg/L	<0.050	0.050	9030108			
Total Sulphur (S)	mg/L	<3.0	3.0	9030108			
RDL = Reportable Detection Limit							
Lab-Dup = Laboratory Initiated Duplicate							

Maxxam Job #: B848821
Report Date: 2018/07/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TR3182		TR3184	TR3185	TR3186	TR3187		
Sampling Date		2018/06/16 12:31		2018/06/16 15:13	2018/06/16 12:57	2018/06/16 10:35	2018/06/16 16:19		
COC Number		555908-01-01		555908-01-01	555908-01-01	555908-01-01	555908-01-01		
	UNITS	CC-0.5	QC Batch	CC-1.5	CC-3.5	CC-4.5	CC-6.0	RDL	QC Batch
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	54.6	9031526	96.0	99.6	61.8	11.2	0.50	9031526
Elements									
Total Mercury (Hg)	ug/L	0.0069	9033715	0.0073	0.0058	0.0062	0.0089	0.0020	9034080
Total Metals by ICPMS									
Total Aluminum (Al)	ug/L	255	9033022	253	176	271	357	3.0	9033022
Total Antimony (Sb)	ug/L	0.096	9033022	0.107	0.102	0.096	0.074	0.020	9033022
Total Arsenic (As)	ug/L	0.454	9033022	0.654	0.466	0.434	0.462	0.020	9033022
Total Barium (Ba)	ug/L	37.6	9033022	33.8	44.4	40.6	16.2	0.050	9033022
Total Beryllium (Be)	ug/L	0.023	9033022	0.032	0.026	0.023	0.046	0.010	9033022
Total Bismuth (Bi)	ug/L	<0.010	9033022	<0.010	<0.010	<0.010	<0.010	0.010	9033022
Total Boron (B)	ug/L	<10	9033022	<10	<10	<10	<10	10	9033022
Total Cadmium (Cd)	ug/L	0.0135	9033022	0.0124	0.0126	0.0127	0.0185	0.0050	9033022
Total Chromium (Cr)	ug/L	0.52	9033022	0.43	0.51	0.55	0.53	0.10	9033022
Total Cobalt (Co)	ug/L	0.094	9033022	0.078	0.109	0.132	0.125	0.010	9033022
Total Copper (Cu)	ug/L	3.30	9033022	2.07	2.06	3.15	2.12	0.10	9033022
Total Iron (Fe)	ug/L	214	9033022	178	175	257	337	5.0	9033022
Total Lead (Pb)	ug/L	0.029	9033022	0.033	0.064	0.062	0.045	0.020	9033022
Total Lithium (Li)	ug/L	0.84	9033022	1.53	0.78	0.74	<0.50	0.50	9033022
Total Manganese (Mn)	ug/L	4.96	9033022	7.03	9.66	7.26	27.2	0.10	9033022
Total Molybdenum (Mo)	ug/L	0.671	9033022	0.121	0.208	0.562	<0.050	0.050	9033022
Total Nickel (Ni)	ug/L	1.48	9033022	0.95	0.87	1.37	1.20	0.10	9033022
Total Phosphorus (P)	ug/L	5.4	9033022	<5.0	<5.0	7.0	8.3	5.0	9033022
Total Selenium (Se)	ug/L	0.088	9033022	0.083	0.072	0.079	0.042	0.040	9033022
Total Silicon (Si)	ug/L	4320	9033022	4200	3810	4040	3940	50	9033022
Total Silver (Ag)	ug/L	<0.010	9033022	<0.010	<0.010	<0.010	<0.010	0.010	9033022
Total Strontium (Sr)	ug/L	71.4	9033022	214	201	87.4	17.6	0.050	9033022
Total Thallium (Tl)	ug/L	0.0067	9033022	0.0035	0.0036	0.0069	0.0031	0.0020	9033022
Total Tin (Sn)	ug/L	<0.20	9033022	<0.20	<0.20	<0.20	<0.20	0.20	9033022
Total Titanium (Ti)	ug/L	3.3	9033022	2.6	3.7	7.0	3.4	2.0	9033022
Total Uranium (U)	ug/L	3.52	9033022	6.09	5.38	3.16	0.690	0.0050	9033022
Total Vanadium (V)	ug/L	0.56	9033022	0.38	0.48	0.66	0.58	0.20	9033022
Total Zinc (Zn)	ug/L	1.0	9033022	<1.0	<1.0	<1.0	1.6	1.0	9033022
RDL = Reportable Detection Limit									

Maxxam Job #: B848821
Report Date: 2018/07/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TR3182		TR3184	TR3185	TR3186	TR3187		
Sampling Date		2018/06/16 12:31		2018/06/16 15:13	2018/06/16 12:57	2018/06/16 10:35	2018/06/16 16:19		
COC Number		555908-01-01		555908-01-01	555908-01-01	555908-01-01	555908-01-01		
	UNITS	CC-0.5	QC Batch	CC-1.5	CC-3.5	CC-4.5	CC-6.0	RDL	QC Batch
Total Zirconium (Zr)	ug/L	0.55	9033022	0.55	0.52	0.50	0.59	0.10	9033022
Total Calcium (Ca)	mg/L	14.3	9030108	25.4	26.9	16.1	3.09	0.25	9030108
Total Magnesium (Mg)	mg/L	4.60	9030108	7.91	7.90	5.23	0.83	0.25	9030108
Total Potassium (K)	mg/L	0.98	9030108	1.56	1.71	1.09	<0.25	0.25	9030108
Total Sodium (Na)	mg/L	2.37	9030108	2.05	2.66	2.42	0.76	0.25	9030108
Total Sulphur (S)	mg/L	7.0	9030108	13.3	14.5	8.3	<3.0	3.0	9030108
RDL = Reportable Detection Limit									

Maxxam Job #: B848821
Report Date: 2018/07/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TR3187			TR3188	TR3189	TR3192	TR3193		
Sampling Date		2018/06/16 16:19			2018/06/16 15:52	2018/06/16 14:30	2018/06/16 11:26	2018/06/16 11:50		
COC Number		555908-01-01			555908-01-01	555908-01-01	555908-02-01	555908-02-01		
	UNITS	CC-6.0 Lab-Dup	RDL	QC Batch	CC-A	CC-B	CC-X	LATTE MIX	RDL	QC Batch

Calculated Parameters

Total Hardness (CaCO3)	mg/L				34.6	98.1	63.8	59.2	0.50	9031526
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Elements

Total Mercury (Hg)	ug/L	0.0090	0.0020	9034080	0.0087	0.0061	0.0062	0.0080	0.0020	9034080
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Total Metals by ICPMS

Total Aluminum (Al)	ug/L				300	213	311	250	3.0	9033022
Total Antimony (Sb)	ug/L				0.087	0.102	0.103	0.093	0.020	9033022
Total Arsenic (As)	ug/L				0.544	0.574	0.471	0.436	0.020	9033022
Total Barium (Ba)	ug/L				19.4	34.2	42.9	37.3	0.050	9033022
Total Beryllium (Be)	ug/L				0.043	0.033	0.024	0.023	0.010	9033022
Total Bismuth (Bi)	ug/L				<0.010	<0.010	<0.010	<0.010	0.010	9033022
Total Boron (B)	ug/L				<10	<10	<10	<10	10	9033022
Total Cadmium (Cd)	ug/L				0.0123	0.0102	0.0153	0.0129	0.0050	9033022
Total Chromium (Cr)	ug/L				0.55	0.41	0.60	0.51	0.10	9033022
Total Cobalt (Co)	ug/L				0.087	0.090	0.166	0.108	0.010	9033022
Total Copper (Cu)	ug/L				2.37	1.97	3.43	3.21	0.10	9033022
Total Iron (Fe)	ug/L				226	186	319	219	5.0	9033022
Total Lead (Pb)	ug/L				0.032	0.030	0.096	0.027	0.020	9033022
Total Lithium (Li)	ug/L				0.82	1.24	0.77	0.77	0.50	9033022
Total Manganese (Mn)	ug/L				8.10	8.53	9.23	6.03	0.10	9033022
Total Molybdenum (Mo)	ug/L				0.060	0.172	0.578	0.579	0.050	9033022
Total Nickel (Ni)	ug/L				1.07	0.83	1.47	1.45	0.10	9033022
Total Phosphorus (P)	ug/L				6.9	5.1	10.6	6.2	5.0	9033022
Total Selenium (Se)	ug/L				0.044	0.065	0.080	0.074	0.040	9033022
Total Silicon (Si)	ug/L				3490	3920	4130	4170	50	9033022
Total Silver (Ag)	ug/L				<0.010	<0.010	<0.010	<0.010	0.010	9033022
Total Strontium (Sr)	ug/L				64.1	232	88.2	85.4	0.050	9033022
Total Thallium (Tl)	ug/L				0.0027	0.0045	0.0079	0.0062	0.0020	9033022
Total Tin (Sn)	ug/L				<0.20	<0.20	<0.20	<0.20	0.20	9033022
Total Titanium (Ti)	ug/L				3.4	4.2	9.3	3.8	2.0	9033022
Total Uranium (U)	ug/L				2.36	5.87	3.14	3.65	0.0050	9033022
Total Vanadium (V)	ug/L				0.53	0.38	0.84	0.57	0.20	9033022

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Maxxam Job #: B848821
Report Date: 2018/07/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TR3187			TR3188	TR3189	TR3192	TR3193		
Sampling Date		2018/06/16 16:19			2018/06/16 15:52	2018/06/16 14:30	2018/06/16 11:26	2018/06/16 11:50		
COC Number		555908-01-01			555908-01-01	555908-01-01	555908-02-01	555908-02-01		
	UNITS	CC-6.0 Lab-Dup	RDL	QC Batch	CC-A	CC-B	CC-X	LATTE MIX	RDL	QC Batch
Total Zinc (Zn)	ug/L				1.1	<1.0	1.7	<1.0	1.0	9033022
Total Zirconium (Zr)	ug/L				0.71	0.48	0.49	0.53	0.10	9033022
Total Calcium (Ca)	mg/L				9.45	26.0	16.6	15.5	0.25	9030108
Total Magnesium (Mg)	mg/L				2.66	8.06	5.43	4.99	0.25	9030108
Total Potassium (K)	mg/L				0.60	1.88	1.13	1.07	0.25	9030108
Total Sodium (Na)	mg/L				1.47	2.10	2.49	2.37	0.25	9030108
Total Sulphur (S)	mg/L				4.8	14.1	8.2	7.7	3.0	9030108
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B848821
Report Date: 2018/07/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TR3194	TR3195	TR3196	TR3197	TR3198	TR3199		
Sampling Date		2018/06/17 09:45	2018/06/17 07:45	2018/06/17 08:35	2018/06/17 08:55	2018/06/17 09:20	2018/06/17 09:23		
COC Number		555908-02-01	555908-02-01	555908-02-01	555908-02-01	555908-02-01	555908-02-01		
	UNITS	HC-2.5	HC-5.0	HC-A	HC-B	HC-C	HALFWAY MIX	RDL	QC Batch

Calculated Parameters									
Total Hardness (CaCO3)	mg/L	66.1	83.2	83.6	80.7	78.2	90.0	0.50	9031526
Elements									
Total Mercury (Hg)	ug/L	0.0061	0.0043	0.0040	0.0047	0.0052	<0.0020	0.0020	9034080
Total Metals by ICPMS									
Total Aluminum (Al)	ug/L	188	88.7	94.6	120	127	213 (1)	3.0	9033022
Total Antimony (Sb)	ug/L	0.235	0.196	0.208	0.236	0.239	0.119	0.020	9033022
Total Arsenic (As)	ug/L	0.953	0.662	0.720	0.813	0.805	0.625	0.020	9033022
Total Barium (Ba)	ug/L	31.0	38.1	38.7	34.2	33.3	50.8	0.050	9033022
Total Beryllium (Be)	ug/L	0.028	0.019	0.021	0.028	0.028	0.017	0.010	9033022
Total Bismuth (Bi)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	9033022
Total Boron (B)	ug/L	<10	<10	<10	<10	<10	<10	10	9033022
Total Cadmium (Cd)	ug/L	0.0089	0.0066	0.0056	0.0050	0.0066	0.0691	0.0050	9033022
Total Chromium (Cr)	ug/L	0.51	0.35	0.36	0.41	0.43	0.40	0.10	9033022
Total Cobalt (Co)	ug/L	0.096	0.066	0.064	0.070	0.070	0.207	0.010	9033022
Total Copper (Cu)	ug/L	1.91	1.96	1.82	1.83	1.81	1.56	0.10	9033022
Total Iron (Fe)	ug/L	158	77.6	80.4	98.5	104	364 (2)	5.0	9033022
Total Lead (Pb)	ug/L	<0.020	<0.020	<0.020	<0.020	<0.020	0.242	0.020	9033022
Total Lithium (Li)	ug/L	0.98	0.86	0.78	0.91	0.97	1.65	0.50	9033022
Total Manganese (Mn)	ug/L	5.07	1.37	1.50	2.88	4.56	21.2	0.10	9033022
Total Molybdenum (Mo)	ug/L	0.813	0.563	0.608	0.706	0.707	1.06	0.050	9033022
Total Nickel (Ni)	ug/L	0.94	0.93	0.84	0.85	0.83	1.84	0.10	9033022
Total Phosphorus (P)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	17.6	5.0	9033022
Total Selenium (Se)	ug/L	0.073	0.067	0.056	0.066	0.060	0.332	0.040	9033022
Total Silicon (Si)	ug/L	4220	3880	4060	4410	4270	3390	50	9033022
Total Silver (Ag)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	9033022
Total Strontium (Sr)	ug/L	196	193	213	214	206	117	0.050	9033022
Total Thallium (Tl)	ug/L	0.0037	0.0041	0.0041	0.0033	0.0029	0.0065	0.0020	9033022
Total Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	9033022
Total Titanium (Ti)	ug/L	2.2	<2.0	<2.0	<2.0	<2.0	6.0	2.0	9033022

RDL = Reportable Detection Limit

(1) Duplicate RPD for Aluminum above control limit - Non-homogenous sample - Increased variability of results. Re-analysis yields similar results.
Matrix Spike for Aluminum outside acceptance criteria due to sample matrix interference, re-analysis yields similar results

(2) Matrix Spike for Iron outside acceptance criteria due to sample matrix interference, re-analysis yields similar results

Maxxam Job #: B848821
Report Date: 2018/07/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TR3194	TR3195	TR3196	TR3197	TR3198	TR3199		
Sampling Date		2018/06/17 09:45	2018/06/17 07:45	2018/06/17 08:35	2018/06/17 08:55	2018/06/17 09:20	2018/06/17 09:23		
COC Number		555908-02-01	555908-02-01	555908-02-01	555908-02-01	555908-02-01	555908-02-01		
	UNITS	HC-2.5	HC-5.0	HC-A	HC-B	HC-C	HALFWAY MIX	RDL	QC Batch
Total Uranium (U)	ug/L	15.3	8.40	11.7	14.3	15.0	1.16	0.0050	9033022
Total Vanadium (V)	ug/L	0.47	0.41	0.32	0.38	0.37	0.80	0.20	9033022
Total Zinc (Zn)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	5.7	1.0	9033022
Total Zirconium (Zr)	ug/L	0.60	0.46	0.46	0.53	0.53	0.10	0.10	9033022
Total Calcium (Ca)	mg/L	17.1	22.5	22.0	20.9	20.2	24.1	0.25	9030108
Total Magnesium (Mg)	mg/L	5.66	6.59	7.00	6.95	6.74	7.24	0.25	9030108
Total Potassium (K)	mg/L	1.45	1.78	1.69	1.48	1.48	0.83	0.25	9030108
Total Sodium (Na)	mg/L	1.99	2.50	2.47	2.48	2.36	2.04	0.25	9030108
Total Sulphur (S)	mg/L	6.1	9.0	9.3	8.6	8.0	7.2	3.0	9030108
RDL = Reportable Detection Limit									

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TR3199			TR3200	TR3201	TR3202		
Sampling Date		2018/06/17 09:23			2018/06/17 13:23	2018/06/17 13:10	2018/06/17 13:50		
COC Number		555908-02-01			555908-03-01	555908-03-01	555908-03-01		
	UNITS	HALFWAY MIX Lab-Dup	RDL	QC Batch	IC-0.5	IC-1.5	IC-2.5	RDL	QC Batch
Calculated Parameters									
Total Hardness (CaCO3)	mg/L				42.5	37.9	11.0	0.50	9031526
Elements									
Total Mercury (Hg)	ug/L				0.0050	0.0075	0.0062	0.0020	9034080
Total Metals by ICPMS									
Total Aluminum (Al)	ug/L	262 (1)	3.0	9033022	162	214	152	3.0	9033022
Total Antimony (Sb)	ug/L	0.115	0.020	9033022	0.037	0.070	0.065	0.020	9033022
Total Arsenic (As)	ug/L	0.693	0.020	9033022	0.419	0.241	0.666	0.020	9033022
Total Barium (Ba)	ug/L	49.0	0.050	9033022	13.5	27.1	8.89	0.050	9033022
Total Beryllium (Be)	ug/L	0.012	0.010	9033022	0.017	0.025	0.013	0.010	9033022
Total Bismuth (Bi)	ug/L	<0.010	0.010	9033022	<0.010	<0.010	<0.010	0.010	9033022
Total Boron (B)	ug/L	<10	10	9033022	<10	<10	<10	10	9033022
Total Cadmium (Cd)	ug/L	0.0690	0.0050	9033022	0.0179	0.0113	<0.0050	0.0050	9033022
Total Chromium (Cr)	ug/L	0.50	0.10	9033022	0.56	0.37	0.41	0.10	9033022
Total Cobalt (Co)	ug/L	0.234	0.010	9033022	0.194	0.067	0.067	0.010	9033022
Total Copper (Cu)	ug/L	1.59	0.10	9033022	3.25	2.29	1.51	0.10	9033022
Total Iron (Fe)	ug/L	434	5.0	9033022	193	168	258	5.0	9033022
Total Lead (Pb)	ug/L	0.254	0.020	9033022	0.026	0.022	<0.020	0.020	9033022
Total Lithium (Li)	ug/L	1.62	0.50	9033022	0.70	1.34	<0.50	0.50	9033022
Total Manganese (Mn)	ug/L	21.8	0.10	9033022	11.7	2.92	3.31	0.10	9033022
Total Molybdenum (Mo)	ug/L	1.01	0.050	9033022	0.119	0.180	<0.050	0.050	9033022
Total Nickel (Ni)	ug/L	1.96	0.10	9033022	2.38	1.13	0.77	0.10	9033022
Total Phosphorus (P)	ug/L	21.1	5.0	9033022	6.1	<5.0	<5.0	5.0	9033022
Total Selenium (Se)	ug/L	0.353	0.040	9033022	0.094	0.052	<0.040	0.040	9033022
Total Silicon (Si)	ug/L	3440	50	9033022	2210	3360	2310	50	9033022
Total Silver (Ag)	ug/L	<0.010	0.010	9033022	<0.010	<0.010	<0.010	0.010	9033022
Total Strontium (Sr)	ug/L	117	0.050	9033022	42.8	58.4	15.4	0.050	9033022
Total Thallium (Tl)	ug/L	0.0073	0.0020	9033022	0.0027	0.0042	<0.0020	0.0020	9033022
Total Tin (Sn)	ug/L	<0.20	0.20	9033022	<0.20	<0.20	<0.20	0.20	9033022
Total Titanium (Ti)	ug/L	8.6	2.0	9033022	4.6	2.8	2.0	2.0	9033022
Total Uranium (U)	ug/L	1.12	0.0050	9033022	0.692	1.76	0.639	0.0050	9033022
RDL = Reportable Detection Limit									
Lab-Dup = Laboratory Initiated Duplicate									
(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.									

Maxxam Job #: B848821
Report Date: 2018/07/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TR3199			TR3200	TR3201	TR3202		
Sampling Date		2018/06/17 09:23			2018/06/17 13:23	2018/06/17 13:10	2018/06/17 13:50		
COC Number		555908-02-01			555908-03-01	555908-03-01	555908-03-01		
	UNITS	HALFWAY MIX Lab-Dup	RDL	QC Batch	IC-0.5	IC-1.5	IC-2.5	RDL	QC Batch
Total Vanadium (V)	ug/L	0.98	0.20	9033022	0.59	0.38	0.32	0.20	9033022
Total Zinc (Zn)	ug/L	5.9	1.0	9033022	2.3	<1.0	<1.0	1.0	9033022
Total Zirconium (Zr)	ug/L	0.14	0.10	9033022	0.57	0.47	0.63	0.10	9033022
Total Calcium (Ca)	mg/L				9.89	10.5	2.96	0.25	9030108
Total Magnesium (Mg)	mg/L				4.33	2.86	0.86	0.25	9030108
Total Potassium (K)	mg/L				0.65	0.84	<0.25	0.25	9030108
Total Sodium (Na)	mg/L				1.48	1.81	0.79	0.25	9030108
Total Sulphur (S)	mg/L				6.1	<3.0	<3.0	3.0	9030108
RDL = Reportable Detection Limit									
Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B848821
Report Date: 2018/07/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TR3203		TR3204	TR3205		TR3206		
Sampling Date		2018/06/17 14:20		2018/06/17 14:45	2018/06/17 11:45		2018/06/17 12:10		
COC Number		555908-03-01		555908-03-01	555908-03-01		555908-03-01		
	UNITS	IC-3.0	QC Batch	IC-4.5	ML-A	QC Batch	ML-B	RDL	QC Batch
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	99.5	9031526	53.1	112	9031526	58.7	0.50	9031526
Elements									
Total Mercury (Hg)	ug/L	0.0044	9034080	0.0060	0.0059	9034463	0.0066	0.0020	9034080
Total Metals by ICPMS									
Total Aluminum (Al)	ug/L	212	9032976	187	570	9032976	1510	3.0	9032976
Total Antimony (Sb)	ug/L	0.300	9032976	0.096	0.284	9032976	0.370	0.020	9032976
Total Arsenic (As)	ug/L	1.58	9032976	0.455	1.16	9032976	2.00	0.020	9032976
Total Barium (Ba)	ug/L	35.6	9032976	30.9	69.8	9032976	76.4	0.050	9032976
Total Beryllium (Be)	ug/L	0.031	9032976	0.032	0.057	9032976	0.120	0.010	9032976
Total Bismuth (Bi)	ug/L	<0.010	9032976	<0.010	<0.010	9032976	0.018	0.010	9032976
Total Boron (B)	ug/L	<10	9032976	<10	<10	9032976	<10	10	9032976
Total Cadmium (Cd)	ug/L	0.0098	9032976	0.0134	0.0212	9032976	0.0395	0.0050	9032976
Total Chromium (Cr)	ug/L	0.63	9032976	0.46	1.24	9032976	2.99	0.10	9032976
Total Cobalt (Co)	ug/L	0.166	9032976	0.077	0.417	9032976	1.17	0.010	9032976
Total Copper (Cu)	ug/L	2.33	9032976	2.78	2.84	9032976	5.66	0.10	9032976
Total Iron (Fe)	ug/L	232	9032976	149	705	9032976	2220	5.0	9032976
Total Lead (Pb)	ug/L	0.091	9032976	0.023	0.382	9032976	1.05	0.020	9032976
Total Lithium (Li)	ug/L	0.57	9032976	1.25	0.80	9032976	1.08	0.50	9032976
Total Manganese (Mn)	ug/L	9.65	9032976	4.78	22.2	9032976	53.2	0.10	9032976
Total Molybdenum (Mo)	ug/L	0.399	9032976	0.213	0.418	9032976	0.290	0.050	9032976
Total Nickel (Ni)	ug/L	1.04	9032976	1.47	1.65	9032976	3.51	0.10	9032976
Total Phosphorus (P)	ug/L	9.2	9032976	5.2	27.0	9032976	58.8	5.0	9032976
Total Selenium (Se)	ug/L	0.074	9032976	0.105	0.077	9032976	0.092	0.040	9032976
Total Silicon (Si)	ug/L	4440	9032976	3950	4380	9032976	5640	50	9032976
Total Silver (Ag)	ug/L	<0.010	9032976	<0.010	<0.010	9032976	0.017	0.010	9032976
Total Strontium (Sr)	ug/L	185	9032976	74.0	184	9032976	73.0	0.050	9032976
Total Thallium (Tl)	ug/L	0.0071	9032976	0.0048	0.0088	9032976	0.0140	0.0020	9032976
Total Tin (Sn)	ug/L	<0.20	9032976	<0.20	<0.20	9032976	<0.20	0.20	9032976
Total Titanium (Ti)	ug/L	8.9	9032976	2.3	22.2	9032976	56.9	2.0	9032976
Total Uranium (U)	ug/L	5.83	9032976	1.77	11.3	9032976	3.61	0.0050	9032976
Total Vanadium (V)	ug/L	0.68	9032976	0.45	1.61	9032976	4.87	0.20	9032976
Total Zinc (Zn)	ug/L	<1.0	9032976	<1.0	2.2	9032976	5.6	1.0	9032976
RDL = Reportable Detection Limit									

Maxxam Job #: B848821
Report Date: 2018/07/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TR3203		TR3204	TR3205		TR3206		
Sampling Date		2018/06/17 14:20		2018/06/17 14:45	2018/06/17 11:45		2018/06/17 12:10		
COC Number		555908-03-01		555908-03-01	555908-03-01		555908-03-01		
	UNITS	IC-3.0	QC Batch	IC-4.5	ML-A	QC Batch	ML-B	RDL	QC Batch
Total Zirconium (Zr)	ug/L	0.54	9032976	0.67	0.78	9032976	1.10	0.10	9032976
Total Calcium (Ca)	mg/L	30.8	9030108	14.3	28.1	9030108	17.1	0.25	9030108
Total Magnesium (Mg)	mg/L	5.47	9030108	4.19	10.1	9030108	3.89	0.25	9030108
Total Potassium (K)	mg/L	1.90	9030108	0.99	1.37	9030108	0.98	0.25	9030108
Total Sodium (Na)	mg/L	2.98	9030108	2.18	2.87	9030108	1.54	0.25	9030108
Total Sulphur (S)	mg/L	14.9	9030108	6.2	19.2	9030108	7.3	3.0	9030108
RDL = Reportable Detection Limit									

Maxxam Job #: B848821
Report Date: 2018/07/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TR3207	TR3208	TR3209		TR3214		
Sampling Date		2018/06/17 11:15	2018/06/17 12:30	2018/06/16 11:05		2018/06/17 15:05		
COC Number		555908-03-01	555908-03-01	555908-03-01		555908-04-01		
	UNITS	YT-24-1 (OR ML-1.0)	YT-24-2 (OLD ML-C)	YUK-2.0	QC Batch	YUK-5.0	RDL	QC Batch
Calculated Parameters								
Total Hardness (CaCO3)	mg/L	108	21.2	95.1	9031526	93.0	0.50	9031526
Elements								
Total Mercury (Hg)	ug/L	0.0052	0.0115	<0.0020	9034463	<0.0020	0.0020	9031949
Total Metals by ICPMS								
Total Aluminum (Al)	ug/L	153	341	321	9032976	386	3.0	9032976
Total Antimony (Sb)	ug/L	0.222	0.422	0.129	9032976	0.126	0.020	9032976
Total Arsenic (As)	ug/L	0.736	1.12	0.721	9032976	0.807	0.020	9032976
Total Barium (Ba)	ug/L	61.5	23.6	57.5	9032976	59.5	0.050	9032976
Total Beryllium (Be)	ug/L	0.028	0.046	0.020	9032976	0.024	0.010	9032976
Total Bismuth (Bi)	ug/L	<0.010	<0.010	<0.010	9032976	<0.010	0.010	9032976
Total Boron (B)	ug/L	<10	<10	<10	9032976	<10	10	9032976
Total Cadmium (Cd)	ug/L	0.0096	0.0123	0.0868	9032976	0.0758	0.0050	9032976
Total Chromium (Cr)	ug/L	0.53	0.82	0.52	9032976	0.68	0.10	9032976
Total Cobalt (Co)	ug/L	0.137	0.150	0.273	9032976	0.325	0.010	9032976
Total Copper (Cu)	ug/L	2.37	2.56	1.64	9032976	1.85	0.10	9032976
Total Iron (Fe)	ug/L	158	273	455	9032976	567	5.0	9032976
Total Lead (Pb)	ug/L	0.068	0.062	0.307	9032976	0.330	0.020	9032976
Total Lithium (Li)	ug/L	0.55	<0.50	1.98	9032976	1.81	0.50	9032976
Total Manganese (Mn)	ug/L	7.78	6.49	25.1	9032976	28.1	0.10	9032976
Total Molybdenum (Mo)	ug/L	0.417	0.130	1.03	9032976	1.05	0.050	9032976
Total Nickel (Ni)	ug/L	0.96	1.17	2.33	9032976	2.34	0.10	9032976
Total Phosphorus (P)	ug/L	7.1	8.4	26.5	9032976	28.0	5.0	9032976
Total Selenium (Se)	ug/L	0.078	0.064	0.415	9032976	0.363	0.040	9032976
Total Silicon (Si)	ug/L	4020	3720	3490	9032976	3610	50	9032976
Total Silver (Ag)	ug/L	<0.010	<0.010	<0.010	9032976	<0.010	0.010	9032976
Total Strontium (Sr)	ug/L	186	21.5	126	9032976	126	0.050	9032976
Total Thallium (Tl)	ug/L	0.0052	0.0049	0.0073	9032976	0.0087	0.0020	9032976
Total Tin (Sn)	ug/L	<0.20	<0.20	<0.20	9032976	<0.20	0.20	9032976
Total Titanium (Ti)	ug/L	4.5	4.7	9.6	9032976	12.5	2.0	9032976
Total Uranium (U)	ug/L	3.93	0.371	0.979	9032976	1.10	0.0050	9032976
Total Vanadium (V)	ug/L	0.48	0.71	1.19	9032976	1.41	0.20	9032976
Total Zinc (Zn)	ug/L	<1.0	<1.0	7.3	9032976	7.2	1.0	9032976
RDL = Reportable Detection Limit								

Maxxam Job #: B848821
Report Date: 2018/07/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TR3207	TR3208	TR3209		TR3214		
Sampling Date		2018/06/17 11:15	2018/06/17 12:30	2018/06/16 11:05		2018/06/17 15:05		
COC Number		555908-03-01	555908-03-01	555908-03-01		555908-04-01		
	UNITS	YT-24-1 (OR ML-1.0)	YT-24-2 (OLD ML-C)	YUK-2.0	QC Batch	YUK-5.0	RDL	QC Batch
Total Zirconium (Zr)	ug/L	0.64	0.88	0.13	9032976	0.18	0.10	9032976
Total Calcium (Ca)	mg/L	28.9	6.47	25.5	9030108	25.0	0.25	9030108
Total Magnesium (Mg)	mg/L	8.78	1.22	7.64	9030108	7.43	0.25	9030108
Total Potassium (K)	mg/L	1.79	0.63	0.85	9030108	0.88	0.25	9030108
Total Sodium (Na)	mg/L	3.02	0.93	1.88	9030108	1.97	0.25	9030108
Total Sulphur (S)	mg/L	18.7	<3.0	8.6	9030108	7.7	3.0	9030108
RDL = Reportable Detection Limit								

Maxxam Job #: B848821
Report Date: 2018/07/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TR3215	TR3216		TR3219	TR3220	TR3242		
Sampling Date		2018/06/17	2018/06/17		2018/06/17 09:30	2018/06/17 10:00			
COC Number		555908-04-01	555908-04-01		555908-05-01	555908-05-01	555908-05-01		
	UNITS	SAMPLE A	SAMPLE B	QC Batch	COFFEE MIX	YT-24 MIX	SAMPLE C	RDL	QC Batch
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	86.8	60.2	9031526	87.6	91.1	51.5	0.50	9031526
Elements									
Total Mercury (Hg)	ug/L	0.0046	0.0060	9031949	<0.0020	<0.0020	0.0067	0.0020	9034463
Total Metals by ICPMS									
Total Aluminum (Al)	ug/L	91.6	1970	9032976	310	399	181	3.0	9032976
Total Antimony (Sb)	ug/L	0.208	0.387	9032976	0.128	0.122	0.097	0.020	9032976
Total Arsenic (As)	ug/L	0.743	2.30	9032976	0.708	0.799	0.457	0.020	9032976
Total Barium (Ba)	ug/L	40.5	85.2	9032976	51.3	54.7	30.8	0.050	9032976
Total Beryllium (Be)	ug/L	0.022	0.140	9032976	0.021	0.023	0.030	0.010	9032976
Total Bismuth (Bi)	ug/L	<0.010	0.024	9032976	<0.010	<0.010	<0.010	0.010	9032976
Total Boron (B)	ug/L	<10	<10	9032976	<10	<10	<10	10	9032976
Total Cadmium (Cd)	ug/L	0.0062	0.0410	9032976	0.0731	0.0775	0.0132	0.0050	9032976
Total Chromium (Cr)	ug/L	0.41	3.79	9032976	0.61	1.00	0.47	0.10	9032976
Total Cobalt (Co)	ug/L	0.067	1.40	9032976	0.279	0.333	0.078	0.010	9032976
Total Copper (Cu)	ug/L	2.03	6.55	9032976	1.80	1.90	2.79	0.10	9032976
Total Iron (Fe)	ug/L	81.4	2860	9032976	473	583	142	5.0	9032976
Total Lead (Pb)	ug/L	<0.020	1.33	9032976	0.283	0.342	0.021	0.020	9032976
Total Lithium (Li)	ug/L	0.95	1.36	9032976	1.65	1.75	1.21	0.50	9032976
Total Manganese (Mn)	ug/L	1.45	61.4	9032976	25.4	29.6	4.68	0.10	9032976
Total Molybdenum (Mo)	ug/L	0.610	0.313	9032976	1.03	1.04	0.209	0.050	9032976
Total Nickel (Ni)	ug/L	0.96	4.33	9032976	2.08	2.31	1.46	0.10	9032976
Total Phosphorus (P)	ug/L	<5.0	61.1	9032976	26.1	26.3	5.2	5.0	9032976
Total Selenium (Se)	ug/L	0.074	0.121	9032976	0.337	0.372	0.092	0.040	9032976
Total Silicon (Si)	ug/L	4150	6700	9032976	3570	3620	3800	50	9032976
Total Silver (Ag)	ug/L	<0.010	0.022	9032976	<0.010	<0.010	<0.010	0.010	9032976
Total Strontium (Sr)	ug/L	213	76.1	9032976	121	123	73.7	0.050	9032976
Total Thallium (Tl)	ug/L	0.0045	0.0171	9032976	0.0074	0.0088	0.0048	0.0020	9032976
Total Tin (Sn)	ug/L	<0.20	<0.20	9032976	<0.20	<0.20	<0.20	0.20	9032976
Total Titanium (Ti)	ug/L	<2.0	68.6	9032976	10.7	13.9	2.4	2.0	9032976
Total Uranium (U)	ug/L	9.13	3.78	9032976	1.03	1.17	1.77	0.0050	9032976
Total Vanadium (V)	ug/L	0.39	6.35	9032976	1.14	1.41	0.43	0.20	9032976
Total Zinc (Zn)	ug/L	<1.0	6.8	9032976	11.5	7.6	<1.0	1.0	9032976
RDL = Reportable Detection Limit									

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LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TR3215	TR3216		TR3219	TR3220	TR3242		
Sampling Date		2018/06/17	2018/06/17		2018/06/17 09:30	2018/06/17 10:00			
COC Number		555908-04-01	555908-04-01		555908-05-01	555908-05-01	555908-05-01		
	UNITS	SAMPLE A	SAMPLE B	QC Batch	COFFEE MIX	YT-24 MIX	SAMPLE C	RDL	QC Batch
Total Zirconium (Zr)	ug/L	0.49	1.24	9032976	0.15	0.26	0.67	0.10	9032976
Total Calcium (Ca)	mg/L	23.0	17.5	9030108	23.6	24.5	13.7	0.25	9030108
Total Magnesium (Mg)	mg/L	7.14	4.00	9030108	6.97	7.29	4.17	0.25	9030108
Total Potassium (K)	mg/L	1.87	1.00	9030108	0.89	0.90	1.00	0.25	9030108
Total Sodium (Na)	mg/L	2.63	1.49	9030108	1.96	2.00	2.19	0.25	9030108
Total Sulphur (S)	mg/L	10.0	7.5	9030108	7.0	7.5	6.2	3.0	9030108
RDL = Reportable Detection Limit									

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LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TR3242		
Sampling Date				
COC Number		555908-05-01		
	UNITS	SAMPLE C Lab-Dup	RDL	QC Batch
Total Metals by ICPMS				
Total Aluminum (Al)	ug/L	200	3.0	9032976
Total Antimony (Sb)	ug/L	0.097	0.020	9032976
Total Arsenic (As)	ug/L	0.464	0.020	9032976
Total Barium (Ba)	ug/L	32.4	0.050	9032976
Total Beryllium (Be)	ug/L	0.034	0.010	9032976
Total Bismuth (Bi)	ug/L	<0.010	0.010	9032976
Total Boron (B)	ug/L	<10	10	9032976
Total Cadmium (Cd)	ug/L	0.0149	0.0050	9032976
Total Chromium (Cr)	ug/L	0.45	0.10	9032976
Total Cobalt (Co)	ug/L	0.080	0.010	9032976
Total Copper (Cu)	ug/L	2.80	0.10	9032976
Total Iron (Fe)	ug/L	145	5.0	9032976
Total Lead (Pb)	ug/L	0.024	0.020	9032976
Total Lithium (Li)	ug/L	1.34	0.50	9032976
Total Manganese (Mn)	ug/L	4.55	0.10	9032976
Total Molybdenum (Mo)	ug/L	0.229	0.050	9032976
Total Nickel (Ni)	ug/L	1.43	0.10	9032976
Total Phosphorus (P)	ug/L	5.5	5.0	9032976
Total Selenium (Se)	ug/L	0.096	0.040	9032976
Total Silicon (Si)	ug/L	3710	50	9032976
Total Silver (Ag)	ug/L	<0.010	0.010	9032976
Total Strontium (Sr)	ug/L	73.4	0.050	9032976
Total Thallium (Tl)	ug/L	0.0046	0.0020	9032976
Total Tin (Sn)	ug/L	<0.20	0.20	9032976
Total Titanium (Ti)	ug/L	2.5	2.0	9032976
Total Uranium (U)	ug/L	1.83	0.0050	9032976
Total Vanadium (V)	ug/L	0.42	0.20	9032976
Total Zinc (Zn)	ug/L	<1.0	1.0	9032976
Total Zirconium (Zr)	ug/L	0.68	0.10	9032976
RDL = Reportable Detection Limit				
Lab-Dup = Laboratory Initiated Duplicate				

GENERAL COMMENTS

Sample TR3182 [CC-0.5] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.}

Sample TR3183 [CC-1.0] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.}

Sample TR3184 [CC-1.5] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.}

Sample TR3185 [CC-3.5] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.}

Sample TR3186 [CC-4.5] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.}

Sample TR3187 [CC-6.0] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.}

Sample TR3188 [CC-A] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.}

Sample TR3189 [CC-B] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.}

Sample TR3192 [CC-X] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.}

Sample TR3193 [LATTE MIX] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.}

Sample TR3209 [YUK-2.0] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.}

Sample TR3217 [FIELD BLANK] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.}

Sample TR3184, Elements by ICPMS Low Level (dissolved): Test repeated.

Sample TR3185, Elements by ICPMS Low Level (dissolved): Test repeated.

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9031504	Total Suspended Solids	2018/06/21			109	80 - 120	<1.0	mg/L		
9031890	Total Aluminum (Al)	2018/06/20	97	80 - 120	100	80 - 120	<0.50	ug/L	NC	20
9031890	Total Antimony (Sb)	2018/06/20	97	80 - 120	99	80 - 120	<0.020	ug/L	NC	20
9031890	Total Arsenic (As)	2018/06/20	98	80 - 120	102	80 - 120	<0.020	ug/L	NC	20
9031890	Total Barium (Ba)	2018/06/20	95	80 - 120	98	80 - 120	<0.020	ug/L	NC	20
9031890	Total Beryllium (Be)	2018/06/20	97	80 - 120	101	80 - 120	<0.010	ug/L	NC	20
9031890	Total Bismuth (Bi)	2018/06/20	96	80 - 120	99	80 - 120	<0.0050	ug/L	NC	20
9031890	Total Boron (B)	2018/06/20	94	80 - 120	97	80 - 120	<10	ug/L	NC	20
9031890	Total Cadmium (Cd)	2018/06/20	98	80 - 120	102	80 - 120	<0.0050	ug/L	NC	20
9031890	Total Chromium (Cr)	2018/06/20	92	80 - 120	96	80 - 120	<0.10	ug/L	NC	20
9031890	Total Cobalt (Co)	2018/06/20	94	80 - 120	98	80 - 120	<0.0050	ug/L	NC	20
9031890	Total Copper (Cu)	2018/06/20	93	80 - 120	96	80 - 120	<0.050	ug/L	NC	20
9031890	Total Iron (Fe)	2018/06/20	97	80 - 120	102	80 - 120	<1.0	ug/L	NC	20
9031890	Total Lead (Pb)	2018/06/20	95	80 - 120	100	80 - 120	<0.0050	ug/L	NC	20
9031890	Total Lithium (Li)	2018/06/20	94	80 - 120	100	80 - 120	<0.50	ug/L	NC	20
9031890	Total Manganese (Mn)	2018/06/20	96	80 - 120	100	80 - 120	<0.050	ug/L	NC	20
9031890	Total Molybdenum (Mo)	2018/06/20	97	80 - 120	101	80 - 120	<0.050	ug/L	NC	20
9031890	Total Nickel (Ni)	2018/06/20	95	80 - 120	98	80 - 120	<0.020	ug/L	NC	20
9031890	Total Phosphorus (P)	2018/06/20	97	80 - 120	99	80 - 120	<2.0	ug/L	NC	20
9031890	Total Selenium (Se)	2018/06/20	96	80 - 120	99	80 - 120	<0.040	ug/L	NC	20
9031890	Total Silicon (Si)	2018/06/20	99	80 - 120	103	80 - 120	<50	ug/L	NC	20
9031890	Total Silver (Ag)	2018/06/20	96	80 - 120	99	80 - 120	<0.0050	ug/L	NC	20
9031890	Total Strontium (Sr)	2018/06/20	98	80 - 120	103	80 - 120	<0.050	ug/L	NC	20
9031890	Total Thallium (Tl)	2018/06/20	96	80 - 120	99	80 - 120	<0.0020	ug/L	NC	20
9031890	Total Tin (Sn)	2018/06/20	97	80 - 120	101	80 - 120	<0.20	ug/L	NC	20
9031890	Total Titanium (Ti)	2018/06/20	98	80 - 120	101	80 - 120	<0.50	ug/L	NC	20
9031890	Total Uranium (U)	2018/06/20	99	80 - 120	104	80 - 120	<0.0020	ug/L	NC	20
9031890	Total Vanadium (V)	2018/06/20	96	80 - 120	99	80 - 120	<0.20	ug/L	NC	20
9031890	Total Zinc (Zn)	2018/06/20	NC	80 - 120	101	80 - 120	<0.10	ug/L	NC	20
9031890	Total Zirconium (Zr)	2018/06/20	96	80 - 120	100	80 - 120	<0.10	ug/L	NC	20
9031949	Total Mercury (Hg)	2018/06/20	91	80 - 120	94	80 - 120	<0.0020	ug/L	NC	20
9032110	Dissolved Mercury (Hg)	2018/06/20	94	80 - 120	88	80 - 120	<0.0020	ug/L	NC	20

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QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9032129	Dissolved Aluminum (Al)	2018/06/20	97	80 - 120	103	80 - 120	<0.50	ug/L	3.4	20
9032129	Dissolved Antimony (Sb)	2018/06/20	99	80 - 120	102	80 - 120	<0.020	ug/L	0.088	20
9032129	Dissolved Arsenic (As)	2018/06/20	101	80 - 120	104	80 - 120	<0.020	ug/L	0.36	20
9032129	Dissolved Barium (Ba)	2018/06/20	98	80 - 120	102	80 - 120	<0.020	ug/L	3.9	20
9032129	Dissolved Beryllium (Be)	2018/06/20	101	80 - 120	104	80 - 120	<0.010	ug/L	NC	20
9032129	Dissolved Bismuth (Bi)	2018/06/20	96	80 - 120	103	80 - 120	<0.0050	ug/L	11	20
9032129	Dissolved Boron (B)	2018/06/20	96	80 - 120	99	80 - 120	<10	ug/L	NC	20
9032129	Dissolved Cadmium (Cd)	2018/06/20	101	80 - 120	105	80 - 120	<0.0050	ug/L	1.6	20
9032129	Dissolved Chromium (Cr)	2018/06/20	94	80 - 120	99	80 - 120	<0.10	ug/L	10	20
9032129	Dissolved Cobalt (Co)	2018/06/20	96	80 - 120	100	80 - 120	<0.0050	ug/L	6.8	20
9032129	Dissolved Copper (Cu)	2018/06/20	93	80 - 120	98	80 - 120	<0.050	ug/L	2.7	20
9032129	Dissolved Iron (Fe)	2018/06/20	98	80 - 120	104	80 - 120	<1.0	ug/L	4.5	20
9032129	Dissolved Lead (Pb)	2018/06/20	97	80 - 120	104	80 - 120	<0.0050	ug/L	3.4	20
9032129	Dissolved Lithium (Li)	2018/06/20	98	80 - 120	102	80 - 120	<0.50	ug/L	NC	20
9032129	Dissolved Manganese (Mn)	2018/06/20	98	80 - 120	103	80 - 120	<0.050	ug/L	7.8	20
9032129	Dissolved Molybdenum (Mo)	2018/06/20	101	80 - 120	105	80 - 120	<0.050	ug/L	5.3	20
9032129	Dissolved Nickel (Ni)	2018/06/20	97	80 - 120	101	80 - 120	<0.020	ug/L	5.4	20
9032129	Dissolved Phosphorus (P)	2018/06/20	99	80 - 120	102	80 - 120	<2.0	ug/L	NC	20
9032129	Dissolved Selenium (Se)	2018/06/20	98	80 - 120	102	80 - 120	<0.040	ug/L	8.3	20
9032129	Dissolved Silicon (Si)	2018/06/20	102	80 - 120	107	80 - 120	<50	ug/L	0.81	20
9032129	Dissolved Silver (Ag)	2018/06/20	99	80 - 120	103	80 - 120	<0.0050	ug/L	NC	20
9032129	Dissolved Strontium (Sr)	2018/06/20	102	80 - 120	108	80 - 120	<0.050	ug/L	3.1	20
9032129	Dissolved Thallium (Tl)	2018/06/20	97	80 - 120	104	80 - 120	<0.0020	ug/L	2.6	20
9032129	Dissolved Tin (Sn)	2018/06/20	100	80 - 120	103	80 - 120	<0.20	ug/L	NC	20
9032129	Dissolved Titanium (Ti)	2018/06/20	97	80 - 120	102	80 - 120	<0.50	ug/L	7.0	20
9032129	Dissolved Uranium (U)	2018/06/20	101	80 - 120	109	80 - 120	<0.0020	ug/L	NC	20
9032129	Dissolved Vanadium (V)	2018/06/20	98	80 - 120	103	80 - 120	<0.20	ug/L	6.5	20
9032129	Dissolved Zinc (Zn)	2018/06/20	102	80 - 120	104	80 - 120	<0.10	ug/L	1.6	20
9032129	Dissolved Zirconium (Zr)	2018/06/20	99	80 - 120	104	80 - 120	<0.10	ug/L	NC	20
9032131	Dissolved Aluminum (Al)	2018/06/20	103	80 - 120	102	80 - 120	<0.50	ug/L	0.33	20
9032131	Dissolved Antimony (Sb)	2018/06/20	103	80 - 120	101	80 - 120	<0.020	ug/L	2.4	20
9032131	Dissolved Arsenic (As)	2018/06/20	106	80 - 120	103	80 - 120	<0.020	ug/L	1.9	20

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QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9032131	Dissolved Barium (Ba)	2018/06/20	100	80 - 120	99	80 - 120	<0.020	ug/L	2.1	20
9032131	Dissolved Beryllium (Be)	2018/06/20	105	80 - 120	103	80 - 120	<0.010	ug/L	NC	20
9032131	Dissolved Bismuth (Bi)	2018/06/20	100	80 - 120	99	80 - 120	<0.0050	ug/L	NC	20
9032131	Dissolved Boron (B)	2018/06/20	101	80 - 120	101	80 - 120	<10	ug/L	NC	20
9032131	Dissolved Cadmium (Cd)	2018/06/20	105	80 - 120	103	80 - 120	<0.0050	ug/L	6.8	20
9032131	Dissolved Chromium (Cr)	2018/06/20	98	80 - 120	97	80 - 120	<0.10	ug/L	NC	20
9032131	Dissolved Cobalt (Co)	2018/06/20	100	80 - 120	99	80 - 120	<0.0050	ug/L	9.6	20
9032131	Dissolved Copper (Cu)	2018/06/20	97	80 - 120	97	80 - 120	<0.050	ug/L	0.55	20
9032131	Dissolved Iron (Fe)	2018/06/20	102	80 - 120	103	80 - 120	<1.0	ug/L	4.7	20
9032131	Dissolved Lead (Pb)	2018/06/20	102	80 - 120	100	80 - 120	<0.0050	ug/L	5.9	20
9032131	Dissolved Lithium (Li)	2018/06/20	102	80 - 120	102	80 - 120	<0.50	ug/L	3.8	20
9032131	Dissolved Manganese (Mn)	2018/06/20	102	80 - 120	102	80 - 120	<0.050	ug/L	1.4	20
9032131	Dissolved Molybdenum (Mo)	2018/06/20	112	80 - 120	104	80 - 120	<0.050	ug/L	1.4	20
9032131	Dissolved Nickel (Ni)	2018/06/20	100	80 - 120	100	80 - 120	<0.020	ug/L	6.1	20
9032131	Dissolved Phosphorus (P)	2018/06/20	106	80 - 120	100	80 - 120	<2.0	ug/L	2.1	20
9032131	Dissolved Selenium (Se)	2018/06/20	104	80 - 120	101	80 - 120	<0.040	ug/L	8.1	20
9032131	Dissolved Silicon (Si)	2018/06/20	105	80 - 120	105	80 - 120	<50	ug/L	4.3	20
9032131	Dissolved Silver (Ag)	2018/06/20	103	80 - 120	101	80 - 120	<0.0050	ug/L	NC	20
9032131	Dissolved Strontium (Sr)	2018/06/20	NC	80 - 120	105	80 - 120	<0.050	ug/L	3.3	20
9032131	Dissolved Thallium (Tl)	2018/06/20	102	80 - 120	100	80 - 120	<0.0020	ug/L	NC	20
9032131	Dissolved Tin (Sn)	2018/06/20	102	80 - 120	104	80 - 120	<0.20	ug/L	NC	20
9032131	Dissolved Titanium (Ti)	2018/06/20	104	80 - 120	104	80 - 120	<0.50	ug/L	17	20
9032131	Dissolved Uranium (U)	2018/06/20	106	80 - 120	104	80 - 120	<0.0020	ug/L	4.0	20
9032131	Dissolved Vanadium (V)	2018/06/20	104	80 - 120	100	80 - 120	<0.20	ug/L	3.0	20
9032131	Dissolved Zinc (Zn)	2018/06/20	103	80 - 120	104	80 - 120	<0.10	ug/L	2.8	20
9032131	Dissolved Zirconium (Zr)	2018/06/20	107	80 - 120	102	80 - 120	<0.10	ug/L	NC	20
9032514	Total Ammonia (N)	2018/06/20	115	80 - 120	107	80 - 120	<0.0050	mg/L	NC	20
9032517	Total Ammonia (N)	2018/06/20	100	80 - 120	104	80 - 120	<0.0050	mg/L	0	20
9032627	pH	2018/06/20			101	97 - 103			0.79	20
9032633	Alkalinity (PP as CaCO3)	2018/06/20					<0.50	mg/L	NC	20
9032633	Alkalinity (Total as CaCO3)	2018/06/20	NC	80 - 120	97	80 - 120	0.54, RDL=0.50	mg/L	1.7	20
9032633	Bicarbonate (HCO3)	2018/06/20					0.66, RDL=0.50	mg/L	1.7	20

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QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
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QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9032633	Carbonate (CO3)	2018/06/20					<0.50	mg/L	NC	20
9032633	Hydroxide (OH)	2018/06/20					<0.50	mg/L	NC	20
9032635	Conductivity	2018/06/20			99	80 - 120	1.0, RDL=1.0	uS/cm	0.14	20
9032641	pH	2018/06/21			101	97 - 103			0.89	20
9032654	Alkalinity (PP as CaCO3)	2018/06/21					<0.50	mg/L	NC	20
9032654	Alkalinity (Total as CaCO3)	2018/06/21	NC	80 - 120	100	80 - 120	<0.50	mg/L	9.0	20
9032654	Bicarbonate (HCO3)	2018/06/21					<0.50	mg/L	9.0	20
9032654	Carbonate (CO3)	2018/06/21					<0.50	mg/L	NC	20
9032654	Hydroxide (OH)	2018/06/21					<0.50	mg/L	NC	20
9032655	Conductivity	2018/06/21			99	80 - 120	1.1, RDL=1.0	uS/cm	2.6	20
9032976	Total Aluminum (Al)	2018/06/21	109	80 - 120	107	80 - 120	<3.0	ug/L	10	20
9032976	Total Antimony (Sb)	2018/06/21	107	80 - 120	107	80 - 120	<0.020	ug/L	0.52	20
9032976	Total Arsenic (As)	2018/06/21	111	80 - 120	112	80 - 120	<0.020	ug/L	1.5	20
9032976	Total Barium (Ba)	2018/06/21	105	80 - 120	106	80 - 120	<0.050	ug/L	5.3	20
9032976	Total Beryllium (Be)	2018/06/21	108	80 - 120	109	80 - 120	<0.010	ug/L	13	20
9032976	Total Bismuth (Bi)	2018/06/21	102	80 - 120	105	80 - 120	<0.010	ug/L	NC	20
9032976	Total Boron (B)	2018/06/21	106	80 - 120	108	80 - 120	<10	ug/L	NC	20
9032976	Total Cadmium (Cd)	2018/06/21	107	80 - 120	106	80 - 120	<0.0050	ug/L	12	20
9032976	Total Chromium (Cr)	2018/06/21	102	80 - 120	107	80 - 120	<0.10	ug/L	3.0	20
9032976	Total Cobalt (Co)	2018/06/21	108	80 - 120	110	80 - 120	<0.010	ug/L	1.8	20
9032976	Total Copper (Cu)	2018/06/21	106	80 - 120	105	80 - 120	<0.10	ug/L	0.49	20
9032976	Total Iron (Fe)	2018/06/21	109	80 - 120	107	80 - 120	<5.0	ug/L	2.2	20
9032976	Total Lead (Pb)	2018/06/21	107	80 - 120	109	80 - 120	<0.020	ug/L	14	20
9032976	Total Lithium (Li)	2018/06/21	109	80 - 120	107	80 - 120	<0.50	ug/L	10	20
9032976	Total Manganese (Mn)	2018/06/21	105	80 - 120	109	80 - 120	<0.10	ug/L	2.9	20
9032976	Total Molybdenum (Mo)	2018/06/21	112	80 - 120	110	80 - 120	<0.050	ug/L	9.0	20
9032976	Total Nickel (Ni)	2018/06/21	104	80 - 120	107	80 - 120	<0.10	ug/L	2.5	20
9032976	Total Phosphorus (P)	2018/06/21	102	80 - 120	103	80 - 120	<5.0	ug/L	5.4	20
9032976	Total Selenium (Se)	2018/06/21	111	80 - 120	107	80 - 120	<0.040	ug/L	4.5	20
9032976	Total Silicon (Si)	2018/06/21	105	80 - 120	105	80 - 120	<50	ug/L	2.6	20
9032976	Total Silver (Ag)	2018/06/21	107	80 - 120	106	80 - 120	<0.010	ug/L	NC	20
9032976	Total Strontium (Sr)	2018/06/21	NC	80 - 120	106	80 - 120	<0.050	ug/L	0.37	20

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LORAX ENVIRONMENTAL SERVICES LTD.
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QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9032976	Total Thallium (Tl)	2018/06/21	104	80 - 120	106	80 - 120	<0.0020	ug/L	4.3	20
9032976	Total Tin (Sn)	2018/06/21	107	80 - 120	106	80 - 120	<0.20	ug/L	NC	20
9032976	Total Titanium (Ti)	2018/06/21	108	80 - 120	111	80 - 120	<2.0	ug/L	3.8	20
9032976	Total Uranium (U)	2018/06/21	107	80 - 120	110	80 - 120	<0.0050	ug/L	3.4	20
9032976	Total Vanadium (V)	2018/06/21	106	80 - 120	107	80 - 120	<0.20	ug/L	2.2	20
9032976	Total Zinc (Zn)	2018/06/21	106	80 - 120	107	80 - 120	<1.0	ug/L	NC	20
9032976	Total Zirconium (Zr)	2018/06/21	110	80 - 120	107	80 - 120	<0.10	ug/L	1.0	20
9032979	Nitrate plus Nitrite (N)	2018/06/20	114	80 - 120	103	80 - 120	<0.0020	mg/L	3.2	25
9032982	Nitrite (N)	2018/06/20	109	80 - 120	103	80 - 120	<0.0020	mg/L	22	25
9032983	Nitrate plus Nitrite (N)	2018/06/20	109	80 - 120	102	80 - 120	<0.0020	mg/L	NC	25
9032985	Nitrite (N)	2018/06/20	107	80 - 120	103	80 - 120	<0.0020	mg/L	NC	25
9032986	Nitrate plus Nitrite (N)	2018/06/20	109	80 - 120	105	80 - 120	<0.0020	mg/L	NC	25
9032988	Nitrite (N)	2018/06/20	103	80 - 120	103	80 - 120	<0.0020	mg/L	4.9	25
9033022	Total Aluminum (Al)	2018/06/26	148 (1)	80 - 120	105	80 - 120	<3.0	ug/L	21 (1)	20
9033022	Total Antimony (Sb)	2018/06/26	102	80 - 120	100	80 - 120	<0.020	ug/L	3.5	20
9033022	Total Arsenic (As)	2018/06/26	106	80 - 120	101	80 - 120	<0.020	ug/L	10	20
9033022	Total Barium (Ba)	2018/06/26	NC	80 - 120	101	80 - 120	<0.050	ug/L	3.5	20
9033022	Total Beryllium (Be)	2018/06/26	105	80 - 120	102	80 - 120	<0.010	ug/L	NC	20
9033022	Total Bismuth (Bi)	2018/06/26	101	80 - 120	100	80 - 120	<0.010	ug/L	NC	20
9033022	Total Boron (B)	2018/06/26	103	80 - 120	103	80 - 120	<10	ug/L	NC	20
9033022	Total Cadmium (Cd)	2018/06/26	102	80 - 120	100	80 - 120	<0.0050	ug/L	0.14	20
9033022	Total Chromium (Cr)	2018/06/26	97	80 - 120	95	80 - 120	<0.10	ug/L	NC	20
9033022	Total Cobalt (Co)	2018/06/26	95	80 - 120	95	80 - 120	<0.010	ug/L	13	20
9033022	Total Copper (Cu)	2018/06/26	94	80 - 120	95	80 - 120	<0.10	ug/L	1.7	20
9033022	Total Iron (Fe)	2018/06/26	122 (1)	80 - 120	105	80 - 120	<5.0	ug/L	18	20
9033022	Total Lead (Pb)	2018/06/26	105	80 - 120	102	80 - 120	<0.020	ug/L	4.6	20
9033022	Total Lithium (Li)	2018/06/26	104	80 - 120	105	80 - 120	<0.50	ug/L	1.4	20
9033022	Total Manganese (Mn)	2018/06/26	92	80 - 120	96	80 - 120	<0.10	ug/L	2.7	20
9033022	Total Molybdenum (Mo)	2018/06/26	105	80 - 120	103	80 - 120	<0.050	ug/L	5.3	20
9033022	Total Nickel (Ni)	2018/06/26	98	80 - 120	96	80 - 120	<0.10	ug/L	6.4	20
9033022	Total Phosphorus (P)	2018/06/26	103	80 - 120	94	80 - 120	<5.0	ug/L	18	20
9033022	Total Selenium (Se)	2018/06/26	105	80 - 120	99	80 - 120	<0.040	ug/L	6.1	20

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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9033022	Total Silicon (Si)	2018/06/26	115	80 - 120	107	80 - 120	<50	ug/L	1.5	20
9033022	Total Silver (Ag)	2018/06/26	102	80 - 120	100	80 - 120	<0.010	ug/L	NC	20
9033022	Total Strontium (Sr)	2018/06/26	NC	80 - 120	97	80 - 120	<0.050	ug/L	0.013	20
9033022	Total Thallium (Tl)	2018/06/26	103	80 - 120	101	80 - 120	<0.0020	ug/L	12	20
9033022	Total Tin (Sn)	2018/06/26	100	80 - 120	100	80 - 120	<0.20	ug/L	NC	20
9033022	Total Titanium (Ti)	2018/06/26	116	80 - 120	96	80 - 120	<2.0	ug/L	NC	20
9033022	Total Uranium (U)	2018/06/26	107	80 - 120	103	80 - 120	<0.0050	ug/L	4.1	20
9033022	Total Vanadium (V)	2018/06/26	102	80 - 120	96	80 - 120	<0.20	ug/L	NC	20
9033022	Total Zinc (Zn)	2018/06/26	100	80 - 120	97	80 - 120	<1.0	ug/L	3.3	20
9033022	Total Zirconium (Zr)	2018/06/26	107	80 - 120	96	80 - 120	<0.10	ug/L	NC	20
9033715	Total Mercury (Hg)	2018/06/21	92	80 - 120	101	80 - 120	<0.0020	ug/L	NC	20
9033860	ORP	2018/06/21							1.9	20
9033916	Dissolved Mercury (Hg)	2018/06/21	103	80 - 120	92	80 - 120	<0.0020	ug/L	NC	20
9033986	Fluoride (F)	2018/06/21	102	80 - 120	100	80 - 120	0.010, RDL=0.010	mg/L	2.0	20
9033989	Fluoride (F)	2018/06/21	104	80 - 120	100	80 - 120	<0.010	mg/L	3.6	20
9033991	Fluoride (F)	2018/06/21	101	80 - 120	100	80 - 120	<0.010	mg/L	NC	20
9034080	Total Mercury (Hg)	2018/06/21	88	80 - 120	97	80 - 120	<0.0020	ug/L	1.4	20
9034141	Total Suspended Solids	2018/06/22			99	80 - 120	<1.0	mg/L		
9034304	Total Suspended Solids	2018/06/22			98	80 - 120	<1.0	mg/L		
9034463	Total Mercury (Hg)	2018/06/21	87	80 - 120	97	80 - 120	<0.0020	ug/L	NC	20
9034470	Total Dissolved Solids	2018/06/23	100	80 - 120	95	80 - 120	<10	mg/L	7.3	20
9034692	pH	2018/06/21			102	97 - 103				
9034694	Conductivity	2018/06/21			98	80 - 120	<1.0	uS/cm		
9034704	Alkalinity (PP as CaCO3)	2018/06/21					<0.50	mg/L		
9034704	Alkalinity (Total as CaCO3)	2018/06/21	95	80 - 120	92	80 - 120	<0.50	mg/L		
9034704	Bicarbonate (HCO3)	2018/06/21					<0.50	mg/L		
9034704	Carbonate (CO3)	2018/06/21					<0.50	mg/L		
9034704	Hydroxide (OH)	2018/06/21					<0.50	mg/L		
9034737	Total Dissolved Solids	2018/06/23	100	80 - 120	103	80 - 120	<10	mg/L	1.6	20
9035544	Total Dissolved Solids	2018/06/23	98	80 - 120	100	80 - 120	<10	mg/L	2.5	20
9035676	Dissolved Chloride (Cl)	2018/06/21			102	80 - 120	<0.50	mg/L	0.47	20

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QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9035702	Dissolved Chloride (Cl)	2018/06/21	99	80 - 120	103	80 - 120	<0.50	mg/L	NC	20
9035705	Dissolved Chloride (Cl)	2018/06/21			106	80 - 120	<0.50	mg/L		
9036008	Dissolved Organic Carbon (C)	2018/06/22	NC	80 - 120	104	80 - 120	<0.50	mg/L	1.9	20
9036009	Dissolved Organic Carbon (C)	2018/06/22	105	80 - 120	107	80 - 120	<0.50	mg/L	3.9	20
9036012	Total Organic Carbon (C)	2018/06/22	104	80 - 120	116	80 - 120	<0.50	mg/L	11	20
9036013	Total Organic Carbon (C)	2018/06/22	NC	80 - 120	109	80 - 120	<0.50	mg/L	3.3	20
9037490	pH	2018/06/24			102	97 - 103			0.37	20
9037496	Conductivity	2018/06/24			101	80 - 120	1.0, RDL=1.0	uS/cm		
9037500	Alkalinity (PP as CaCO3)	2018/06/24					<0.50	mg/L		
9037500	Alkalinity (Total as CaCO3)	2018/06/24			96	80 - 120	0.71, RDL=0.50	mg/L		
9037500	Bicarbonate (HCO3)	2018/06/24					0.87, RDL=0.50	mg/L		
9037500	Carbonate (CO3)	2018/06/24					<0.50	mg/L		
9037500	Hydroxide (OH)	2018/06/24					<0.50	mg/L		
9040541	Dissolved Aluminum (Al)	2018/06/26			102	80 - 120	<0.50	ug/L		
9040541	Dissolved Antimony (Sb)	2018/06/26			101	80 - 120	<0.020	ug/L		
9040541	Dissolved Arsenic (As)	2018/06/26			103	80 - 120	<0.020	ug/L		
9040541	Dissolved Barium (Ba)	2018/06/26			102	80 - 120	<0.020	ug/L		
9040541	Dissolved Beryllium (Be)	2018/06/26			101	80 - 120	<0.010	ug/L		
9040541	Dissolved Bismuth (Bi)	2018/06/26			101	80 - 120	<0.0050	ug/L		
9040541	Dissolved Boron (B)	2018/06/26			97	80 - 120	<10	ug/L		
9040541	Dissolved Cadmium (Cd)	2018/06/26			102	80 - 120	<0.0050	ug/L		
9040541	Dissolved Chromium (Cr)	2018/06/26			99	80 - 120	<0.10	ug/L		
9040541	Dissolved Cobalt (Co)	2018/06/26			98	80 - 120	<0.0050	ug/L		
9040541	Dissolved Copper (Cu)	2018/06/26			96	80 - 120	<0.050	ug/L		
9040541	Dissolved Iron (Fe)	2018/06/26			103	80 - 120	<1.0	ug/L		
9040541	Dissolved Lead (Pb)	2018/06/26			101	80 - 120	<0.0050	ug/L		
9040541	Dissolved Lithium (Li)	2018/06/26			103	80 - 120	<0.50	ug/L		
9040541	Dissolved Manganese (Mn)	2018/06/26			102	80 - 120	<0.050	ug/L		
9040541	Dissolved Molybdenum (Mo)	2018/06/26			105	80 - 120	<0.050	ug/L		
9040541	Dissolved Nickel (Ni)	2018/06/26			100	80 - 120	<0.020	ug/L		
9040541	Dissolved Phosphorus (P)	2018/06/26			98	80 - 120	<2.0	ug/L		
9040541	Dissolved Selenium (Se)	2018/06/26			100	80 - 120	<0.040	ug/L		

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QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9040541	Dissolved Silicon (Si)	2018/06/26			105	80 - 120	<50	ug/L		
9040541	Dissolved Silver (Ag)	2018/06/26			100	80 - 120	<0.0050	ug/L		
9040541	Dissolved Strontium (Sr)	2018/06/26			103	80 - 120	<0.050	ug/L		
9040541	Dissolved Thallium (Tl)	2018/06/26			102	80 - 120	<0.0020	ug/L		
9040541	Dissolved Tin (Sn)	2018/06/26			83	80 - 120	<0.20	ug/L		
9040541	Dissolved Titanium (Ti)	2018/06/26			103	80 - 120	<0.50	ug/L		
9040541	Dissolved Uranium (U)	2018/06/26			104	80 - 120	<0.0020	ug/L		
9040541	Dissolved Vanadium (V)	2018/06/26			101	80 - 120	<0.20	ug/L		
9040541	Dissolved Zinc (Zn)	2018/06/26			101	80 - 120	<0.10	ug/L		
9040541	Dissolved Zirconium (Zr)	2018/06/26			102	80 - 120	<0.10	ug/L		
9041489	Free Cyanide	2018/06/25	109	80 - 120	106	80 - 120	<0.0010	mg/L	18	20
9041541	Free Cyanide	2018/06/25	114	80 - 120	110	80 - 120	<0.0010	mg/L	0	20
9042281	Dissolved Zirconium (Zr)	2018/06/28	105	80 - 120	101	80 - 120	<0.10	ug/L	3.6	20
9043089	Dissolved Sulphate (SO4)	2018/06/27			106	80 - 120	<0.50	mg/L	9.0	20
9043093	Dissolved Sulphate (SO4)	2018/06/27	NC	80 - 120	95	80 - 120	<0.50	mg/L	0.25	20
9043098	Dissolved Sulphate (SO4)	2018/06/27	NC	80 - 120	96	80 - 120	<0.50	mg/L	1.2	20
9045883	Dissolved Sulphate (SO4)	2018/06/29			102	80 - 120	<0.50	mg/L		

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

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

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

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

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VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Andy Lu, Ph.D., P.Chem., Scientific Specialist






Cristina Carriere, Scientific Services

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



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INVOICE TO:		Report Information		Project Information	
Company Name: #3604 LORAX ENVIRONMENTAL SERVICES LTD.	Company Name: David Flather	Quotation #: B40231			
Contact Name: Aida Piaseczny	Contact Name: David Flather	P.O. #:			
Address: 2289 BURRARD STREET VANCOUVER BC V6J 3H9	Address:	Project #: Gold Corp Coffee Creek-SW			
Phone: (604) 688-7173 Fax: (604) 688-7175	Phone: Fax:	Project Name:			
Email: aida.piaseczny@lorax.ca; shukling.ng@lorax.ca	Email: David.Flather@lorax.ca	Site #:	C655908-01-01		
Regulatory Criteria		Special Instructions		Turnaround Time (TAT) Required	

<p>Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form</p> <p>Samples must be kept cool (< 10°C) from time of sampling until delivery to maxxam</p>		<p>Regulated Drinking Water? (Y/N)</p> <p>Metals Field Filtered? (Y/N)</p> <p>Routine (Alk-LI, EC-LI, NH4-LI, pH, TDS)</p> <p>TSS-Low Level</p> <p>Anions (LL-Cl, F, NO2, NO3, SO4)</p> <p>Cyanide - WAD</p> <p>TOC</p> <p>DOC</p> <p>Low Level Dissolved Metals incl. CV Hg</p> <p>Low Level Total Metals incl. CV Hg</p> <p>ORP</p>		<p>Analysis Requested</p> <p>Turnaround Time (TAT) Required</p> <p>Please provide advance notice for rush projects</p> <p>Regular (Standard) TAT (will be applied if Rush TAT is not specified) Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.</p> <p>Job Specific Rush TAT (if applies to entire submission)</p> <p>Date Required: _____ Time Required: _____</p> <p>Rush Confirmation Number: _____ (call lab for #)</p>	
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Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	Routine (Alk-LI, EC-LI, NH4-LI, pH, TDS)	TSS-Low Level	Anions (LL-Cl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	# of Bottles	Comments
✓ 1 SID#162743	CC-0.5	18/06/16	12:31	w	NN	/	/	/	/	/	/	/	/	/	/	13	RECEIVED IN WHITEHORSE
✓ 2 SID#162744	CC-1.0	18/06/16	14:55	w	NN	/	/	/	/	/	/	/	/	/	/	13	BY: <u>slupno@1040</u>
✓ 3 SID#162745	CC-1.5	18/06/16	15:13	w	NN	/	/	/	/	/	/	/	/	/	/	13	2018-06-18 6/9/7
✓ 4 SID#162746	CC-3.5	18/06/16	12:57	w	NN	/	/	/	/	/	/	/	/	/	/	13	TEMP: 9/9/9 11/11/12
✓ 5 SID#162747	CC-4.5	18/06/16	10:35	w	NN	/	/	/	/	/	/	/	/	/	/	13	5/3/6
6 SID#162748	CC-5.0	18/06/16		w	NN	/	/	/	/	/	/	/	/	/	/	13	Discontinued
7 SID#149895	CC-5.5	18/06/16		w	NN	/	/	/	/	/	/	/	/	/	/	13	Discontinued
✓ 8 SID#149896	CC-6.0	18/06/16	16:19	w	NN	/	/	/	/	/	/	/	/	/	/	13	5/4/13
✓ 9 SID#149897	CC-A	18/06/16	15:52	w	NN	/	/	/	/	/	/	/	/	/	/	13	10/10/10
✓ 10 SID#149898	CC-B	18/06/16	14:30	w	NN	/	/	/	/	/	/	/	/	/	/	13	cooling media present

* RELINQUISHED BY: (Signature/Print)	Date: (YYMMDD)	Time	RECEIVED BY: (Signature/Print)	Date: (YYMMDD)	Time	# Jars used and not submitted	Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
<i>[Signature]</i>	18/06/16	10:40	<i>[Signature]</i> BRIAN JALOB 104	2018/06/17	14:30		<input type="checkbox"/>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.

IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

White: Maxxam Yellow: Client



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 9351 - 48th Street, Edmonton, Alberta Canada T6B 2R4 Tel (780) 577-7100 Toll-free 800-563-6266 Fax (780) 450-4187 www.maxxam.ca

INVOICE TO:		Report Information		Project Information	
Company Name	#3604 LORAX ENVIRONMENTAL SERVICES LTD.	Company Name	David Flather	Quotation #	B40231
Contact Name	Aida Piaseczny	Contact Name	David Flather	P.O.#	
Address	2289 BURRARD STREET VANCOUVER BC V6J 3H9	Address		Project #	Gold Corp Coffee Creek-SW
Phone	(604) 688-7173 Fax: (604) 688-7175	Phone		Project Name	
Email	aida.piaseczny@lorax.ca; shukling.ng@lorax.ca	Email	David.Flather@lorax.ca	Site #	
				Sampled By	



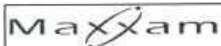
3848821_COC

Order #: 555908
 Project Manager: Diana Cruz

Regulatory Criteria	Special Instructions	Analysis Requested										Turnaround Time (TAT) Required		
<p>Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form</p> <p>Samples must be kept cool (< 10°C) from time of sampling until delivery to maxxam</p>		Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	Routine (Alk-L, EC-L, NH4-L, pH, TDS)	TSS-Low Level	Anions (L-Cl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	Please provide advance notice for rush projects <input checked="" type="checkbox"/> Regular (Standard) TAT (will be applied if Rush TAT is not specified) Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details. Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____ Rush Confirmation Number: _____ (call lab for #)	

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	Routine (Alk-L, EC-L, NH4-L, pH, TDS)	TSS-Low Level	Anions (L-Cl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	# of Bottles	Comments
SID#149899	CC-C			W			/	/	/	/	/	/	/	/	/		Discontinued
SID#149900	CC-D			W			/	/	/	/	/	/	/	/	/		Discontinued
SID#149901	CC-X	18/06/16	11:26	W	N	N	/	/	/	/	/	/	/	/	/	13	BY: slyonx@ 1040
SID#149902	Latte Mix	18/06/16	11:50	W	N	N	/	/	/	/	/	/	/	/	/	13	2018-06-18
SID#149903	HC-2.5	18/06/17	9:45	W	N	N	/	/	/	/	/	/	/	/	/	13	TEMP: 6 9 7 11 9 1 5 3 6
SID#149904	HC-5.0	18/06/17	7:45	W	N	N	/	/	/	/	/	/	/	/	/	13	
SID#204856	HC-A	18/06/17	8:35	W	N	N	/	/	/	/	/	/	/	/	/	13	5 3 6
SID#206057	HC-B	18/06/17	8:55	W	N	N	/	/	/	/	/	/	/	/	/	13	5 8 6
SID#206058	HC-C	18/06/17	9:20	W	N	N	/	/	/	/	/	/	/	/	/	13	10 10 10
SID#206059	Halfway Mix	18/06/17	9:23	W	N	N	/	/	/	/	/	/	/	/	/	13	cooling media present

RELINQUISHED BY: (Signature/Print) Mitchell Nordin	Date: (YY/MM/DD) 18/06/17	Time 16:10	RECEIVED BY: (Signature/Print) SHAN JALOB JOY	Date: (YY/MM/DD) 2018/06/19	Time 14:30	# Jars used and not submitted	Lab Use Only	
						<input type="checkbox"/> Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.								White: Maxxam Yellow: Client
IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.								



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INVOICE TO:		Report Information		Project Information	
Company Name	#3604 LORAX ENVIRONMENTAL SERVICES LTD.	Company Name	David Flather	Quotation #	B40231
Contact Name	Aida Piaseczny	Contact Name	David Flather	P.O. #	
Address	2289 BURRARD STREET VANCOUVER BC V6J 3H9	Address		Project #	Gold Corp Coffee Creek-SW
Phone	(604) 688-7173 Fax: (604) 688-7175	Phone		Project Name	
Email	aida.piaseczny@lorax.ca; shukling.ng@lorax.ca	Email	David.Flather@lorax.ca	Site #	
				Sampled By	



is Order #:
 55908
 Act Manager
 Diana Cruz

Regulatory Criteria	Special Instructions	Analysis Requested										Turnaround Time (TAT) Required		
<p>Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form</p> <p>Samples must be kept cool (< 10°C) from time of sampling until delivery to maxxam</p>		Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	Routine (Alk-LL, EC-LL, NH4-LL, pH, TDS)	TSS-Low Level	Anions (LL-Cl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	Please provide advance notice for rush projects Regular (Standard) TAT (will be applied if Rush TAT is not specified) Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details. <input checked="" type="checkbox"/>	
													Date Required: _____ Time Required: _____	
													Rush Confirmation Number _____ (cat lab for #)	

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	Routine (Alk-LL, EC-LL, NH4-LL, pH, TDS)	TSS-Low Level	Anions (LL-Cl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	# of Bottles	Comments
✓ 1 SID#206050	IC-0.5	18/06/17	13:23	w	N	N	/	/	/	/	/	/	/	/	/	13	RECEIVED IN WHITEHORSE
✓ 2 SID#206051	IC-1.5	18/06/17	13:18	w	N	N	/	/	/	/	/	/	/	/	/	13	BY: <i>Shyan@1040</i>
✓ 3 SID#206052	IC-2.5	18/06/17	13:50	w	N	N	/	/	/	/	/	/	/	/	/	13	2018-06-18
✓ 4 SID#206053	IC-3.0	18/06/17	14:20	w	N	N	/	/	/	/	/	/	/	/	/	13	TEMP: 6 1 9 17
✓ 5 SID#206054	IC-4.5	18/06/17	14:45	w	N	N	/	/	/	/	/	/	/	/	/	13	10 5 5 10 3 5 10 5
✓ 6 SID#206055	ML-A	18/06/17	11:45	w	N	N	/	/	/	/	/	/	/	/	/	13	
✓ 7 SID#206056	ML-B	18/06/17	12:10	w	N	N	/	/	/	/	/	/	/	/	/	13	
✓ 8 SID#206057	YT-24-1 (or ML-1.0)	18/06/17	11:15	w	N	N	/	/	/	/	/	/	/	/	/	13	cooling media present
✓ 9 SID#206058	YT-24-2 (old ML-C)	18/06/17	12:30	w	N	N	/	/	/	/	/	/	/	/	/	13	
✓ 10 SID#206059	YUK-2.0	18/06/16	11:05	w	N	N	/	/	/	/	/	/	/	/	/	13	

RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Lab Use Only	
<i>Mitchell Nordin</i>	18/06/17	16:20	<i>SHAN JARAB JOY</i>	2018/06/19	14:30		Time Sensitive <input type="checkbox"/>	Temperature (°C) on Receipt <input type="checkbox"/>
* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.							Custody Seal Intact on Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.							White: Maxxam Yellow: Client	



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INVOICE TO:		Report Information		Project Information	
Company Name	#3604 LORAX ENVIRONMENTAL SERVICES LTD.	Company Name	David Flather	Quotation #	B40231
Contact Name	Aida Piaseczny	Contact Name	David Flather	P.O. #	
Address	2289 BURRARD STREET VANCOUVER BC V6J 3H9	Address		Project #	Gold Corp Coffee Creek-SW
Phone	(604) 688-7173 Fax: (604) 688-7175	Phone		Project Name	
Email	aida.piaseczny@lorax.ca; shukling.ng@lorax.ca	Email	David.Flather@lorax.ca	Site #	
				Sampled By	



Order #:
 555908
 Project Manager



Diana Cruz

Regulatory Criteria	Special Instructions	Analysis Requested										Turnaround Time (TAT) Required		
		Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	Routine (Alk-LL, EC-LL, NH4-LL, pH, TDS)	TSS-Low Level	Anions (LL, Cl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	Please provide advance notice for rush projects	
<p>Regular (Standard) TAT (will be applied if Rush TAT is not specified) Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.</p>													<input checked="" type="checkbox"/>	
<p>Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____ Rush Confirmation Number: _____ (call lab for #)</p>														

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 10°C) from time of sampling until delivery to maxxam																	
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	Routine (Alk-LL, EC-LL, NH4-LL, pH, TDS)	TSS-Low Level	Anions (LL, Cl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	# of Bottles	Comments
1	YUK-5.0	18/06/17	15:05	W	N	N	/	/	/	/	/	/	/	/	/	13	
2	Ballarat U/S Y.R.			W			/	/	/	/	/	/	/	/	/		Discontinued
3	Barker U/S S.R.			W			/	/	/	/	/	/	/	/	/		Discontinued
4	Black Hills Creek			W			/	/	/	/	/	/	/	/	/		Discontinued
5	Maisy May U/S S.R.			W			/	/	/	/	/	/	/	/	/		Discontinued
6	Stewart D/S M.M.			W			/	/	/	/	/	/	/	/	/		Discontinued
7	Sample A	18/06/17	7:00	W	N	N	/	/	/	/	/	/	/	/	/	13	
8	Sample B	18/06/17	10:00	W	N	N	/	/	/	/	/	/	/	/	/	13	
9	Sample C	18/06/17		W			/	/	/	/	/	/	/	/	/		Discontinued
10	FIELD BLANK	18/06/16	17:00	W	N	N	/	/	/	/	/	/	/	/	/	13	

RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# Jars used and not submitted	Lab Use Only	
<i>[Signature]</i>	18/06/17	10:40	SHAN JALOB JOY	2018/06/19	14:30		Time Sensitive <input type="checkbox"/>	Temperature (°C) on Receipt
<p>* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.</p>							Custody Seal Intact on Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<p>IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.</p>							<p>White Maxxam Yellow Client</p>	

RECEIVED IN WHITEHORSE
 BY: *[Signature]*



2018-06-18
 10-06-18
 10-06-18
 10-06-18

6/8/16
 5/4/3 cooling media present
 10/10/10

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Maxxam Analytics International Corporation o/a Maxxam Analytics
 6331 - 48th Street, Edmonton, Alberta Canada T6B 2R4 Tel (780) 577-7100 Toll-free 800-563-6266 Fax (780) 450-4167 www.maxxam.ca

INVOICE TO:		Report Information			Project Information	
Company Name	#3604 LORAX ENVIRONMENTAL SERVICES LTD.	Company Name	David Flather	Quotation #	B40231	 B848821_COC
Contact Name	Aida Piaseczny	Contact Name	David Flather	P.O. #		
Address	2289 BURRARD STREET VANCOUVER BC V6J 3H9	Address		Project #	Gold Corp Coffee Creek-SW	 C855908-05-01
Phone	(604) 688-7173 Fax (604) 688-7175	Phone		Project Name		
Email	aida.piaseczny@lorax.ca; shukling.ng@lorax.ca	Email	David.Flather@lorax.ca	Site #		Diana Cruz

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	Routine (Alk-LL, EC-LL, NH4-LL, pH, TDS)	TSS-Low Level	Anions (LL-Cl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	# of Bottles	Turnaround Time (TAT) Required	
																	Regular (Standard) TAT	Job Specific Rush TAT (if applies to entire submission)
1 SIDW210866	TRIP BLANK	18/06/17	17:00	W	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	Regular (Standard) TAT	Job Specific Rush TAT
2 SIDW210867	COFFE MIX	18/06/17	09:30	W	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	13		
3	YT-24 MIX	18/06/17	10:00	W	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	13		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

Turnaround Time (TAT) Required
 Please provide advance notice for rush projects

Regular (Standard) TAT
 (will be applied if Rush TAT is not specified)
 Standard TAT = 5-7 Working days for most tests
 Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
 Date Required: _____ Time Required: _____

Rush Confirmation Number: _____ (call lab for #)

RECEIVED IN THE HORSE
 BY: *Ayano@1040*
 2018-06-18

TEMP: 6 / 9 / 7
 11 / 11 / 12
 10:50 / 10:50 / 10:50
 cooling media present

RELINQUISHED BY: (Signature/Print) <i>Mitchell Nordin</i>	Date: (YY/MM/DD) 18/06/17	Time 17:00	RECEIVED BY: (Signature/Print) <i>SHAN JALOB JOY</i>	Date: (YY/MM/DD) 2018/06/19	Time 14:30	# Jars used and not submitted	Time Sensitive <input type="checkbox"/>	Temperature (°C) on Receipt	Lab Use Only Custody Seal Intact on Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
--	------------------------------	---------------	---	--------------------------------	---------------	-------------------------------	--	-----------------------------	---

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Your Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

Attention: David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
2289 BURRARD STREET
VANCOUVER, BC
CANADA V6J 3H9

Your C.O.C. #: 559732-01-01, 559732-02-01, 559732-03-01, 559732-04-01

Report Date: 2018/08/01
Report #: R2598257
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B861486

Received: 2018/07/24, 09:00

Sample Matrix: Water
Samples Received: 24

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Alkalinity - Low Level	2	N/A	2018/07/26	BBY6SOP-00026	SM 22 2320 B m
Alkalinity - Low Level	21	N/A	2018/07/27	BBY6SOP-00026	SM 22 2320 B m
Alkalinity - Low Level	1	N/A	2018/07/28	BBY6SOP-00026	SM 22 2320 B m
Chloride - Low Level	24	N/A	2018/07/27	BBY6SOP-00011	SM 22 4500-Cl- E m
Carbon (DOC) (1, 3)	12	N/A	2018/07/27	EENVSOP-00060	MMCW 119 1996 m
Carbon (DOC) (1, 3)	12	N/A	2018/07/31	EENVSOP-00060	MMCW 119 1996 m
Conductance - Low Level	2	N/A	2018/07/26	BBY6SOP-00026	SM 22 2510 B m
Conductance - Low Level	21	N/A	2018/07/27	BBY6SOP-00026	SM 22 2510 B m
Conductance - Low Level	1	N/A	2018/07/28	BBY6SOP-00026	SM 22 2510 B m
Fluoride - Low Level	24	N/A	2018/07/27	BBY6SOP-00048	SM 22 4500-F C m
Hardness Total (calculated as CaCO3) (4)	1	N/A	2018/07/26	BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO3) (4)	19	N/A	2018/07/27	BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO3) (4)	4	N/A	2018/07/30	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3)	24	N/A	2018/07/26	BBY WI-00033	Auto Calc
Mercury (Dissolved) by CVAf	23	N/A	2018/07/26	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Dissolved) by CVAf	1	N/A	2018/07/31	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Total) by CVAf	23	2018/07/26	2018/07/26	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Total) by CVAf	1	2018/07/31	2018/07/31	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	24	N/A	2018/07/26	BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (dissolved)	20	N/A	2018/07/25	BBY7SOP-00002	EPA 6020b R2 m
Elements by ICPMS Low Level (dissolved)	4	N/A	2018/07/26	BBY7SOP-00002	EPA 6020b R2 m
Elements by ICPMS Digested LL (total)	11	2018/07/26	2018/07/26	BBY7SOP-00003,	EPA 6020b R2 m
Elements by ICPMS Digested LL (total)	4	2018/07/27	2018/07/28	BBY7SOP-00003,	EPA 6020b R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total)	1	N/A	2018/07/26	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (total)	19	N/A	2018/07/27	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (total)	4	N/A	2018/07/30	BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (total)	9	N/A	2018/07/26	BBY7SOP-00002	EPA 6020b R2 m

Your Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

Attention: David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
2289 BURRARD STREET
VANCOUVER, BC
CANADA V6J 3H9

Your C.O.C. #: 559732-01-01, 559732-02-01, 559732-03-01, 559732-04-01

Report Date: 2018/08/01
Report #: R2598257
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B861486

Received: 2018/07/24, 09:00

Sample Matrix: Water
Samples Received: 24

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Ammonia-N Low Level (Preserved)	24	N/A	2018/07/26	BBY6SOP-00009	EPA 350.1 m
Nitrate+Nitrite (N) (low level)	24	N/A	2018/07/25	BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrite (N) (low level)	24	N/A	2018/07/25	BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrogen - Nitrate (as N) Low Level Calc	24	N/A	2018/07/26	BBY WI-00033	Auto Calc
ORP Analysis on Water by ARD LAB	24	N/A	2018/07/30	BBY0SOP-00004	SM 22 2580 B
Filter and HNO3 Preserve for Metals	24	N/A	2018/07/25	BBY7 WI-00004	BCMOE Reqs 08/14
pH Water (5)	2	N/A	2018/07/26	BBY6SOP-00026	SM 22 4500-H+ B m
pH Water (5)	21	N/A	2018/07/27	BBY6SOP-00026	SM 22 4500-H+ B m
pH Water (5)	1	N/A	2018/07/28	BBY6SOP-00026	SM 22 4500-H+ B m
Sulphate - Low Level	24	N/A	2018/07/27	BBY6SOP-00017	SM 22 4500-SO42- E m
Total Dissolved Solids (Filt. Residue)	2	2018/07/26	2018/07/27	BBY6SOP-00033	SM 22 2540 C m
Total Dissolved Solids (Filt. Residue)	22	2018/07/27	2018/07/28	BBY6SOP-00033	SM 22 2540 C m
Carbon (Total Organic) (1, 6)	12	N/A	2018/07/27	EENVSOP-00060	MMCW 119 1996 m
Carbon (Total Organic) (1, 6)	12	N/A	2018/07/31	EENVSOP-00060	MMCW 119 1996 m
Total Suspended Solids-Low Level	24	2018/07/28	2018/07/30	BBY6SOP-00034	SM 22 2540 D
Free (WAD) Cyanide (2)	5	N/A	2018/07/27	CAM SOP-00457	OMOE E3015 5 m
Free (WAD) Cyanide (2)	19	N/A	2018/07/30	CAM SOP-00457	OMOE E3015 5 m

Remarks:

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Maxxam's profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Maxxam in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected.

Maxxam Analytics' liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed

Your Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

Attention: David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
2289 BURRARD STREET
VANCOUVER, BC
CANADA V6J 3H9

Your C.O.C. #: 559732-01-01, 559732-02-01, 559732-03-01, 559732-04-01

Report Date: 2018/08/01
Report #: R2598257
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B861486

Received: 2018/07/24, 09:00

or implied. Maxxam has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Maxxam, unless otherwise agreed in writing.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

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

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

- (1) This test was performed by Maxxam Edmonton Environmental
- (2) This test was performed by Maxxam Ontario (From Burnaby)
- (3) DOC present in the sample should be considered as non-purgeable DOC. Dissolved > Total Imbalance: Whenever applicable, Dissolved >Total for any parameter that falls within method uncertainty for duplicates is likely equivalent. If RPD is >20% samples were reanalyzed and confirmed.
- (4) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).
- (5) The BC-MOE and APHA Standard Method require pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the BC-MOE/APHA Standard Method holding time.
- (6) TOC present in the sample should be considered as non-purgeable TOC.

Encryption Key



Maxxam

01 Aug 2018 15:03:32

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Diana Cruz, Project Manager
Email: DCruz@maxxam.ca
Phone# (604) 734 7276

=====
This report has been generated and distributed using a secure automated process.

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Job #: B861486
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TX9050			TX9050			TX9051		
Sampling Date		2018/07/22 16:12			2018/07/22 16:12			2018/07/22 16:35		
COC Number		559732-01-01			559732-01-01			559732-01-01		
	UNITS	CC-1.0	RDL	QC Batch	CC-1.0 Lab-Dup	RDL	QC Batch	CC-1.5	RDL	QC Batch
Parameter										
ORP	mV	308		9080217	303		9080217	322		9080217
Calculated Parameters										
Filter and HNO3 Preservation	N/A	LAB		9077640				LAB		9077640
Nitrate (N)	mg/L	0.657	0.0020	9078683				0.235	0.0020	9078683
Misc. Inorganics										
Fluoride (F)	mg/L	0.084	0.010	9081538				0.041	0.010	9081538
Free Cyanide	mg/L	<0.0010	0.0010	9085576	<0.0010	0.0010	9085576	<0.0010	0.0010	9085576
Dissolved Organic Carbon (C)	mg/L	4.6	0.50	9081709	4.4	0.50	9081709	10	0.50	9081709
Alkalinity (Total as CaCO3)	mg/L	242	0.50	9081779				59.8	0.50	9081779
Total Organic Carbon (C)	mg/L	5.1	0.50	9081703	4.6	0.50	9081703	10	0.50	9081703
Alkalinity (PP as CaCO3)	mg/L	3.50	0.50	9081779				<0.50	0.50	9081779
Bicarbonate (HCO3)	mg/L	287	0.50	9081779				73.0	0.50	9081779
Carbonate (CO3)	mg/L	4.20	0.50	9081779				<0.50	0.50	9081779
Hydroxide (OH)	mg/L	<0.50	0.50	9081779				<0.50	0.50	9081779
Anions										
Dissolved Sulphate (SO4)	mg/L	185	0.50	9081303				56.8	0.50	9081303
Dissolved Chloride (Cl)	mg/L	0.86	0.50	9081299				1.4	0.50	9081299
Nutrients										
Total Ammonia (N)	mg/L	<0.0050	0.0050	9081440				<0.0050	0.0050	9081440
Nitrate plus Nitrite (N)	mg/L	0.657	0.0020	9079097				0.235	0.0020	9079097
Nitrite (N)	mg/L	<0.0020	0.0020	9079098				<0.0020	0.0020	9079098
Physical Properties										
Conductivity	uS/cm	773	1.0	9081809				239	1.0	9081809
pH	pH	8.34		9081808				7.80		9081808
Physical Properties										
Total Suspended Solids	mg/L	<1.0	1.0	9082474				<1.0	1.0	9082474
Total Dissolved Solids	mg/L	506	10	9080723				156	10	9080722
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B861486
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TX9051			TX9052		TX9053		
Sampling Date		2018/07/22 16:35			2018/07/22 17:41		2018/07/22 17:17		
COC Number		559732-01-01			559732-01-01		559732-01-01		
	UNITS	CC-1.5 Lab-Dup	RDL	QC Batch	CC-6.0	QC Batch	CC-A	RDL	QC Batch
Parameter									
ORP	mV				342	9080217	333		9080217
Calculated Parameters									
Filter and HNO3 Preservation	N/A				LAB	9077640	LAB		9077640
Nitrate (N)	mg/L				0.0061	9078683	0.182	0.0020	9078683
Misc. Inorganics									
Fluoride (F)	mg/L				0.025	9081538	0.039	0.010	9081538
Free Cyanide	mg/L				<0.0010	9085574	<0.0010	0.0010	9085576
Dissolved Organic Carbon (C)	mg/L				13	9081709	12	0.50	9081709
Alkalinity (Total as CaCO3)	mg/L				7.58	9081779	27.9	0.50	9081779
Total Organic Carbon (C)	mg/L				13	9081703	11	0.50	9081703
Alkalinity (PP as CaCO3)	mg/L				<0.50	9081779	<0.50	0.50	9081779
Bicarbonate (HCO3)	mg/L				9.25	9081779	34.0	0.50	9081779
Carbonate (CO3)	mg/L				<0.50	9081779	<0.50	0.50	9081779
Hydroxide (OH)	mg/L				<0.50	9081779	<0.50	0.50	9081779
Anions									
Dissolved Sulphate (SO4)	mg/L				<0.50	9081303	28.7	0.50	9081303
Dissolved Chloride (Cl)	mg/L				0.79	9081299	1.9	0.50	9081299
Nutrients									
Total Ammonia (N)	mg/L				0.048	9081440	<0.0050	0.0050	9081440
Nitrate plus Nitrite (N)	mg/L				0.0061	9079097	0.182	0.0020	9079097
Nitrite (N)	mg/L				<0.0020	9079098	<0.0020	0.0020	9079098
Physical Properties									
Conductivity	uS/cm				23.0	9081809	118	1.0	9081809
pH	pH				6.86	9081808	7.47		9081808
Physical Properties									
Total Suspended Solids	mg/L				1.8	9082474	<1.0	1.0	9082474
Total Dissolved Solids	mg/L	170	10	9080722	46	9080723	80	10	9080573
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B861486
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TX9053			TX9054			TX9103		
Sampling Date		2018/07/22 17:17			2018/07/21 15:40			2018/07/22 14:25		
COC Number		559732-01-01			559732-01-01			559732-02-01		
	UNITS	CC-A Lab-Dup	RDL	QC Batch	COFFEE MIX	RDL	QC Batch	HC-2.5	RDL	QC Batch
Parameter										
ORP	mV				317		9080217	319		9080217
Calculated Parameters										
Filter and HNO3 Preservation	N/A				LAB		9077640	LAB		9077640
Nitrate (N)	mg/L				0.0114	0.0020	9078683	0.436	0.0020	9078683
Misc. Inorganics										
Fluoride (F)	mg/L	0.039	0.010	9081538	0.099	0.010	9081538	0.043	0.010	9081538
Free Cyanide	mg/L				<0.0010	0.0010	9085576	<0.0010	0.0010	9085574
Dissolved Organic Carbon (C)	mg/L				3.0	0.50	9081709	10	0.50	9081709
Alkalinity (Total as CaCO3)	mg/L				70.9	0.50	9081853	65.0	0.50	9081779
Total Organic Carbon (C)	mg/L				2.7	0.50	9081703	9.9	0.50	9081703
Alkalinity (PP as CaCO3)	mg/L				<0.50	0.50	9081853	<0.50	0.50	9081779
Bicarbonate (HCO3)	mg/L				86.5	0.50	9081853	79.3	0.50	9081779
Carbonate (CO3)	mg/L				<0.50	0.50	9081853	<0.50	0.50	9081779
Hydroxide (OH)	mg/L				<0.50	0.50	9081853	<0.50	0.50	9081779
Anions										
Dissolved Sulphate (SO4)	mg/L				23.6	0.50	9081297	32.6	0.50	9081297
Dissolved Chloride (Cl)	mg/L				0.65	0.50	9081293	0.64	0.50	9081293
Nutrients										
Total Ammonia (N)	mg/L				<0.0050	0.0050	9081440	<0.0050	0.0050	9081440
Nitrate plus Nitrite (N)	mg/L	0.179	0.0020	9079097	0.0114	0.0020	9079095	0.436	0.0020	9079095
Nitrite (N)	mg/L	<0.0020	0.0020	9079098	<0.0020	0.0020	9079096	<0.0020	0.0020	9079096
Physical Properties										
Conductivity	uS/cm				189	1.0	9081854	198	1.0	9081809
pH	pH				8.01		9081847	7.89		9081808
Physical Properties										
Total Suspended Solids	mg/L				13.0 (1)	1.1	9082474	<1.0	1.0	9082474
Total Dissolved Solids	mg/L	88	10	9080573	98	10	9080722	128	10	9080722
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate (1) RDL raised due to limited initial sample amount.										

Maxxam Job #: B861486
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TX9103			TX9104		TX9105	TX9106		
Sampling Date		2018/07/22 14:25			2018/07/21 17:38		2018/07/22 15:45	2018/07/22 15:30		
COC Number		559732-02-01			559732-02-01		559732-02-01	559732-02-01		
	UNITS	HC-2.5 Lab-Dup	RDL	QC Batch	HC-5.0	QC Batch	HC-A	HC-B	RDL	QC Batch
Parameter										
ORP	mV				311	9080217	306	307		9080217
Calculated Parameters										
Filter and HNO3 Preservation	N/A				LAB	9077640	LAB	LAB		9077640
Nitrate (N)	mg/L				0.318	9078683	0.234	0.368	0.0020	9078683
Misc. Inorganics										
Fluoride (F)	mg/L				0.064	9081538	0.054	0.054	0.010	9081538
Free Cyanide	mg/L	<0.0010	0.0010	9085574	<0.0010	9085576	<0.0010	<0.0010	0.0010	9085576
Dissolved Organic Carbon (C)	mg/L				11	9081709	11	11	0.50	9081709
Alkalinity (Total as CaCO3)	mg/L				69.7	9081779	70.0	69.1	0.50	9080287
Total Organic Carbon (C)	mg/L				10	9081703	9.7	9.8	0.50	9081703
Alkalinity (PP as CaCO3)	mg/L				<0.50	9081779	<0.50	<0.50	0.50	9080287
Bicarbonate (HCO3)	mg/L				85.0	9081779	85.4	84.3	0.50	9080287
Carbonate (CO3)	mg/L				<0.50	9081779	<0.50	<0.50	0.50	9080287
Hydroxide (OH)	mg/L				<0.50	9081779	<0.50	<0.50	0.50	9080287
Anions										
Dissolved Sulphate (SO4)	mg/L				36.4	9081297	39.4	36.1	0.50	9081297
Dissolved Chloride (Cl)	mg/L				0.78	9081293	0.80	0.82	0.50	9081293
Nutrients										
Total Ammonia (N)	mg/L				0.019	9081440	<0.0050	<0.0050	0.0050	9081440
Nitrate plus Nitrite (N)	mg/L				0.318	9079095	0.234	0.368	0.0020	9079095
Nitrite (N)	mg/L				<0.0020	9079096	<0.0020	<0.0020	0.0020	9079096
Physical Properties										
Conductivity	uS/cm				215	9081809	222	211	1.0	9080288
pH	pH				8.05	9081808	7.85	7.83		9080278
Physical Properties										
Total Suspended Solids	mg/L				<1.0	9082474	<1.0	<1.0	1.0	9082474
Total Dissolved Solids	mg/L				148	9080722	158	142	10	9080722
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B861486
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TX9107			TX9108			TX9108	
Sampling Date		2018/07/22 15:09			2018/07/21 18:07			2018/07/21 18:07	
COC Number		559732-02-01			559732-02-01			559732-02-01	
	UNITS	HC-C	RDL	QC Batch	HALFWAY MIX	RDL	QC Batch	HALFWAY MIX Lab-Dup	QC Batch
Parameter									
ORP	mV	301		9080217	256		9080217	255	9080217
Calculated Parameters									
Filter and HNO3 Preservation	N/A	LAB		9077640	LAB		9077640		
Nitrate (N)	mg/L	0.418	0.0020	9078683	0.0143	0.0020	9078683		
Misc. Inorganics									
Fluoride (F)	mg/L	0.056	0.010	9081538	0.110	0.010	9081538		
Free Cyanide	mg/L	<0.0010	0.0010	9085576	<0.0010	0.0010	9085576		
Dissolved Organic Carbon (C)	mg/L	10	0.50	9081709	3.0	0.50	9081709		
Alkalinity (Total as CaCO3)	mg/L	68.5	0.50	9080287	69.1	0.50	9081779		
Total Organic Carbon (C)	mg/L	9.7	0.50	9081703	3.5	0.50	9081703		
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	9080287	<0.50	0.50	9081779		
Bicarbonate (HCO3)	mg/L	83.5	0.50	9080287	84.4	0.50	9081779		
Carbonate (CO3)	mg/L	<0.50	0.50	9080287	<0.50	0.50	9081779		
Hydroxide (OH)	mg/L	<0.50	0.50	9080287	<0.50	0.50	9081779		
Anions									
Dissolved Sulphate (SO4)	mg/L	33.8	0.50	9081297	23.8	0.50	9081297		
Dissolved Chloride (Cl)	mg/L	0.78	0.50	9081293	0.72	0.50	9081293		
Nutrients									
Total Ammonia (N)	mg/L	0.0050	0.0050	9081440	0.025	0.0050	9081440		
Nitrate plus Nitrite (N)	mg/L	0.418	0.0020	9079095	0.0143	0.0020	9079097		
Nitrite (N)	mg/L	<0.0020	0.0020	9079096	<0.0020	0.0020	9079098		
Physical Properties									
Conductivity	uS/cm	207	1.0	9080288	186	1.0	9081809		
pH	pH	7.79		9080278	7.93		9081808		
Physical Properties									
Total Suspended Solids	mg/L	<1.1 (1)	1.1	9082476	7.7	1.0	9082474		
Total Dissolved Solids	mg/L	138	10	9080722	100	10	9080722		
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate (1) RDL raised due to limited initial sample amount.									

Maxxam Job #: B861486
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TX9109		TX9110			TX9110		
Sampling Date		2018/07/22 09:29		2018/07/22 09:08			2018/07/22 09:08		
COC Number		559732-02-01		559732-02-01			559732-02-01		
	UNITS	IC-0.5	QC Batch	IC-1.5	RDL	QC Batch	IC-1.5 Lab-Dup	RDL	QC Batch
Parameter									
ORP	mV	263	9080217	264		9080217			
Calculated Parameters									
Filter and HNO3 Preservation	N/A	LAB	9077640	LAB		9077640			
Nitrate (N)	mg/L	0.317	9078683	0.0026	0.0020	9078683			
Misc. Inorganics									
Fluoride (F)	mg/L	0.062	9081538	0.053	0.010	9081538			
Free Cyanide	mg/L	<0.0010	9085574	<0.0010	0.0010	9085576			
Dissolved Organic Carbon (C)	mg/L	16	9081709	12	0.50	9085201	13	0.50	9085201
Alkalinity (Total as CaCO3)	mg/L	47.9	9080287	50.1	0.50	9080287			
Total Organic Carbon (C)	mg/L	14	9081703	12	0.50	9084974	12	0.50	9084974
Alkalinity (PP as CaCO3)	mg/L	<0.50	9080287	<0.50	0.50	9080287			
Bicarbonate (HCO3)	mg/L	58.5	9080287	61.1	0.50	9080287			
Carbonate (CO3)	mg/L	<0.50	9080287	<0.50	0.50	9080287			
Hydroxide (OH)	mg/L	<0.50	9080287	<0.50	0.50	9080287			
Anions									
Dissolved Sulphate (SO4)	mg/L	70.4	9081297	16.0	0.50	9081297			
Dissolved Chloride (Cl)	mg/L	0.70	9081293	0.79	0.50	9081293			
Nutrients									
Total Ammonia (N)	mg/L	<0.0050	9081440	<0.0050	0.0050	9081440			
Nitrate plus Nitrite (N)	mg/L	0.317	9079095	0.0026	0.0020	9079095			
Nitrite (N)	mg/L	<0.0020	9079096	<0.0020	0.0020	9079096			
Physical Properties									
Conductivity	uS/cm	134	9080288	135	1.0	9080288			
pH	pH	7.68	9080278	7.70		9080278			
Physical Properties									
Total Suspended Solids	mg/L	<1.0	9082476	<1.0	1.0	9082476			
Total Dissolved Solids	mg/L	156	9080722	86	10	9080722			
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B861486
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TX9111		TX9112		TX9145		
Sampling Date		2018/07/22 10:01		2018/07/22 11:35		2018/07/22 13:00		
COC Number		559732-02-01		559732-02-01		559732-03-01		
	UNITS	IC-2.5	QC Batch	IC-3.0	QC Batch	IC-4.5	RDL	QC Batch
Parameter								
ORP	mV	291	9080217	277	9080217	283		9080217
Calculated Parameters								
Filter and HNO3 Preservation	N/A	LAB	9077640	LAB	9077640	LAB		9077640
Nitrate (N)	mg/L	0.0038	9078683	0.528	9078683	0.207	0.0020	9078683
Misc. Inorganics								
Fluoride (F)	mg/L	0.039	9081538	0.060	9081538	0.066	0.010	9081538
Free Cyanide	mg/L	<0.0010	9085574	<0.0010	9085576	<0.0010	0.0010	9085576
Dissolved Organic Carbon (C)	mg/L	16	9085201	13	9085201	13	0.50	9085201
Alkalinity (Total as CaCO3)	mg/L	11.4	9080287	55.7	9080287	44.5	0.50	9080287
Total Organic Carbon (C)	mg/L	16	9084974	13	9084974	13	0.50	9084974
Alkalinity (PP as CaCO3)	mg/L	<0.50	9080287	<0.50	9080287	<0.50	0.50	9080287
Bicarbonate (HCO3)	mg/L	13.9	9080287	67.9	9080287	54.3	0.50	9080287
Carbonate (CO3)	mg/L	<0.50	9080287	<0.50	9080287	<0.50	0.50	9080287
Hydroxide (OH)	mg/L	<0.50	9080287	<0.50	9080287	<0.50	0.50	9080287
Anions								
Dissolved Sulphate (SO4)	mg/L	<0.50	9081297	43.0	9081297	30.0	0.50	9081297
Dissolved Chloride (Cl)	mg/L	1.0	9081293	0.97	9081293	0.99	0.50	9081293
Nutrients								
Total Ammonia (N)	mg/L	<0.0050	9081440	<0.0050	9081440	0.051	0.0050	9081440
Nitrate plus Nitrite (N)	mg/L	0.0038	9079095	0.528	9079095	0.207	0.0020	9079095
Nitrite (N)	mg/L	<0.0020	9079096	<0.0020	9079096	<0.0020	0.0020	9079096
Physical Properties								
Conductivity	uS/cm	34.5	9080288	212	9080288	152	1.0	9080288
pH	pH	7.07	9080278	7.71	9080278	7.71		9080278
Physical Properties								
Total Suspended Solids	mg/L	1.3	9082476	2.9	9082476	<1.0	1.0	9082476
Total Dissolved Solids	mg/L	62	9080720	150	9080720	98	10	9080722
RDL = Reportable Detection Limit								

Maxxam Job #: B861486
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TX9146				TX9146				TX9147		
Sampling Date		2018/07/21 16:38				2018/07/21 16:38				2018/07/21 17:06		
COC Number		559732-03-01				559732-03-01				559732-03-01		
	UNITS	ML-1.0 (YT-24-1)	RDL	QC Batch	ML-1.0 (YT-24-1) Lab-Dup	RDL	QC Batch	YT-24-MIX	RDL	QC Batch		
Parameter												
ORP	mV	279		9080217				270		9080217		
Calculated Parameters												
Filter and HNO3 Preservation	N/A	LAB		9077640				LAB		9077640		
Nitrate (N)	mg/L	0.857	0.0020	9078683				0.0032	0.0020	9078683		
Misc. Inorganics												
Fluoride (F)	mg/L	0.070	0.010	9081538				0.087	0.010	9081538		
Free Cyanide	mg/L	<0.0010	0.0010	9085576				<0.0010	0.0010	9085574		
Dissolved Organic Carbon (C)	mg/L	11	0.50	9085201				3.2	0.50	9085201		
Alkalinity (Total as CaCO3)	mg/L	62.4	0.50	9080287				67.7	0.50	9080287		
Total Organic Carbon (C)	mg/L	11	0.50	9084974				3.4	0.50	9084974		
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	9080287				<0.50	0.50	9080287		
Bicarbonate (HCO3)	mg/L	76.1	0.50	9080287				82.6	0.50	9080287		
Carbonate (CO3)	mg/L	<0.50	0.50	9080287				<0.50	0.50	9080287		
Hydroxide (OH)	mg/L	<0.50	0.50	9080287				<0.50	0.50	9080287		
Anions												
Dissolved Sulphate (SO4)	mg/L	73.3	0.50	9081297				28.8	0.50	9081297		
Dissolved Chloride (Cl)	mg/L	1.3	0.50	9081293				0.91	0.50	9081293		
Nutrients												
Total Ammonia (N)	mg/L	<0.0050	0.0050	9081440				0.011	0.0050	9081440		
Nitrate plus Nitrite (N)	mg/L	0.857	0.0020	9079095	0.843	0.0020	9079095	0.0032	0.0020	9079095		
Nitrite (N)	mg/L	<0.0020	0.0020	9079096	<0.0020	0.0020	9079096	<0.0020	0.0020	9079096		
Physical Properties												
Conductivity	uS/cm	274	1.0	9080288				192	1.0	9080288		
pH	pH	7.87		9080278				7.83		9080278		
Physical Properties												
Total Suspended Solids	mg/L	<1.0	1.0	9082474				9.0	1.0	9082474		
Total Dissolved Solids	mg/L	156	10	9080573				124	10	9080722		
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate												

Maxxam Job #: B861486
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TX9148	TX9149			TX9149		
Sampling Date		2018/07/21 15:41	2018/07/21 18:35			2018/07/21 18:35		
COC Number		559732-03-01	559732-03-01			559732-03-01		
	UNITS	YUK-2.0	YUK-5.0	RDL	QC Batch	YUK-5.0 Lab-Dup	RDL	QC Batch
Parameter								
ORP	mV	259	265		9080217			
Calculated Parameters								
Filter and HNO3 Preservation	N/A	LAB	LAB		9077640			
Nitrate (N)	mg/L	0.0075	0.0173	0.0020	9078683			
Misc. Inorganics								
Fluoride (F)	mg/L	0.110	0.110	0.010	9081538			
Free Cyanide	mg/L	<0.0010	<0.0010	0.0010	9085576			
Dissolved Organic Carbon (C)	mg/L	2.7	2.7	0.50	9085201			
Alkalinity (Total as CaCO3)	mg/L	73.2	71.4	0.50	9080287			
Total Organic Carbon (C)	mg/L	2.5	2.7	0.50	9084974			
Alkalinity (PP as CaCO3)	mg/L	<0.50	<0.50	0.50	9080287			
Bicarbonate (HCO3)	mg/L	89.4	87.1	0.50	9080287			
Carbonate (CO3)	mg/L	<0.50	<0.50	0.50	9080287			
Hydroxide (OH)	mg/L	<0.50	<0.50	0.50	9080287			
Anions								
Dissolved Sulphate (SO4)	mg/L	27.0	28.6	0.50	9081297			
Dissolved Chloride (Cl)	mg/L	1.6	1.9	0.50	9081293			
Nutrients								
Total Ammonia (N)	mg/L	<0.0050	<0.0050	0.0050	9081440	0.0050	0.0050	9081440
Nitrate plus Nitrite (N)	mg/L	0.0075	0.0173	0.0020	9079095			
Nitrite (N)	mg/L	<0.0020	<0.0020	0.0020	9079096			
Physical Properties								
Conductivity	uS/cm	196	195	1.0	9080288			
pH	pH	7.90	7.83		9080278			
Physical Properties								
Total Suspended Solids	mg/L	13.9	11.0	1.0	9082474			
Total Dissolved Solids	mg/L	108	102	10	9080722			
RDL = Reportable Detection Limit								
Lab-Dup = Laboratory Initiated Duplicate								

Maxxam Job #: B861486
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TX9150			TX9150		TX9179		
Sampling Date		2018/07/21 18:35			2018/07/21 18:35		2018/07/22 16:12		
COC Number		559732-03-01			559732-03-01		559732-04-01		
	UNITS	SAMPLE A	RDL	QC Batch	SAMPLE A Lab-Dup	QC Batch	SAMPLE B	RDL	QC Batch
Parameter									
ORP	mV	244		9080217	242	9080217	239		9080217
Calculated Parameters									
Filter and HNO3 Preservation	N/A	LAB		9077640			LAB		9077640
Nitrate (N)	mg/L	0.0087	0.0020	9078683			0.658	0.0020	9078683
Misc. Inorganics									
Fluoride (F)	mg/L	0.110	0.010	9081541			0.085	0.010	9081541
Free Cyanide	mg/L	<0.0010	0.0010	9085576			<0.0010	0.0010	9085576
Dissolved Organic Carbon (C)	mg/L	2.8	0.50	9085201			4.3	0.50	9085201
Alkalinity (Total as CaCO3)	mg/L	73.2	0.50	9080287			249	0.50	9080287
Total Organic Carbon (C)	mg/L	2.2	0.50	9084974			4.0	0.50	9084974
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	9080287			4.02	0.50	9080287
Bicarbonate (HCO3)	mg/L	89.3	0.50	9080287			294	0.50	9080287
Carbonate (CO3)	mg/L	<0.50	0.50	9080287			4.82	0.50	9080287
Hydroxide (OH)	mg/L	<0.50	0.50	9080287			<0.50	0.50	9080287
Anions									
Dissolved Sulphate (SO4)	mg/L	25.7	0.50	9081297			190	0.50	9081290
Dissolved Chloride (Cl)	mg/L	0.60	0.50	9081293			0.86	0.50	9081289
Nutrients									
Total Ammonia (N)	mg/L	<0.0050	0.0050	9081446			<0.0050	0.0050	9081446
Nitrate plus Nitrite (N)	mg/L	0.0087	0.0020	9079095			0.658	0.0020	9079095
Nitrite (N)	mg/L	<0.0020	0.0020	9079096			<0.0020	0.0020	9079096
Physical Properties									
Conductivity	uS/cm	194	1.0	9080288			767	1.0	9080288
pH	pH	7.91		9080278			8.38		9080278
Physical Properties									
Total Suspended Solids	mg/L	9.3 (1)	1.1	9082474			<1.0	1.0	9082476
Total Dissolved Solids	mg/L	102	10	9080722			514	10	9080722
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate (1) RDL raised due to limited initial sample amount.									

Maxxam Job #: B861486
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TX9179			TX9180			TX9180		
Sampling Date		2018/07/22 16:12			2018/07/23 08:30			2018/07/23 08:30		
COC Number		559732-04-01			559732-04-01			559732-04-01		
	UNITS	SAMPLE B Lab-Dup	RDL	QC Batch	FIELD BLANK	RDL	QC Batch	FIELD BLANK Lab-Dup	RDL	QC Batch
Parameter										
ORP	mV				330		9080217			
Calculated Parameters										
Filter and HNO3 Preservation	N/A				LAB		9077640			
Nitrate (N)	mg/L				<0.0020	0.0020	9078683			
Misc. Inorganics										
Fluoride (F)	mg/L				<0.010	0.010	9081541	<0.010	0.010	9081541
Free Cyanide	mg/L				<0.0010	0.0010	9085576			
Dissolved Organic Carbon (C)	mg/L				<0.50	0.50	9085201			
Alkalinity (Total as CaCO3)	mg/L				<0.50	0.50	9080225			
Total Organic Carbon (C)	mg/L				<0.50	0.50	9084974			
Alkalinity (PP as CaCO3)	mg/L				<0.50	0.50	9080225			
Bicarbonate (HCO3)	mg/L				<0.50	0.50	9080225			
Carbonate (CO3)	mg/L				<0.50	0.50	9080225			
Hydroxide (OH)	mg/L				<0.50	0.50	9080225			
Anions										
Dissolved Sulphate (SO4)	mg/L	193	0.50	9081290	<0.50	0.50	9082404			
Dissolved Chloride (Cl)	mg/L	1.1	0.50	9081289	<0.50	0.50	9081289			
Nutrients										
Total Ammonia (N)	mg/L				<0.0050	0.0050	9081446			
Nitrate plus Nitrite (N)	mg/L				<0.0020	0.0020	9079095			
Nitrite (N)	mg/L				<0.0020	0.0020	9079096			
Physical Properties										
Conductivity	uS/cm				1.2	1.0	9080234			
pH	pH				5.17		9080227			
Physical Properties										
Total Suspended Solids	mg/L				<1.0	1.0	9082476			
Total Dissolved Solids	mg/L				<10	10	9080720			
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B861486
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TX9181		
Sampling Date		2018/07/23 08:30		
COC Number		559732-04-01		
	UNITS	TRAVEL BLANK	RDL	QC Batch
Parameter				
ORP	mV	310		9080217
Calculated Parameters				
Filter and HNO3 Preservation	N/A	LAB		9077640
Nitrate (N)	mg/L	<0.0020	0.0020	9078683
Misc. Inorganics				
Fluoride (F)	mg/L	<0.010	0.010	9081541
Free Cyanide	mg/L	<0.0010	0.0010	9085576
Dissolved Organic Carbon (C)	mg/L	<0.50	0.50	9085201
Alkalinity (Total as CaCO3)	mg/L	0.54	0.50	9080225
Total Organic Carbon (C)	mg/L	<0.50	0.50	9084974
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	9080225
Bicarbonate (HCO3)	mg/L	0.66	0.50	9080225
Carbonate (CO3)	mg/L	<0.50	0.50	9080225
Hydroxide (OH)	mg/L	<0.50	0.50	9080225
Anions				
Dissolved Sulphate (SO4)	mg/L	0.66	0.50	9081297
Dissolved Chloride (Cl)	mg/L	0.72	0.50	9081293
Nutrients				
Total Ammonia (N)	mg/L	<0.0050	0.0050	9081446
Nitrate plus Nitrite (N)	mg/L	<0.0020	0.0020	9079095
Nitrite (N)	mg/L	<0.0020	0.0020	9079096
Physical Properties				
Conductivity	uS/cm	1.3	1.0	9080234
pH	pH	5.20		9080227
Physical Properties				
Total Suspended Solids	mg/L	<1.1 (1)	1.1	9082476
Total Dissolved Solids	mg/L	<10	10	9080722
RDL = Reportable Detection Limit				
(1) RDL raised due to limited initial sample amount.				

Maxxam Job #: B861486
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TX9050			TX9050			TX9051		
Sampling Date		2018/07/22 16:12			2018/07/22 16:12			2018/07/22 16:35		
COC Number		559732-01-01			559732-01-01			559732-01-01		
	UNITS	CC-1.0	RDL	QC Batch	CC-1.0 Lab-Dup	RDL	QC Batch	CC-1.5	RDL	QC Batch

Calculated Parameters

Dissolved Hardness (CaCO3)	mg/L	407	0.50	9078181				109	0.50	9078181
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Elements

Dissolved Mercury (Hg)	ug/L	<0.0020	0.0020	9084893				0.0051	0.0020	9079940
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Dissolved Metals by ICPMS

Dissolved Aluminum (Al)	ug/L	9.35	0.50	9078961	9.55	0.50	9078961	90.3	0.50	9078961
Dissolved Antimony (Sb)	ug/L	0.155	0.020	9078961	0.149	0.020	9078961	0.093	0.020	9078961
Dissolved Arsenic (As)	ug/L	1.13	0.020	9078961	1.09	0.020	9078961	0.528	0.020	9078961
Dissolved Barium (Ba)	ug/L	92.5	0.020	9078961	93.2	0.020	9078961	33.4	0.020	9078961
Dissolved Beryllium (Be)	ug/L	<0.010	0.010	9078961	<0.010	0.010	9078961	0.022	0.010	9078961
Dissolved Bismuth (Bi)	ug/L	<0.0050	0.0050	9078961	<0.0050	0.0050	9078961	<0.0050	0.0050	9078961
Dissolved Boron (B)	ug/L	<10	10	9078961	<10	10	9078961	<10	10	9078961
Dissolved Cadmium (Cd)	ug/L	<0.0050	0.0050	9078961	<0.0050	0.0050	9078961	0.0070	0.0050	9078961
Dissolved Chromium (Cr)	ug/L	<0.10	0.10	9078961	0.12	0.10	9078961	0.34	0.10	9078961
Dissolved Cobalt (Co)	ug/L	0.0257	0.0050	9078961	0.0259	0.0050	9078961	0.0433	0.0050	9078961
Dissolved Copper (Cu)	ug/L	0.768	0.050	9078961	0.768	0.050	9078961	1.61	0.050	9078961
Dissolved Iron (Fe)	ug/L	3.3	1.0	9078961	3.4	1.0	9078961	52.4	1.0	9078961
Dissolved Lead (Pb)	ug/L	<0.0050	0.0050	9078961	<0.0050	0.0050	9078961	<0.0050	0.0050	9078961
Dissolved Lithium (Li)	ug/L	4.40	0.50	9078961	4.35	0.50	9078961	1.33	0.50	9078961
Dissolved Manganese (Mn)	ug/L	0.301	0.050	9078961	0.289	0.050	9078961	3.93	0.050	9078961
Dissolved Molybdenum (Mo)	ug/L	0.316	0.050	9078961	0.298	0.050	9078961	0.138	0.050	9078961
Dissolved Nickel (Ni)	ug/L	0.453	0.020	9078961	0.432	0.020	9078961	0.603	0.020	9078961
Dissolved Phosphorus (P)	ug/L	2.3	2.0	9078961	2.6	2.0	9078961	3.8	2.0	9078961
Dissolved Selenium (Se)	ug/L	0.284	0.040	9078961	0.284	0.040	9078961	0.073	0.040	9078961
Dissolved Silicon (Si)	ug/L	4960	50	9078961	4900	50	9078961	4850	50	9078961
Dissolved Silver (Ag)	ug/L	<0.0050	0.0050	9078961	<0.0050	0.0050	9078961	<0.0050	0.0050	9078961
Dissolved Strontium (Sr)	ug/L	1140	0.050	9078961	1130	0.050	9078961	237	0.050	9078961
Dissolved Thallium (Tl)	ug/L	<0.0020	0.0020	9078961	0.0036	0.0020	9078961	0.0022	0.0020	9078961
Dissolved Tin (Sn)	ug/L	<0.20	0.20	9078961	<0.20	0.20	9078961	<0.20	0.20	9078961
Dissolved Titanium (Ti)	ug/L	0.61	0.50	9078961	<0.50	0.50	9078961	1.12	0.50	9078961

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Maxxam Job #: B861486
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TX9050			TX9050			TX9051		
Sampling Date		2018/07/22 16:12			2018/07/22 16:12			2018/07/22 16:35		
COC Number		559732-01-01			559732-01-01			559732-01-01		
	UNITS	CC-1.0	RDL	QC Batch	CC-1.0 Lab-Dup	RDL	QC Batch	CC-1.5	RDL	QC Batch
Dissolved Uranium (U)	ug/L	27.2	0.0020	9078961	27.2	0.0020	9078961	5.24	0.0020	9078961
Dissolved Vanadium (V)	ug/L	0.32	0.20	9078961	0.33	0.20	9078961	0.35	0.20	9078961
Dissolved Zinc (Zn)	ug/L	0.12	0.10	9078961	0.14	0.10	9078961	0.29	0.10	9078961
Dissolved Zirconium (Zr)	ug/L	0.13	0.10	9078961	0.11	0.10	9078961	0.69	0.10	9078961
Dissolved Calcium (Ca)	mg/L	103	0.050	9078673				29.4	0.050	9078673
Dissolved Magnesium (Mg)	mg/L	36.5	0.050	9078673				8.75	0.050	9078673
Dissolved Potassium (K)	mg/L	5.52	0.050	9078673				1.74	0.050	9078673
Dissolved Sodium (Na)	mg/L	4.77	0.050	9078673				2.62	0.050	9078673
Dissolved Sulphur (S)	mg/L	61.1	3.0	9078673				18.1	3.0	9078673
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B861486
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TX9052		TX9053		TX9054	TX9103		
Sampling Date		2018/07/22 17:41		2018/07/22 17:17		2018/07/21 15:40	2018/07/22 14:25		
COC Number		559732-01-01		559732-01-01		559732-01-01	559732-02-01		
	UNITS	CC-6.0	QC Batch	CC-A	QC Batch	COFFEE MIX	HC-2.5	RDL	QC Batch

Calculated Parameters

Dissolved Hardness (CaCO3)	mg/L	10.7	9078181	53.1	9078181	86.5	94.1	0.50	9078181
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Elements

Dissolved Mercury (Hg)	ug/L	0.0052	9079940	0.0076	9079940	<0.0020	0.0058	0.0020	9079940
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Dissolved Metals by ICPMS

Dissolved Aluminum (Al)	ug/L	185	9078961	116	9078961	13.7	75.0	0.50	9078961
Dissolved Antimony (Sb)	ug/L	0.066	9078961	0.093	9078961	0.131	0.405	0.020	9078961
Dissolved Arsenic (As)	ug/L	0.572	9078961	0.507	9078961	0.533	0.945	0.020	9078961
Dissolved Barium (Ba)	ug/L	11.9	9078961	21.5	9078961	40.2	37.1	0.020	9078961
Dissolved Beryllium (Be)	ug/L	0.024	9078961	0.027	9078961	<0.010	0.013	0.010	9078961
Dissolved Bismuth (Bi)	ug/L	<0.0050	9078961	<0.0050	9078961	<0.0050	<0.0050	0.0050	9078961
Dissolved Boron (B)	ug/L	<10	9078961	<10	9078961	<10	<10	10	9078961
Dissolved Cadmium (Cd)	ug/L	0.0092	9078961	0.0084	9078961	0.0274	0.0056	0.0050	9078961
Dissolved Chromium (Cr)	ug/L	0.50	9078961	0.38	9078961	<0.10	0.34	0.10	9078961
Dissolved Cobalt (Co)	ug/L	0.127	9078961	0.0460	9078961	0.0091	0.0469	0.0050	9078961
Dissolved Copper (Cu)	ug/L	1.65	9078961	3.85	9085909	0.851	1.46	0.050	9078961
Dissolved Iron (Fe)	ug/L	181	9078961	69.3	9078961	8.2	47.1	1.0	9078961
Dissolved Lead (Pb)	ug/L	0.0132	9078961	0.0104	9078961	0.0161	<0.0050	0.0050	9078961
Dissolved Lithium (Li)	ug/L	<0.50	9078961	1.00	9078961	1.36	1.05	0.50	9078961
Dissolved Manganese (Mn)	ug/L	29.7	9078961	2.92	9078961	0.417	1.89	0.050	9078961
Dissolved Molybdenum (Mo)	ug/L	<0.050	9078961	0.107	9078961	1.23	1.28	0.050	9078961
Dissolved Nickel (Ni)	ug/L	0.874	9078961	0.733	9078961	0.742	0.692	0.020	9078961
Dissolved Phosphorus (P)	ug/L	6.5	9078961	4.5	9078961	8.3	<2.0	2.0	9078961
Dissolved Selenium (Se)	ug/L	0.060	9078961	0.054	9078961	0.289	0.076	0.040	9078961
Dissolved Silicon (Si)	ug/L	4690	9078961	5150	9078961	2720	5060	50	9078961
Dissolved Silver (Ag)	ug/L	<0.0050	9078961	<0.0050	9078961	<0.0050	<0.0050	0.0050	9078961
Dissolved Strontium (Sr)	ug/L	17.0	9078961	97.8	9078961	115	278	0.050	9078961
Dissolved Thallium (Tl)	ug/L	<0.0020	9078961	0.0023	9078961	0.0023	0.0026	0.0020	9078961
Dissolved Tin (Sn)	ug/L	<0.20	9078961	0.22	9078961	<0.20	<0.20	0.20	9078961
Dissolved Titanium (Ti)	ug/L	1.68	9078961	0.63	9078961	0.71	1.57	0.50	9078961
Dissolved Uranium (U)	ug/L	0.474	9078961	2.00	9078961	0.867	23.7	0.0020	9078961

RDL = Reportable Detection Limit

Maxxam Job #: B861486
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TX9052		TX9053		TX9054	TX9103		
Sampling Date		2018/07/22 17:41		2018/07/22 17:17		2018/07/21 15:40	2018/07/22 14:25		
COC Number		559732-01-01		559732-01-01		559732-01-01	559732-02-01		
	UNITS	CC-6.0	QC Batch	CC-A	QC Batch	COFFEE MIX	HC-2.5	RDL	QC Batch
Dissolved Vanadium (V)	ug/L	0.55	9078961	0.39	9078961	0.30	0.46	0.20	9078961
Dissolved Zinc (Zn)	ug/L	0.62	9078961	0.49	9078961	2.36	0.20	0.10	9078961
Dissolved Zirconium (Zr)	ug/L	0.87	9078961	0.80	9078961	<0.10	0.55	0.10	9078961
Dissolved Calcium (Ca)	mg/L	2.96	9078673	15.1	9078673	24.1	24.0	0.050	9078673
Dissolved Magnesium (Mg)	mg/L	0.811	9078673	3.73	9078673	6.37	8.27	0.050	9078673
Dissolved Potassium (K)	mg/L	0.080	9078673	0.768	9078673	0.763	1.74	0.050	9078673
Dissolved Sodium (Na)	mg/L	0.901	9078673	2.03	9078673	1.86	2.60	0.050	9078673
Dissolved Sulphur (S)	mg/L	<3.0	9078673	8.3	9078673	8.0	10.7	3.0	9078673
RDL = Reportable Detection Limit									

Maxxam Job #: B861486
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TX9104	TX9105		TX9106		TX9107		
Sampling Date		2018/07/21 17:38	2018/07/22 15:45		2018/07/22 15:30		2018/07/22 15:09		
COC Number		559732-02-01	559732-02-01		559732-02-01		559732-02-01		
	UNITS	HC-5.0	HC-A	QC Batch	HC-B	QC Batch	HC-C	RDL	QC Batch

Calculated Parameters

Dissolved Hardness (CaCO3)	mg/L	103	100	9078181	97.8	9078181	99.0	0.50	9078181
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Elements

Dissolved Mercury (Hg)	ug/L	0.0031	0.0069	9079940	0.0054	9079940	0.0031	0.0020	9079940
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Dissolved Metals by ICPMS

Dissolved Aluminum (Al)	ug/L	42.3	42.0	9078961	46.8	9078961	56.5	0.50	9078961
Dissolved Antimony (Sb)	ug/L	0.227	0.244	9078961	0.316	9078961	0.358	0.020	9078961
Dissolved Arsenic (As)	ug/L	0.638	0.672	9078961	0.750	9078961	0.821	0.020	9078961
Dissolved Barium (Ba)	ug/L	45.3	45.0	9078961	39.1	9078961	38.1	0.020	9078961
Dissolved Beryllium (Be)	ug/L	0.010	0.011	9078961	0.011	9078961	0.016	0.010	9078961
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	9078961	<0.0050	9078961	<0.0050	0.0050	9078961
Dissolved Boron (B)	ug/L	<10	<10	9078961	<10	9078961	<10	10	9078961
Dissolved Cadmium (Cd)	ug/L	<0.0050	0.0052	9078961	0.0084	9078961	0.0077	0.0050	9078961
Dissolved Chromium (Cr)	ug/L	0.28	0.25	9078961	0.28	9078961	0.30	0.10	9078961
Dissolved Cobalt (Co)	ug/L	0.0435	0.0407	9078961	0.0429	9078961	0.0447	0.0050	9078961
Dissolved Copper (Cu)	ug/L	1.68	1.58	9078961	1.82	9078961	1.65	0.050	9078961
Dissolved Iron (Fe)	ug/L	24.1	21.5	9078961	25.2	9078961	30.5	1.0	9078961
Dissolved Lead (Pb)	ug/L	<0.0050	<0.0050	9078961	0.0230	9078961	0.0102	0.0050	9078961
Dissolved Lithium (Li)	ug/L	0.83	0.74	9078961	0.80	9078961	1.00	0.50	9078961
Dissolved Manganese (Mn)	ug/L	0.299	0.342	9078961	1.22	9078961	0.653	0.050	9078961
Dissolved Molybdenum (Mo)	ug/L	0.640	0.654	9078961	0.812	9078961	1.06	0.050	9078961
Dissolved Nickel (Ni)	ug/L	0.718	0.594	9078961	0.586	9078961	0.632	0.020	9078961
Dissolved Phosphorus (P)	ug/L	2.6	<2.0	9078961	<2.0	9078961	<2.0	2.0	9078961
Dissolved Selenium (Se)	ug/L	0.070	0.051	9078961	0.052	9078961	0.061	0.040	9078961
Dissolved Silicon (Si)	ug/L	4670	4550	9078961	4710	9078961	4970	50	9078961
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	9078961	<0.0050	9078961	<0.0050	0.0050	9078961
Dissolved Strontium (Sr)	ug/L	244	265	9078961	255	9078961	273	0.050	9078961
Dissolved Thallium (Tl)	ug/L	0.0020	0.0027	9078961	<0.0020	9078961	<0.0020	0.0020	9078961
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	9078961	<0.20	9078961	<0.20	0.20	9078961
Dissolved Titanium (Ti)	ug/L	0.75	0.83	9078961	1.23	9078961	1.12	0.50	9078961
Dissolved Uranium (U)	ug/L	9.87	13.4	9078961	17.6	9078961	20.0	0.0020	9078961

RDL = Reportable Detection Limit

Maxxam Job #: B861486
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TX9104	TX9105		TX9106		TX9107		
Sampling Date		2018/07/21 17:38	2018/07/22 15:45		2018/07/22 15:30		2018/07/22 15:09		
COC Number		559732-02-01	559732-02-01		559732-02-01		559732-02-01		
	UNITS	HC-5.0	HC-A	QC Batch	HC-B	QC Batch	HC-C	RDL	QC Batch
Dissolved Vanadium (V)	ug/L	0.45	0.41	9078961	0.38	9078961	0.38	0.20	9078961
Dissolved Zinc (Zn)	ug/L	0.11	0.39	9078961	1.75	9084644	1.78	0.10	9078961
Dissolved Zirconium (Zr)	ug/L	0.46	0.48	9078961	0.49	9078961	0.50	0.10	9078961
Dissolved Calcium (Ca)	mg/L	27.6	26.3	9078673	25.1	9078673	25.3	0.050	9078673
Dissolved Magnesium (Mg)	mg/L	8.33	8.44	9078673	8.51	9078673	8.70	0.050	9078673
Dissolved Potassium (K)	mg/L	2.03	1.96	9078673	1.57	9078673	1.72	0.050	9078673
Dissolved Sodium (Na)	mg/L	3.08	3.08	9078673	3.03	9078673	2.83	0.050	9078673
Dissolved Sulphur (S)	mg/L	12.1	12.4	9078673	11.9	9078673	11.4	3.0	9078673
RDL = Reportable Detection Limit									

Maxxam Job #: B861486
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TX9108		TX9109	TX9110			TX9110		
Sampling Date		2018/07/21 18:07		2018/07/22 09:29	2018/07/22 09:08			2018/07/22 09:08		
COC Number		559732-02-01		559732-02-01	559732-02-01			559732-02-01		
	UNITS	HALFWAY MIX	QC Batch	IC-0.5	IC-1.5	RDL	QC Batch	IC-1.5 Lab-Dup	RDL	QC Batch

Calculated Parameters

Dissolved Hardness (CaCO3)	mg/L	88.8	9078181	106	60.9	0.50	9078181			
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Elements

Dissolved Mercury (Hg)	ug/L	<0.0020	9079940	0.0039	0.0060	0.0020	9079943	0.0058	0.0020	9079943
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Dissolved Metals by ICPMS

Dissolved Aluminum (Al)	ug/L	16.8	9078961	100	82.5	0.50	9078961			
Dissolved Antimony (Sb)	ug/L	0.126	9078961	0.090	0.109	0.020	9078961			
Dissolved Arsenic (As)	ug/L	0.475	9078961	0.576	0.298	0.020	9078961			
Dissolved Barium (Ba)	ug/L	42.3	9078961	33.6	34.0	0.020	9078961			
Dissolved Beryllium (Be)	ug/L	<0.010	9078961	0.019	0.010	0.010	9078961			
Dissolved Bismuth (Bi)	ug/L	<0.0050	9078961	<0.0050	<0.0050	0.0050	9078961			
Dissolved Boron (B)	ug/L	<10	9078961	<10	<10	10	9078961			
Dissolved Cadmium (Cd)	ug/L	0.0430	9078961	0.0251	<0.0050	0.0050	9078961			
Dissolved Chromium (Cr)	ug/L	<0.10	9078961	0.42	0.33	0.10	9078961			
Dissolved Cobalt (Co)	ug/L	0.0089	9078961	0.0783	0.0384	0.0050	9078961			
Dissolved Copper (Cu)	ug/L	1.29	9078961	2.94	1.81	0.050	9078961			
Dissolved Iron (Fe)	ug/L	7.5	9078961	67.6	51.9	1.0	9078961			
Dissolved Lead (Pb)	ug/L	0.0196	9078961	<0.0050	0.0064	0.0050	9078961			
Dissolved Lithium (Li)	ug/L	1.33	9078961	2.07	2.34	0.50	9078961			
Dissolved Manganese (Mn)	ug/L	0.564	9078961	4.80	0.569	0.050	9078961			
Dissolved Molybdenum (Mo)	ug/L	1.19	9078961	0.316	0.290	0.050	9078961			
Dissolved Nickel (Ni)	ug/L	0.903	9078961	2.45	0.807	0.020	9078961			
Dissolved Phosphorus (P)	ug/L	4.2	9078961	2.8	2.9	2.0	9078961			
Dissolved Selenium (Se)	ug/L	0.296	9078961	0.198	0.062	0.040	9078961			
Dissolved Silicon (Si)	ug/L	2760	9078961	4920	5140	50	9078961			
Dissolved Silver (Ag)	ug/L	<0.0050	9078961	<0.0050	<0.0050	0.0050	9078961			
Dissolved Strontium (Sr)	ug/L	119	9078961	83.1	106	0.050	9078961			
Dissolved Thallium (Tl)	ug/L	0.0024	9078961	0.0048	0.0028	0.0020	9078961			
Dissolved Tin (Sn)	ug/L	<0.20	9078961	<0.20	<0.20	0.20	9078961			
Dissolved Titanium (Ti)	ug/L	0.75	9078961	1.40	0.86	0.50	9078961			

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Maxxam Job #: B861486
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TX9108		TX9109	TX9110			TX9110		
Sampling Date		2018/07/21 18:07		2018/07/22 09:29	2018/07/22 09:08			2018/07/22 09:08		
COC Number		559732-02-01		559732-02-01	559732-02-01			559732-02-01		
	UNITS	HALFWAY MIX	QC Batch	IC-0.5	IC-1.5	RDL	QC Batch	IC-1.5 Lab-Dup	RDL	QC Batch
Dissolved Uranium (U)	ug/L	0.928	9078961	0.956	2.27	0.0020	9078961			
Dissolved Vanadium (V)	ug/L	0.33	9078961	0.47	0.44	0.20	9078961			
Dissolved Zinc (Zn)	ug/L	7.25	9078961	1.87	0.25	0.10	9078961			
Dissolved Zirconium (Zr)	ug/L	<0.10	9078961	0.70	0.70	0.10	9078961			
Dissolved Calcium (Ca)	mg/L	24.6	9078673	25.5	16.5	0.050	9078673			
Dissolved Magnesium (Mg)	mg/L	6.62	9078673	10.3	4.80	0.050	9078673			
Dissolved Potassium (K)	mg/L	0.878	9078673	1.01	0.974	0.050	9078673			
Dissolved Sodium (Na)	mg/L	2.28	9078673	3.07	3.63	0.050	9078673			
Dissolved Sulphur (S)	mg/L	8.7	9078673	21.3	5.2	3.0	9078673			

RDL = Reportable Detection Limit

Lab-Dup = Laboratory Initiated Duplicate

Maxxam Job #: B861486
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TX9111	TX9112	TX9145	TX9146	TX9147	TX9148		
Sampling Date		2018/07/22 10:01	2018/07/22 11:35	2018/07/22 13:00	2018/07/21 16:38	2018/07/21 17:06	2018/07/21 15:41		
COC Number		559732-02-01	559732-02-01	559732-03-01	559732-03-01	559732-03-01	559732-03-01		
	UNITS	IC-2.5	IC-3.0	IC-4.5	ML-1.0 (YT-24-1)	YT-24-MIX	YUK-2.0	RDL	QC Batch

Calculated Parameters									
Dissolved Hardness (CaCO3)	mg/L	16.4	96.6	66.4	126	88.4	92.3	0.50	9078181
Elements									
Dissolved Mercury (Hg)	ug/L	0.0052	0.0035	0.0037	0.0030	<0.0020	0.0039	0.0020	9079943
Dissolved Metals by ICPMS									
Dissolved Aluminum (Al)	ug/L	175	53.7	76.2	40.9	16.8	18.1	0.50	9078961
Dissolved Antimony (Sb)	ug/L	0.128	0.320	0.102	0.180	0.115	0.100	0.020	9078961
Dissolved Arsenic (As)	ug/L	0.968	1.14	0.429	0.448	0.537	0.447	0.020	9078961
Dissolved Barium (Ba)	ug/L	14.6	32.0	35.9	67.0	41.4	42.0	0.020	9078961
Dissolved Beryllium (Be)	ug/L	0.025	0.018	0.010	<0.010	<0.010	<0.010	0.010	9078961
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9078961
Dissolved Boron (B)	ug/L	<10	<10	<10	<10	<10	<10	10	9078961
Dissolved Cadmium (Cd)	ug/L	0.0052	<0.0050	0.0095	0.0053	0.0338	0.0229	0.0050	9078961
Dissolved Chromium (Cr)	ug/L	0.62	0.31	0.37	0.23	<0.10	<0.10	0.10	9078961
Dissolved Cobalt (Co)	ug/L	0.0726	0.0679	0.0486	0.0638	0.0070	0.0118	0.0050	9078961
Dissolved Copper (Cu)	ug/L	2.15	1.83	2.12	1.80	1.15	0.762	0.050	9078961
Dissolved Iron (Fe)	ug/L	267	37.1	48.4	23.1	8.3	8.5	1.0	9078961
Dissolved Lead (Pb)	ug/L	0.0191	<0.0050	<0.0050	<0.0050	0.0211	0.0161	0.0050	9078961
Dissolved Lithium (Li)	ug/L	0.60	<0.50	1.04	<0.50	1.37	1.39	0.50	9078961
Dissolved Manganese (Mn)	ug/L	2.69	20.9	2.48	0.717	0.294	1.33	0.050	9078961
Dissolved Molybdenum (Mo)	ug/L	0.096	0.431	0.242	0.450	1.21	1.15	0.050	9078961
Dissolved Nickel (Ni)	ug/L	0.949	0.758	1.10	0.706	0.887	0.868	0.020	9078961
Dissolved Phosphorus (P)	ug/L	6.2	3.4	8.5	2.4	11.9	2.6	2.0	9078961
Dissolved Selenium (Se)	ug/L	0.046	0.067	0.086	0.065	0.281	0.345	0.040	9078961
Dissolved Silicon (Si)	ug/L	4920	4630	4730	4000	2750	2700	50	9078961
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9078961
Dissolved Strontium (Sr)	ug/L	22.2	167	97.2	229	118	120	0.050	9078961
Dissolved Thallium (Tl)	ug/L	<0.0020	0.0031	0.0032	0.0024	0.0025	<0.0020	0.0020	9078961
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	9078961
Dissolved Titanium (Ti)	ug/L	2.10	1.14	0.63	1.01	0.52	1.11	0.50	9078961
Dissolved Uranium (U)	ug/L	0.780	3.86	1.00	2.09	0.889	0.927	0.0020	9078961
RDL = Reportable Detection Limit									

Maxxam Job #: B861486
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TX9111	TX9112	TX9145	TX9146	TX9147	TX9148		
Sampling Date		2018/07/22 10:01	2018/07/22 11:35	2018/07/22 13:00	2018/07/21 16:38	2018/07/21 17:06	2018/07/21 15:41		
COC Number		559732-02-01	559732-02-01	559732-03-01	559732-03-01	559732-03-01	559732-03-01		
	UNITS	IC-2.5	IC-3.0	IC-4.5	ML-1.0 (YT-24-1)	YT-24-MIX	YUK-2.0	RDL	QC Batch
Dissolved Vanadium (V)	ug/L	0.67	0.49	0.37	0.38	0.35	0.37	0.20	9078961
Dissolved Zinc (Zn)	ug/L	0.58	0.11	0.41	0.20	5.98	2.29	0.10	9078961
Dissolved Zirconium (Zr)	ug/L	1.31	0.69	0.73	0.53	<0.10	<0.10	0.10	9078961
Dissolved Calcium (Ca)	mg/L	4.56	30.3	18.2	35.5	24.6	25.4	0.050	9078673
Dissolved Magnesium (Mg)	mg/L	1.22	5.07	5.08	9.04	6.54	7.02	0.050	9078673
Dissolved Potassium (K)	mg/L	0.170	1.75	1.09	1.97	0.858	0.764	0.050	9078673
Dissolved Sodium (Na)	mg/L	1.16	2.93	2.93	3.47	2.43	1.87	0.050	9078673
Dissolved Sulphur (S)	mg/L	<3.0	13.8	9.4	22.0	8.4	8.1	3.0	9078673
RDL = Reportable Detection Limit									

Maxxam Job #: B861486
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TX9149		TX9150			TX9150		
Sampling Date		2018/07/21 18:35		2018/07/21 18:35			2018/07/21 18:35		
COC Number		559732-03-01		559732-03-01			559732-03-01		
	UNITS	YUK-5.0	QC Batch	SAMPLE A	RDL	QC Batch	SAMPLE A Lab-Dup	RDL	QC Batch
Calculated Parameters									
Dissolved Hardness (CaCO3)	mg/L	91.2	9078181	91.6	0.50	9078181			
Elements									
Dissolved Mercury (Hg)	ug/L	<0.0020	9079943	0.0025	0.0020	9079943			
Dissolved Metals by ICPMS									
Dissolved Aluminum (Al)	ug/L	19.8	9078961	20.6	0.50	9079393	20.7	0.50	9079393
Dissolved Antimony (Sb)	ug/L	0.102	9078961	0.118	0.020	9079393	0.115	0.020	9079393
Dissolved Arsenic (As)	ug/L	0.479	9078961	0.466	0.020	9079393	0.505	0.020	9079393
Dissolved Barium (Ba)	ug/L	42.7	9078961	42.5	0.020	9079393	42.0	0.020	9079393
Dissolved Beryllium (Be)	ug/L	<0.010	9078961	<0.010	0.010	9079393	<0.010	0.010	9079393
Dissolved Bismuth (Bi)	ug/L	<0.0050	9078961	<0.0050	0.0050	9079393	<0.0050	0.0050	9079393
Dissolved Boron (B)	ug/L	<10	9078961	<10	10	9079393	<10	10	9079393
Dissolved Cadmium (Cd)	ug/L	0.0251	9078961	0.0282	0.0050	9079393	0.0252	0.0050	9079393
Dissolved Chromium (Cr)	ug/L	<0.10	9078961	<0.10	0.10	9079393	<0.10	0.10	9079393
Dissolved Cobalt (Co)	ug/L	0.0092	9078961	0.0072	0.0050	9079393	0.0090	0.0050	9079393
Dissolved Copper (Cu)	ug/L	0.842	9078961	0.833	0.050	9079393	0.852	0.050	9079393
Dissolved Iron (Fe)	ug/L	8.5	9078961	8.4	1.0	9079393	9.3	1.0	9079393
Dissolved Lead (Pb)	ug/L	0.0143	9078961	0.0186	0.0050	9079393	0.0194	0.0050	9079393
Dissolved Lithium (Li)	ug/L	1.42	9078961	1.72	0.50	9079393	1.71	0.50	9079393
Dissolved Manganese (Mn)	ug/L	0.589	9078961	0.533	0.050	9079393	0.600	0.050	9079393
Dissolved Molybdenum (Mo)	ug/L	1.21	9078961	1.22	0.050	9079393	1.20	0.050	9079393
Dissolved Nickel (Ni)	ug/L	0.859	9078961	0.809	0.020	9079393	0.839	0.020	9079393
Dissolved Phosphorus (P)	ug/L	10.0	9078961	18.2	2.0	9079393	16.0	2.0	9079393
Dissolved Selenium (Se)	ug/L	0.316	9078961	0.324	0.040	9079393	0.340	0.040	9079393
Dissolved Silicon (Si)	ug/L	2720	9078961	2900	50	9079393	2820	50	9079393
Dissolved Silver (Ag)	ug/L	<0.0050	9078961	<0.0050	0.0050	9079393	<0.0050	0.0050	9079393
Dissolved Strontium (Sr)	ug/L	122	9078961	117	0.050	9079393	121	0.050	9079393
Dissolved Thallium (Tl)	ug/L	<0.0020	9078961	0.0020	0.0020	9079393	0.0023	0.0020	9079393
Dissolved Tin (Sn)	ug/L	<0.20	9078961	<0.20	0.20	9079393	<0.20	0.20	9079393
Dissolved Titanium (Ti)	ug/L	0.56	9078961	<0.50	0.50	9079393	<0.50	0.50	9079393
RDL = Reportable Detection Limit									
Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B861486
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TX9149		TX9150			TX9150		
Sampling Date		2018/07/21 18:35		2018/07/21 18:35			2018/07/21 18:35		
COC Number		559732-03-01		559732-03-01			559732-03-01		
	UNITS	YUK-5.0	QC Batch	SAMPLE A	RDL	QC Batch	SAMPLE A Lab-Dup	RDL	QC Batch
Dissolved Uranium (U)	ug/L	0.939	9078961	0.997	0.0020	9079393	1.00	0.0020	9079393
Dissolved Vanadium (V)	ug/L	0.31	9078961	0.29	0.20	9079393	0.28	0.20	9079393
Dissolved Zinc (Zn)	ug/L	1.58	9078961	1.83	0.10	9079393	1.87	0.10	9079393
Dissolved Zirconium (Zr)	ug/L	<0.10	9078961	<0.10	0.10	9079393	<0.10	0.10	9079393
Dissolved Calcium (Ca)	mg/L	25.1	9078673	25.4	0.050	9078673			
Dissolved Magnesium (Mg)	mg/L	6.92	9078673	6.87	0.050	9078673			
Dissolved Potassium (K)	mg/L	0.774	9078673	0.782	0.050	9078673			
Dissolved Sodium (Na)	mg/L	1.92	9078673	1.97	0.050	9078673			
Dissolved Sulphur (S)	mg/L	8.1	9078673	8.3	3.0	9078673			
RDL = Reportable Detection Limit									
Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B861486
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TX9179	TX9180			TX9180		
Sampling Date		2018/07/22 16:12	2018/07/23 08:30			2018/07/23 08:30		
COC Number		559732-04-01	559732-04-01			559732-04-01		
	UNITS	SAMPLE B	FIELD BLANK	RDL	QC Batch	FIELD BLANK Lab-Dup	RDL	QC Batch
Calculated Parameters								
Dissolved Hardness (CaCO3)	mg/L	380	<0.50	0.50	9078181			
Elements								
Dissolved Mercury (Hg)	ug/L	0.0022	<0.0020	0.0020	9079943			
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	ug/L	9.34	<0.50	0.50	9079393	<0.50	0.50	9079393
Dissolved Antimony (Sb)	ug/L	0.162	<0.020	0.020	9079393	<0.020	0.020	9079393
Dissolved Arsenic (As)	ug/L	1.12	<0.020	0.020	9079393	<0.020	0.020	9079393
Dissolved Barium (Ba)	ug/L	92.7	<0.020	0.020	9079393	<0.020	0.020	9079393
Dissolved Beryllium (Be)	ug/L	<0.010	0.026	0.010	9079393	0.013	0.010	9079393
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	0.0050	9079393	<0.0050	0.0050	9079393
Dissolved Boron (B)	ug/L	<10	<10	10	9079393	<10	10	9079393
Dissolved Cadmium (Cd)	ug/L	<0.0050	<0.0050	0.0050	9079393	<0.0050	0.0050	9079393
Dissolved Chromium (Cr)	ug/L	0.11	<0.10	0.10	9079393	<0.10	0.10	9079393
Dissolved Cobalt (Co)	ug/L	0.0257	<0.0050	0.0050	9079393	<0.0050	0.0050	9079393
Dissolved Copper (Cu)	ug/L	0.705	1.21 (1)	0.050	9079393	0.862 (2)	0.050	9079393
Dissolved Iron (Fe)	ug/L	3.0	<1.0	1.0	9079393	<1.0	1.0	9079393
Dissolved Lead (Pb)	ug/L	<0.0050	<0.0050	0.0050	9079393	<0.0050	0.0050	9079393
Dissolved Lithium (Li)	ug/L	5.25	<0.50	0.50	9079393	<0.50	0.50	9079393
Dissolved Manganese (Mn)	ug/L	0.302	<0.050	0.050	9079393	<0.050	0.050	9079393
Dissolved Molybdenum (Mo)	ug/L	0.328	<0.050	0.050	9079393	<0.050	0.050	9079393
Dissolved Nickel (Ni)	ug/L	0.374	<0.020	0.020	9079393	<0.020	0.020	9079393
Dissolved Phosphorus (P)	ug/L	2.9	2.2	2.0	9079393	<2.0	2.0	9079393
Dissolved Selenium (Se)	ug/L	0.268	<0.040	0.040	9079393	<0.040	0.040	9079393
Dissolved Silicon (Si)	ug/L	5010	<50	50	9079393	<50	50	9079393
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	0.0050	9079393	<0.0050	0.0050	9079393
Dissolved Strontium (Sr)	ug/L	1120	<0.050	0.050	9079393	<0.050	0.050	9079393
Dissolved Thallium (Tl)	ug/L	0.0046	<0.0020	0.0020	9079393	<0.0020	0.0020	9079393
RDL = Reportable Detection Limit								
Lab-Dup = Laboratory Initiated Duplicate								
(1) Duplicate RPD for Copper above control limit - (10% of analytes failure allowed).								
(2) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.								

Maxxam Job #: B861486
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TX9179	TX9180			TX9180		
Sampling Date		2018/07/22 16:12	2018/07/23 08:30			2018/07/23 08:30		
COC Number		559732-04-01	559732-04-01			559732-04-01		
	UNITS	SAMPLE B	FIELD BLANK	RDL	QC Batch	FIELD BLANK Lab-Dup	RDL	QC Batch
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	0.20	9079393	<0.20	0.20	9079393
Dissolved Titanium (Ti)	ug/L	<0.50	<0.50	0.50	9079393	<0.50	0.50	9079393
Dissolved Uranium (U)	ug/L	28.5	<0.0020	0.0020	9079393	<0.0020	0.0020	9079393
Dissolved Vanadium (V)	ug/L	0.29	<0.20	0.20	9079393	<0.20	0.20	9079393
Dissolved Zinc (Zn)	ug/L	0.16	<0.10	0.10	9079393	<0.10	0.10	9079393
Dissolved Zirconium (Zr)	ug/L	0.11	<0.10	0.10	9079393	<0.10	0.10	9079393
Dissolved Calcium (Ca)	mg/L	92.6	<0.050	0.050	9078673			
Dissolved Magnesium (Mg)	mg/L	36.1	<0.050	0.050	9078673			
Dissolved Potassium (K)	mg/L	5.49	<0.050	0.050	9078673			
Dissolved Sodium (Na)	mg/L	4.82	<0.050	0.050	9078673			
Dissolved Sulphur (S)	mg/L	56.2	<3.0	3.0	9078673			
RDL = Reportable Detection Limit								
Lab-Dup = Laboratory Initiated Duplicate								

Maxxam Job #: B861486
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TX9181			TX9181		
Sampling Date		2018/07/23 08:30			2018/07/23 08:30		
COC Number		559732-04-01			559732-04-01		
	UNITS	TRAVEL BLANK	RDL	QC Batch	TRAVEL BLANK Lab-Dup	RDL	QC Batch
Calculated Parameters							
Dissolved Hardness (CaCO3)	mg/L	<0.50	0.50	9078181			
Elements							
Dissolved Mercury (Hg)	ug/L	<0.0020	0.0020	9079943			
Dissolved Metals by ICPMS							
Dissolved Aluminum (Al)	ug/L	<0.50	0.50	9079393	<0.50	0.50	9079393
Dissolved Antimony (Sb)	ug/L	<0.020	0.020	9079393	<0.020	0.020	9079393
Dissolved Arsenic (As)	ug/L	<0.020	0.020	9079393	<0.020	0.020	9079393
Dissolved Barium (Ba)	ug/L	<0.020	0.020	9079393	<0.020	0.020	9079393
Dissolved Beryllium (Be)	ug/L	<0.010	0.010	9079393	<0.010	0.010	9079393
Dissolved Bismuth (Bi)	ug/L	<0.0050	0.0050	9079393	<0.0050	0.0050	9079393
Dissolved Boron (B)	ug/L	<10	10	9079393	<10	10	9079393
Dissolved Cadmium (Cd)	ug/L	<0.0050	0.0050	9079393	<0.0050	0.0050	9079393
Dissolved Chromium (Cr)	ug/L	<0.10	0.10	9079393	<0.10	0.10	9079393
Dissolved Cobalt (Co)	ug/L	<0.0050	0.0050	9079393	<0.0050	0.0050	9079393
Dissolved Copper (Cu)	ug/L	0.072	0.050	9079393	0.097	0.050	9079393
Dissolved Iron (Fe)	ug/L	<1.0	1.0	9079393	<1.0	1.0	9079393
Dissolved Lead (Pb)	ug/L	<0.0050	0.0050	9079393	<0.0050	0.0050	9079393
Dissolved Lithium (Li)	ug/L	<0.50	0.50	9079393	<0.50	0.50	9079393
Dissolved Manganese (Mn)	ug/L	<0.050	0.050	9079393	<0.050	0.050	9079393
Dissolved Molybdenum (Mo)	ug/L	<0.050	0.050	9079393	<0.050	0.050	9079393
Dissolved Nickel (Ni)	ug/L	<0.020	0.020	9079393	<0.020	0.020	9079393
Dissolved Phosphorus (P)	ug/L	<2.0	2.0	9079393	<2.0	2.0	9079393
Dissolved Selenium (Se)	ug/L	<0.040	0.040	9079393	<0.040	0.040	9079393
Dissolved Silicon (Si)	ug/L	<50	50	9079393	<50	50	9079393
Dissolved Silver (Ag)	ug/L	<0.0050	0.0050	9079393	<0.0050	0.0050	9079393
Dissolved Strontium (Sr)	ug/L	<0.050	0.050	9079393	<0.050	0.050	9079393
Dissolved Thallium (Tl)	ug/L	<0.0020	0.0020	9079393	<0.0020	0.0020	9079393
Dissolved Tin (Sn)	ug/L	<0.20	0.20	9079393	<0.20	0.20	9079393
Dissolved Titanium (Ti)	ug/L	<0.50	0.50	9079393	<0.50	0.50	9079393
RDL = Reportable Detection Limit							
Lab-Dup = Laboratory Initiated Duplicate							

Maxxam Job #: B861486
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TX9181			TX9181		
Sampling Date		2018/07/23 08:30			2018/07/23 08:30		
COC Number		559732-04-01			559732-04-01		
	UNITS	TRAVEL BLANK	RDL	QC Batch	TRAVEL BLANK Lab-Dup	RDL	QC Batch
Dissolved Uranium (U)	ug/L	<0.0020	0.0020	9079393	<0.0020	0.0020	9079393
Dissolved Vanadium (V)	ug/L	<0.20	0.20	9079393	<0.20	0.20	9079393
Dissolved Zinc (Zn)	ug/L	<0.10	0.10	9079393	<0.10	0.10	9079393
Dissolved Zirconium (Zr)	ug/L	<0.10	0.10	9079393	<0.10	0.10	9079393
Dissolved Calcium (Ca)	mg/L	<0.050	0.050	9078673			
Dissolved Magnesium (Mg)	mg/L	<0.050	0.050	9078673			
Dissolved Potassium (K)	mg/L	<0.050	0.050	9078673			
Dissolved Sodium (Na)	mg/L	<0.050	0.050	9078673			
Dissolved Sulphur (S)	mg/L	<3.0	3.0	9078673			
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate							

Maxxam Job #: B861486
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		TX9104		TX9105		TX9106		
Sampling Date		2018/07/21 17:38		2018/07/22 15:45		2018/07/22 15:30		
COC Number		559732-02-01		559732-02-01		559732-02-01		
	UNITS	HC-5.0	QC Batch	HC-A	QC Batch	HC-B	RDL	QC Batch
Calculated Parameters								
Total Hardness (CaCO3)	mg/L	104	9077955	104	9077955	98.6	0.50	9077955
Elements								
Total Mercury (Hg)	ug/L	0.0031	9079762	0.0033	9079921	0.0035	0.0020	9079862
Total Metals by ICPMS								
Total Aluminum (Al)	ug/L	60.7	9079922	66.8	9079922	59.5	0.50	9079922
Total Antimony (Sb)	ug/L	0.241	9079922	0.262	9079922	0.320	0.020	9079922
Total Arsenic (As)	ug/L	0.708	9079922	0.717	9079922	0.792	0.020	9079922
Total Barium (Ba)	ug/L	45.8	9079922	47.3	9079922	39.0	0.020	9079922
Total Beryllium (Be)	ug/L	0.015	9079922	0.019	9079922	0.018	0.010	9079922
Total Bismuth (Bi)	ug/L	<0.0050	9079922	<0.0050	9079922	<0.0050	0.0050	9079922
Total Boron (B)	ug/L	<10	9079922	<10	9079922	<10	10	9079922
Total Cadmium (Cd)	ug/L	<0.0050	9079922	<0.0050	9079922	0.0076	0.0050	9079922
Total Chromium (Cr)	ug/L	0.30	9079922	0.33	9079922	0.30	0.10	9079922
Total Cobalt (Co)	ug/L	0.0628	9079922	0.0641	9079922	0.0541	0.0050	9079922
Total Copper (Cu)	ug/L	1.71	9079922	1.57	9079922	1.54	0.050	9079922
Total Iron (Fe)	ug/L	51.3	9079922	56.1	9079922	45.2	1.0	9079922
Total Lead (Pb)	ug/L	0.0158	9079922	0.0162	9079922	0.0239	0.0050	9079922
Total Lithium (Li)	ug/L	1.01	9079922	0.93	9079922	0.97	0.50	9079922
Total Manganese (Mn)	ug/L	2.02	9079922	1.90	9079922	2.63	0.050	9079922
Total Molybdenum (Mo)	ug/L	0.614	9079922	0.706	9079922	0.774	0.050	9079922
Total Nickel (Ni)	ug/L	0.848	9079922	0.656	9079922	0.638	0.020	9079922
Total Phosphorus (P)	ug/L	2.1	9079922	2.4	9079922	5.0	2.0	9079922
Total Selenium (Se)	ug/L	0.072	9079922	0.051	9079922	0.066	0.040	9079922
Total Silicon (Si)	ug/L	4780	9079922	4630	9079922	4820	50	9079922
Total Silver (Ag)	ug/L	<0.0050	9079922	<0.0050	9079922	<0.0050	0.0050	9079922
Total Strontium (Sr)	ug/L	249	9079922	271	9079922	257	0.050	9079922
Total Thallium (Tl)	ug/L	0.0041	9079922	0.0034	9079922	0.0026	0.0020	9079922
Total Tin (Sn)	ug/L	<0.20	9079922	<0.20	9079922	<0.20	0.20	9079922
Total Titanium (Ti)	ug/L	2.06	9079922	2.49	9079922	1.86	0.50	9079922
Total Uranium (U)	ug/L	10.3	9079922	13.5	9079922	17.6	0.0020	9079922
RDL = Reportable Detection Limit								

Maxxam Job #: B861486
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		TX9104		TX9105		TX9106		
Sampling Date		2018/07/21 17:38		2018/07/22 15:45		2018/07/22 15:30		
COC Number		559732-02-01		559732-02-01		559732-02-01		
	UNITS	HC-5.0	QC Batch	HC-A	QC Batch	HC-B	RDL	QC Batch
Total Vanadium (V)	ug/L	0.45	9079922	0.44	9079922	0.41	0.20	9079922
Total Zinc (Zn)	ug/L	0.22	9079922	0.22	9079922	1.24	0.10	9079922
Total Zirconium (Zr)	ug/L	0.42	9079922	0.41	9079922	0.42	0.10	9079922
Total Calcium (Ca)	mg/L	27.9	9078676	27.0	9078676	25.3	0.050	9078676
Total Magnesium (Mg)	mg/L	8.37	9078676	8.78	9078676	8.60	0.050	9078676
Total Potassium (K)	mg/L	2.06	9078676	2.06	9078676	1.57	0.050	9078676
Total Sodium (Na)	mg/L	3.10	9078676	3.09	9078676	2.96	0.050	9078676
Total Sulphur (S)	mg/L	12.0	9078676	11.8	9078676	11.2	3.0	9078676
RDL = Reportable Detection Limit								

Maxxam Job #: B861486
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		TX9106			TX9107		TX9109	TX9112		
Sampling Date		2018/07/22 15:30			2018/07/22 15:09		2018/07/22 09:29	2018/07/22 11:35		
COC Number		559732-02-01			559732-02-01		559732-02-01	559732-02-01		
	UNITS	HC-B Lab-Dup	RDL	QC Batch	HC-C	QC Batch	IC-0.5	IC-3.0	RDL	QC Batch

Calculated Parameters

Total Hardness (CaCO3)	mg/L				100	9077955	107	98.6	0.50	9077955
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Elements

Total Mercury (Hg)	ug/L				0.0035	9079762	0.0038	0.0043	0.0020	9079921
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Total Metals by ICPMS

Total Aluminum (Al)	ug/L	61.7	0.50	9079922	74.0	9079922	108	163	0.50	9079922
Total Antimony (Sb)	ug/L	0.336	0.020	9079922	0.380	9079922	0.099	0.335	0.020	9079922
Total Arsenic (As)	ug/L	0.819	0.020	9079922	0.867	9079922	0.607	1.42	0.020	9079922
Total Barium (Ba)	ug/L	41.6	0.020	9079922	39.2	9079922	34.8	34.7	0.020	9079922
Total Beryllium (Be)	ug/L	0.020	0.010	9079922	0.017	9079922	0.025	0.031	0.010	9079922
Total Bismuth (Bi)	ug/L	<0.0050	0.0050	9079922	<0.0050	9079922	<0.0050	<0.0050	0.0050	9079922
Total Boron (B)	ug/L	<10	10	9079922	<10	9079922	<10	<10	10	9079922
Total Cadmium (Cd)	ug/L	0.0094	0.0050	9079922	0.0114	9079922	0.0308	0.0070	0.0050	9079922
Total Chromium (Cr)	ug/L	0.30	0.10	9079922	0.35	9079922	0.45	0.58	0.10	9079922
Total Cobalt (Co)	ug/L	0.0553	0.0050	9079922	0.0643	9079922	0.0848	0.167	0.0050	9079922
Total Copper (Cu)	ug/L	1.66	0.050	9079922	1.76	9079922	2.99	2.08	0.050	9079922
Total Iron (Fe)	ug/L	42.9	1.0	9079922	57.9	9079922	76.0	188	1.0	9079922
Total Lead (Pb)	ug/L	0.0228	0.0050	9079922	0.0348	9079922	0.0058	0.0850	0.0050	9079922
Total Lithium (Li)	ug/L	1.02	0.50	9079922	1.18	9079922	2.54	<0.50	0.50	9079922
Total Manganese (Mn)	ug/L	2.54	0.050	9079922	3.00	9079922	5.45	28.7	0.050	9079922
Total Molybdenum (Mo)	ug/L	0.813	0.050	9079922	1.00	9079922	0.321	0.388	0.050	9079922
Total Nickel (Ni)	ug/L	0.672	0.020	9079922	0.676	9079922	2.47	0.920	0.020	9079922
Total Phosphorus (P)	ug/L	2.2	2.0	9079922	3.1	9079922	<2.0	5.2	2.0	9079922
Total Selenium (Se)	ug/L	0.059	0.040	9079922	0.072	9079922	0.225	0.059	0.040	9079922
Total Silicon (Si)	ug/L	4910	50	9079922	5040	9079922	5280	4720	50	9079922
Total Silver (Ag)	ug/L	<0.0050	0.0050	9079922	<0.0050	9079922	<0.0050	<0.0050	0.0050	9079922
Total Strontium (Sr)	ug/L	272	0.050	9079922	279	9079922	87.2	180	0.050	9079922
Total Thallium (Tl)	ug/L	0.0020	0.0020	9079922	0.0025	9079922	0.0048	0.0066	0.0020	9079922
Total Tin (Sn)	ug/L	<0.20	0.20	9079922	<0.20	9079922	<0.20	<0.20	0.20	9079922
Total Titanium (Ti)	ug/L	1.54	0.50	9079922	1.91	9079922	1.24	9.64	0.50	9079922

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Maxxam Job #: B861486
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		TX9106			TX9107		TX9109	TX9112		
Sampling Date		2018/07/22 15:30			2018/07/22 15:09		2018/07/22 09:29	2018/07/22 11:35		
COC Number		559732-02-01			559732-02-01		559732-02-01	559732-02-01		
	UNITS	HC-B Lab-Dup	RDL	QC Batch	HC-C	QC Batch	IC-0.5	IC-3.0	RDL	QC Batch
Total Uranium (U)	ug/L	18.8	0.0020	9079922	20.8	9079922	1.13	4.04	0.0020	9079922
Total Vanadium (V)	ug/L	0.42	0.20	9079922	0.42	9079922	0.44	0.75	0.20	9079922
Total Zinc (Zn)	ug/L	1.27	0.10	9079922	2.07	9079922	2.19	0.57	0.10	9079922
Total Zirconium (Zr)	ug/L	0.45	0.10	9079922	0.43	9079922	0.67	0.58	0.10	9079922
Total Calcium (Ca)	mg/L				25.5	9078676	25.5	30.8	0.050	9078676
Total Magnesium (Mg)	mg/L				8.82	9078676	10.6	5.29	0.050	9078676
Total Potassium (K)	mg/L				1.78	9078676	1.02	1.94	0.050	9078676
Total Sodium (Na)	mg/L				2.87	9078676	3.09	3.04	0.050	9078676
Total Sulphur (S)	mg/L				10.9	9078676	22.8	13.1	3.0	9078676
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B861486
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		TX9179		TX9180			TX9180		
Sampling Date		2018/07/22 16:12		2018/07/23 08:30			2018/07/23 08:30		
COC Number		559732-04-01		559732-04-01			559732-04-01		
	UNITS	SAMPLE B	QC Batch	FIELD BLANK	RDL	QC Batch	FIELD BLANK Lab-Dup	RDL	QC Batch

Calculated Parameters

Total Hardness (CaCO3)	mg/L	417	9077955	<0.50	0.50	9077955			
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Elements

Total Mercury (Hg)	ug/L	<0.0020	9079762	<0.0020	0.0020	9079921			
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Total Metals by ICPMS

Total Aluminum (Al)	ug/L	92.3	9079922	1.52	0.50	9079922	1.32	0.50	9079922
Total Antimony (Sb)	ug/L	0.158	9079922	<0.020	0.020	9079922	<0.020	0.020	9079922
Total Arsenic (As)	ug/L	1.34	9079922	<0.020	0.020	9079922	<0.020	0.020	9079922
Total Barium (Ba)	ug/L	95.8	9079922	0.025	0.020	9079922	<0.020	0.020	9079922
Total Beryllium (Be)	ug/L	<0.010	9079922	<0.010	0.010	9079922	<0.010	0.010	9079922
Total Bismuth (Bi)	ug/L	<0.0050	9079922	<0.0050	0.0050	9079922	<0.0050	0.0050	9079922
Total Boron (B)	ug/L	<10	9079922	<10	10	9079922	<10	10	9079922
Total Cadmium (Cd)	ug/L	0.0066	9079922	<0.0050	0.0050	9079922	<0.0050	0.0050	9079922
Total Chromium (Cr)	ug/L	0.34	9079922	<0.10	0.10	9079922	<0.10	0.10	9079922
Total Cobalt (Co)	ug/L	0.109	9079922	<0.0050	0.0050	9079922	<0.0050	0.0050	9079922
Total Copper (Cu)	ug/L	1.01	9079922	<0.050	0.050	9079922	<0.050	0.050	9079922
Total Iron (Fe)	ug/L	140	9079922	1.3	1.0	9079922	<1.0	1.0	9079922
Total Lead (Pb)	ug/L	0.0714	9079922	<0.0050	0.0050	9079922	0.0070	0.0050	9079922
Total Lithium (Li)	ug/L	5.16	9079922	<0.50	0.50	9079922	<0.50	0.50	9079922
Total Manganese (Mn)	ug/L	7.29	9079922	0.060	0.050	9079922	<0.050	0.050	9079922
Total Molybdenum (Mo)	ug/L	0.305	9079922	<0.050	0.050	9079922	<0.050	0.050	9079922
Total Nickel (Ni)	ug/L	0.696	9079922	<0.020	0.020	9079922	<0.020	0.020	9079922
Total Phosphorus (P)	ug/L	4.1	9079922	<2.0	2.0	9079922	<2.0	2.0	9079922
Total Selenium (Se)	ug/L	0.281	9079922	<0.040	0.040	9079922	<0.040	0.040	9079922
Total Silicon (Si)	ug/L	5160	9079922	<50	50	9079922	<50	50	9079922
Total Silver (Ag)	ug/L	<0.0050	9079922	<0.0050	0.0050	9079922	<0.0050	0.0050	9079922
Total Strontium (Sr)	ug/L	1130	9079922	<0.050	0.050	9079922	<0.050	0.050	9079922
Total Thallium (Tl)	ug/L	0.0062	9079922	<0.0020	0.0020	9079922	<0.0020	0.0020	9079922
Total Tin (Sn)	ug/L	<0.20	9079922	<0.20	0.20	9079922	<0.20	0.20	9079922
Total Titanium (Ti)	ug/L	6.12	9079922	0.57	0.50	9079922	0.54	0.50	9079922

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Maxxam Job #: B861486
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		TX9179		TX9180			TX9180		
Sampling Date		2018/07/22 16:12		2018/07/23 08:30			2018/07/23 08:30		
COC Number		559732-04-01		559732-04-01			559732-04-01		
	UNITS	SAMPLE B	QC Batch	FIELD BLANK	RDL	QC Batch	FIELD BLANK Lab-Dup	RDL	QC Batch
Total Uranium (U)	ug/L	28.4	9079922	<0.0020	0.0020	9079922	<0.0020	0.0020	9079922
Total Vanadium (V)	ug/L	0.54	9079922	<0.20	0.20	9079922	<0.20	0.20	9079922
Total Zinc (Zn)	ug/L	0.60	9079922	<0.10	0.10	9079922	<0.10	0.10	9079922
Total Zirconium (Zr)	ug/L	<0.10	9079922	<0.10	0.10	9079922	<0.10	0.10	9079922
Total Calcium (Ca)	mg/L	106	9078676	<0.050	0.050	9078676			
Total Magnesium (Mg)	mg/L	37.0	9078676	<0.050	0.050	9078676			
Total Potassium (K)	mg/L	5.61	9078676	<0.050	0.050	9078676			
Total Sodium (Na)	mg/L	4.78	9078676	<0.050	0.050	9078676			
Total Sulphur (S)	mg/L	60.3	9078676	<3.0	3.0	9078676			
RDL = Reportable Detection Limit									
Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B861486
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		TX9181			TX9181		
Sampling Date		2018/07/23 08:30			2018/07/23 08:30		
COC Number		559732-04-01			559732-04-01		
	UNITS	TRAVEL BLANK	RDL	QC Batch	TRAVEL BLANK Lab-Dup	RDL	QC Batch
Calculated Parameters							
Total Hardness (CaCO3)	mg/L	<0.50	0.50	9077955			
Elements							
Total Mercury (Hg)	ug/L	<0.0020	0.0020	9079862	<0.0020	0.0020	9079862
Total Metals by ICPMS							
Total Aluminum (Al)	ug/L	<0.50	0.50	9079922			
Total Antimony (Sb)	ug/L	<0.020	0.020	9079922			
Total Arsenic (As)	ug/L	<0.020	0.020	9079922			
Total Barium (Ba)	ug/L	<0.020	0.020	9079922			
Total Beryllium (Be)	ug/L	<0.010	0.010	9079922			
Total Bismuth (Bi)	ug/L	<0.0050	0.0050	9079922			
Total Boron (B)	ug/L	<10	10	9079922			
Total Cadmium (Cd)	ug/L	<0.0050	0.0050	9079922			
Total Chromium (Cr)	ug/L	<0.10	0.10	9079922			
Total Cobalt (Co)	ug/L	<0.0050	0.0050	9079922			
Total Copper (Cu)	ug/L	<0.050	0.050	9079922			
Total Iron (Fe)	ug/L	<1.0	1.0	9079922			
Total Lead (Pb)	ug/L	<0.0050	0.0050	9079922			
Total Lithium (Li)	ug/L	<0.50	0.50	9079922			
Total Manganese (Mn)	ug/L	<0.050	0.050	9079922			
Total Molybdenum (Mo)	ug/L	<0.050	0.050	9079922			
Total Nickel (Ni)	ug/L	<0.020	0.020	9079922			
Total Phosphorus (P)	ug/L	<2.0	2.0	9079922			
Total Selenium (Se)	ug/L	<0.040	0.040	9079922			
Total Silicon (Si)	ug/L	<50	50	9079922			
Total Silver (Ag)	ug/L	<0.0050	0.0050	9079922			
Total Strontium (Sr)	ug/L	<0.050	0.050	9079922			
Total Thallium (Tl)	ug/L	<0.0020	0.0020	9079922			
Total Tin (Sn)	ug/L	<0.20	0.20	9079922			
Total Titanium (Ti)	ug/L	<0.50	0.50	9079922			
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate							

Maxxam Job #: B861486
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		TX9181			TX9181		
Sampling Date		2018/07/23 08:30			2018/07/23 08:30		
COC Number		559732-04-01			559732-04-01		
	UNITS	TRAVEL BLANK	RDL	QC Batch	TRAVEL BLANK Lab-Dup	RDL	QC Batch
Total Uranium (U)	ug/L	<0.0020	0.0020	9079922			
Total Vanadium (V)	ug/L	<0.20	0.20	9079922			
Total Zinc (Zn)	ug/L	<0.10	0.10	9079922			
Total Zirconium (Zr)	ug/L	<0.10	0.10	9079922			
Total Calcium (Ca)	mg/L	<0.050	0.050	9078676			
Total Magnesium (Mg)	mg/L	<0.050	0.050	9078676			
Total Potassium (K)	mg/L	<0.050	0.050	9078676			
Total Sodium (Na)	mg/L	<0.050	0.050	9078676			
Total Sulphur (S)	mg/L	<3.0	3.0	9078676			
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate							

Maxxam Job #: B861486
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TX9050		TX9051		TX9052		TX9053		
Sampling Date		2018/07/22 16:12		2018/07/22 16:35		2018/07/22 17:41		2018/07/22 17:17		
COC Number		559732-01-01		559732-01-01		559732-01-01		559732-01-01		
	UNITS	CC-1.0	QC Batch	CC-1.5	QC Batch	CC-6.0	QC Batch	CC-A	RDL	QC Batch
Calculated Parameters										
Total Hardness (CaCO3)	mg/L	441	9077955	117	9077955	11.5	9077955	54.5	0.50	9077955
Elements										
Total Mercury (Hg)	ug/L	<0.0020	9084971	0.0056	9079921	0.0056	9079862	0.0062	0.0020	9079921
Total Metals by ICPMS										
Total Aluminum (Al)	ug/L	30.7	9081520	106	9081520	234	9081520	136	3.0	9081520
Total Antimony (Sb)	ug/L	0.174	9081520	0.112	9081520	0.077	9081520	0.108	0.020	9081520
Total Arsenic (As)	ug/L	1.68	9081520	0.606	9081520	0.644	9081520	0.552	0.020	9081520
Total Barium (Ba)	ug/L	99.0	9081520	35.5	9081520	13.4	9081520	22.9	0.050	9081520
Total Beryllium (Be)	ug/L	<0.010	9081520	0.026	9081520	0.029	9081520	0.029	0.010	9081520
Total Bismuth (Bi)	ug/L	<0.010	9081520	<0.010	9081520	<0.010	9081520	<0.010	0.010	9081520
Total Boron (B)	ug/L	<10	9081520	<10	9081520	<10	9081520	<10	10	9081520
Total Cadmium (Cd)	ug/L	0.0051	9081520	0.0069	9081520	0.0132	9081520	0.0073	0.0050	9081520
Total Chromium (Cr)	ug/L	0.19	9081520	0.38	9081520	0.61	9081520	0.44	0.10	9081520
Total Cobalt (Co)	ug/L	0.040	9081520	0.047	9081520	0.157	9081520	0.053	0.010	9081520
Total Copper (Cu)	ug/L	0.86	9081520	1.71	9081520	1.85	9081520	1.81	0.10	9081520
Total Iron (Fe)	ug/L	36.4	9081520	69.8	9081520	309	9081520	89.7	5.0	9081520
Total Lead (Pb)	ug/L	<0.020	9081520	<0.020	9081520	0.033	9081520	<0.020	0.020	9081520
Total Lithium (Li)	ug/L	5.27	9081520	1.48	9081520	<0.50	9081520	1.10	0.50	9081520
Total Manganese (Mn)	ug/L	1.25	9081520	4.59	9081520	36.6	9081520	3.67	0.10	9081520
Total Molybdenum (Mo)	ug/L	0.348	9081520	0.160	9081520	<0.050	9081520	0.098	0.050	9081520
Total Nickel (Ni)	ug/L	0.46	9081520	0.61	9081520	0.97	9081520	0.69	0.10	9081520
Total Phosphorus (P)	ug/L	<5.0	9081520	<5.0	9081520	7.7	9081520	5.0	5.0	9081520
Total Selenium (Se)	ug/L	0.338	9081520	0.085	9081520	<0.040	9081520	0.051	0.040	9081520
Total Silicon (Si)	ug/L	5380	9081520	5270	9081520	5250	9081520	5390	50	9081520
Total Silver (Ag)	ug/L	<0.010	9081520	<0.010	9081520	<0.010	9081520	<0.010	0.010	9081520
Total Strontium (Sr)	ug/L	1210	9081520	245	9081520	18.0	9081520	99.0	0.050	9081520
Total Thallium (Tl)	ug/L	0.0049	9081520	0.0022	9081520	<0.0020	9081520	0.0022	0.0020	9081520
Total Tin (Sn)	ug/L	<0.20	9081520	<0.20	9081520	<0.20	9081520	<0.20	0.20	9081520
Total Titanium (Ti)	ug/L	<2.0	9081520	<2.0	9081520	2.3	9081520	<2.0	2.0	9081520
Total Uranium (U)	ug/L	30.9	9081520	6.21	9081520	0.548	9081520	2.58	0.0050	9081520
Total Vanadium (V)	ug/L	0.33	9081520	0.36	9081520	0.63	9081520	0.40	0.20	9081520
RDL = Reportable Detection Limit										

Maxxam Job #: B861486
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TX9050		TX9051		TX9052		TX9053		
Sampling Date		2018/07/22 16:12		2018/07/22 16:35		2018/07/22 17:41		2018/07/22 17:17		
COC Number		559732-01-01		559732-01-01		559732-01-01		559732-01-01		
	UNITS	CC-1.0	QC Batch	CC-1.5	QC Batch	CC-6.0	QC Batch	CC-A	RDL	QC Batch
Total Zinc (Zn)	ug/L	<1.0	9081520	<1.0	9081520	<1.0	9081520	<1.0	1.0	9081520
Total Zirconium (Zr)	ug/L	<0.10	9081520	0.53	9081520	0.71	9081520	0.62	0.10	9081520
Total Calcium (Ca)	mg/L	111	9078676	31.2	9078676	3.09	9078676	15.3	0.25	9078676
Total Magnesium (Mg)	mg/L	39.4	9078676	9.61	9078676	0.92	9078676	3.98	0.25	9078676
Total Potassium (K)	mg/L	5.93	9078676	1.85	9078676	<0.25	9078676	0.79	0.25	9078676
Total Sodium (Na)	mg/L	5.30	9078676	2.87	9078676	0.97	9078676	2.16	0.25	9078676
Total Sulphur (S)	mg/L	65.4	9078676	19.7	9078676	<3.0	9078676	8.8	3.0	9078676
RDL = Reportable Detection Limit										

Maxxam Job #: B861486
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TX9054			TX9054			TX9103		
Sampling Date		2018/07/21 15:40			2018/07/21 15:40			2018/07/22 14:25		
COC Number		559732-01-01			559732-01-01			559732-02-01		
	UNITS	COFFEE MIX	RDL	QC Batch	COFFEE MIX Lab-Dup	RDL	QC Batch	HC-2.5	RDL	QC Batch

Calculated Parameters

Total Hardness (CaCO3)	mg/L	87.0	0.50	9077955				95.7	0.50	9077955
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Elements

Total Mercury (Hg)	ug/L	<0.0020	0.0020	9079762				0.0040	0.0020	9079921
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Total Metals by ICPMS

Total Aluminum (Al)	ug/L	252	3.0	9079676	252	3.0	9079676	91.3	3.0	9079676
Total Antimony (Sb)	ug/L	0.160	0.020	9079676	0.160	0.020	9079676	0.414	0.020	9079676
Total Arsenic (As)	ug/L	0.760	0.020	9079676	0.743	0.020	9079676	1.03	0.020	9079676
Total Barium (Ba)	ug/L	47.5	0.050	9079676	48.3	0.050	9079676	37.1	0.050	9079676
Total Beryllium (Be)	ug/L	0.016	0.010	9079676	0.011	0.010	9079676	0.012	0.010	9079676
Total Bismuth (Bi)	ug/L	<0.010	0.010	9079676	<0.010	0.010	9079676	<0.010	0.010	9079676
Total Boron (B)	ug/L	<10	10	9079676	<10	10	9079676	<10	10	9079676
Total Cadmium (Cd)	ug/L	0.0621	0.0050	9079676	0.0627	0.0050	9079676	0.0073	0.0050	9079676
Total Chromium (Cr)	ug/L	0.47	0.10	9079676	0.52	0.10	9079676	0.35	0.10	9079676
Total Cobalt (Co)	ug/L	0.188	0.010	9079676	0.186	0.010	9079676	0.056	0.010	9079676
Total Copper (Cu)	ug/L	1.40	0.10	9079676	1.38	0.10	9079676	1.46	0.10	9079676
Total Iron (Fe)	ug/L	367	5.0	9079676	371	5.0	9079676	64.1	5.0	9079676
Total Lead (Pb)	ug/L	0.263	0.020	9079676	0.259	0.020	9079676	<0.020	0.020	9079676
Total Lithium (Li)	ug/L	1.68	0.50	9079676	1.65	0.50	9079676	1.23	0.50	9079676
Total Manganese (Mn)	ug/L	18.5	0.10	9079676	18.6	0.10	9079676	2.86	0.10	9079676
Total Molybdenum (Mo)	ug/L	1.14	0.050	9079676	1.14	0.050	9079676	1.39	0.050	9079676
Total Nickel (Ni)	ug/L	1.48	0.10	9079676	1.58	0.10	9079676	0.65	0.10	9079676
Total Phosphorus (P)	ug/L	31.8	5.0	9079676	32.3	5.0	9079676	<5.0	5.0	9079676
Total Selenium (Se)	ug/L	0.295	0.040	9079676	0.299	0.040	9079676	0.066	0.040	9079676
Total Silicon (Si)	ug/L	3140	50	9079676	3150	50	9079676	5260	50	9079676
Total Silver (Ag)	ug/L	<0.010	0.010	9079676	<0.010	0.010	9079676	<0.010	0.010	9079676
Total Strontium (Sr)	ug/L	113	0.050	9079676	115	0.050	9079676	286	0.050	9079676
Total Thallium (Tl)	ug/L	0.0065	0.0020	9079676	0.0059	0.0020	9079676	0.0025	0.0020	9079676
Total Tin (Sn)	ug/L	<0.20	0.20	9079676	<0.20	0.20	9079676	<0.20	0.20	9079676
Total Titanium (Ti)	ug/L	8.7	2.0	9079676	11.3	2.0	9079676	<2.0	2.0	9079676
Total Uranium (U)	ug/L	0.977	0.0050	9079676	0.974	0.0050	9079676	24.7	0.0050	9079676

RDL = Reportable Detection Limit

Lab-Dup = Laboratory Initiated Duplicate

Maxxam Job #: B861486
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TX9054			TX9054			TX9103		
Sampling Date		2018/07/21 15:40			2018/07/21 15:40			2018/07/22 14:25		
COC Number		559732-01-01			559732-01-01			559732-02-01		
	UNITS	COFFEE MIX	RDL	QC Batch	COFFEE MIX Lab-Dup	RDL	QC Batch	HC-2.5	RDL	QC Batch
Total Vanadium (V)	ug/L	0.95	0.20	9079676	0.97	0.20	9079676	0.38	0.20	9079676
Total Zinc (Zn)	ug/L	7.6	1.0	9079676	7.7	1.0	9079676	<1.0	1.0	9079676
Total Zirconium (Zr)	ug/L	0.11	0.10	9079676	0.15	0.10	9079676	0.49	0.10	9079676
Total Calcium (Ca)	mg/L	24.2	0.25	9078676				24.4	0.25	9078676
Total Magnesium (Mg)	mg/L	6.45	0.25	9078676				8.44	0.25	9078676
Total Potassium (K)	mg/L	0.83	0.25	9078676				1.86	0.25	9078676
Total Sodium (Na)	mg/L	1.83	0.25	9078676				2.64	0.25	9078676
Total Sulphur (S)	mg/L	7.0	3.0	9078676				10.4	3.0	9078676
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B861486
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TX9108		TX9110	TX9111		TX9145		
Sampling Date		2018/07/21 18:07		2018/07/22 09:08	2018/07/22 10:01		2018/07/22 13:00		
COC Number		559732-02-01		559732-02-01	559732-02-01		559732-03-01		
	UNITS	HALFWAY MIX	QC Batch	IC-1.5	IC-2.5	QC Batch	IC-4.5	RDL	QC Batch
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	89.7	9077955	61.3	17.1	9077955	67.3	0.50	9077955
Elements									
Total Mercury (Hg)	ug/L	<0.0020	9079862	0.0054	0.0048	9079762	0.0041	0.0020	9079862
Total Metals by ICPMS									
Total Aluminum (Al)	ug/L	133	9079676	106	212	9079676	88.3	3.0	9079676
Total Antimony (Sb)	ug/L	0.161	9079676	0.122	0.152	9079676	0.111	0.020	9079676
Total Arsenic (As)	ug/L	0.625	9079676	0.325	1.15	9079676	0.477	0.020	9079676
Total Barium (Ba)	ug/L	46.8	9079676	35.4	15.2	9079676	36.8	0.050	9079676
Total Beryllium (Be)	ug/L	<0.010	9079676	0.018	0.037	9079676	0.019	0.010	9079676
Total Bismuth (Bi)	ug/L	<0.010	9079676	<0.010	<0.010	9079676	<0.010	0.010	9079676
Total Boron (B)	ug/L	<10	9079676	<10	<10	9079676	<10	10	9079676
Total Cadmium (Cd)	ug/L	0.0730	9079676	0.0075	0.0057	9079676	0.0079	0.0050	9079676
Total Chromium (Cr)	ug/L	0.29	9079676	0.35	0.67	9079676	0.36	0.10	9079676
Total Cobalt (Co)	ug/L	0.120	9079676	0.049	0.086	9079676	0.050	0.010	9079676
Total Copper (Cu)	ug/L	1.71	9079676	1.78	2.00	9079676	2.12	0.10	9079676
Total Iron (Fe)	ug/L	235	9079676	73.8	391	9079676	64.7	5.0	9079676
Total Lead (Pb)	ug/L	0.198	9079676	<0.020	0.038	9079676	<0.020	0.020	9079676
Total Lithium (Li)	ug/L	1.64	9079676	2.74	0.73	9079676	1.25	0.50	9079676
Total Manganese (Mn)	ug/L	14.0	9079676	1.07	4.34	9079676	3.24	0.10	9079676
Total Molybdenum (Mo)	ug/L	1.17	9079676	0.272	0.093	9079676	0.243	0.050	9079676
Total Nickel (Ni)	ug/L	1.35	9079676	0.78	1.04	9079676	1.15	0.10	9079676
Total Phosphorus (P)	ug/L	27.8	9079676	<5.0	6.3	9079676	<5.0	5.0	9079676
Total Selenium (Se)	ug/L	0.310	9079676	0.070	0.065	9079676	0.086	0.040	9079676
Total Silicon (Si)	ug/L	3060	9079676	5330	5430	9079676	4910	50	9079676
Total Silver (Ag)	ug/L	<0.010	9079676	<0.010	<0.010	9079676	<0.010	0.010	9079676
Total Strontium (Sr)	ug/L	118	9079676	108	23.1	9079676	101	0.050	9079676
Total Thallium (Tl)	ug/L	0.0040	9079676	0.0045	<0.0020	9079676	0.0024	0.0020	9079676
Total Tin (Sn)	ug/L	0.60	9079676	<0.20	<0.20	9079676	<0.20	0.20	9079676
Total Titanium (Ti)	ug/L	2.5	9079676	<2.0	3.2	9079676	<2.0	2.0	9079676
Total Uranium (U)	ug/L	1.00	9079676	2.55	0.827	9079676	1.02	0.0050	9079676
Total Vanadium (V)	ug/L	0.61	9079676	0.42	0.73	9079676	0.32	0.20	9079676
RDL = Reportable Detection Limit									

Maxxam Job #: B861486
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TX9108		TX9110	TX9111		TX9145		
Sampling Date		2018/07/21 18:07		2018/07/22 09:08	2018/07/22 10:01		2018/07/22 13:00		
COC Number		559732-02-01		559732-02-01	559732-02-01		559732-03-01		
	UNITS	HALFWAY MIX	QC Batch	IC-1.5	IC-2.5	QC Batch	IC-4.5	RDL	QC Batch
Total Zinc (Zn)	ug/L	11.2	9079676	<1.0	<1.0	9079676	<1.0	1.0	9079676
Total Zirconium (Zr)	ug/L	<0.10	9079676	0.63	1.21	9079676	0.64	0.10	9079676
Total Calcium (Ca)	mg/L	24.9	9078676	16.7	4.80	9078676	18.4	0.25	9078676
Total Magnesium (Mg)	mg/L	6.67	9078676	4.75	1.25	9078676	5.16	0.25	9078676
Total Potassium (K)	mg/L	0.91	9078676	0.99	<0.25	9078676	1.11	0.25	9078676
Total Sodium (Na)	mg/L	2.25	9078676	3.58	1.23	9078676	2.92	0.25	9078676
Total Sulphur (S)	mg/L	7.9	9078676	4.7	<3.0	9078676	9.1	3.0	9078676
RDL = Reportable Detection Limit									

Maxxam Job #: B861486
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TX9146		TX9147	TX9148		TX9149		
Sampling Date		2018/07/21 16:38		2018/07/21 17:06	2018/07/21 15:41		2018/07/21 18:35		
COC Number		559732-03-01		559732-03-01	559732-03-01		559732-03-01		
	UNITS	ML-1.0 (YT-24-1)	QC Batch	YT-24-MIX	YUK-2.0	QC Batch	YUK-5.0	RDL	QC Batch
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	123	9077955	94.8	96.6	9077955	92.2	0.50	9077955
Elements									
Total Mercury (Hg)	ug/L	0.0029	9079762	<0.0020	<0.0020	9079862	<0.0020	0.0020	9079762
Total Metals by ICPMS									
Total Aluminum (Al)	ug/L	47.1	9079676	171	254	9079676	249	3.0	9079676
Total Antimony (Sb)	ug/L	0.181	9079676	0.168	0.132	9079676	0.144	0.020	9079676
Total Arsenic (As)	ug/L	0.459	9079676	0.702	0.719	9079676	0.703	0.020	9079676
Total Barium (Ba)	ug/L	64.3	9079676	49.5	53.5	9079676	51.6	0.050	9079676
Total Beryllium (Be)	ug/L	0.015	9079676	0.013	0.012	9079676	0.017	0.010	9079676
Total Bismuth (Bi)	ug/L	<0.010	9079676	<0.010	<0.010	9079676	<0.010	0.010	9079676
Total Boron (B)	ug/L	<10	9079676	<10	<10	9079676	<10	10	9079676
Total Cadmium (Cd)	ug/L	0.0071	9079676	0.0559	0.0670	9079676	0.0694	0.0050	9079676
Total Chromium (Cr)	ug/L	0.26	9079676	0.32	0.43	9079676	0.45	0.10	9079676
Total Cobalt (Co)	ug/L	0.062	9079676	0.140	0.192	9079676	0.191	0.010	9079676
Total Copper (Cu)	ug/L	1.72	9079676	1.71	1.31	9079676	1.48	0.10	9079676
Total Iron (Fe)	ug/L	36.1	9079676	234	359	9079676	350	5.0	9079676
Total Lead (Pb)	ug/L	<0.020	9079676	0.203	0.238	9079676	0.248	0.020	9079676
Total Lithium (Li)	ug/L	0.52	9079676	1.73	1.89	9079676	1.79	0.50	9079676
Total Manganese (Mn)	ug/L	1.60	9079676	16.1	19.1	9079676	19.4	0.10	9079676
Total Molybdenum (Mo)	ug/L	0.416	9079676	1.23	1.23	9079676	1.20	0.050	9079676
Total Nickel (Ni)	ug/L	0.66	9079676	1.38	1.87	9079676	1.67	0.10	9079676
Total Phosphorus (P)	ug/L	<5.0	9079676	37.5	17.9	9079676	42.8	5.0	9079676
Total Selenium (Se)	ug/L	0.072	9079676	0.319	0.369	9079676	0.345	0.040	9079676
Total Silicon (Si)	ug/L	4060	9079676	3280	3270	9079676	3300	50	9079676
Total Silver (Ag)	ug/L	<0.010	9079676	<0.010	<0.010	9079676	<0.010	0.010	9079676
Total Strontium (Sr)	ug/L	223	9079676	125	127	9079676	121	0.050	9079676
Total Thallium (Tl)	ug/L	0.0028	9079676	0.0060	0.0056	9079676	0.0058	0.0020	9079676
Total Tin (Sn)	ug/L	<0.20	9079676	<0.20	<0.20	9079676	<0.20	0.20	9079676
Total Titanium (Ti)	ug/L	<2.0	9079676	4.4	10.8	9079676	7.6	2.0	9079676
Total Uranium (U)	ug/L	2.03	9079676	1.01	0.939	9079676	0.909	0.0050	9079676
Total Vanadium (V)	ug/L	0.25	9079676	0.69	0.95	9079676	1.00	0.20	9079676
RDL = Reportable Detection Limit									

Maxxam Job #: B861486
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TX9146		TX9147	TX9148		TX9149		
Sampling Date		2018/07/21 16:38		2018/07/21 17:06	2018/07/21 15:41		2018/07/21 18:35		
COC Number		559732-03-01		559732-03-01	559732-03-01		559732-03-01		
	UNITS	ML-1.0 (YT-24-1)	QC Batch	YT-24-MIX	YUK-2.0	QC Batch	YUK-5.0	RDL	QC Batch
Total Zinc (Zn)	ug/L	<1.0	9079676	9.6	5.8	9079676	7.8	1.0	9079676
Total Zirconium (Zr)	ug/L	0.42	9079676	<0.10	0.12	9079676	0.16	0.10	9079676
Total Calcium (Ca)	mg/L	35.0	9078676	26.3	26.7	9078676	25.6	0.25	9078676
Total Magnesium (Mg)	mg/L	8.67	9078676	7.05	7.27	9078676	6.86	0.25	9078676
Total Potassium (K)	mg/L	1.98	9078676	0.94	0.83	9078676	0.84	0.25	9078676
Total Sodium (Na)	mg/L	3.32	9078676	2.83	1.91	9078676	1.96	0.25	9078676
Total Sulphur (S)	mg/L	21.8	9078676	9.4	8.5	9078676	8.0	3.0	9078676
RDL = Reportable Detection Limit									

Maxxam Job #: B861486
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TX9150		
Sampling Date		2018/07/21 18:35		
COC Number		559732-03-01		
	UNITS	SAMPLE A	RDL	QC Batch
Calculated Parameters				
Total Hardness (CaCO3)	mg/L	96.4	0.50	9077955
Elements				
Total Mercury (Hg)	ug/L	<0.0020	0.0020	9079762
Total Metals by ICPMS				
Total Aluminum (Al)	ug/L	191	3.0	9079676
Total Antimony (Sb)	ug/L	0.137	0.020	9079676
Total Arsenic (As)	ug/L	0.677	0.020	9079676
Total Barium (Ba)	ug/L	52.2	0.050	9079676
Total Beryllium (Be)	ug/L	0.016	0.010	9079676
Total Bismuth (Bi)	ug/L	<0.010	0.010	9079676
Total Boron (B)	ug/L	<10	10	9079676
Total Cadmium (Cd)	ug/L	0.0625	0.0050	9079676
Total Chromium (Cr)	ug/L	0.42	0.10	9079676
Total Cobalt (Co)	ug/L	0.157	0.010	9079676
Total Copper (Cu)	ug/L	1.40	0.10	9079676
Total Iron (Fe)	ug/L	268	5.0	9079676
Total Lead (Pb)	ug/L	0.217	0.020	9079676
Total Lithium (Li)	ug/L	1.79	0.50	9079676
Total Manganese (Mn)	ug/L	17.4	0.10	9079676
Total Molybdenum (Mo)	ug/L	1.21	0.050	9079676
Total Nickel (Ni)	ug/L	1.51	0.10	9079676
Total Phosphorus (P)	ug/L	35.5	5.0	9079676
Total Selenium (Se)	ug/L	0.353	0.040	9079676
Total Silicon (Si)	ug/L	3260	50	9079676
Total Silver (Ag)	ug/L	<0.010	0.010	9079676
Total Strontium (Sr)	ug/L	125	0.050	9079676
Total Thallium (Tl)	ug/L	0.0042	0.0020	9079676
Total Tin (Sn)	ug/L	<0.20	0.20	9079676
Total Titanium (Ti)	ug/L	5.4	2.0	9079676
Total Uranium (U)	ug/L	0.941	0.0050	9079676
Total Vanadium (V)	ug/L	0.75	0.20	9079676
RDL = Reportable Detection Limit				

Maxxam Job #: B861486
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TX9150		
Sampling Date		2018/07/21 18:35		
COC Number		559732-03-01		
	UNITS	SAMPLE A	RDL	QC Batch
Total Zinc (Zn)	ug/L	7.0	1.0	9079676
Total Zirconium (Zr)	ug/L	<0.10	0.10	9079676
Total Calcium (Ca)	mg/L	26.8	0.25	9078676
Total Magnesium (Mg)	mg/L	7.13	0.25	9078676
Total Potassium (K)	mg/L	0.85	0.25	9078676
Total Sodium (Na)	mg/L	2.01	0.25	9078676
Total Sulphur (S)	mg/L	8.5	3.0	9078676
RDL = Reportable Detection Limit				

Maxxam Job #: B861486
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

GENERAL COMMENTS

Sample TX9054 [COFFEE MIX] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample TX9104 [HC-5.0] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample TX9108 [HALFWAY MIX] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample TX9146 [ML-1.0 (YT-24-1)] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample TX9147 [YT-24-MIX] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample TX9148 [YUK-2.0] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample TX9149 [YUK-5.0] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample TX9150 [SAMPLE A] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample TX9053, Elements by ICPMS Low Level (dissolved): Test repeated.

Sample TX9106, Elements by ICPMS Low Level (dissolved): Test repeated.

Results relate only to the items tested.

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QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9078961	Dissolved Aluminum (Al)	2018/07/25	101	80 - 120	99	80 - 120	<0.50	ug/L	2.1	20
9078961	Dissolved Antimony (Sb)	2018/07/25	102	80 - 120	100	80 - 120	<0.020	ug/L	3.7	20
9078961	Dissolved Arsenic (As)	2018/07/25	107	80 - 120	102	80 - 120	<0.020	ug/L	3.5	20
9078961	Dissolved Barium (Ba)	2018/07/25	NC	80 - 120	102	80 - 120	<0.020	ug/L	0.68	20
9078961	Dissolved Beryllium (Be)	2018/07/25	90	80 - 120	88	80 - 120	<0.010	ug/L	NC	20
9078961	Dissolved Bismuth (Bi)	2018/07/25	98	80 - 120	102	80 - 120	<0.0050	ug/L	NC	20
9078961	Dissolved Boron (B)	2018/07/25	88	80 - 120	88	80 - 120	<10	ug/L	NC	20
9078961	Dissolved Cadmium (Cd)	2018/07/25	102	80 - 120	102	80 - 120	<0.0050	ug/L	NC	20
9078961	Dissolved Chromium (Cr)	2018/07/25	100	80 - 120	102	80 - 120	<0.10	ug/L	16	20
9078961	Dissolved Cobalt (Co)	2018/07/25	96	80 - 120	101	80 - 120	<0.0050	ug/L	0.78	20
9078961	Dissolved Copper (Cu)	2018/07/25	95	80 - 120	102	80 - 120	<0.050	ug/L	0.013	20
9078961	Dissolved Iron (Fe)	2018/07/25	100	80 - 120	104	80 - 120	<1.0	ug/L	2.0	20
9078961	Dissolved Lead (Pb)	2018/07/25	103	80 - 120	104	80 - 120	<0.0050	ug/L	NC	20
9078961	Dissolved Lithium (Li)	2018/07/25	88	80 - 120	89	80 - 120	<0.50	ug/L	1.0	20
9078961	Dissolved Manganese (Mn)	2018/07/25	100	80 - 120	102	80 - 120	<0.050	ug/L	4.0	20
9078961	Dissolved Molybdenum (Mo)	2018/07/25	108	80 - 120	104	80 - 120	<0.050	ug/L	5.6	20
9078961	Dissolved Nickel (Ni)	2018/07/25	96	80 - 120	102	80 - 120	<0.020	ug/L	4.8	20
9078961	Dissolved Phosphorus (P)	2018/07/25	106	80 - 120	100	80 - 120	<2.0	ug/L	10	20
9078961	Dissolved Selenium (Se)	2018/07/25	104	80 - 120	100	80 - 120	<0.040	ug/L	0.11	20
9078961	Dissolved Silicon (Si)	2018/07/25	97	80 - 120	103	80 - 120	<50	ug/L	1.3	20
9078961	Dissolved Silver (Ag)	2018/07/25	100	80 - 120	103	80 - 120	<0.0050	ug/L	NC	20
9078961	Dissolved Strontium (Sr)	2018/07/25	NC	80 - 120	103	80 - 120	<0.050	ug/L	1.2	20
9078961	Dissolved Thallium (Tl)	2018/07/25	103	80 - 120	103	80 - 120	<0.0020	ug/L	NC	20
9078961	Dissolved Tin (Sn)	2018/07/25	101	80 - 120	102	80 - 120	<0.20	ug/L	NC	20
9078961	Dissolved Titanium (Ti)	2018/07/25	109	80 - 120	103	80 - 120	<0.50	ug/L	20	20
9078961	Dissolved Uranium (U)	2018/07/25	104	80 - 120	103	80 - 120	<0.0020	ug/L	0.20	20
9078961	Dissolved Vanadium (V)	2018/07/25	102	80 - 120	101	80 - 120	<0.20	ug/L	1.2	20
9078961	Dissolved Zinc (Zn)	2018/07/25	96	80 - 120	100	80 - 120	<0.10	ug/L	NC	20
9078961	Dissolved Zirconium (Zr)	2018/07/25	107	80 - 120	102	80 - 120	<0.10	ug/L	14	20
9079095	Nitrate plus Nitrite (N)	2018/07/25	NC	80 - 120	113	80 - 120	<0.0020	mg/L	1.7	25
9079096	Nitrite (N)	2018/07/25	99	80 - 120	102	80 - 120	<0.0020	mg/L	NC	25

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QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9079097	Nitrate plus Nitrite (N)	2018/07/25	112	80 - 120	114	80 - 120	<0.0020	mg/L	1.8	25
9079098	Nitrite (N)	2018/07/25	95	80 - 120	103	80 - 120	<0.0020	mg/L	NC	25
9079393	Dissolved Aluminum (Al)	2018/07/26	100	80 - 120	102	80 - 120	<0.50	ug/L	NC	20
9079393	Dissolved Antimony (Sb)	2018/07/26	101	80 - 120	101	80 - 120	<0.020	ug/L	NC	20
9079393	Dissolved Arsenic (As)	2018/07/26	107	80 - 120	103	80 - 120	<0.020	ug/L	NC	20
9079393	Dissolved Barium (Ba)	2018/07/26	96	80 - 120	99	80 - 120	<0.020	ug/L	NC	20
9079393	Dissolved Beryllium (Be)	2018/07/26	102	80 - 120	103	80 - 120	<0.010	ug/L	NC	20
9079393	Dissolved Bismuth (Bi)	2018/07/26	98	80 - 120	98	80 - 120	<0.0050	ug/L	NC	20
9079393	Dissolved Boron (B)	2018/07/26	100	80 - 120	100	80 - 120	<10	ug/L	NC	20
9079393	Dissolved Cadmium (Cd)	2018/07/26	100	80 - 120	100	80 - 120	<0.0050	ug/L	NC	20
9079393	Dissolved Chromium (Cr)	2018/07/26	99	80 - 120	99	80 - 120	<0.10	ug/L	NC	20
9079393	Dissolved Cobalt (Co)	2018/07/26	97	80 - 120	98	80 - 120	<0.0050	ug/L	NC	20
9079393	Dissolved Copper (Cu)	2018/07/26	95	80 - 120	97	80 - 120	<0.050	ug/L	NC	20
9079393	Dissolved Iron (Fe)	2018/07/26	102	80 - 120	102	80 - 120	<1.0	ug/L	NC	20
9079393	Dissolved Lead (Pb)	2018/07/26	102	80 - 120	101	80 - 120	<0.0050	ug/L	NC	20
9079393	Dissolved Lithium (Li)	2018/07/26	100	80 - 120	102	80 - 120	<0.50	ug/L	NC	20
9079393	Dissolved Manganese (Mn)	2018/07/26	99	80 - 120	99	80 - 120	<0.050	ug/L	NC	20
9079393	Dissolved Molybdenum (Mo)	2018/07/26	106	80 - 120	103	80 - 120	<0.050	ug/L	NC	20
9079393	Dissolved Nickel (Ni)	2018/07/26	97	80 - 120	99	80 - 120	<0.020	ug/L	NC	20
9079393	Dissolved Phosphorus (P)	2018/07/26	103	80 - 120	99	80 - 120	<2.0	ug/L	NC	20
9079393	Dissolved Selenium (Se)	2018/07/26	105	80 - 120	101	80 - 120	<0.040	ug/L	NC	20
9079393	Dissolved Silicon (Si)	2018/07/26	96	80 - 120	103	80 - 120	<50	ug/L	NC	20
9079393	Dissolved Silver (Ag)	2018/07/26	101	80 - 120	99	80 - 120	<0.0050	ug/L	NC	20
9079393	Dissolved Strontium (Sr)	2018/07/26	NC	80 - 120	101	80 - 120	<0.050	ug/L	NC	20
9079393	Dissolved Thallium (Tl)	2018/07/26	100	80 - 120	96	80 - 120	<0.0020	ug/L	NC	20
9079393	Dissolved Tin (Sn)	2018/07/26	102	80 - 120	101	80 - 120	<0.20	ug/L	NC	20
9079393	Dissolved Titanium (Ti)	2018/07/26	104	80 - 120	101	80 - 120	<0.50	ug/L	NC	20
9079393	Dissolved Uranium (U)	2018/07/26	104	80 - 120	103	80 - 120	<0.0020	ug/L	NC	20
9079393	Dissolved Vanadium (V)	2018/07/26	101	80 - 120	100	80 - 120	<0.20	ug/L	NC	20
9079393	Dissolved Zinc (Zn)	2018/07/26	96	80 - 120	97	80 - 120	<0.10	ug/L	NC	20
9079393	Dissolved Zirconium (Zr)	2018/07/26	105	80 - 120	99	80 - 120	<0.10	ug/L	NC	20

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QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9079676	Total Aluminum (Al)	2018/07/26	120	80 - 120	99	80 - 120	<3.0	ug/L	0.19	20
9079676	Total Antimony (Sb)	2018/07/26	102	80 - 120	100	80 - 120	<0.020	ug/L	0.063	20
9079676	Total Arsenic (As)	2018/07/26	106	80 - 120	103	80 - 120	<0.020	ug/L	2.2	20
9079676	Total Barium (Ba)	2018/07/26	106	80 - 120	101	80 - 120	<0.050	ug/L	1.7	20
9079676	Total Beryllium (Be)	2018/07/26	105	80 - 120	101	80 - 120	<0.010	ug/L	NC	20
9079676	Total Bismuth (Bi)	2018/07/26	102	80 - 120	100	80 - 120	<0.010	ug/L	NC	20
9079676	Total Boron (B)	2018/07/26	105	80 - 120	99	80 - 120	<10	ug/L	NC	20
9079676	Total Cadmium (Cd)	2018/07/26	103	80 - 120	101	80 - 120	<0.0050	ug/L	0.96	20
9079676	Total Chromium (Cr)	2018/07/26	102	80 - 120	100	80 - 120	<0.10	ug/L	8.5	20
9079676	Total Cobalt (Co)	2018/07/26	98	80 - 120	97	80 - 120	<0.010	ug/L	1.1	20
9079676	Total Copper (Cu)	2018/07/26	97	80 - 120	96	80 - 120	<0.10	ug/L	1.3	20
9079676	Total Iron (Fe)	2018/07/26	105	80 - 120	103	80 - 120	<5.0	ug/L	1.0	20
9079676	Total Lead (Pb)	2018/07/26	104	80 - 120	101	80 - 120	<0.020	ug/L	1.5	20
9079676	Total Lithium (Li)	2018/07/26	108	80 - 120	103	80 - 120	<0.50	ug/L	1.3	20
9079676	Total Manganese (Mn)	2018/07/26	97	80 - 120	100	80 - 120	<0.10	ug/L	0.30	20
9079676	Total Molybdenum (Mo)	2018/07/26	108	80 - 120	101	80 - 120	<0.050	ug/L	0.48	20
9079676	Total Nickel (Ni)	2018/07/26	100	80 - 120	99	80 - 120	<0.10	ug/L	6.7	20
9079676	Total Phosphorus (P)	2018/07/26	104	80 - 120	101	80 - 120	<5.0	ug/L	1.8	20
9079676	Total Selenium (Se)	2018/07/26	100	80 - 120	100	80 - 120	<0.040	ug/L	1.1	20
9079676	Total Silicon (Si)	2018/07/26	105	80 - 120	103	80 - 120	<50	ug/L	0.12	20
9079676	Total Silver (Ag)	2018/07/26	104	80 - 120	100	80 - 120	<0.010	ug/L	NC	20
9079676	Total Strontium (Sr)	2018/07/26	NC	80 - 120	101	80 - 120	<0.050	ug/L	1.9	20
9079676	Total Thallium (Tl)	2018/07/26	104	80 - 120	101	80 - 120	<0.0020	ug/L	9.7	20
9079676	Total Tin (Sn)	2018/07/26	102	80 - 120	101	80 - 120	<0.20	ug/L	NC	20
9079676	Total Titanium (Ti)	2018/07/26	116	80 - 120	102	80 - 120	<2.0	ug/L	NC	20
9079676	Total Uranium (U)	2018/07/26	103	80 - 120	98	80 - 120	<0.0050	ug/L	0.31	20
9079676	Total Vanadium (V)	2018/07/26	104	80 - 120	100	80 - 120	<0.20	ug/L	2.1	20
9079676	Total Zinc (Zn)	2018/07/26	98	80 - 120	101	80 - 120	<1.0	ug/L	1.4	20
9079676	Total Zirconium (Zr)	2018/07/26	105	80 - 120	98	80 - 120	<0.10	ug/L	NC	20
9079762	Total Mercury (Hg)	2018/07/26	97	80 - 120	98	80 - 120	<0.0020	ug/L	NC	20
9079862	Total Mercury (Hg)	2018/07/26	98	80 - 120	98	80 - 120	<0.0020	ug/L	NC	20

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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9079921	Total Mercury (Hg)	2018/07/26	100	80 - 120	98	80 - 120	<0.0020	ug/L	NC	20
9079922	Total Aluminum (Al)	2018/07/27	93	80 - 120	99	80 - 120	<0.50	ug/L	14	20
9079922	Total Antimony (Sb)	2018/07/27	97	80 - 120	100	80 - 120	<0.020	ug/L	NC	20
9079922	Total Arsenic (As)	2018/07/27	101	80 - 120	104	80 - 120	<0.020	ug/L	NC	20
9079922	Total Barium (Ba)	2018/07/27	94	80 - 120	100	80 - 120	<0.020	ug/L	NC	20
9079922	Total Beryllium (Be)	2018/07/27	101	80 - 120	104	80 - 120	<0.010	ug/L	NC	20
9079922	Total Bismuth (Bi)	2018/07/27	93	80 - 120	102	80 - 120	<0.0050	ug/L	NC	20
9079922	Total Boron (B)	2018/07/27	102	80 - 120	107	80 - 120	<10	ug/L	NC	20
9079922	Total Cadmium (Cd)	2018/07/27	99	80 - 120	101	80 - 120	<0.0050	ug/L	NC	20
9079922	Total Chromium (Cr)	2018/07/27	94	80 - 120	101	80 - 120	<0.10	ug/L	NC	20
9079922	Total Cobalt (Co)	2018/07/27	92	80 - 120	98	80 - 120	<0.0050	ug/L	NC	20
9079922	Total Copper (Cu)	2018/07/27	91	80 - 120	97	80 - 120	<0.050	ug/L	NC	20
9079922	Total Iron (Fe)	2018/07/27	89	80 - 120	101	80 - 120	<1.0	ug/L	NC	20
9079922	Total Lead (Pb)	2018/07/27	95	80 - 120	102	80 - 120	<0.0050	ug/L	NC	20
9079922	Total Lithium (Li)	2018/07/27	100	80 - 120	108	80 - 120	<0.50	ug/L	NC	20
9079922	Total Manganese (Mn)	2018/07/27	92	80 - 120	101	80 - 120	<0.050	ug/L	19	20
9079922	Total Molybdenum (Mo)	2018/07/27	97	80 - 120	97	80 - 120	<0.050	ug/L	NC	20
9079922	Total Nickel (Ni)	2018/07/27	92	80 - 120	99	80 - 120	0.029, RDL=0.020 (2)	ug/L	NC	20
9079922	Total Phosphorus (P)	2018/07/27	101	80 - 120	102	80 - 120	<2.0	ug/L	NC	20
9079922	Total Selenium (Se)	2018/07/27	97	80 - 120	99	80 - 120	<0.040	ug/L	NC	20
9079922	Total Silicon (Si)	2018/07/27	94	80 - 120	103	80 - 120	<50	ug/L	NC	20
9079922	Total Silver (Ag)	2018/07/27	95	80 - 120	100	80 - 120	<0.0050	ug/L	NC	20
9079922	Total Strontium (Sr)	2018/07/27	NC	80 - 120	102	80 - 120	<0.050	ug/L	NC	20
9079922	Total Thallium (Tl)	2018/07/27	95	80 - 120	102	80 - 120	<0.0020	ug/L	NC	20
9079922	Total Tin (Sn)	2018/07/27	96	80 - 120	99	80 - 120	<0.20	ug/L	NC	20
9079922	Total Titanium (Ti)	2018/07/27	96	80 - 120	106	80 - 120	<0.50	ug/L	6.4	20
9079922	Total Uranium (U)	2018/07/27	96	80 - 120	104	80 - 120	<0.0020	ug/L	NC	20
9079922	Total Vanadium (V)	2018/07/27	96	80 - 120	100	80 - 120	<0.20	ug/L	NC	20
9079922	Total Zinc (Zn)	2018/07/27	96	80 - 120	100	80 - 120	<0.10	ug/L	NC	20
9079922	Total Zirconium (Zr)	2018/07/27	96	80 - 120	99	80 - 120	<0.10	ug/L	NC	20

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QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9079940	Dissolved Mercury (Hg)	2018/07/26	92	80 - 120	102	80 - 120	<0.0020	ug/L	NC	20
9079943	Dissolved Mercury (Hg)	2018/07/26	96	80 - 120	106	80 - 120	<0.0020	ug/L	3.7	20
9080217	ORP	2018/07/30							0.82	20
9080225	Alkalinity (PP as CaCO3)	2018/07/26					<0.50	mg/L		
9080225	Alkalinity (Total as CaCO3)	2018/07/26	NC	80 - 120	99	80 - 120	<0.50	mg/L		
9080225	Bicarbonate (HCO3)	2018/07/26					<0.50	mg/L		
9080225	Carbonate (CO3)	2018/07/26					<0.50	mg/L		
9080225	Hydroxide (OH)	2018/07/26					<0.50	mg/L		
9080227	pH	2018/07/26			101	97 - 103			0.14	20
9080234	Conductivity	2018/07/26			100	80 - 120	<1.0	uS/cm		
9080278	pH	2018/07/27			101	97 - 103			1.3	20
9080287	Alkalinity (PP as CaCO3)	2018/07/27					<0.50	mg/L		
9080287	Alkalinity (Total as CaCO3)	2018/07/27	NC	80 - 120	100	80 - 120	0.69, RDL=0.50	mg/L		
9080287	Bicarbonate (HCO3)	2018/07/27					0.84, RDL=0.50	mg/L		
9080287	Carbonate (CO3)	2018/07/27					<0.50	mg/L		
9080287	Hydroxide (OH)	2018/07/27					<0.50	mg/L		
9080288	Conductivity	2018/07/27			100	80 - 120	1.2, RDL=1.0	uS/cm		
9080573	Total Dissolved Solids	2018/07/27	103	80 - 120	91	80 - 120	<10	mg/L	9.5	20
9080720	Total Dissolved Solids	2018/07/28	98	80 - 120	101	80 - 120	<10	mg/L	12	20
9080722	Total Dissolved Solids	2018/07/28	99	80 - 120	101	80 - 120	<10	mg/L	8.6	20
9080723	Total Dissolved Solids	2018/07/28	101	80 - 120	96	80 - 120	<10	mg/L	2.1	20
9081289	Dissolved Chloride (Cl)	2018/07/27	105	80 - 120	100	80 - 120	<0.50	mg/L	NC	20
9081290	Dissolved Sulphate (SO4)	2018/07/27	NC	80 - 120	98	80 - 120	0.52, RDL=0.50	mg/L	1.9	20
9081293	Dissolved Chloride (Cl)	2018/07/27	99	80 - 120	99	80 - 120	<0.50	mg/L	14	20
9081297	Dissolved Sulphate (SO4)	2018/07/27	NC	80 - 120	98	80 - 120	<0.50	mg/L	2.6	20
9081299	Dissolved Chloride (Cl)	2018/07/27	89	80 - 120	99	80 - 120	<0.50	mg/L	12	20
9081303	Dissolved Sulphate (SO4)	2018/07/27	102	80 - 120	98	80 - 120	<0.50	mg/L	16	20
9081440	Total Ammonia (N)	2018/07/26	115	80 - 120	103	80 - 120	<0.0050	mg/L	0	20
9081446	Total Ammonia (N)	2018/07/26			108	80 - 120	<0.0050	mg/L		
9081520	Total Aluminum (Al)	2018/07/28	111	80 - 120	105	80 - 120	<3.0	ug/L		
9081520	Total Antimony (Sb)	2018/07/28	NC	80 - 120	108	80 - 120	<0.020	ug/L		

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Site Location: COFFEE CREEK - SURFACE WATER

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9081520	Total Arsenic (As)	2018/07/28	NC	80 - 120	108	80 - 120	<0.020	ug/L	3.6	20
9081520	Total Barium (Ba)	2018/07/28	108	80 - 120	107	80 - 120	<0.050	ug/L		
9081520	Total Beryllium (Be)	2018/07/28	100	80 - 120	104	80 - 120	<0.010	ug/L		
9081520	Total Bismuth (Bi)	2018/07/28	98	80 - 120	105	80 - 120	<0.010	ug/L		
9081520	Total Boron (B)	2018/07/28	NC	80 - 120	97	80 - 120	<10	ug/L		
9081520	Total Cadmium (Cd)	2018/07/28	102	80 - 120	108	80 - 120	<0.0050	ug/L		
9081520	Total Chromium (Cr)	2018/07/28	103	80 - 120	105	80 - 120	<0.10	ug/L		
9081520	Total Cobalt (Co)	2018/07/28	99	80 - 120	105	80 - 120	<0.010	ug/L		
9081520	Total Copper (Cu)	2018/07/28	93	80 - 120	104	80 - 120	<0.10	ug/L		
9081520	Total Iron (Fe)	2018/07/28	NC	80 - 120	109	80 - 120	<5.0	ug/L	3.4	20
9081520	Total Lead (Pb)	2018/07/28	107	80 - 120	109	80 - 120	<0.020	ug/L		
9081520	Total Lithium (Li)	2018/07/28	101	80 - 120	102	80 - 120	<0.50	ug/L		
9081520	Total Manganese (Mn)	2018/07/28	NC	80 - 120	104	80 - 120	<0.10	ug/L		
9081520	Total Molybdenum (Mo)	2018/07/28	121 (1)	80 - 120	110	80 - 120	<0.050	ug/L		
9081520	Total Nickel (Ni)	2018/07/28	96	80 - 120	105	80 - 120	<0.10	ug/L		
9081520	Total Phosphorus (P)	2018/07/28	111	80 - 120	106	80 - 120	<5.0	ug/L		
9081520	Total Selenium (Se)	2018/07/28	110	80 - 120	105	80 - 120	<0.040	ug/L		
9081520	Total Silicon (Si)	2018/07/28	NC	80 - 120	105	80 - 120	<50	ug/L		
9081520	Total Silver (Ag)	2018/07/28	100	80 - 120	103	80 - 120	<0.010	ug/L		
9081520	Total Strontium (Sr)	2018/07/28	NC	80 - 120	105	80 - 120	<0.050	ug/L		
9081520	Total Thallium (Tl)	2018/07/28	101	80 - 120	100	80 - 120	<0.0020	ug/L		
9081520	Total Tin (Sn)	2018/07/28	107	80 - 120	108	80 - 120	<0.20	ug/L		
9081520	Total Titanium (Ti)	2018/07/28	109	80 - 120	102	80 - 120	<2.0	ug/L		
9081520	Total Uranium (U)	2018/07/28	114	80 - 120	111	80 - 120	<0.0050	ug/L		
9081520	Total Vanadium (V)	2018/07/28	107	80 - 120	107	80 - 120	<0.20	ug/L		
9081520	Total Zinc (Zn)	2018/07/28	93	80 - 120	106	80 - 120	<1.0	ug/L		
9081520	Total Zirconium (Zr)	2018/07/28	115	80 - 120	104	80 - 120	<0.10	ug/L		
9081538	Fluoride (F)	2018/07/27	90	80 - 120	98	80 - 120	<0.010	mg/L	0	20
9081541	Fluoride (F)	2018/07/27	92	80 - 120	96	80 - 120	<0.010	mg/L	NC	20
9081703	Total Organic Carbon (C)	2018/07/27	107	80 - 120	116	80 - 120	<0.50	mg/L	12	20
9081709	Dissolved Organic Carbon (C)	2018/07/27	112	80 - 120	115	80 - 120	<0.50	mg/L	2.5	20

Maxxam Job #: B861486
Report Date: 2018/08/01

QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9081779	Alkalinity (PP as CaCO3)	2018/07/27					<0.50	mg/L	NC	20
9081779	Alkalinity (Total as CaCO3)	2018/07/27	100	80 - 120	93	80 - 120	<0.50	mg/L	NC	20
9081779	Bicarbonate (HCO3)	2018/07/27					<0.50	mg/L	NC	20
9081779	Carbonate (CO3)	2018/07/27					<0.50	mg/L	NC	20
9081779	Hydroxide (OH)	2018/07/27					<0.50	mg/L	NC	20
9081808	pH	2018/07/27			102	97 - 103			1.4	20
9081809	Conductivity	2018/07/27			99	80 - 120	<1.0	uS/cm	0	20
9081847	pH	2018/07/28			101	97 - 103				
9081853	Alkalinity (PP as CaCO3)	2018/07/28					<0.50	mg/L		
9081853	Alkalinity (Total as CaCO3)	2018/07/28			95	80 - 120	<0.50	mg/L		
9081853	Bicarbonate (HCO3)	2018/07/28					<0.50	mg/L		
9081853	Carbonate (CO3)	2018/07/28					<0.50	mg/L		
9081853	Hydroxide (OH)	2018/07/28					<0.50	mg/L		
9081854	Conductivity	2018/07/28			100	80 - 120	1.1, RDL=1.0	uS/cm		
9082404	Dissolved Sulphate (SO4)	2018/07/27			104	80 - 120	<0.50	mg/L		
9082474	Total Suspended Solids	2018/07/30			103	80 - 120	<1.0	mg/L		
9082476	Total Suspended Solids	2018/07/30			102	80 - 120	<1.0	mg/L		
9084644	Dissolved Zinc (Zn)	2018/07/30			98	80 - 120	<0.10	ug/L		
9084893	Dissolved Mercury (Hg)	2018/07/31	95	80 - 120	100	80 - 120	<0.0020	ug/L	NC	20
9084971	Total Mercury (Hg)	2018/07/31	101	80 - 120	107	80 - 120	<0.0020	ug/L	NC	20
9084974	Total Organic Carbon (C)	2018/07/31	NC	80 - 120	110	80 - 120	<0.50	mg/L	3.9	20
9085201	Dissolved Organic Carbon (C)	2018/07/31	NC	80 - 120	105	80 - 120	<0.50	mg/L	4.7	20
9085574	Free Cyanide	2018/07/27	106	80 - 120	103	80 - 120	<0.0010	mg/L	NC	20
9085576	Free Cyanide	2018/07/30	98	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20

Maxxam Job #: B861486
Report Date: 2018/08/01

QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9085909	Dissolved Copper (Cu)	2018/07/31			92	80 - 120	<0.050	ug/L		

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

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

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

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

(2) Method blank exceeds acceptance limits for Ni- 2X RDL acceptable for low level metals determination.

Maxxam Job #: B861486
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

VALIDATION SIGNATURE PAGE

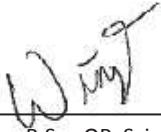
The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Cristina Carriere, Scientific Services



Rob Reinert, B.Sc., Scientific Specialist



Winnie Au, B.Sc., QP, Scientific Specialist

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INVOICE TO:		Report Information		Project Information	
Company Name	#3604 LORAX ENVIRONMENTAL SERVICES LTD.	Company Name	David Flather	Quotation #	B40231
Contact Name	Aida Piaseczny	Contact Name	David Flather	P.O. #	
Address	2289 BARRARD STREET VANCOUVER BC V6J 3H9	Address		Project #	Gold Corp Coffee Creek-SW
Phone	(604) 688-7173 Fax (604) 688-7175	Phone		Project Name	
Email	aida.piaseczny@lorax.ca; shukling.ng@lorax.ca	Email	David.Flather@lorax.ca	Site #	
			Sampled By		



B861486_COC

Bottle Order #: 559732
 Project Manager: Diana Cruz

Regulatory Criteria	Special Instructions	Analysis Requested										Turnaround Time (TAT) Required		
<p>Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form</p> <p>Samples must be kept cool (< 10°C) from time of sampling until delivery to maxxam</p>		Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	Routine (Alk-L, EC-LL, NH4-L, pH, TDS)	TSS-Low Level	Anions (LL Cl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	<p>Regular (Standard) TAT (will be applied if Rush TAT is not specified) <input checked="" type="checkbox"/></p> <p>Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.</p> <p>Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____ <input type="checkbox"/></p> <p>Rush Confirmation Number: _____ (call lab for #)</p>	

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	Routine (Alk-L, EC-LL, NH4-L, pH, TDS)	TSS-Low Level	Anions (LL Cl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	# of Bottles	Comments
1	CC-0.5			SW													RECEIVED IN WHITEHORSE
2	CC-1.0	22/07/18	16:12	SW	N	N	/	/	/	/	/	/	/	/	/	13	BY: <u>shukling@0900</u>
3	CC-1.5	22/07/18	16:35	SW	N	N	/	/	/	/	/	/	/	/	/	13	2018-07-24 13 13 12
4	CC-3.5			SW			/	/	/	/	/	/	/	/	/		TEMP: 13 / 13 / 13
5	CC-4.5			SW			/	/	/	/	/	/	/	/	/		13 12 10
6	CC-6.0	22/07/18	17:41	SW	N	N	/	/	/	/	/	/	/	/	/	13	12 11 12
7	CC-A	22/07/18	17:57	SW	N	N	/	/	/	/	/	/	/	/	/	13	10 11 11
8	CC-B			SW			/	/	/	/	/	/	/	/	/		corrosion media present - flawed
9	CC-X			SW			/	/	/	/	/	/	/	/	/		
10	Coffee Mix	21/07/18	15:40	SW	N	N	/	/	/	/	/	/	/	/	/	13	

RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# Jars used and not submitted	Time Negative	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
<u>Mitch Nordin</u>	18/07/23	13:00	<u>David Flather</u>	2018/07/25	16:40	11	<input checked="" type="checkbox"/>	see ACU	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS

White: Maxxam Yellow: Client

1548



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 4606 Canada Way, Burnaby, British Columbia Canada V5G 1K5 Tel:(804) 734 7276 Toll-free:800-563-6266 Fax:(804) 731 2386 www.maxxam.ca

INVOICE TO:

Company Name: #3604 LORAX ENVIRONMENTAL SERVICES LTD.
 Contact Name: Aida Piaseczny
 Address: 2289 BARRARD STREET
 VANCOUVER BC V6J 3H9
 Phone: (604) 688-7173 Fax: (604) 688-7175
 Email: aida.piaseczny@lorax.ca; shukling.ng@lorax.ca

Report Information

Company Name: David Flather
 Contact Name: David Flather
 Address: _____
 Phone: _____ Fax: _____
 Email: David.Flather@lorax.ca

Project Information

Quotation #: B40231
 P.O. #: _____
 Project #: Gold Corp Coffee Creek-SW
 Project Name: _____
 Site #: _____
 Sampled By: _____



B861486_COC

Bottle Order #: 559732
 Project Manager: Diana Cruz

Regulatory Criteria

Special Instructions

Analysis Requested

Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	Routine (Alk-LI, EC-LI, NH4-LI, pH, TDS)	TSS-Low Level	Anions (LI, Cl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP
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Turnaround Time (TAT) Required

Please provide advance notice for rush projects

Regular (Standard) TAT
 (will be applied if Rush TAT is not specified)
 Standard TAT = 5-7 Working days for most tests
 Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
 Date Required: _____ Time Required: _____
 Rush Confirmation Number: _____ (call lab for #)

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 10°C) from time of sampling until delivery to maxxam

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	Routine (Alk-LI, EC-LI, NH4-LI, pH, TDS)	TSS-Low Level	Anions (LI, Cl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	# of Bottles	Comments
SID#145899	HC-2.5	22/07/18	14:25	SW	N	N	/	/	/	/	/	/	/	/	/	13	RECEIVED IN WHITEHORSE BY: <i>Syomo@0900</i>
SID#208506	HC-5.0	21/07/18	17:38	SW	N	N	/	/	/	/	/	/	/	/	/	13	
SID#214039	HC-A	22/07/18	15:45	SW	N	N	/	/	/	/	/	/	/	/	/	13	2018-07-24
SID#214040	HC-B	22/07/18	15:30	SW	N	N	/	/	/	/	/	/	/	/	/	13	TEMP: 13 / 13 / 12
SID#214041	HC-C	22/07/18	15:09	SW	N	N	/	/	/	/	/	/	/	/	/	13	13 13 13
SID#214042	Halfway Mix	21/07/18	18:07	SW	N	N	/	/	/	/	/	/	/	/	/	13	13 12 10
SID#214043	IC-0.5	22/07/18	9:29	SW	N	N	/	/	/	/	/	/	/	/	/	13	12 11 12
SID#214044	IC-1.5	22/07/18	9:08	SW	N	N	/	/	/	/	/	/	/	/	/	13	10 11 11
SID#214045	IC-2.5	22/07/18	10:01	SW	N	N	/	/	/	/	/	/	/	/	/	13	cooling media present - thawed
SID#214046	IC-3.0	22/07/18	11:35	SW	N	N	/	/	/	/	/	/	/	/	/	13	

RELINQUISHED BY: (Signature/Print) <i>Mitch Nordin</i>	Date: (YY/MM/DD) 18/07/23	Time: 13:00	RECEIVED BY: (Signature/Print) <i>Ken [Signature]</i>	Date: (YY/MM/DD) 20/07/25	Time: 10:40	# Jars used and not submitted: 0/1	Lab Use Only
						Time Sensitive: <input checked="" type="checkbox"/>	Temperature (°C) on Receipt: 22 AC 12
							Custody Seal Intact on Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.
 IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.



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INVOICE TO:		Report Information		Project Information	
Company Name	#3604 LORAX ENVIRONMENTAL SERVICES LTD.	Company Name	David Flather	Quotation #	B40231
Contact Name	Aida Piaseczny	Contact Name	David Flather	P.O. #	
Address	2289 BURRARD STREET VANCOUVER BC V6J 3H9	Address		Project #	Gold Corp Coffee Creek-SW
Phone	(604) 688-7173 Fax: (604) 688-7175	Phone		Project Name	
Email	aida.piaseczny@lorax.ca; shukling.ng@lorax.ca	Email	David.Flather@lorax.ca	Site #	
				Sampled By	



B861486_COC

Bottle Order #: 559732
 Project Manager: Diana Cruz

Regulatory Criteria	Special Instructions	Analysis Requested										Turnaround Time (TAT) Required		
<p>Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form</p> <p>Samples must be kept cool (< 10°C) from time of sampling until delivery to maxxam</p>		Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	Routine (Alk-LL, EC-LL, NH4-LL, pH, TDS)	TSS-Low Level	Anions (LL-Cl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	<p>Please provide advance notice for rush projects</p> <p>Regular (Standard) TAT (will be applied if Rush TAT is not specified) <input checked="" type="checkbox"/></p> <p>Standard TAT = 5-7 Working days for most tests Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.</p> <p>Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____ <input type="checkbox"/></p> <p>Rush Confirmation Number: _____ (call lab for #)</p>	

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	Routine (Alk-LL, EC-LL, NH4-LL, pH, TDS)	TSS-Low Level	Anions (LL-Cl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	# of Bottles	Comments
SID#214047	IC-4.5	22/07/18	13:00	SW	N	N	/	/	/	/	/	/	/	/	/	13	RECEIVED IN WHITEHORSE
SID#214048	Latte Mix			SW			/	/	/	/	/	/	/	/	/		BY: <i>Syonda@0900</i>
SID#214049	ML-1.0 (YT-24-1)	21/07/18	16:38	SW	N	N	/	/	/	/	/	/	/	/	/	13	2018-07-24
SID#214050	ML-A			SW			/	/	/	/	/	/	/	/	/		TEMP: 13, 13, 12
SID#214051	ML-B			SW			/	/	/	/	/	/	/	/	/		13, 13, 13
SID#214052	ML-C (YT-24-2)			SW			/	/	/	/	/	/	/	/	/		13, 12, 10
SID#214053	YT-24-Mix	21/07/18	17:06	SW	N	N	/	/	/	/	/	/	/	/	/	13	12, 11, 12
SID#214054	YUK-2.0	21/07/18	15:41	SW	N	N	/	/	/	/	/	/	/	/	/	13	10, 11, 11
SID#214055	YUK-5.0	21/07/18	18:35	SW	N	N	/	/	/	/	/	/	/	/	/	13	cooling media present - thawed
SID#214056	Sample A	21/07/18	18:35	SW	N	N	/	/	/	/	/	/	/	/	/	13	

RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# Jars used and not submitted	Lab Use Only	
<i>MITCH NORDIN</i>	18/07/23	13:00	<i>KEVIN CRUZ</i>	20/07/18	10:40	14	Time Sensitive <input checked="" type="checkbox"/>	Temperature (°C) on Receipt: 8.8 AGR
							Custody Seal Intact on Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.
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 4806 Canada Way, Burnaby, British Columbia Canada V5G 1K5 Tel: (604) 734 7276 Toll-free: 800-563-6266 Fax: (604) 731 2386 www.maxxam.ca

INVOICE TO: Company Name: #3604 LORAX ENVIRONMENTAL SERVICES LTD. Contact Name: Aida Piaseczny Address: 2289 BURRARD STREET VANCOUVER BC V6J 3H9 Phone: (604) 688-7173 Fax: (604) 688-7175 Email: aida.piaseczny@lorax.ca; shukling.ng@lorax.ca		Report Information Company Name: _____ Contact Name: David Flather Address: _____ Phone: _____ Fax: _____ Email: David.Flather@lorax.ca		Project Information Quotation #: B40231 P.O.#: _____ Project #: Gold Corp Coffee Creek-SW Project Name: _____ Site #: _____ Sampled By: _____		 8861486_COC C#559732-04-01	Mr #: 50732 Project Manager Diana Cruz
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Regulatory Criteria	Special Instructions	Analysis Requested											Turnaround Time (TAT) Required	
		Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	Routine (Alk-LI, EC-LI, NH4-LI, pH, TDS)	TSS-Low Level	Anions (LLCI, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	Please provide advance notice for rush projects Regular (Standard) TAT (will be applied if Rush TAT is not specified) Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details. Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____ Rush Confirmation Number: _____ (call us for #)	

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 15°C) from time of sampling until delivery to maxxam

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	Routine (Alk-LI, EC-LI, NH4-LI, pH, TDS)	TSS-Low Level	Anions (LLCI, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	# of Bottles	Comments
SID#214057	Sample B	23/07/18	16:12	SW	N	N	/	/	/	/	/	/	/	/	/	13	RECEIVED IN WHITEHORSE BY: <i>Syano@0900</i> 2018-07-24 TEMP: 13 / 13 / 12 13 13 13 13 12 10 12 11 12 10 11 11 cooling media present - thawed
SID#214058	Sample C			SW			/	/	/	/	/	/	/	/			
SID#214059	Field Blank	23/07/18	8:30	SW	N	N	/	/	/	/	/	/	/	/	/	13	
SID#214060	Travel Blank	23/07/18	8:30	SW	N	N	/	/	/	/	/	/	/	/	/	13	
SID#214061				SW			/	/	/	/	/	/	/	/	/		
							/	/	/	/	/	/	/	/	/		
							/	/	/	/	/	/	/	/	/		
							/	/	/	/	/	/	/	/	/		
							/	/	/	/	/	/	/	/	/		
							/	/	/	/	/	/	/	/	/		

RELINQUISHED BY: (Signature/Print) <i>Mitch Norbin</i>	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print) <i>David Flather</i>	Date: (YY/MM/DD) 2018/07/23	Time 10:40	# jars used and not submitted 11	Time Sensitive <input checked="" type="checkbox"/>	Temperature (°C) on Receipt 8°C ACU	Custody Seal Intact on Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.
 * IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

White: Maxxam Yellow: Client

Your Project #: Gold Corp Coffee Creek-SW
 Site Location: COFFEE CREEK - SURFACE WATER
 Your C.O.C. #: 560074-01-01, 560074-02-01

Attention: David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
 2289 BURRARD STREET
 VANCOUVER, BC
 CANADA V6J 3H9

Report Date: 2018/08/01
 Report #: R2597924
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B861510

Received: 2018/07/24, 09:00

Sample Matrix: Water
 # Samples Received: 8

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity - Low Level	7	N/A	2018/07/27	BBY6SOP-00026	SM 22 2320 B m
Alkalinity - Low Level	1	N/A	2018/07/28	BBY6SOP-00026	SM 22 2320 B m
Chloride - Low Level	8	N/A	2018/07/27	BBY6SOP-00011	SM 22 4500-Cl- E m
Carbon (DOC) (1, 3)	8	N/A	2018/07/31	EENVSOP-00060	MMCW 119 1996 m
Conductance - Low Level	7	N/A	2018/07/27	BBY6SOP-00026	SM 22 2510 B m
Conductance - Low Level	1	N/A	2018/07/28	BBY6SOP-00026	SM 22 2510 B m
Fluoride - Low Level	8	N/A	2018/07/27	BBY6SOP-00048	SM 22 4500-F C m
Hardness Total (calculated as CaCO3) (4)	5	N/A	2018/07/27	BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO3) (4)	3	N/A	2018/07/30	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3)	8	N/A	2018/07/26	BBY WI-00033	Auto Calc
Mercury (Dissolved) by CVAF	2	N/A	2018/07/26	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Dissolved) by CVAF	6	N/A	2018/07/27	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Total) by CVAF	8	2018/07/26	2018/07/26	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	8	N/A	2018/07/26	BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (dissolved)	8	N/A	2018/07/26	BBY7SOP-00002	EPA 6020b R2 m
Elements by ICPMS Digested LL (total)	3	2018/07/26	2018/07/28	BBY7SOP-00003,	EPA 6020b R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total)	5	N/A	2018/07/27	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (total)	3	N/A	2018/07/30	BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (total)	4	N/A	2018/07/26	BBY7SOP-00002	EPA 6020b R2 m
Elements by ICPMS Low Level (total)	1	N/A	2018/07/30	BBY7SOP-00002	EPA 6020b R2 m
Ammonia-N Low Level (Preserved)	8	N/A	2018/07/26	BBY6SOP-00009	EPA 350.1 m
Nitrate+Nitrite (N) (low level)	7	N/A	2018/07/25	BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrate+Nitrite (N) (low level)	1	N/A	2018/07/26	BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrite (N) (low level)	8	N/A	2018/07/25	BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrogen - Nitrate (as N) Low Level Calc	8	N/A	2018/07/26	BBY WI-00033	Auto Calc
ORP Analysis on Water by ARD LAB	8	N/A	2018/07/26	BBY0SOP-00004	SM 22 2580 B
Filter and HNO3 Preserve for Metals	8	N/A	2018/07/25	BBY7 WI-00004	BCMOE Reqs 08/14
pH Water (5)	7	N/A	2018/07/27	BBY6SOP-00026	SM 22 4500-H+ B m
pH Water (5)	1	N/A	2018/07/28	BBY6SOP-00026	SM 22 4500-H+ B m
Sulphate - Low Level	8	N/A	2018/07/27	BBY6SOP-00017	SM 22 4500-SO42- E m

Your Project #: Gold Corp Coffee Creek-SW
 Site Location: COFFEE CREEK - SURFACE WATER
 Your C.O.C. #: 560074-01-01, 560074-02-01

Attention: David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
 2289 BURRARD STREET
 VANCOUVER, BC
 CANADA V6J 3H9

Report Date: 2018/08/01
 Report #: R2597924
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B861510

Received: 2018/07/24, 09:00

Sample Matrix: Water
 # Samples Received: 8

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Total Dissolved Solids (Filt. Residue)	5	2018/07/27	2018/07/28	BBY6SOP-00033	SM 22 2540 C m
Total Dissolved Solids (Filt. Residue)	3	2018/07/28	2018/07/31	BBY6SOP-00033	SM 22 2540 C m
Carbon (Total Organic) (1, 6)	8	N/A	2018/07/31	EENSOP-00060	MMCW 119 1996 m
Total Suspended Solids-Low Level	8	2018/07/28	2018/07/30	BBY6SOP-00034	SM 22 2540 D
Free (WAD) Cyanide (2)	7	N/A	2018/07/27	CAM SOP-00457	OMOE E3015 5 m
Free (WAD) Cyanide (2)	1	N/A	2018/07/30	CAM SOP-00457	OMOE E3015 5 m

Remarks:

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Maxxam's profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Maxxam in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected.

Maxxam Analytics' liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Maxxam has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Maxxam, unless otherwise agreed in writing.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

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

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Your C.O.C. #: 560074-01-01, 560074-02-01

Attention: David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
2289 BURRARD STREET
VANCOUVER, BC
CANADA V6J 3H9

Report Date: 2018/08/01
Report #: R2597924
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B861510

Received: 2018/07/24, 09:00

- (1) This test was performed by Maxxam Edmonton Environmental
- (2) This test was performed by Maxxam Ontario (From Burnaby)
- (3) DOC present in the sample should be considered as non-purgeable DOC. Dissolved > Total Imbalance: Whenever applicable, Dissolved >Total for any parameter that falls within method uncertainty for duplicates is likely equivalent. If RPD is >20% samples were reanalyzed and confirmed.
- (4) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).
- (5) The BC-MOE and APHA Standard Method require pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the BC-MOE/APHA Standard Method holding time.
- (6) TOC present in the sample should be considered as non-purgeable TOC.

Encryption Key



Maxxam
01 Aug 2018 10:30:23

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Diana Cruz, Project Manager
Email: DCruz@maxxam.ca
Phone# (604) 734 7276

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This report has been generated and distributed using a secure automated process.
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Job #: B861510
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TX9302			TX9302			TX9303		
Sampling Date		2018/07/22 16:35			2018/07/22 16:35			2018/07/22 14:25		
COC Number		560074-01-01			560074-01-01			560074-01-01		
	UNITS	CC-1.5	RDL	QC Batch	CC-1.5 Lab-Dup	RDL	QC Batch	HC-2.5	RDL	QC Batch
Parameter										
ORP	mV	261		9080222	261		9080222	317		9080222
Calculated Parameters										
Filter and HNO3 Preservation	N/A	LAB		9077640				LAB		9077640
Nitrate (N)	mg/L	0.227	0.0020	9078683				0.435	0.0020	9078683
Misc. Inorganics										
Fluoride (F)	mg/L	0.053	0.010	9081541				0.059	0.010	9081683
Free Cyanide	mg/L	<0.0010	0.0010	9085574				<0.0010	0.0010	9085574
Dissolved Organic Carbon (C)	mg/L	9.7	0.50	9085201				9.9	0.50	9085201
Alkalinity (Total as CaCO3)	mg/L	61.5	0.50	9081779				66.4	0.50	9081853
Total Organic Carbon (C)	mg/L	10	0.50	9084974				10	0.50	9084974
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	9081779				<0.50	0.50	9081853
Bicarbonate (HCO3)	mg/L	75.0	0.50	9081779				81.0	0.50	9081853
Carbonate (CO3)	mg/L	<0.50	0.50	9081779				<0.50	0.50	9081853
Hydroxide (OH)	mg/L	<0.50	0.50	9081779				<0.50	0.50	9081853
Anions										
Dissolved Sulphate (SO4)	mg/L	60.2	0.50	9081297	61.8	0.50	9081297	32.2	0.50	9081303
Dissolved Chloride (Cl)	mg/L	0.80	0.50	9081293	0.92	0.50	9081293	0.92	0.50	9081299
Nutrients										
Total Ammonia (N)	mg/L	0.014	0.0050	9081446				<0.0050	0.0050	9081446
Nitrate plus Nitrite (N)	mg/L	0.227	0.0020	9079097				0.435	0.0020	9079097
Nitrite (N)	mg/L	<0.0020	0.0020	9079098				<0.0020	0.0020	9079098
Physical Properties										
Conductivity	uS/cm	245	1.0	9081809				202	1.0	9081854
pH	pH	7.89		9081808				7.88		9081847
Physical Properties										
Total Suspended Solids	mg/L	2.3	1.0	9082476				<1.1 (1)	1.1	9082476
Total Dissolved Solids	mg/L	172	10	9080723				158	10	9080723
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate (1) RDL raised due to limited initial sample amount.										

Maxxam Job #: B861510
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TX9304		TX9305	TX9306		TX9307		
Sampling Date		2018/07/21 17:38		2018/07/21 16:38	2018/07/21 17:06		2018/07/21 15:40		
COC Number		560074-01-01		560074-01-01	560074-01-01		560074-01-01		
	UNITS	HC-5.0	QC Batch	YT-24	YT-24 MIX	QC Batch	COFFEE MIX	RDL	QC Batch
Parameter									
ORP	mV	293	9080222	285	288	9080222	304		9080222
Calculated Parameters									
Filter and HNO3 Preservation	N/A	LAB	9077640	LAB	LAB	9077640	LAB		9077640
Nitrate (N)	mg/L	0.307	9078683	0.872	<0.0020	9078683	0.0079	0.0020	9078683
Misc. Inorganics									
Fluoride (F)	mg/L	0.072	9081683	0.074	0.110	9081683	0.120	0.010	9081683
Free Cyanide	mg/L	<0.0010	9085574	<0.0010	<0.0010	9085574	<0.0010	0.0010	9085574
Dissolved Organic Carbon (C)	mg/L	11	9085201	11	2.6	9085201	2.3	0.50	9085201
Alkalinity (Total as CaCO3)	mg/L	69.3	9081779	61.4	70.5	9081779	68.4	0.50	9081779
Total Organic Carbon (C)	mg/L	11	9084974	11	3.4	9084974	3.1	0.50	9084974
Alkalinity (PP as CaCO3)	mg/L	<0.50	9081779	<0.50	<0.50	9081779	<0.50	0.50	9081779
Bicarbonate (HCO3)	mg/L	84.6	9081779	74.9	86.0	9081779	83.4	0.50	9081779
Carbonate (CO3)	mg/L	<0.50	9081779	<0.50	<0.50	9081779	<0.50	0.50	9081779
Hydroxide (OH)	mg/L	<0.50	9081779	<0.50	<0.50	9081779	<0.50	0.50	9081779
Anions									
Dissolved Sulphate (SO4)	mg/L	37.0	9081303	71.6	23.4	9081303	23.4	0.50	9081303
Dissolved Chloride (Cl)	mg/L	1.5	9081299	1.7	1.0	9081299	1.9	0.50	9081299
Nutrients									
Total Ammonia (N)	mg/L	<0.0050	9081446	0.019	<0.0050	9081446	<0.0050	0.0050	9081446
Nitrate plus Nitrite (N)	mg/L	0.307	9079097	0.872	<0.0020	9079097	0.0099	0.0020	9080494
Nitrite (N)	mg/L	<0.0020	9079098	<0.0020	<0.0020	9079098	0.0020	0.0020	9079098
Physical Properties									
Conductivity	uS/cm	217	9081809	270	186	9081809	184	1.0	9081809
pH	pH	7.92	9081808	7.85	7.95	9081808	7.96		9081808
Physical Properties									
Total Suspended Solids	mg/L	<1.0	9082474	2.1	9.7	9082474	12.9	1.0	9082474
Total Dissolved Solids	mg/L	152	9080723	184	104	9082969	106	10	9082969
RDL = Reportable Detection Limit									

Maxxam Job #: B861510
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TX9308		TX9309			TX9309		
Sampling Date		2018/07/21 18:07		2018/07/23 08:30			2018/07/23 08:30		
COC Number		560074-01-01		560074-02-01			560074-02-01		
	UNITS	HALFWAY MIX	QC Batch	FIELD BLANK	RDL	QC Batch	FIELD BLANK Lab-Dup	RDL	QC Batch
Parameter									
ORP	mV	298	9080222	364		9080222			
Calculated Parameters									
Filter and HNO3 Preservation	N/A	LAB	9077640	LAB		9077640			
Nitrate (N)	mg/L	0.0144	9078683	<0.0020	0.0020	9078683			
Misc. Inorganics									
Fluoride (F)	mg/L	0.110	9081683	<0.010	0.010	9081683			
Free Cyanide	mg/L	<0.0010	9085575	<0.0010	0.0010	9085574			
Dissolved Organic Carbon (C)	mg/L	3.2	9085201	<0.50	0.50	9085201			
Alkalinity (Total as CaCO3)	mg/L	72.5	9080287	<0.50	0.50	9081779	<0.50	0.50	9081779
Total Organic Carbon (C)	mg/L	2.7	9084974	<0.50	0.50	9084974			
Alkalinity (PP as CaCO3)	mg/L	<0.50	9080287	<0.50	0.50	9081779	<0.50	0.50	9081779
Bicarbonate (HCO3)	mg/L	88.5	9080287	<0.50	0.50	9081779	<0.50	0.50	9081779
Carbonate (CO3)	mg/L	<0.50	9080287	<0.50	0.50	9081779	<0.50	0.50	9081779
Hydroxide (OH)	mg/L	<0.50	9080287	<0.50	0.50	9081779	<0.50	0.50	9081779
Anions									
Dissolved Sulphate (SO4)	mg/L	24.6	9081297	<0.50	0.50	9081303			
Dissolved Chloride (Cl)	mg/L	0.85	9081293	<0.50	0.50	9081299			
Nutrients									
Total Ammonia (N)	mg/L	0.010	9081446	<0.0050	0.0050	9081446			
Nitrate plus Nitrite (N)	mg/L	0.0144	9079095	<0.0020	0.0020	9079097			
Nitrite (N)	mg/L	<0.0020	9079096	<0.0020	0.0020	9079098			
Physical Properties									
Conductivity	uS/cm	190	9080288	1.2	1.0	9081809	1.2	1.0	9081809
pH	pH	7.87	9080278	5.08		9081808	5.01		9081808
Physical Properties									
Total Suspended Solids	mg/L	6.3	9082474	<1.0	1.0	9082476			
Total Dissolved Solids	mg/L	124	9080722	<10	10	9080723			
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B861510
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TX9302			TX9302			TX9303		
Sampling Date		2018/07/22 16:35			2018/07/22 16:35			2018/07/22 14:25		
COC Number		560074-01-01			560074-01-01			560074-01-01		
	UNITS	CC-1.5	RDL	QC Batch	CC-1.5 Lab-Dup	RDL	QC Batch	HC-2.5	RDL	QC Batch

Calculated Parameters

Dissolved Hardness (CaCO3)	mg/L	115	0.50	9078181				94.1	0.50	9078181
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Elements

Dissolved Mercury (Hg)	ug/L	0.0050	0.0020	9079943				0.0038	0.0020	9079943
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Dissolved Metals by ICPMS

Dissolved Aluminum (Al)	ug/L	93.1	0.50	9078975	93.0	0.50	9078975	78.0	0.50	9078975
Dissolved Antimony (Sb)	ug/L	0.106	0.020	9078975	0.107	0.020	9078975	0.421	0.020	9078975
Dissolved Arsenic (As)	ug/L	0.541	0.020	9078975	0.513	0.020	9078975	0.882	0.020	9078975
Dissolved Barium (Ba)	ug/L	34.6	0.020	9078975	34.5	0.020	9078975	36.2	0.020	9078975
Dissolved Beryllium (Be)	ug/L	0.020	0.010	9078975	0.021	0.010	9078975	0.016	0.010	9078975
Dissolved Bismuth (Bi)	ug/L	<0.0050	0.0050	9078975	<0.0050	0.0050	9078975	<0.0050	0.0050	9078975
Dissolved Boron (B)	ug/L	<10	10	9078975	<10	10	9078975	<10	10	9078975
Dissolved Cadmium (Cd)	ug/L	0.0073	0.0050	9078975	0.0070	0.0050	9078975	0.0074	0.0050	9078975
Dissolved Chromium (Cr)	ug/L	0.35	0.10	9078975	0.32	0.10	9078975	0.34	0.10	9078975
Dissolved Cobalt (Co)	ug/L	0.0438	0.0050	9078975	0.0441	0.0050	9078975	0.0514	0.0050	9078975
Dissolved Copper (Cu)	ug/L	1.59	0.050	9078975	1.61	0.050	9078975	1.42	0.050	9078975
Dissolved Iron (Fe)	ug/L	51.2	1.0	9078975	51.4	1.0	9078975	45.6	1.0	9078975
Dissolved Lead (Pb)	ug/L	<0.0050	0.0050	9078975	<0.0050	0.0050	9078975	<0.0050	0.0050	9078975
Dissolved Lithium (Li)	ug/L	1.67	0.50	9078975	1.63	0.50	9078975	1.24	0.50	9078975
Dissolved Manganese (Mn)	ug/L	4.08	0.050	9078975	4.04	0.050	9078975	1.96	0.050	9078975
Dissolved Molybdenum (Mo)	ug/L	0.154	0.050	9078975	0.161	0.050	9078975	1.29	0.050	9078975
Dissolved Nickel (Ni)	ug/L	0.581	0.020	9078975	0.523	0.020	9078975	0.628	0.020	9078975
Dissolved Phosphorus (P)	ug/L	3.0	2.0	9078975	2.7	2.0	9078975	2.7	2.0	9078975
Dissolved Selenium (Se)	ug/L	0.073	0.040	9078975	0.064	0.040	9078975	0.060	0.040	9078975
Dissolved Silicon (Si)	ug/L	5430	50	9078975	5500	50	9078975	5080	50	9078975
Dissolved Silver (Ag)	ug/L	<0.0050	0.0050	9078975	<0.0050	0.0050	9078975	<0.0050	0.0050	9078975
Dissolved Strontium (Sr)	ug/L	255	0.050	9078975	250	0.050	9078975	285	0.050	9078975
Dissolved Thallium (Tl)	ug/L	0.0031	0.0020	9078975	0.0030	0.0020	9078975	0.0032	0.0020	9078975
Dissolved Tin (Sn)	ug/L	<0.20	0.20	9078975	<0.20	0.20	9078975	<0.20	0.20	9078975
Dissolved Titanium (Ti)	ug/L	0.76	0.50	9078975	0.66	0.50	9078975	0.89	0.50	9078975

RDL = Reportable Detection Limit

Lab-Dup = Laboratory Initiated Duplicate

Maxxam Job #: B861510
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TX9302			TX9302			TX9303		
Sampling Date		2018/07/22 16:35			2018/07/22 16:35			2018/07/22 14:25		
COC Number		560074-01-01			560074-01-01			560074-01-01		
	UNITS	CC-1.5	RDL	QC Batch	CC-1.5 Lab-Dup	RDL	QC Batch	HC-2.5	RDL	QC Batch
Dissolved Uranium (U)	ug/L	5.84	0.0020	9078975	5.90	0.0020	9078975	24.8	0.0020	9078975
Dissolved Vanadium (V)	ug/L	0.33	0.20	9078975	0.34	0.20	9078975	0.42	0.20	9078975
Dissolved Zinc (Zn)	ug/L	0.26	0.10	9078975	0.26	0.10	9078975	0.15	0.10	9078975
Dissolved Zirconium (Zr)	ug/L	0.63	0.10	9078975	0.61	0.10	9078975	0.49	0.10	9078975
Dissolved Calcium (Ca)	mg/L	30.2	0.050	9078673				23.7	0.050	9078673
Dissolved Magnesium (Mg)	mg/L	9.49	0.050	9078673				8.50	0.050	9078673
Dissolved Potassium (K)	mg/L	1.82	0.050	9078673				1.78	0.050	9078673
Dissolved Sodium (Na)	mg/L	2.80	0.050	9078673				2.65	0.050	9078673
Dissolved Sulphur (S)	mg/L	18.7	3.0	9078673				9.6	3.0	9078673
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B861510
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TX9304	TX9305	TX9306			TX9306		
Sampling Date		2018/07/21 17:38	2018/07/21 16:38	2018/07/21 17:06			2018/07/21 17:06		
COC Number		560074-01-01	560074-01-01	560074-01-01			560074-01-01		
	UNITS	HC-5.0	YT-24	YT-24 MIX	RDL	QC Batch	YT-24 MIX Lab-Dup	RDL	QC Batch

Calculated Parameters

Dissolved Hardness (CaCO3)	mg/L	101	124	89.2	0.50	9078181			
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Elements

Dissolved Mercury (Hg)	ug/L	0.0052	0.0031	<0.0020	0.0020	9081162	<0.0020	0.0020	9081162
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Dissolved Metals by ICPMS

Dissolved Aluminum (Al)	ug/L	42.7	41.2	15.0	0.50	9078975			
Dissolved Antimony (Sb)	ug/L	0.225	0.181	0.119	0.020	9078975			
Dissolved Arsenic (As)	ug/L	0.594	0.429	0.472	0.020	9078975			
Dissolved Barium (Ba)	ug/L	43.9	64.7	40.6	0.020	9078975			
Dissolved Beryllium (Be)	ug/L	0.012	0.013	<0.010	0.010	9078975			
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	0.0050	9078975			
Dissolved Boron (B)	ug/L	<10	<10	<10	10	9078975			
Dissolved Cadmium (Cd)	ug/L	0.0053	0.0080	0.0302	0.0050	9078975			
Dissolved Chromium (Cr)	ug/L	0.26	0.25	<0.10	0.10	9078975			
Dissolved Cobalt (Co)	ug/L	0.0446	0.0633	0.0069	0.0050	9078975			
Dissolved Copper (Cu)	ug/L	1.63	1.76	0.881	0.050	9078975			
Dissolved Iron (Fe)	ug/L	22.9	21.6	8.2	1.0	9078975			
Dissolved Lead (Pb)	ug/L	<0.0050	<0.0050	0.0150	0.0050	9078975			
Dissolved Lithium (Li)	ug/L	1.00	0.55	1.64	0.50	9078975			
Dissolved Manganese (Mn)	ug/L	0.419	1.24	0.582	0.050	9078975			
Dissolved Molybdenum (Mo)	ug/L	0.626	0.455	1.16	0.050	9078975			
Dissolved Nickel (Ni)	ug/L	0.665	0.648	0.791	0.020	9078975			
Dissolved Phosphorus (P)	ug/L	2.3	3.2	6.2	2.0	9078975			
Dissolved Selenium (Se)	ug/L	0.056	0.072	0.289	0.040	9078975			
Dissolved Silicon (Si)	ug/L	4750	4260	2810	50	9078975			
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	0.0050	9078975			
Dissolved Strontium (Sr)	ug/L	241	222	116	0.050	9078975			
Dissolved Thallium (Tl)	ug/L	0.0033	0.0029	0.0027	0.0020	9078975			
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	<0.20	0.20	9078975			
Dissolved Titanium (Ti)	ug/L	0.75	0.50	<0.50	0.50	9078975			

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Maxxam Job #: B861510
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TX9304	TX9305	TX9306			TX9306		
Sampling Date		2018/07/21 17:38	2018/07/21 16:38	2018/07/21 17:06			2018/07/21 17:06		
COC Number		560074-01-01	560074-01-01	560074-01-01			560074-01-01		
	UNITS	HC-5.0	YT-24	YT-24 MIX	RDL	QC Batch	YT-24 MIX Lab-Dup	RDL	QC Batch
Dissolved Uranium (U)	ug/L	10.2	1.62	0.852	0.0020	9078975			
Dissolved Vanadium (V)	ug/L	0.44	0.31	0.30	0.20	9078975			
Dissolved Zinc (Zn)	ug/L	0.11	0.47	3.52	0.10	9078975			
Dissolved Zirconium (Zr)	ug/L	0.44	0.48	<0.10	0.10	9078975			
Dissolved Calcium (Ca)	mg/L	26.9	34.5	24.3	0.050	9078673			
Dissolved Magnesium (Mg)	mg/L	8.36	9.19	6.91	0.050	9078673			
Dissolved Potassium (K)	mg/L	2.00	1.98	0.812	0.050	9078673			
Dissolved Sodium (Na)	mg/L	3.16	3.58	2.04	0.050	9078673			
Dissolved Sulphur (S)	mg/L	11.4	23.6	9.7	3.0	9078673			
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B861510
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TX9307	TX9308	TX9309			TX9309		
Sampling Date		2018/07/21 15:40	2018/07/21 18:07	2018/07/23 08:30			2018/07/23 08:30		
COC Number		560074-01-01	560074-01-01	560074-02-01			560074-02-01		
	UNITS	COFFEE MIX	HALFWAY MIX	FIELD BLANK	RDL	QC Batch	FIELD BLANK Lab-Dup	RDL	QC Batch
Calculated Parameters									
Dissolved Hardness (CaCO3)	mg/L	88.5	88.5	<0.50	0.50	9078181			
Elements									
Dissolved Mercury (Hg)	ug/L	<0.0020	<0.0020	<0.0020	0.0020	9081162			
Dissolved Metals by ICPMS									
Dissolved Aluminum (Al)	ug/L	17.2	18.3	<0.50	0.50	9078975	<0.50	0.50	9078975
Dissolved Antimony (Sb)	ug/L	0.120	0.133	<0.020	0.020	9078975	<0.020	0.020	9078975
Dissolved Arsenic (As)	ug/L	0.460	0.432	<0.020	0.020	9078975	<0.020	0.020	9078975
Dissolved Barium (Ba)	ug/L	40.0	41.5	<0.020	0.020	9078975	<0.020	0.020	9078975
Dissolved Beryllium (Be)	ug/L	<0.010	<0.010	<0.010	0.010	9078975	<0.010	0.010	9078975
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	0.0050	9078975	<0.0050	0.0050	9078975
Dissolved Boron (B)	ug/L	<10	<10	<10	10	9078975	<10	10	9078975
Dissolved Cadmium (Cd)	ug/L	0.0251	0.0342	<0.0050	0.0050	9078975	<0.0050	0.0050	9078975
Dissolved Chromium (Cr)	ug/L	<0.10	<0.10	<0.10	0.10	9078975	<0.10	0.10	9078975
Dissolved Cobalt (Co)	ug/L	0.0194	0.0110	<0.0050	0.0050	9078975	<0.0050	0.0050	9078975
Dissolved Copper (Cu)	ug/L	0.768	1.17	<0.050	0.050	9078975	<0.050	0.050	9078975
Dissolved Iron (Fe)	ug/L	8.6	7.0	<1.0	1.0	9078975	<1.0	1.0	9078975
Dissolved Lead (Pb)	ug/L	0.0190	0.0196	<0.0050	0.0050	9078975	<0.0050	0.0050	9078975
Dissolved Lithium (Li)	ug/L	1.66	1.58	<0.50	0.50	9078975	<0.50	0.50	9078975
Dissolved Manganese (Mn)	ug/L	2.27	0.467	<0.050	0.050	9078975	<0.050	0.050	9078975
Dissolved Molybdenum (Mo)	ug/L	1.19	1.18	<0.050	0.050	9078975	<0.050	0.050	9078975
Dissolved Nickel (Ni)	ug/L	0.729	0.894	<0.020	0.020	9078975	<0.020	0.020	9078975
Dissolved Phosphorus (P)	ug/L	14.0	2.3	<2.0	2.0	9078975	<2.0	2.0	9078975
Dissolved Selenium (Se)	ug/L	0.285	0.284	<0.040	0.040	9078975	<0.040	0.040	9078975
Dissolved Silicon (Si)	ug/L	3010	2940	<50	50	9078975	<50	50	9078975
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	0.0050	9078975	<0.0050	0.0050	9078975
Dissolved Strontium (Sr)	ug/L	120	119	<0.050	0.050	9078975	<0.050	0.050	9078975
Dissolved Thallium (Tl)	ug/L	0.0021	0.0027	<0.0020	0.0020	9078975	<0.0020	0.0020	9078975
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	<0.20	0.20	9078975	<0.20	0.20	9078975
Dissolved Titanium (Ti)	ug/L	<0.50	<0.50	<0.50	0.50	9078975	<0.50	0.50	9078975
RDL = Reportable Detection Limit									
Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B861510
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TX9307	TX9308	TX9309			TX9309		
Sampling Date		2018/07/21 15:40	2018/07/21 18:07	2018/07/23 08:30			2018/07/23 08:30		
COC Number		560074-01-01	560074-01-01	560074-02-01			560074-02-01		
	UNITS	COFFEE MIX	HALFWAY MIX	FIELD BLANK	RDL	QC Batch	FIELD BLANK Lab-Dup	RDL	QC Batch
Dissolved Uranium (U)	ug/L	1.03	0.956	<0.0020	0.0020	9078975	<0.0020	0.0020	9078975
Dissolved Vanadium (V)	ug/L	0.25	0.28	<0.20	0.20	9078975	<0.20	0.20	9078975
Dissolved Zinc (Zn)	ug/L	1.79	5.26	<0.10	0.10	9078975	<0.10	0.10	9078975
Dissolved Zirconium (Zr)	ug/L	<0.10	<0.10	<0.10	0.10	9078975	<0.10	0.10	9078975
Dissolved Calcium (Ca)	mg/L	24.3	24.2	<0.050	0.050	9078673			
Dissolved Magnesium (Mg)	mg/L	6.75	6.82	<0.050	0.050	9078673			
Dissolved Potassium (K)	mg/L	0.805	0.884	<0.050	0.050	9078673			
Dissolved Sodium (Na)	mg/L	1.96	2.25	<0.050	0.050	9078673			
Dissolved Sulphur (S)	mg/L	7.5	8.1	<3.0	3.0	9078673			
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B861510
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		TX9302	TX9303		TX9304		TX9305		
Sampling Date		2018/07/22 16:35	2018/07/22 14:25		2018/07/21 17:38		2018/07/21 16:38		
COC Number		560074-01-01	560074-01-01		560074-01-01		560074-01-01		
	UNITS	CC-1.5	HC-2.5	QC Batch	HC-5.0	QC Batch	YT-24	RDL	QC Batch

Calculated Parameters

Total Hardness (CaCO3)	mg/L	118	97.0	9077955	104	9077955	129	0.50	9077955
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Elements

Total Mercury (Hg)	ug/L	0.0051	0.0038	9079862	0.0028	9079921	0.0031	0.0020	9079862
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Total Metals by ICPMS

Total Aluminum (Al)	ug/L	109	94.5	9079922	73.7	9079922	72.6	0.50	9079922
Total Antimony (Sb)	ug/L	0.115	0.425	9079922	0.237	9079922	0.192	0.020	9079922
Total Arsenic (As)	ug/L	0.565	1.03	9079922	0.700	9079922	0.505	0.020	9079922
Total Barium (Ba)	ug/L	36.5	38.6	9079922	45.9	9079922	69.4	0.020	9079922
Total Beryllium (Be)	ug/L	0.026	0.020	9079922	0.013	9079922	0.015	0.010	9079922
Total Bismuth (Bi)	ug/L	<0.0050	<0.0050	9079922	<0.0050	9079922	<0.0050	0.0050	9079922
Total Boron (B)	ug/L	<10	<10	9079922	<10	9079922	<10	10	9079922
Total Cadmium (Cd)	ug/L	0.0071	0.0052	9079922	<0.0050	9079922	0.0061	0.0050	9079922
Total Chromium (Cr)	ug/L	0.42	0.39	9079922	0.32	9079922	0.30	0.10	9079922
Total Cobalt (Co)	ug/L	0.0536	0.0581	9079922	0.0735	9079922	0.0883	0.0050	9079922
Total Copper (Cu)	ug/L	1.69	1.54	9079922	1.71	9079922	1.87	0.050	9079922
Total Iron (Fe)	ug/L	84.9	67.3	9079922	72.3	9079922	80.3	1.0	9079922
Total Lead (Pb)	ug/L	0.0261	0.0097	9079922	0.0274	9079922	0.0413	0.0050	9079922
Total Lithium (Li)	ug/L	1.66	1.33	9079922	1.03	9079922	0.58	0.50	9079922
Total Manganese (Mn)	ug/L	5.58	3.33	9079922	3.40	9079922	3.05	0.050	9079922
Total Molybdenum (Mo)	ug/L	0.147	1.27	9079922	0.619	9079922	0.434	0.050	9079922
Total Nickel (Ni)	ug/L	0.573	0.670	9079922	0.797	9079922	0.758	0.020	9079922
Total Phosphorus (P)	ug/L	3.3	4.1	9079922	<2.0	9079922	<2.0	2.0	9079922
Total Selenium (Se)	ug/L	0.084	0.063	9079922	0.061	9079922	0.074	0.040	9079922
Total Silicon (Si)	ug/L	5180	5110	9079922	4720	9079922	4190	50	9079922
Total Silver (Ag)	ug/L	<0.0050	<0.0050	9079922	<0.0050	9079922	<0.0050	0.0050	9079922
Total Strontium (Sr)	ug/L	257	298	9079922	251	9079922	237	0.050	9079922
Total Thallium (Tl)	ug/L	0.0034	0.0033	9079922	0.0045	9079922	0.0028	0.0020	9079922
Total Tin (Sn)	ug/L	<0.20	<0.20	9079922	<0.20	9079922	<0.20	0.20	9079922
Total Titanium (Ti)	ug/L	1.84	1.64	9079922	2.47	9079922	2.70	0.50	9079922
Total Uranium (U)	ug/L	5.93	25.4	9079922	10.5	9079922	2.27	0.0020	9079922

RDL = Reportable Detection Limit

Maxxam Job #: B861510
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		TX9302	TX9303		TX9304		TX9305		
Sampling Date		2018/07/22 16:35	2018/07/22 14:25		2018/07/21 17:38		2018/07/21 16:38		
COC Number		560074-01-01	560074-01-01		560074-01-01		560074-01-01		
	UNITS	CC-1.5	HC-2.5	QC Batch	HC-5.0	QC Batch	YT-24	RDL	QC Batch
Total Vanadium (V)	ug/L	0.40	0.44	9079922	0.48	9079922	0.44	0.20	9079922
Total Zinc (Zn)	ug/L	0.51	0.22	9079922	0.32	9079922	0.34	0.10	9079922
Total Zirconium (Zr)	ug/L	0.62	0.53	9079922	0.42	9079922	0.43	0.10	9079922
Total Calcium (Ca)	mg/L	31.7	24.7	9078676	27.6	9078676	36.3	0.050	9078676
Total Magnesium (Mg)	mg/L	9.35	8.59	9078676	8.42	9078676	9.26	0.050	9078676
Total Potassium (K)	mg/L	1.87	1.88	9078676	2.07	9078676	2.05	0.050	9078676
Total Sodium (Na)	mg/L	2.72	2.70	9078676	3.14	9078676	3.51	0.050	9078676
Total Sulphur (S)	mg/L	18.6	10.0	9078676	12.0	9078676	21.7	3.0	9078676
RDL = Reportable Detection Limit									

Maxxam Job #: B861510
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		TX9309			TX9309		
Sampling Date		2018/07/23 08:30			2018/07/23 08:30		
COC Number		560074-02-01			560074-02-01		
	UNITS	FIELD BLANK	RDL	QC Batch	FIELD BLANK Lab-Dup	RDL	QC Batch
Calculated Parameters							
Total Hardness (CaCO3)	mg/L	<0.50	0.50	9077955			
Elements							
Total Mercury (Hg)	ug/L	<0.0020	0.0020	9079921	<0.0020	0.0020	9079921
Total Metals by ICPMS							
Total Aluminum (Al)	ug/L	3.86	0.50	9084642			
Total Antimony (Sb)	ug/L	<0.020	0.020	9084642			
Total Arsenic (As)	ug/L	<0.020	0.020	9084642			
Total Barium (Ba)	ug/L	0.062	0.020	9084642			
Total Beryllium (Be)	ug/L	<0.010	0.010	9084642			
Total Bismuth (Bi)	ug/L	<0.0050	0.0050	9084642			
Total Boron (B)	ug/L	<10	10	9084642			
Total Cadmium (Cd)	ug/L	<0.0050	0.0050	9084642			
Total Chromium (Cr)	ug/L	<0.10	0.10	9084642			
Total Cobalt (Co)	ug/L	<0.0050	0.0050	9084642			
Total Copper (Cu)	ug/L	<0.050	0.050	9084642			
Total Iron (Fe)	ug/L	4.6	1.0	9084642			
Total Lead (Pb)	ug/L	0.0065	0.0050	9084642			
Total Lithium (Li)	ug/L	<0.50	0.50	9084642			
Total Manganese (Mn)	ug/L	0.085	0.050	9084642			
Total Molybdenum (Mo)	ug/L	<0.050	0.050	9084642			
Total Nickel (Ni)	ug/L	<0.020	0.020	9084642			
Total Phosphorus (P)	ug/L	<2.0	2.0	9084642			
Total Selenium (Se)	ug/L	<0.040	0.040	9084642			
Total Silicon (Si)	ug/L	<50	50	9084642			
Total Silver (Ag)	ug/L	<0.0050	0.0050	9084642			
Total Strontium (Sr)	ug/L	<0.050	0.050	9084642			
Total Thallium (Tl)	ug/L	<0.0020	0.0020	9084642			
Total Tin (Sn)	ug/L	<0.20	0.20	9084642			
Total Titanium (Ti)	ug/L	<0.50	0.50	9084642			
RDL = Reportable Detection Limit							
Lab-Dup = Laboratory Initiated Duplicate							

Maxxam Job #: B861510
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		TX9309			TX9309		
Sampling Date		2018/07/23 08:30			2018/07/23 08:30		
COC Number		560074-02-01			560074-02-01		
	UNITS	FIELD BLANK	RDL	QC Batch	FIELD BLANK Lab-Dup	RDL	QC Batch
Total Uranium (U)	ug/L	<0.0020	0.0020	9084642			
Total Vanadium (V)	ug/L	<0.20	0.20	9084642			
Total Zinc (Zn)	ug/L	0.16	0.10	9084642			
Total Zirconium (Zr)	ug/L	<0.10	0.10	9084642			
Total Calcium (Ca)	mg/L	<0.050	0.050	9078676			
Total Magnesium (Mg)	mg/L	<0.050	0.050	9078676			
Total Potassium (K)	mg/L	<0.050	0.050	9078676			
Total Sodium (Na)	mg/L	<0.050	0.050	9078676			
Total Sulphur (S)	mg/L	<3.0	3.0	9078676			
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate							

Maxxam Job #: B861510
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TX9306	TX9307	TX9308		
Sampling Date		2018/07/21 17:06	2018/07/21 15:40	2018/07/21 18:07		
COC Number		560074-01-01	560074-01-01	560074-01-01		
	UNITS	YT-24 MIX	COFFEE MIX	HALFWAY MIX	RDL	QC Batch
Calculated Parameters						
Total Hardness (CaCO3)	mg/L	94.8	96.1	112	0.50	9077955
Elements						
Total Mercury (Hg)	ug/L	<0.0020	<0.0020	<0.0020	0.0020	9079921
Total Metals by ICPMS						
Total Aluminum (Al)	ug/L	104	286	179	3.0	9080183
Total Antimony (Sb)	ug/L	0.122	0.158	0.162	0.020	9080183
Total Arsenic (As)	ug/L	0.583	0.812	0.687	0.020	9080183
Total Barium (Ba)	ug/L	47.6	55.4	62.2	0.050	9080183
Total Beryllium (Be)	ug/L	<0.010	0.012	0.010	0.010	9080183
Total Bismuth (Bi)	ug/L	<0.010	<0.010	<0.010	0.010	9080183
Total Boron (B)	ug/L	<10	<10	<10	10	9080183
Total Cadmium (Cd)	ug/L	0.0484	0.0684	0.0578	0.0050	9080183
Total Chromium (Cr)	ug/L	0.22	0.58	0.42	0.10	9080183
Total Cobalt (Co)	ug/L	0.095	0.243	0.157	0.010	9080183
Total Copper (Cu)	ug/L	1.10	1.55	1.43	0.10	9080183
Total Iron (Fe)	ug/L	147	469	247	5.0	9080183
Total Lead (Pb)	ug/L	0.125	0.313	0.181	0.020	9080183
Total Lithium (Li)	ug/L	1.63	1.70	1.84	0.50	9080183
Total Manganese (Mn)	ug/L	11.9	23.3	16.9	0.10	9080183
Total Molybdenum (Mo)	ug/L	1.29	1.33	1.60	0.050	9080183
Total Nickel (Ni)	ug/L	1.16	1.80	1.59	0.10	9080183
Total Phosphorus (P)	ug/L	13.5	21.3	14.0	5.0	9080183
Total Selenium (Se)	ug/L	0.318	0.323	0.367	0.040	9080183
Total Silicon (Si)	ug/L	3170	3470	3700	50	9080183
Total Silver (Ag)	ug/L	<0.010	<0.010	<0.010	0.010	9080183
Total Strontium (Sr)	ug/L	126	128	156	0.050	9080183
Total Thallium (Tl)	ug/L	0.0035	0.0059	0.0053	0.0020	9080183
Total Tin (Sn)	ug/L	<0.20	<0.20	<0.20	0.20	9080183
Total Titanium (Ti)	ug/L	3.3	10.4	5.4	2.0	9080183
Total Uranium (U)	ug/L	1.08	1.08	1.35	0.0050	9080183
Total Vanadium (V)	ug/L	0.47	1.02	0.72	0.20	9080183
RDL = Reportable Detection Limit						

Maxxam Job #: B861510
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TX9306	TX9307	TX9308		
Sampling Date		2018/07/21 17:06	2018/07/21 15:40	2018/07/21 18:07		
COC Number		560074-01-01	560074-01-01	560074-01-01		
	UNITS	YT-24 MIX	COFFEE MIX	HALFWAY MIX	RDL	QC Batch
Total Zinc (Zn)	ug/L	4.9	7.0	5.6	1.0	9080183
Total Zirconium (Zr)	ug/L	0.11	0.12	<0.10	0.10	9080183
Total Calcium (Ca)	mg/L	26.2	26.5	30.4	0.25	9078676
Total Magnesium (Mg)	mg/L	7.17	7.28	8.79	0.25	9078676
Total Potassium (K)	mg/L	0.86	0.89	1.10	0.25	9078676
Total Sodium (Na)	mg/L	2.08	2.05	2.52	0.25	9078676
Total Sulphur (S)	mg/L	8.0	7.9	10.3	3.0	9078676
RDL = Reportable Detection Limit						

Maxxam Job #: B861510
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

GENERAL COMMENTS

Sample TX9304 [HC-5.0] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample TX9305 [YT-24] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample TX9306 [YT-24 MIX] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample TX9307 [COFFEE MIX] : Sample was analyzed past method specified hold time for Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level).

Sample TX9308 [HALFWAY MIX] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). {Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.} Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Results relate only to the items tested.

Maxxam Job #: B861510
Report Date: 2018/08/01

QUALITY ASSURANCE REPORT

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9078975	Dissolved Aluminum (Al)	2018/07/26	99	80 - 120	105	80 - 120	<0.50	ug/L	NC	20
9078975	Dissolved Antimony (Sb)	2018/07/26	102	80 - 120	102	80 - 120	<0.020	ug/L	NC	20
9078975	Dissolved Arsenic (As)	2018/07/26	104	80 - 120	103	80 - 120	<0.020	ug/L	NC	20
9078975	Dissolved Barium (Ba)	2018/07/26	96	80 - 120	100	80 - 120	<0.020	ug/L	NC	20
9078975	Dissolved Beryllium (Be)	2018/07/26	103	80 - 120	108	80 - 120	<0.010	ug/L	NC	20
9078975	Dissolved Bismuth (Bi)	2018/07/26	98	80 - 120	101	80 - 120	<0.0050	ug/L	NC	20
9078975	Dissolved Boron (B)	2018/07/26	104	80 - 120	108	80 - 120	<10	ug/L	NC	20
9078975	Dissolved Cadmium (Cd)	2018/07/26	100	80 - 120	101	80 - 120	<0.0050	ug/L	NC	20
9078975	Dissolved Chromium (Cr)	2018/07/26	101	80 - 120	103	80 - 120	<0.10	ug/L	NC	20
9078975	Dissolved Cobalt (Co)	2018/07/26	99	80 - 120	100	80 - 120	<0.0050	ug/L	NC	20
9078975	Dissolved Copper (Cu)	2018/07/26	97	80 - 120	99	80 - 120	<0.050	ug/L	NC	20
9078975	Dissolved Iron (Fe)	2018/07/26	99	80 - 120	102	80 - 120	<1.0	ug/L	NC	20
9078975	Dissolved Lead (Pb)	2018/07/26	99	80 - 120	102	80 - 120	<0.0050	ug/L	NC	20
9078975	Dissolved Lithium (Li)	2018/07/26	103	80 - 120	112	80 - 120	<0.50	ug/L	NC	20
9078975	Dissolved Manganese (Mn)	2018/07/26	101	80 - 120	102	80 - 120	<0.050	ug/L	NC	20
9078975	Dissolved Molybdenum (Mo)	2018/07/26	105	80 - 120	104	80 - 120	<0.050	ug/L	NC	20
9078975	Dissolved Nickel (Ni)	2018/07/26	100	80 - 120	102	80 - 120	<0.020	ug/L	NC	20
9078975	Dissolved Phosphorus (P)	2018/07/26	102	80 - 120	101	80 - 120	<2.0	ug/L	NC	20
9078975	Dissolved Selenium (Se)	2018/07/26	103	80 - 120	100	80 - 120	<0.040	ug/L	NC	20
9078975	Dissolved Silicon (Si)	2018/07/26	NC	80 - 120	108	80 - 120	<50	ug/L	NC	20
9078975	Dissolved Silver (Ag)	2018/07/26	100	80 - 120	100	80 - 120	<0.0050	ug/L	NC	20
9078975	Dissolved Strontium (Sr)	2018/07/26	NC	80 - 120	102	80 - 120	<0.050	ug/L	NC	20
9078975	Dissolved Thallium (Tl)	2018/07/26	96	80 - 120	97	80 - 120	<0.0020	ug/L	NC	20
9078975	Dissolved Tin (Sn)	2018/07/26	101	80 - 120	123 (1)	80 - 120	<0.20	ug/L	NC	20
9078975	Dissolved Titanium (Ti)	2018/07/26	102	80 - 120	100	80 - 120	<0.50	ug/L	NC	20
9078975	Dissolved Uranium (U)	2018/07/26	104	80 - 120	103	80 - 120	<0.0020	ug/L	NC	20
9078975	Dissolved Vanadium (V)	2018/07/26	103	80 - 120	103	80 - 120	<0.20	ug/L	NC	20
9078975	Dissolved Zinc (Zn)	2018/07/26	100	80 - 120	102	80 - 120	<0.10	ug/L	NC	20
9078975	Dissolved Zirconium (Zr)	2018/07/26	103	80 - 120	102	80 - 120	<0.10	ug/L	NC	20
9079095	Nitrate plus Nitrite (N)	2018/07/25	NC	80 - 120	113	80 - 120	<0.0020	mg/L	1.7	25
9079096	Nitrite (N)	2018/07/25	99	80 - 120	102	80 - 120	<0.0020	mg/L	NC	25

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QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9079097	Nitrate plus Nitrite (N)	2018/07/25	112	80 - 120	114	80 - 120	<0.0020	mg/L	1.8	25
9079098	Nitrite (N)	2018/07/25	95	80 - 120	103	80 - 120	<0.0020	mg/L	NC	25
9079862	Total Mercury (Hg)	2018/07/26	98	80 - 120	98	80 - 120	<0.0020	ug/L	NC	20
9079921	Total Mercury (Hg)	2018/07/26	100	80 - 120	98	80 - 120	<0.0020	ug/L	NC	20
9079922	Total Aluminum (Al)	2018/07/27	93	80 - 120	99	80 - 120	<0.50	ug/L	14	20
9079922	Total Antimony (Sb)	2018/07/27	97	80 - 120	100	80 - 120	<0.020	ug/L	NC	20
9079922	Total Arsenic (As)	2018/07/27	101	80 - 120	104	80 - 120	<0.020	ug/L	NC	20
9079922	Total Barium (Ba)	2018/07/27	94	80 - 120	100	80 - 120	<0.020	ug/L	NC	20
9079922	Total Beryllium (Be)	2018/07/27	101	80 - 120	104	80 - 120	<0.010	ug/L	NC	20
9079922	Total Bismuth (Bi)	2018/07/27	93	80 - 120	102	80 - 120	<0.0050	ug/L	NC	20
9079922	Total Boron (B)	2018/07/27	102	80 - 120	107	80 - 120	<10	ug/L	NC	20
9079922	Total Cadmium (Cd)	2018/07/27	99	80 - 120	101	80 - 120	<0.0050	ug/L	NC	20
9079922	Total Chromium (Cr)	2018/07/27	94	80 - 120	101	80 - 120	<0.10	ug/L	NC	20
9079922	Total Cobalt (Co)	2018/07/27	92	80 - 120	98	80 - 120	<0.0050	ug/L	NC	20
9079922	Total Copper (Cu)	2018/07/27	91	80 - 120	97	80 - 120	<0.050	ug/L	NC	20
9079922	Total Iron (Fe)	2018/07/27	89	80 - 120	101	80 - 120	<1.0	ug/L	NC	20
9079922	Total Lead (Pb)	2018/07/27	95	80 - 120	102	80 - 120	<0.0050	ug/L	NC	20
9079922	Total Lithium (Li)	2018/07/27	100	80 - 120	108	80 - 120	<0.50	ug/L	NC	20
9079922	Total Manganese (Mn)	2018/07/27	92	80 - 120	101	80 - 120	<0.050	ug/L	19	20
9079922	Total Molybdenum (Mo)	2018/07/27	97	80 - 120	97	80 - 120	<0.050	ug/L	NC	20
9079922	Total Nickel (Ni)	2018/07/27	92	80 - 120	99	80 - 120	0.029, RDL=0.020 (2)	ug/L	NC	20
9079922	Total Phosphorus (P)	2018/07/27	101	80 - 120	102	80 - 120	<2.0	ug/L	NC	20
9079922	Total Selenium (Se)	2018/07/27	97	80 - 120	99	80 - 120	<0.040	ug/L	NC	20
9079922	Total Silicon (Si)	2018/07/27	94	80 - 120	103	80 - 120	<50	ug/L	NC	20
9079922	Total Silver (Ag)	2018/07/27	95	80 - 120	100	80 - 120	<0.0050	ug/L	NC	20
9079922	Total Strontium (Sr)	2018/07/27	NC	80 - 120	102	80 - 120	<0.050	ug/L	NC	20
9079922	Total Thallium (Tl)	2018/07/27	95	80 - 120	102	80 - 120	<0.0020	ug/L	NC	20
9079922	Total Tin (Sn)	2018/07/27	96	80 - 120	99	80 - 120	<0.20	ug/L	NC	20
9079922	Total Titanium (Ti)	2018/07/27	96	80 - 120	106	80 - 120	<0.50	ug/L	6.4	20
9079922	Total Uranium (U)	2018/07/27	96	80 - 120	104	80 - 120	<0.0020	ug/L	NC	20

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QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9079922	Total Vanadium (V)	2018/07/27	96	80 - 120	100	80 - 120	<0.20	ug/L	NC	20
9079922	Total Zinc (Zn)	2018/07/27	96	80 - 120	100	80 - 120	<0.10	ug/L	NC	20
9079922	Total Zirconium (Zr)	2018/07/27	96	80 - 120	99	80 - 120	<0.10	ug/L	NC	20
9079943	Dissolved Mercury (Hg)	2018/07/26	96	80 - 120	106	80 - 120	<0.0020	ug/L	3.7	20
9080183	Total Aluminum (Al)	2018/07/27	121 (3)	80 - 120	104	80 - 120	<3.0	ug/L	1.5	20
9080183	Total Antimony (Sb)	2018/07/27	105	80 - 120	104	80 - 120	<0.020	ug/L	1.1	20
9080183	Total Arsenic (As)	2018/07/27	108	80 - 120	105	80 - 120	<0.020	ug/L	4.6	20
9080183	Total Barium (Ba)	2018/07/27	108	80 - 120	106	80 - 120	<0.050	ug/L	0.18	20
9080183	Total Beryllium (Be)	2018/07/27	99	80 - 120	99	80 - 120	<0.010	ug/L	NC	20
9080183	Total Bismuth (Bi)	2018/07/27	105	80 - 120	104	80 - 120	<0.010	ug/L	NC	20
9080183	Total Boron (B)	2018/07/27	94	80 - 120	94	80 - 120	<10	ug/L	2.3	20
9080183	Total Cadmium (Cd)	2018/07/27	107	80 - 120	104	80 - 120	<0.0050	ug/L	NC	20
9080183	Total Chromium (Cr)	2018/07/27	106	80 - 120	104	80 - 120	<0.10	ug/L	NC	20
9080183	Total Cobalt (Co)	2018/07/27	104	80 - 120	103	80 - 120	<0.010	ug/L	0.51	20
9080183	Total Copper (Cu)	2018/07/27	102	80 - 120	101	80 - 120	<0.10	ug/L	9.9	20
9080183	Total Iron (Fe)	2018/07/27	120	80 - 120	107	80 - 120	<5.0	ug/L	0.084	20
9080183	Total Lead (Pb)	2018/07/27	106	80 - 120	105	80 - 120	<0.020	ug/L	1.3	20
9080183	Total Lithium (Li)	2018/07/27	100	80 - 120	101	80 - 120	<0.50	ug/L	3.0	20
9080183	Total Manganese (Mn)	2018/07/27	118	80 - 120	104	80 - 120	<0.10	ug/L	1.6	20
9080183	Total Molybdenum (Mo)	2018/07/27	116	80 - 120	109	80 - 120	<0.050	ug/L	2.4	20
9080183	Total Nickel (Ni)	2018/07/27	104	80 - 120	103	80 - 120	<0.10	ug/L	4.2	20
9080183	Total Phosphorus (P)	2018/07/27	107	80 - 120	103	80 - 120	<5.0	ug/L		
9080183	Total Selenium (Se)	2018/07/27	103	80 - 120	100	80 - 120	<0.040	ug/L	NC	20
9080183	Total Silicon (Si)	2018/07/27	NC	80 - 120	106	80 - 120	<50	ug/L	0.77	20
9080183	Total Silver (Ag)	2018/07/27	107	80 - 120	104	80 - 120	<0.010	ug/L	NC	20
9080183	Total Strontium (Sr)	2018/07/27	NC	80 - 120	106	80 - 120	<0.050	ug/L	2.1	20
9080183	Total Thallium (Tl)	2018/07/27	107	80 - 120	105	80 - 120	<0.0020	ug/L	15	20
9080183	Total Tin (Sn)	2018/07/27	103	80 - 120	103	80 - 120	<0.20	ug/L	NC	20
9080183	Total Titanium (Ti)	2018/07/27	117	80 - 120	106	80 - 120	<2.0	ug/L	NC	20
9080183	Total Uranium (U)	2018/07/27	108	80 - 120	103	80 - 120	<0.0050	ug/L	1.5	20
9080183	Total Vanadium (V)	2018/07/27	107	80 - 120	103	80 - 120	<0.20	ug/L	3.9	20

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QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9080183	Total Zinc (Zn)	2018/07/27	105	80 - 120	102	80 - 120	<1.0	ug/L	NC	20
9080183	Total Zirconium (Zr)	2018/07/27	110	80 - 120	107	80 - 120	<0.10	ug/L	NC	20
9080222	ORP	2018/07/26							0	20
9080278	pH	2018/07/27			101	97 - 103			1.3	20
9080287	Alkalinity (PP as CaCO3)	2018/07/27					<0.50	mg/L		
9080287	Alkalinity (Total as CaCO3)	2018/07/27	NC	80 - 120	100	80 - 120	0.69, RDL=0.50	mg/L		
9080287	Bicarbonate (HCO3)	2018/07/27					0.84, RDL=0.50	mg/L		
9080287	Carbonate (CO3)	2018/07/27					<0.50	mg/L		
9080287	Hydroxide (OH)	2018/07/27					<0.50	mg/L		
9080288	Conductivity	2018/07/27			100	80 - 120	1.2, RDL=1.0	uS/cm		
9080494	Nitrate plus Nitrite (N)	2018/07/26	103	80 - 120	109	80 - 120	<0.0020	mg/L	1.7	25
9080722	Total Dissolved Solids	2018/07/28	99	80 - 120	101	80 - 120	<10	mg/L	8.6	20
9080723	Total Dissolved Solids	2018/07/28	101	80 - 120	96	80 - 120	<10	mg/L	2.1	20
9081162	Dissolved Mercury (Hg)	2018/07/27	95	80 - 120	98	80 - 120	<0.0020	ug/L	NC	20
9081293	Dissolved Chloride (Cl)	2018/07/27	99	80 - 120	99	80 - 120	<0.50	mg/L	14	20
9081297	Dissolved Sulphate (SO4)	2018/07/27	NC	80 - 120	98	80 - 120	<0.50	mg/L	2.6	20
9081299	Dissolved Chloride (Cl)	2018/07/27	89	80 - 120	99	80 - 120	<0.50	mg/L	12	20
9081303	Dissolved Sulphate (SO4)	2018/07/27	102	80 - 120	98	80 - 120	<0.50	mg/L	16	20
9081446	Total Ammonia (N)	2018/07/26			108	80 - 120	<0.0050	mg/L		
9081541	Fluoride (F)	2018/07/27	92	80 - 120	96	80 - 120	<0.010	mg/L	NC	20
9081683	Fluoride (F)	2018/07/27	100	80 - 120	104	80 - 120	<0.010	mg/L	1.4	20
9081779	Alkalinity (PP as CaCO3)	2018/07/27					<0.50	mg/L	NC	20
9081779	Alkalinity (Total as CaCO3)	2018/07/27	100	80 - 120	93	80 - 120	<0.50	mg/L	NC	20
9081779	Bicarbonate (HCO3)	2018/07/27					<0.50	mg/L	NC	20
9081779	Carbonate (CO3)	2018/07/27					<0.50	mg/L	NC	20
9081779	Hydroxide (OH)	2018/07/27					<0.50	mg/L	NC	20
9081808	pH	2018/07/27			102	97 - 103			1.4	20
9081809	Conductivity	2018/07/27			99	80 - 120	<1.0	uS/cm	0	20
9081847	pH	2018/07/28			101	97 - 103				
9081853	Alkalinity (PP as CaCO3)	2018/07/28					<0.50	mg/L		
9081853	Alkalinity (Total as CaCO3)	2018/07/28			95	80 - 120	<0.50	mg/L		

Maxxam Job #: B861510
Report Date: 2018/08/01

QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9081853	Bicarbonate (HCO3)	2018/07/28					<0.50	mg/L		
9081853	Carbonate (CO3)	2018/07/28					<0.50	mg/L		
9081853	Hydroxide (OH)	2018/07/28					<0.50	mg/L		
9081854	Conductivity	2018/07/28			100	80 - 120	1.1, RDL=1.0	uS/cm		
9082474	Total Suspended Solids	2018/07/30			103	80 - 120	<1.0	mg/L		
9082476	Total Suspended Solids	2018/07/30			102	80 - 120	<1.0	mg/L		
9082969	Total Dissolved Solids	2018/07/31	99	80 - 120	96	80 - 120	<10	mg/L	0.33	20
9084642	Total Aluminum (Al)	2018/07/30			103	80 - 120	<0.50	ug/L		
9084642	Total Antimony (Sb)	2018/07/30			99	80 - 120	<0.020	ug/L		
9084642	Total Arsenic (As)	2018/07/30			103	80 - 120	<0.020	ug/L		
9084642	Total Barium (Ba)	2018/07/30			98	80 - 120	<0.020	ug/L		
9084642	Total Beryllium (Be)	2018/07/30			102	80 - 120	<0.010	ug/L		
9084642	Total Bismuth (Bi)	2018/07/30			94	80 - 120	<0.0050	ug/L		
9084642	Total Boron (B)	2018/07/30			110	80 - 120	<10	ug/L		
9084642	Total Cadmium (Cd)	2018/07/30			99	80 - 120	<0.0050	ug/L		
9084642	Total Chromium (Cr)	2018/07/30			97	80 - 120	<0.10	ug/L		
9084642	Total Cobalt (Co)	2018/07/30			98	80 - 120	<0.0050	ug/L		
9084642	Total Copper (Cu)	2018/07/30			96	80 - 120	<0.050	ug/L		
9084642	Total Iron (Fe)	2018/07/30			101	80 - 120	<1.0	ug/L		
9084642	Total Lead (Pb)	2018/07/30			96	80 - 120	<0.0050	ug/L		
9084642	Total Lithium (Li)	2018/07/30			105	80 - 120	<0.50	ug/L		
9084642	Total Manganese (Mn)	2018/07/30			101	80 - 120	<0.050	ug/L		
9084642	Total Molybdenum (Mo)	2018/07/30			103	80 - 120	<0.050	ug/L		
9084642	Total Nickel (Ni)	2018/07/30			97	80 - 120	<0.020	ug/L		
9084642	Total Phosphorus (P)	2018/07/30			103	80 - 120	<2.0	ug/L		
9084642	Total Selenium (Se)	2018/07/30			102	80 - 120	<0.040	ug/L		
9084642	Total Silicon (Si)	2018/07/30			113	80 - 120	<50	ug/L		
9084642	Total Silver (Ag)	2018/07/30			98	80 - 120	<0.0050	ug/L		
9084642	Total Strontium (Sr)	2018/07/30			104	80 - 120	<0.050	ug/L		
9084642	Total Thallium (Tl)	2018/07/30			93	80 - 120	<0.0020	ug/L		
9084642	Total Tin (Sn)	2018/07/30			99	80 - 120	<0.20	ug/L		

Maxxam Job #: B861510
Report Date: 2018/08/01

QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9084642	Total Titanium (Ti)	2018/07/30			101	80 - 120	<0.50	ug/L		
9084642	Total Uranium (U)	2018/07/30			99	80 - 120	<0.0020	ug/L		
9084642	Total Vanadium (V)	2018/07/30			98	80 - 120	<0.20	ug/L		
9084642	Total Zinc (Zn)	2018/07/30			98	80 - 120	<0.10	ug/L		
9084642	Total Zirconium (Zr)	2018/07/30			100	80 - 120	<0.10	ug/L		
9084974	Total Organic Carbon (C)	2018/07/31	NC	80 - 120	110	80 - 120	<0.50	mg/L	3.9	20
9085201	Dissolved Organic Carbon (C)	2018/07/31	NC	80 - 120	105	80 - 120	<0.50	mg/L	4.7	20
9085574	Free Cyanide	2018/07/27	106	80 - 120	103	80 - 120	<0.0010	mg/L	NC	20
9085575	Free Cyanide	2018/07/30	98	80 - 120	98	80 - 120	<0.0010	mg/L		

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

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

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

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Blank Spike for Tin outside acceptance criteria (10% of analytes failure allowed).

(2) Method blank exceeds acceptance limits for Ni- 2X RDL acceptable for low level metals determination.

(3) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

Maxxam Job #: B861510
Report Date: 2018/08/01

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Cristina Carriere, Scientific Services



Rob Reinert, B.Sc., Scientific Spécialist



Winnie Au, B.Sc., QP, Scientific Specialist

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



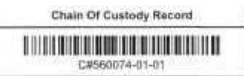
Maxxam Analytics International Corporation o/a Maxxam Analytics
 9331 - 48th Street, Edmonton, Alberta Canada T6B 2R4 Tel (780) 577-7100 Toll-free 800-563-6266 Fax (780) 450-4187 www.maxxam.ca

INVOICE TO:		Report Information		Project Information	
Company Name: #3604 LORAX ENVIRONMENTAL SERVICES LTD.	Company Name: David Flather	Quotation #: B40231			
Contact Name: Aida Piaseczny	Contact Name: David Flather	P.O. #:			
Address: 2289 BURRARD STREET	Address:	Project #: Gold Corp Coffee Creek-SW			
Address: VANCOUVER BC V6J 3H9	Address:	Project Name:			
Phone: (604) 688-7173 Fax: (604) 688-7175	Phone: Fax:	Site #:			
Email: aida.piaseczny@lorax.ca; shukling.ng@lorax.ca	Email: David.Flather@lorax.ca	Sampled By:			



B861510_COC

Bottle Order #: 560074



Chain Of Custody Record

Project Manager
Diana Cruz

Regulatory Criteria		Special Instructions		Analysis Requested										Turnaround Time (TAT) Required			
				<input type="checkbox"/> Regulated Drinking Water? (Y/N) <input type="checkbox"/> Metals Field Filtered? (Y/N) <input type="checkbox"/> Routine (Alk-LI, EC-LI, NH4-LI, pH, TDS) <input type="checkbox"/> TSS-Low Level <input type="checkbox"/> Anions (Li, Cl, F, NO2, NO3, SO4) <input type="checkbox"/> Cyanide - WAD <input type="checkbox"/> TOC <input type="checkbox"/> DOC <input type="checkbox"/> Low Level Dissolved Metals Incl. CV Hg <input type="checkbox"/> Low Level Total Metals incl. CV Hg <input type="checkbox"/> ORP										Please provide advance notice for rush projects Regular (Standard) TAT (will be applied if Rush TAT is not specified) Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details. <input checked="" type="checkbox"/>			
Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form Samples must be kept cool (< 10°C) from time of sampling until delivery to maxxam														Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____ Rush Confirmation Number: _____ (not lab for #)			
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	Routine (Alk-LI, EC-LI, NH4-LI, pH, TDS)	TSS-Low Level	Anions (Li, Cl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals Incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	# of Bottles	Comments
1 SID#162743	CC-0.5			W													
2 SID#162744	CC-1.5	22/07/18	16:35	W	N	N	/	/	/	/	/	/	/	/	/	13	
3 SID#162745	CC-3.5			W													RECEIVED IN WHITEHORSE BY: <i>slipm@0900</i>
4 SID#162746	CC-4.5			W													2018-07-24
5 SID#162747	HC-2.5	22/07/18	14:25	W	N	N	/	/	/	/	/	/	/	/	/	13	
6 SID#162748	HC-5.0	21/07/18	17:38	W	N	N	/	/	/	/	/	/	/	/	/	13	TEMP: 10 / 10 / 11
7 SID#149895	YT-24	21/07/18	16:38	W	N	N	/	/	/	/	/	/	/	/	/	13	13 13 12
8 SID#149896	YT-24 Mix	21/07/18	17:06	W	N	N	/	/	/	/	/	/	/	/	/	13	cooling media present - thawed
9 SID#149897	Coffee Mix	21/07/18	15:40	W	N	N	/	/	/	/	/	/	/	/	/	13	
10 SID#149898	Halfway Mix	21/07/18	18:07	W	N	N	/	/	/	/	/	/	/	/	/	13	
* RELINQUISHED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	# Jars used and not submitted	Lab Use Only								
<i>BRITCH NORAN</i>		18/07/18	9:00	<i>DAVID FLATHER</i>		20/07/18	10:40	11	Time Sensitive <input checked="" type="checkbox"/>	Temperature (°C) on Receipt: 7.7	Custody Seal Intact on Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS. * IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.																	

1550



Maxxam Analytical International Corporation o/a Maxxam Analytical
 8331 - 48th Street, Edmonton, Alberta Canada T6B 2R4 Tel: (780) 577-7100 Toll-free: 800-563-6266 Fax: (780) 450-4187 www.maxxam.ca

INVOICE TO:		Report Information		Project Information	
Company Name: #3604 LORAX ENVIRONMENTAL SERVICES LTD.	Company Name: David Flather	Quotation #: B40231			
Contact Name: Aida Piaseczny	Contact Name: David Flather	P.O. #:			
Address: 2289 BURRARD STREET	Address:	Project #: Gold Corp Coffee Creek-SW			
Address: VANCOUVER BC V6J 3H9		Project Name:			
Phone: (604) 688-7173 Fax: (604) 688-7175	Phone: Fax:	Site #:			
Email: aida.piaseczny@lorax.ca; shukling.ng@lorax.ca	Email: David.Flather@lorax.ca	Sampled By:			



B861510_COC

Bottle Order #:



560074

Project Manager

Diana Cruz



Chain of Custody record

Regulatory Criteria	Special Instructions	Analysis Requested										Turnaround Time (TAT) Required		
		Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	Routine (Alk-LI, EC-LI, NH4-LI, pH, TDS)	TSS-Low Level	Anions (LL-Cl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	Please provide advance notice for rush projects	
<p>Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form</p> <p>Samples must be kept cool (< 10°C) from time of sampling until delivery to maxxam</p>													<p>Regular (Standard) TAT (will be applied if Rush TAT is not specified) Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.</p> <p>Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____</p> <p>Rush Confirmation Number _____ (call lab for #)</p>	

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	Routine (Alk-LI, EC-LI, NH4-LI, pH, TDS)	TSS-Low Level	Anions (LL-Cl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	# of Bottles	Comments
SID#149899	Latte Mix			W													
SID#208506	Dup			W													RECEIVED IN WHITEHORSE
SID#214391	Field Blank	23/07/18	8:30	W	N	N	/	/	/	/	/	/	/	/	/	13	BY: <u>shukling@0900</u>
																	2018-07-24
																	TEMP: 10 / 10 / 11
																	13 13 12
																	cooling media present - thawed

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# Jars used and not submitted	Time Serology	Temperature (C) on receipt	Custody Seal Intact on Cooler?
<u>Shukling</u>	24/07/18	9:00	<u>David Flather</u>	2018/07/18	10:00	1	<input checked="" type="checkbox"/>	7.7°C	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<p>* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.</p> <p>* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.</p>									

Your Project #: Gold Corp Coffee Creek-SW
 Site Location: COFFEE CREEK - SURFACE WATER
 Your C.O.C. #: 560074-01-01, 560074-02-01

Attention: David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
 2289 BURRARD STREET
 VANCOUVER, BC
 CANADA V6J 3H9

Report Date: 2018/08/03

Report #: R2599622

Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B862160

Received: 2018/07/25, 10:20

Sample Matrix: Water
 # Samples Received: 5

Analyses	Date		Laboratory Method	Analytical Method
	Quantity	Extracted		
Alkalinity - Low Level	5	N/A	2018/07/30 BBY6SOP-00026	SM 22 2320 B m
Chloride - Low Level	5	N/A	2018/07/27 BBY6SOP-00011	SM 22 4500-Cl- E m
Carbon (DOC) (1, 3)	1	N/A	2018/07/30 CAL SOP-00077	MMCW 119 1996 m
Carbon (DOC) (1, 3)	4	N/A	2018/07/31 CAL SOP-00077	MMCW 119 1996 m
Conductance - Low Level	5	N/A	2018/07/30 BBY6SOP-00026	SM 22 2510 B m
Fluoride - Low Level	5	N/A	2018/07/27 BBY6SOP-00048	SM 22 4500-F C m
Hardness Total (calculated as CaCO3) (4)	5	N/A	2018/07/30 BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3)	5	N/A	2018/07/31 BBY WI-00033	Auto Calc
Mercury (Dissolved) by CVAf	4	N/A	2018/07/27 BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Dissolved) by CVAf	1	N/A	2018/07/30 BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Total) by CVAf	5	2018/07/27	2018/07/27 BBY7SOP-00015	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	5	N/A	2018/07/31 BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (dissolved)	5	N/A	2018/07/30 BBY7SOP-00002	EPA 6020b R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total)	5	N/A	2018/07/30 BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (total)	5	N/A	2018/07/28 BBY7SOP-00002	EPA 6020b R2 m
Ammonia-N Low Level (Preserved)	5	N/A	2018/07/27 BBY6SOP-00009	EPA 350.1 m
Nitrate+Nitrite (N) (low level)	5	N/A	2018/07/27 BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrite (N) (low level)	5	N/A	2018/07/27 BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrogen - Nitrate (as N) Low Level Calc	5	N/A	2018/07/28 BBY WI-00033	Auto Calc
ORP Analysis on Water by ARD LAB	5	N/A	2018/07/30 BBY0SOP-00004	SM 22 2580 B
Filter and HNO3 Preserve for Metals	5	N/A	2018/07/27 BBY7 WI-00004	BCMOE Reqs 08/14
pH Water (5)	5	N/A	2018/07/30 BBY6SOP-00026	SM 22 4500-H+ B m
Sulphate - Low Level	5	N/A	2018/07/27 BBY6SOP-00017	SM 22 4500-SO42- E m
Total Dissolved Solids (Filt. Residue)	3	2018/07/30	2018/07/31 BBY6SOP-00033	SM 22 2540 C m
Total Dissolved Solids (Filt. Residue)	2	2018/07/31	2018/08/03 BBY6SOP-00033	SM 22 2540 C m
Carbon (Total Organic) (1, 6)	4	N/A	2018/07/31 CAL SOP-00077	MMCW 119 1996 m
Carbon (Total Organic) (1, 6)	1	N/A	2018/08/01 CAL SOP-00077	MMCW 119 1996 m
Total Suspended Solids-Low Level	5	2018/07/28	2018/07/30 BBY6SOP-00034	SM 22 2540 D
Free (WAD) Cyanide (2)	5	N/A	2018/08/01 CAM SOP-00457	OMOE E3015 5 m

Remarks:

Your Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Your C.O.C. #: 560074-01-01, 560074-02-01

Attention: David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
2289 BURRARD STREET
VANCOUVER, BC
CANADA V6J 3H9

Report Date: 2018/08/03

Report #: R2599622

Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B862160

Received: 2018/07/25, 10:20

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Maxxam's profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Maxxam in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected.

Maxxam Analytics' liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Maxxam has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Maxxam, unless otherwise agreed in writing.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

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

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

- (1) This test was performed by Maxxam Calgary Environmental
- (2) This test was performed by Maxxam Ontario (From Burnaby)
- (3) DOC present in the sample should be considered as non-purgeable DOC. Dissolved > Total Imbalance: Whenever applicable, Dissolved > Total for any parameter that falls within method uncertainty for duplicates is likely equivalent. If RPD is >20% samples were reanalyzed and confirmed.
- (4) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).
- (5) The BC-MOE and APHA Standard Method require pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the BC-MOE/APHA Standard Method holding time.
- (6) TOC present in the sample should be considered as non-purgeable TOC.

Encryption Key



Maxxam

03 Aug 2018 14:45:05

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Diana Cruz, Project Manager

Email: DCruz@maxxam.ca

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Maxxam Job #: B862160
Report Date: 2018/08/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TY2542			TY2542			TY2543		
Sampling Date		2018/07/24 11:30			2018/07/24 11:30			2018/07/24 11:50		
COC Number		560074-01-01			560074-01-01			560074-01-01		
	UNITS	CC-0.5	RDL	QC Batch	CC-0.5 Lab-Dup	RDL	QC Batch	CC-3.5	RDL	QC Batch
Parameter										
ORP	mV	291		9081594	287		9081594	283		9081594
Calculated Parameters										
Filter and HNO3 Preservation	N/A	LAB		9080871				LAB		9080871
Nitrate (N)	mg/L	0.205	0.0020	9080295				0.247	0.0020	9080295
Misc. Inorganics										
Fluoride (F)	mg/L	0.076	0.010	9081683				0.064	0.010	9081683
Free Cyanide	mg/L	<0.0010	0.0010	9088593	<0.0010	0.0010	9088593	<0.0010	0.0010	9088593
Dissolved Organic Carbon (C)	mg/L	13	0.50	9083820				10	0.50	9083820
Alkalinity (Total as CaCO3)	mg/L	43.3	0.50	9084497				72.9	0.50	9084497
Total Organic Carbon (C)	mg/L	13	0.50	9083817				11	0.50	9083817
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	9084497				<0.50	0.50	9084497
Bicarbonate (HCO3)	mg/L	52.9	0.50	9084497				88.9	0.50	9084497
Carbonate (CO3)	mg/L	<0.50	0.50	9084497				<0.50	0.50	9084497
Hydroxide (OH)	mg/L	<0.50	0.50	9084497				<0.50	0.50	9084497
Anions										
Dissolved Sulphate (SO4)	mg/L	36.6	0.50	9081615				68.6	0.50	9081615
Dissolved Chloride (Cl)	mg/L	0.98	0.50	9081614				0.91	0.50	9081614
Nutrients										
Total Ammonia (N)	mg/L	<0.0050	0.0050	9082946				<0.0050	0.0050	9082946
Nitrate plus Nitrite (N)	mg/L	0.205	0.0020	9081470				0.247	0.0020	9081470
Nitrite (N)	mg/L	<0.0020	0.0020	9081475				<0.0020	0.0020	9081475
Physical Properties										
Conductivity	uS/cm	176	1.0	9084498				284	1.0	9084498
pH	pH	7.55		9084496				7.90		9084496
Physical Properties										
Total Suspended Solids	mg/L	1.5	1.0	9082478				2.6	1.0	9082478
Total Dissolved Solids	mg/L	124	10	9082983				190	10	9082980
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B862160
Report Date: 2018/08/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TY2544		TY2555		TY2556		
Sampling Date		2018/07/24 10:15		2018/07/24 10:40		2018/07/24 09:15		
COC Number		560074-01-01		560074-02-01		560074-02-01		
	UNITS	CC-4.5	QC Batch	LATTE MIX	QC Batch	DUP	RDL	QC Batch
Parameter								
ORP	mV	287	9081594	290	9081594	294		9081594
Calculated Parameters								
Filter and HNO3 Preservation	N/A	LAB	9080871	LAB	9080871	LAB		9080871
Nitrate (N)	mg/L	0.187	9080295	0.217	9080295	0.187	0.0020	9080295
Misc. Inorganics								
Fluoride (F)	mg/L	0.071	9081683	0.074	9081683	0.071	0.010	9081683
Free Cyanide	mg/L	<0.0010	9088593	<0.0010	9088593	<0.0010	0.0010	9088593
Dissolved Organic Carbon (C)	mg/L	12	9083309	13	9083820	12	0.50	9083820
Alkalinity (Total as CaCO3)	mg/L	48.9	9084497	47.8	9084497	45.7	0.50	9084497
Total Organic Carbon (C)	mg/L	12	9086567	12	9083817	12	0.50	9083821
Alkalinity (PP as CaCO3)	mg/L	<0.50	9084497	<0.50	9084497	<0.50	0.50	9084497
Bicarbonate (HCO3)	mg/L	59.6	9084497	58.4	9084497	55.8	0.50	9084497
Carbonate (CO3)	mg/L	<0.50	9084497	<0.50	9084497	<0.50	0.50	9084497
Hydroxide (OH)	mg/L	<0.50	9084497	<0.50	9084497	<0.50	0.50	9084497
Anions								
Dissolved Sulphate (SO4)	mg/L	42.3	9081615	44.6	9081615	42.3	0.50	9081615
Dissolved Chloride (Cl)	mg/L	1.0	9081614	1.0	9081614	1.1	0.50	9081614
Nutrients								
Total Ammonia (N)	mg/L	<0.0050	9082946	<0.0050	9082946	<0.0050	0.0050	9082946
Nitrate plus Nitrite (N)	mg/L	0.187	9081470	0.217	9081470	0.187	0.0020	9081470
Nitrite (N)	mg/L	<0.0020	9081475	<0.0020	9081475	<0.0020	0.0020	9081475
Physical Properties								
Conductivity	uS/cm	189	9084498	193	9084498	190	1.0	9084498
pH	pH	7.64	9084496	7.71	9084496	7.71		9084496
Physical Properties								
Total Suspended Solids	mg/L	1.0	9082478	1.0	9082478	<1.0	1.0	9082478
Total Dissolved Solids	mg/L	138	9082983	126	9082980	124	10	9082980
RDL = Reportable Detection Limit								

Maxxam Job #: B862160
Report Date: 2018/08/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TY2556		
Sampling Date		2018/07/24 09:15		
COC Number		560074-02-01		
	UNITS	DUP Lab-Dup	RDL	QC Batch
Misc. Inorganics				
Fluoride (F)	mg/L	0.070	0.010	9081683
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate				

Maxxam Job #: B862160
 Report Date: 2018/08/03

LORAX ENVIRONMENTAL SERVICES LTD.
 Client Project #: Gold Corp Coffee Creek-SW
 Site Location: COFFEE CREEK - SURFACE WATER
 Sampler Initials: MN

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TY2542		TY2543	TY2544	TY2555		
Sampling Date		2018/07/24 11:30		2018/07/24 11:50	2018/07/24 10:15	2018/07/24 10:40		
COC Number		560074-01-01		560074-01-01	560074-01-01	560074-02-01		
	UNITS	CC-0.5	QC Batch	CC-3.5	CC-4.5	LATTE MIX	RDL	QC Batch
Calculated Parameters								
Dissolved Hardness (CaCO3)	mg/L	83.6	9079797	135	88.4	88.5	0.50	9079797
Elements								
Dissolved Mercury (Hg)	ug/L	0.0041	9081286	0.0039	0.0035	0.0040	0.0020	9081311
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	ug/L	86.0	9083578	51.7	72.3	81.2	0.50	9083578
Dissolved Antimony (Sb)	ug/L	0.124	9083578	0.097	0.116	0.124	0.020	9083578
Dissolved Arsenic (As)	ug/L	0.439	9083578	0.323	0.419	0.443	0.020	9083578
Dissolved Barium (Ba)	ug/L	43.5	9083578	53.3	50.6	45.4	0.020	9083578
Dissolved Beryllium (Be)	ug/L	0.014	9083578	0.014	0.014	0.013	0.010	9083578
Dissolved Bismuth (Bi)	ug/L	<0.0050	9083578	<0.0050	<0.0050	<0.0050	0.0050	9083578
Dissolved Boron (B)	ug/L	<10	9083578	<10	<10	<10	10	9083578
Dissolved Cadmium (Cd)	ug/L	0.0088	9083578	0.0058	0.0097	0.0086	0.0050	9083578
Dissolved Chromium (Cr)	ug/L	0.35	9083578	0.23	0.28	0.32	0.10	9083578
Dissolved Cobalt (Co)	ug/L	0.0571	9083578	0.0414	0.0502	0.0521	0.0050	9083578
Dissolved Copper (Cu)	ug/L	2.52	9083578	1.47	2.31	2.44	0.050	9083578
Dissolved Iron (Fe)	ug/L	56.3	9083578	23.7	42.7	52.3	1.0	9083578
Dissolved Lead (Pb)	ug/L	<0.0050	9083578	<0.0050	<0.0050	<0.0050	0.0050	9083578
Dissolved Lithium (Li)	ug/L	1.23	9083578	0.59	0.73	1.05	0.50	9083578
Dissolved Manganese (Mn)	ug/L	3.79	9083578	0.564	3.81	3.21	0.050	9083578
Dissolved Molybdenum (Mo)	ug/L	0.670	9083578	0.287	0.637	0.643	0.050	9083578
Dissolved Nickel (Ni)	ug/L	1.11	9083578	0.534	0.950	0.982	0.020	9083578
Dissolved Phosphorus (P)	ug/L	<2.0	9083578	<2.0	<2.0	<2.0	2.0	9083578
Dissolved Selenium (Se)	ug/L	0.085	9083578	0.081	0.082	0.090	0.040	9083578
Dissolved Silicon (Si)	ug/L	5590	9083578	4860	5190	5220	50	9083578
Dissolved Silver (Ag)	ug/L	<0.0050	9083578	<0.0050	<0.0050	<0.0050	0.0050	9083578
Dissolved Strontium (Sr)	ug/L	104	9083578	269	126	125	0.050	9083578
Dissolved Thallium (Tl)	ug/L	0.0046	9083578	0.0031	0.0041	0.0044	0.0020	9083578
Dissolved Tin (Sn)	ug/L	<0.20	9083578	<0.20	<0.20	<0.20	0.20	9083578
Dissolved Titanium (Ti)	ug/L	0.85	9083578	<0.50	0.84	0.90	0.50	9083578
Dissolved Uranium (U)	ug/L	4.91	9083578	6.22	3.17	4.80	0.0020	9083578
Dissolved Vanadium (V)	ug/L	0.46	9083578	0.32	0.39	0.48	0.20	9083578
RDL = Reportable Detection Limit								

Maxxam Job #: B862160
Report Date: 2018/08/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TY2542		TY2543	TY2544	TY2555		
Sampling Date		2018/07/24 11:30		2018/07/24 11:50	2018/07/24 10:15	2018/07/24 10:40		
COC Number		560074-01-01		560074-01-01	560074-01-01	560074-02-01		
	UNITS	CC-0.5	QC Batch	CC-3.5	CC-4.5	LATTE MIX	RDL	QC Batch
Dissolved Zinc (Zn)	ug/L	0.31	9083578	0.18	0.36	0.36	0.10	9083578
Dissolved Zirconium (Zr)	ug/L	0.47	9083578	0.52	0.48	0.47	0.10	9083578
Dissolved Calcium (Ca)	mg/L	20.7	9079994	36.4	22.4	22.4	0.050	9079994
Dissolved Magnesium (Mg)	mg/L	7.75	9079994	10.8	7.87	7.93	0.050	9079994
Dissolved Potassium (K)	mg/L	1.23	9079994	2.11	1.36	1.32	0.050	9079994
Dissolved Sodium (Na)	mg/L	3.92	9079994	3.74	3.71	3.84	0.050	9079994
Dissolved Sulphur (S)	mg/L	12.7	9079994	20.8	13.0	13.5	3.0	9079994
RDL = Reportable Detection Limit								

Maxxam Job #: B862160
Report Date: 2018/08/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TY2556			TY2556		
Sampling Date		2018/07/24 09:15			2018/07/24 09:15		
COC Number		560074-02-01			560074-02-01		
	UNITS	DUP	RDL	QC Batch	DUP Lab-Dup	RDL	QC Batch
Calculated Parameters							
Dissolved Hardness (CaCO3)	mg/L	88.2	0.50	9079797			
Elements							
Dissolved Mercury (Hg)	ug/L	0.0039	0.0020	9083569	0.0035	0.0020	9083569
Dissolved Metals by ICPMS							
Dissolved Aluminum (Al)	ug/L	70.8	0.50	9083578			
Dissolved Antimony (Sb)	ug/L	0.116	0.020	9083578			
Dissolved Arsenic (As)	ug/L	0.425	0.020	9083578			
Dissolved Barium (Ba)	ug/L	50.7	0.020	9083578			
Dissolved Beryllium (Be)	ug/L	0.015	0.010	9083578			
Dissolved Bismuth (Bi)	ug/L	<0.0050	0.0050	9083578			
Dissolved Boron (B)	ug/L	<10	10	9083578			
Dissolved Cadmium (Cd)	ug/L	0.0086	0.0050	9083578			
Dissolved Chromium (Cr)	ug/L	0.28	0.10	9083578			
Dissolved Cobalt (Co)	ug/L	0.0582	0.0050	9083578			
Dissolved Copper (Cu)	ug/L	2.32	0.050	9083578			
Dissolved Iron (Fe)	ug/L	41.7	1.0	9083578			
Dissolved Lead (Pb)	ug/L	<0.0050	0.0050	9083578			
Dissolved Lithium (Li)	ug/L	0.66	0.50	9083578			
Dissolved Manganese (Mn)	ug/L	3.09	0.050	9083578			
Dissolved Molybdenum (Mo)	ug/L	0.626	0.050	9083578			
Dissolved Nickel (Ni)	ug/L	0.961	0.020	9083578			
Dissolved Phosphorus (P)	ug/L	<2.0	2.0	9083578			
Dissolved Selenium (Se)	ug/L	0.080	0.040	9083578			
Dissolved Silicon (Si)	ug/L	5070	50	9083578			
Dissolved Silver (Ag)	ug/L	<0.0050	0.0050	9083578			
Dissolved Strontium (Sr)	ug/L	123	0.050	9083578			
Dissolved Thallium (Tl)	ug/L	0.0043	0.0020	9083578			
Dissolved Tin (Sn)	ug/L	<0.20	0.20	9083578			
Dissolved Titanium (Ti)	ug/L	0.80	0.50	9083578			
Dissolved Uranium (U)	ug/L	2.76	0.0020	9083578			
RDL = Reportable Detection Limit							
Lab-Dup = Laboratory Initiated Duplicate							

Maxxam Job #: B862160
Report Date: 2018/08/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TY2556			TY2556		
Sampling Date		2018/07/24 09:15			2018/07/24 09:15		
COC Number		560074-02-01			560074-02-01		
	UNITS	DUP	RDL	QC Batch	DUP Lab-Dup	RDL	QC Batch
Dissolved Vanadium (V)	ug/L	0.42	0.20	9083578			
Dissolved Zinc (Zn)	ug/L	0.28	0.10	9083578			
Dissolved Zirconium (Zr)	ug/L	0.43	0.10	9083578			
Dissolved Calcium (Ca)	mg/L	22.3	0.050	9079994			
Dissolved Magnesium (Mg)	mg/L	7.89	0.050	9079994			
Dissolved Potassium (K)	mg/L	1.38	0.050	9079994			
Dissolved Sodium (Na)	mg/L	3.62	0.050	9079994			
Dissolved Sulphur (S)	mg/L	13.3	3.0	9079994			
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate							

Maxxam Job #: B862160
Report Date: 2018/08/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		TY2542		TY2543	TY2544		TY2555		
Sampling Date		2018/07/24 11:30		2018/07/24 11:50	2018/07/24 10:15		2018/07/24 10:40		
COC Number		560074-01-01		560074-01-01	560074-01-01		560074-02-01		
	UNITS	CC-0.5	QC Batch	CC-3.5	CC-4.5	QC Batch	LATTE MIX	RDL	QC Batch
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	80.8	9080811	133	85.9	9080811	85.6	0.50	9080811
Elements									
Total Mercury (Hg)	ug/L	0.0046	9081280	0.0079	0.0041	9081330	0.0039	0.0020	9081256
Total Metals by ICPMS									
Total Aluminum (Al)	ug/L	158	9081512	54.1	96.4	9081512	111	0.50	9081512
Total Antimony (Sb)	ug/L	0.116	9081512	0.096	0.112	9081512	0.113	0.020	9081512
Total Arsenic (As)	ug/L	0.552	9081512	0.349	0.460	9081512	0.488	0.020	9081512
Total Barium (Ba)	ug/L	45.2	9081512	52.0	49.3	9081512	45.0	0.020	9081512
Total Beryllium (Be)	ug/L	0.017	9081512	0.012	0.013	9081512	0.014	0.010	9081512
Total Bismuth (Bi)	ug/L	<0.0050	9081512	<0.0050	<0.0050	9081512	<0.0050	0.0050	9081512
Total Boron (B)	ug/L	<10	9081512	<10	<10	9081512	<10	10	9081512
Total Cadmium (Cd)	ug/L	0.0118	9081512	0.0051	0.0092	9081512	0.0094	0.0050	9081512
Total Chromium (Cr)	ug/L	0.47	9081512	0.23	0.37	9081512	0.39	0.10	9081512
Total Cobalt (Co)	ug/L	0.123	9081512	0.0478	0.0827	9081512	0.0729	0.0050	9081512
Total Copper (Cu)	ug/L	2.72	9081512	1.46	2.30	9081512	2.40	0.050	9081512
Total Iron (Fe)	ug/L	189	9081512	35.1	101	9081512	110	1.0	9081512
Total Lead (Pb)	ug/L	0.0591	9081512	0.0076	0.0231	9081512	0.0238	0.0050	9081512
Total Lithium (Li)	ug/L	1.22	9081512	0.66	0.79	9081512	1.10	0.50	9081512
Total Manganese (Mn)	ug/L	10.5	9081512	1.52	6.37	9081512	6.38	0.050	9081512
Total Molybdenum (Mo)	ug/L	0.684	9081512	0.269	0.623	9081512	0.628	0.050	9081512
Total Nickel (Ni)	ug/L	1.18	9081512	0.601	0.987	9081512	1.06	0.020	9081512
Total Phosphorus (P)	ug/L	7.7	9081512	<2.0	2.1	9081512	2.6	2.0	9081512
Total Selenium (Se)	ug/L	0.096	9081512	0.076	0.087	9081512	0.090	0.040	9081512
Total Silicon (Si)	ug/L	5250	9081512	4660	4930	9081512	4990	50	9081512
Total Silver (Ag)	ug/L	<0.0050	9081512	<0.0050	<0.0050	9081512	<0.0050	0.0050	9081512
Total Strontium (Sr)	ug/L	103	9081512	263	120	9081512	120	0.050	9081512
Total Thallium (Tl)	ug/L	0.0067	9081512	0.0026	0.0052	9081512	0.0059	0.0020	9081512
Total Tin (Sn)	ug/L	<0.20	9081512	<0.20	<0.20	9081512	<0.20	0.20	9081512
Total Titanium (Ti)	ug/L	6.15	9081512	0.68	3.49	9081512	2.66	0.50	9081512
Total Uranium (U)	ug/L	5.13	9081512	5.97	3.11	9081512	4.97	0.0020	9081512
Total Vanadium (V)	ug/L	0.77	9081512	0.27	0.51	9081512	0.59	0.20	9081512
RDL = Reportable Detection Limit									

Maxxam Job #: B862160
Report Date: 2018/08/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		TY2542		TY2543	TY2544		TY2555		
Sampling Date		2018/07/24 11:30		2018/07/24 11:50	2018/07/24 10:15		2018/07/24 10:40		
COC Number		560074-01-01		560074-01-01	560074-01-01		560074-02-01		
	UNITS	CC-0.5	QC Batch	CC-3.5	CC-4.5	QC Batch	LATTE MIX	RDL	QC Batch
Total Zinc (Zn)	ug/L	0.75	9081512	0.19	0.44	9081512	0.53	0.10	9081512
Total Zirconium (Zr)	ug/L	0.48	9081512	0.48	0.47	9081512	0.46	0.10	9081512
Total Calcium (Ca)	mg/L	20.6	9079937	36.3	22.3	9079937	22.0	0.050	9079937
Total Magnesium (Mg)	mg/L	7.15	9079937	10.4	7.35	9079937	7.43	0.050	9079937
Total Potassium (K)	mg/L	1.22	9079937	2.12	1.31	9079937	1.29	0.050	9079937
Total Sodium (Na)	mg/L	3.64	9079937	3.47	3.42	9079937	3.57	0.050	9079937
Total Sulphur (S)	mg/L	13.0	9079937	21.0	13.6	9079937	13.6	3.0	9079937
RDL = Reportable Detection Limit									

Maxxam Job #: B862160
Report Date: 2018/08/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		TY2556		
Sampling Date		2018/07/24 09:15		
COC Number		560074-02-01		
	UNITS	DUP	RDL	QC Batch
Calculated Parameters				
Total Hardness (CaCO3)	mg/L	87.5	0.50	9080811
Elements				
Total Mercury (Hg)	ug/L	0.0033	0.0020	9081280
Total Metals by ICPMS				
Total Aluminum (Al)	ug/L	153	0.50	9081512
Total Antimony (Sb)	ug/L	0.115	0.020	9081512
Total Arsenic (As)	ug/L	0.521	0.020	9081512
Total Barium (Ba)	ug/L	52.2	0.020	9081512
Total Beryllium (Be)	ug/L	0.021	0.010	9081512
Total Bismuth (Bi)	ug/L	<0.0050	0.0050	9081512
Total Boron (B)	ug/L	<10	10	9081512
Total Cadmium (Cd)	ug/L	0.0106	0.0050	9081512
Total Chromium (Cr)	ug/L	0.44	0.10	9081512
Total Cobalt (Co)	ug/L	0.138	0.0050	9081512
Total Copper (Cu)	ug/L	2.53	0.050	9081512
Total Iron (Fe)	ug/L	188	1.0	9081512
Total Lead (Pb)	ug/L	0.0704	0.0050	9081512
Total Lithium (Li)	ug/L	0.80	0.50	9081512
Total Manganese (Mn)	ug/L	10.7	0.050	9081512
Total Molybdenum (Mo)	ug/L	0.644	0.050	9081512
Total Nickel (Ni)	ug/L	1.05	0.020	9081512
Total Phosphorus (P)	ug/L	12.7	2.0	9081512
Total Selenium (Se)	ug/L	0.088	0.040	9081512
Total Silicon (Si)	ug/L	5070	50	9081512
Total Silver (Ag)	ug/L	<0.0050	0.0050	9081512
Total Strontium (Sr)	ug/L	119	0.050	9081512
Total Thallium (Tl)	ug/L	0.0071	0.0020	9081512
Total Tin (Sn)	ug/L	<0.20	0.20	9081512
Total Titanium (Ti)	ug/L	6.72	0.50	9081512
Total Uranium (U)	ug/L	2.87	0.0020	9081512
Total Vanadium (V)	ug/L	0.79	0.20	9081512
RDL = Reportable Detection Limit				

Maxxam Job #: B862160
Report Date: 2018/08/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		TY2556		
Sampling Date		2018/07/24 09:15		
COC Number		560074-02-01		
	UNITS	DUP	RDL	QC Batch
Total Zinc (Zn)	ug/L	0.86	0.10	9081512
Total Zirconium (Zr)	ug/L	0.45	0.10	9081512
Total Calcium (Ca)	mg/L	22.7	0.050	9079937
Total Magnesium (Mg)	mg/L	7.50	0.050	9079937
Total Potassium (K)	mg/L	1.36	0.050	9079937
Total Sodium (Na)	mg/L	3.46	0.050	9079937
Total Sulphur (S)	mg/L	13.2	3.0	9079937
RDL = Reportable Detection Limit				

Maxxam Job #: B862160
Report Date: 2018/08/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

GENERAL COMMENTS

Results relate only to the items tested.

Maxxam Job #: B862160
Report Date: 2018/08/03

QUALITY ASSURANCE REPORT

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9081256	Total Mercury (Hg)	2018/07/27	111	80 - 120	99	80 - 120	<0.0020	ug/L	NC	20
9081280	Total Mercury (Hg)	2018/07/27	100	80 - 120	99	80 - 120	<0.0020	ug/L	NC	20
9081286	Dissolved Mercury (Hg)	2018/07/27	95	80 - 120	96	80 - 120	<0.0020	ug/L	NC	20
9081311	Dissolved Mercury (Hg)	2018/07/27	103	80 - 120	99	80 - 120	<0.0020	ug/L	NC	20
9081330	Total Mercury (Hg)	2018/07/27	99	80 - 120	98	80 - 120	<0.0020	ug/L	NC	20
9081470	Nitrate plus Nitrite (N)	2018/07/27	105	80 - 120	108	80 - 120	<0.0020	mg/L	NC	25
9081475	Nitrite (N)	2018/07/27	98	80 - 120	105	80 - 120	<0.0020	mg/L	NC	25
9081512	Total Aluminum (Al)	2018/07/28	98	80 - 120	101	80 - 120	<0.50	ug/L	0.18	20
9081512	Total Antimony (Sb)	2018/07/28	96	80 - 120	100	80 - 120	<0.020	ug/L	2.6	20
9081512	Total Arsenic (As)	2018/07/28	101	80 - 120	102	80 - 120	<0.020	ug/L	0.14	20
9081512	Total Barium (Ba)	2018/07/28	90	80 - 120	98	80 - 120	<0.020	ug/L	1.9	20
9081512	Total Beryllium (Be)	2018/07/28	93	80 - 120	97	80 - 120	<0.010	ug/L	14	20
9081512	Total Bismuth (Bi)	2018/07/28	93	80 - 120	99	80 - 120	<0.0050	ug/L	NC	20
9081512	Total Boron (B)	2018/07/28	93	80 - 120	97	80 - 120	<10	ug/L	NC	20
9081512	Total Cadmium (Cd)	2018/07/28	98	80 - 120	99	80 - 120	<0.0050	ug/L	NC	20
9081512	Total Chromium (Cr)	2018/07/28	97	80 - 120	99	80 - 120	<0.10	ug/L	9.6	20
9081512	Total Cobalt (Co)	2018/07/28	93	80 - 120	97	80 - 120	<0.0050	ug/L	2.3	20
9081512	Total Copper (Cu)	2018/07/28	92	80 - 120	97	80 - 120	<0.050	ug/L	0.062	20
9081512	Total Iron (Fe)	2018/07/28	95	80 - 120	101	80 - 120	<1.0	ug/L	3.6	20
9081512	Total Lead (Pb)	2018/07/28	95	80 - 120	99	80 - 120	<0.0050	ug/L	15	20
9081512	Total Lithium (Li)	2018/07/28	95	80 - 120	98	80 - 120	<0.50	ug/L	1.3	20
9081512	Total Manganese (Mn)	2018/07/28	95	80 - 120	100	80 - 120	<0.050	ug/L	0.70	20
9081512	Total Molybdenum (Mo)	2018/07/28	101	80 - 120	103	80 - 120	<0.050	ug/L	2.5	20
9081512	Total Nickel (Ni)	2018/07/28	93	80 - 120	98	80 - 120	<0.020	ug/L	2.4	20
9081512	Total Phosphorus (P)	2018/07/28	102	80 - 120	102	80 - 120	<2.0	ug/L	NC	20
9081512	Total Selenium (Se)	2018/07/28	98	80 - 120	97	80 - 120	<0.040	ug/L	4.9	20
9081512	Total Silicon (Si)	2018/07/28	NC	80 - 120	102	80 - 120	<50	ug/L	3.7	20
9081512	Total Silver (Ag)	2018/07/28	97	80 - 120	98	80 - 120	<0.0050	ug/L	NC	20
9081512	Total Strontium (Sr)	2018/07/28	NC	80 - 120	101	80 - 120	<0.050	ug/L	1.5	20
9081512	Total Thallium (Tl)	2018/07/28	96	80 - 120	100	80 - 120	<0.0020	ug/L	12	20
9081512	Total Tin (Sn)	2018/07/28	96	80 - 120	100	80 - 120	<0.20	ug/L	NC	20

Maxxam Job #: B862160
Report Date: 2018/08/03

QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9081512	Total Titanium (Ti)	2018/07/28	98	80 - 120	103	80 - 120	<0.50	ug/L	NC	20
9081512	Total Uranium (U)	2018/07/28	98	80 - 120	101	80 - 120	<0.0020	ug/L	1.0	20
9081512	Total Vanadium (V)	2018/07/28	98	80 - 120	100	80 - 120	<0.20	ug/L	4.6	20
9081512	Total Zinc (Zn)	2018/07/28	97	80 - 120	99	80 - 120	<0.10	ug/L	11	20
9081512	Total Zirconium (Zr)	2018/07/28	98	80 - 120	98	80 - 120	<0.10	ug/L	2.4	20
9081594	ORP	2018/07/30							1.4	20
9081614	Dissolved Chloride (Cl)	2018/07/27	96	80 - 120	96	80 - 120	0.64, RDL=0.50	mg/L	5.8	20
9081615	Dissolved Sulphate (SO4)	2018/07/27	NC	80 - 120	97	80 - 120	<0.50	mg/L	4.0	20
9081683	Fluoride (F)	2018/07/27	100	80 - 120	104	80 - 120	<0.010	mg/L	1.4	20
9082478	Total Suspended Solids	2018/07/30			100	80 - 120	<1.0	mg/L		
9082946	Total Ammonia (N)	2018/07/27			101	80 - 120	<0.0050	mg/L		
9082980	Total Dissolved Solids	2018/07/31	103	80 - 120	97	80 - 120	<10	mg/L	9.5	20
9082983	Total Dissolved Solids	2018/08/03	101	80 - 120	93	80 - 120	<10	mg/L	NC	20
9083309	Dissolved Organic Carbon (C)	2018/07/30	115	80 - 120	101	80 - 120	<0.50	mg/L	9.9	20
9083569	Dissolved Mercury (Hg)	2018/07/30	92	80 - 120	98	80 - 120	<0.0020	ug/L	9.8	20
9083578	Dissolved Aluminum (Al)	2018/07/30	100	80 - 120	102	80 - 120	<0.50	ug/L	6.4	20
9083578	Dissolved Antimony (Sb)	2018/07/30	98	80 - 120	99	80 - 120	<0.020	ug/L	NC	20
9083578	Dissolved Arsenic (As)	2018/07/30	103	80 - 120	102	80 - 120	<0.020	ug/L	NC	20
9083578	Dissolved Barium (Ba)	2018/07/30	94	80 - 120	99	80 - 120	<0.020	ug/L	NC	20
9083578	Dissolved Beryllium (Be)	2018/07/30	97	80 - 120	98	80 - 120	<0.010	ug/L	NC	20
9083578	Dissolved Bismuth (Bi)	2018/07/30	92	80 - 120	94	80 - 120	<0.0050	ug/L	NC	20
9083578	Dissolved Boron (B)	2018/07/30	105	80 - 120	106	80 - 120	<10	ug/L	NC	20
9083578	Dissolved Cadmium (Cd)	2018/07/30	97	80 - 120	99	80 - 120	<0.0050	ug/L	NC	20
9083578	Dissolved Chromium (Cr)	2018/07/30	96	80 - 120	99	80 - 120	<0.10	ug/L	NC	20
9083578	Dissolved Cobalt (Co)	2018/07/30	95	80 - 120	100	80 - 120	<0.0050	ug/L	NC	20
9083578	Dissolved Copper (Cu)	2018/07/30	90	80 - 120	98	80 - 120	<0.050	ug/L	4.7 (1)	20
9083578	Dissolved Iron (Fe)	2018/07/30	94	80 - 120	101	80 - 120	<1.0	ug/L	NC	20
9083578	Dissolved Lead (Pb)	2018/07/30	95	80 - 120	96	80 - 120	<0.0050	ug/L	NC	20
9083578	Dissolved Lithium (Li)	2018/07/30	97	80 - 120	101	80 - 120	<0.50	ug/L	NC	20
9083578	Dissolved Manganese (Mn)	2018/07/30	NC	80 - 120	103	80 - 120	<0.050	ug/L	NC	20
9083578	Dissolved Molybdenum (Mo)	2018/07/30	107	80 - 120	102	80 - 120	<0.050	ug/L	NC	20

Maxxam Job #: B862160
Report Date: 2018/08/03

QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9083578	Dissolved Nickel (Ni)	2018/07/30	93	80 - 120	99	80 - 120	<0.020	ug/L	NC	20
9083578	Dissolved Phosphorus (P)	2018/07/30	104	80 - 120	102	80 - 120	<2.0	ug/L	NC	20
9083578	Dissolved Selenium (Se)	2018/07/30	101	80 - 120	100	80 - 120	<0.040	ug/L	NC	20
9083578	Dissolved Silicon (Si)	2018/07/30	103	80 - 120	108	80 - 120	<50	ug/L	NC	20
9083578	Dissolved Silver (Ag)	2018/07/30	96	80 - 120	98	80 - 120	<0.0050	ug/L	NC	20
9083578	Dissolved Strontium (Sr)	2018/07/30	NC	80 - 120	103	80 - 120	<0.050	ug/L	NC	20
9083578	Dissolved Thallium (Tl)	2018/07/30	93	80 - 120	92	80 - 120	<0.0020	ug/L	NC	20
9083578	Dissolved Tin (Sn)	2018/07/30	99	80 - 120	100	80 - 120	<0.20	ug/L	NC	20
9083578	Dissolved Titanium (Ti)	2018/07/30	102	80 - 120	101	80 - 120	<0.50	ug/L	NC	20
9083578	Dissolved Uranium (U)	2018/07/30	101	80 - 120	99	80 - 120	<0.0020	ug/L	NC	20
9083578	Dissolved Vanadium (V)	2018/07/30	98	80 - 120	100	80 - 120	<0.20	ug/L	NC	20
9083578	Dissolved Zinc (Zn)	2018/07/30	90	80 - 120	98	80 - 120	<0.10	ug/L	NC	20
9083578	Dissolved Zirconium (Zr)	2018/07/30	106	80 - 120	101	80 - 120	<0.10	ug/L	NC	20
9083817	Total Organic Carbon (C)	2018/07/31	118	80 - 120	102	80 - 120	<0.50	mg/L	1.2	20
9083820	Dissolved Organic Carbon (C)	2018/07/31	114	80 - 120	96	80 - 120	<0.50	mg/L	11	20
9083821	Total Organic Carbon (C)	2018/07/31	109	80 - 120	103	80 - 120	<0.50	mg/L		
9084496	pH	2018/07/30			101	97 - 103			0	20
9084497	Alkalinity (PP as CaCO3)	2018/07/30					<0.50	mg/L		
9084497	Alkalinity (Total as CaCO3)	2018/07/30			94	80 - 120	<0.50	mg/L		
9084497	Bicarbonate (HCO3)	2018/07/30					<0.50	mg/L		
9084497	Carbonate (CO3)	2018/07/30					<0.50	mg/L		
9084497	Hydroxide (OH)	2018/07/30					<0.50	mg/L		
9084498	Conductivity	2018/07/30			99	80 - 120	<1.0	uS/cm		
9086567	Total Organic Carbon (C)	2018/08/01	105	80 - 120	102	80 - 120	<0.50	mg/L	0.31	20

Maxxam Job #: B862160
Report Date: 2018/08/03

QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9088593	Free Cyanide	2018/08/01	101	80 - 120	101	80 - 120	<0.0010	mg/L	NC	20

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

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

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

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Test repeated.

Maxxam Job #: B862160
Report Date: 2018/08/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Brad Newman, Scientific Specialist



Ghayasuddin Khan, M.Sc., P.Chem., QP, Scientific Specialist, Inorganics



Harry (Peng) Liang, Senior Analyst



Rob Reinert, B.Sc., Scientific Specialist

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



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INVOICE TO:		Report Information:		Project Information:	
Company Name: #3604 LORAX ENVIRONMENTAL SERVICES LTD.	Company Name: Aida Piaseczny	Company Name: David Flather	Quotation #: B40231	Bottle Order #: 560074	
Contact Name: Aida Piaseczny	Contact Name: Aida Piaseczny	Contact Name: David Flather	P.O. #:	Chain Of Custody Record	
Address: 2289 BURRARD STREET	Address: 2289 BURRARD STREET	Address: VANCOUVER BC V6J 3H9	Project #: Gold Corp Coffee Creek-SW	Project Manager: Diana Cruz	
Phone: (604) 688-7173	Phone: (604) 688-7173	Phone: (604) 688-7175	Site #:	DMS60074-01-01	
Email: aida.piaseczny@lorax.ca	Email: aida.piaseczny@lorax.ca	Email: shukling.ng@lorax.ca	Sampled By:	Diana Cruz	



3862160_COC

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	Analysis Requested										# of Bottles	Comments
							Routine (Alk-LL, EC-LL, NH4-LL, pH, TDS)	TSS-Low Level	Anions (LL Cl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals Incl. CV Hg	Low Level Total Metals Incl. CV Hg	CRP			
1	CC-0.5	24/07/18	11:30	W	N	N	/	/	/	/	/	/	/	/	13			
2	CC-1.5			W			/	/	/	/	/	/	/	/				
3	CC-3.5	24/07/18	11:50	W	N	N	/	/	/	/	/	/	/	/	13	RECEIVED IN WHITEHORSE		
4	CC-4.5	24/07/18	10:15	W	N	N	/	/	/	/	/	/	/	/	13	BY: Slyemo@1020		
5	HC-2.5			W			/	/	/	/	/	/	/	/		2018-07-25		
6	HC-5.0			W			/	/	/	/	/	/	/	/		TEMP: 4.4.15		
7	YT-24			W			/	/	/	/	/	/	/	/				
8	YT-24 Mix			W			/	/	/	/	/	/	/	/				
9	Coffee Mix			W			/	/	/	/	/	/	/	/				
10	Halfway Mix			W			/	/	/	/	/	/	/	/				

Turnaround Time (TAT) Required
 Please provide advance notice for rush projects

Regular (Standard) TAT
 (will be applied if Rush TAT is not specified)
 Standard TAT = 5-7 Working days for most tests.
 Please note: Standard TAT for certain tests such as BOD and Dissolved Metals are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
 Date Required: _____ Time Required: _____

Rush Confirmation Number: _____ (call us for #)

RELINQUISHED BY: (Signature/Print) <i>Mitch Nordin</i> MITCH NORDIN	Date: (YY/MM/DD) 18/07/25	Time 9:20	RECEIVED BY: (Signature/Print) <i>M. Pedro</i> M. PEDRO	Date: (YY/MM/DD) 2018/07/26	Time 15:05	# Jars used and not submitted	Lab Use Only		
							Time Sensitive <input type="checkbox"/>	Temperature (°C) on Receipt 4.6.5	Custody Seal Intact on Receipt? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD, AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

0076

INVOICE TO:		Report Information		Project Information	
Company Name	#3604 LORAX ENVIRONMENTAL SERVICES LTD.	Company Name		Quotation #	B40231
Contact Name	Aida Piaseczny	Contact Name	David Flather	P.O. #	
Address	2289 BURRARD STREET VANCOUVER BC V6J 3H9	Address		Project #	Gold Corp Coffee Creek-SW
Phone	(604) 688-7173 Fax: (604) 688-7175	Phone		Project Name	
Email	aida.piaseczny@lorax.ca; shukling.ng@lorax.ca	Email	David.Flather@lorax.ca	Site #	
				Sampled By	



8862160_COC

Order #:
560074
Project Manager
Diana Cruz

Regulatory Criteria	Special Instructions	Analysis Requested	Tumaround Time (TAT) Required
		Regulated Drinking Water? (Y/N) <input type="checkbox"/> Metals Field Filtered? (Y/N) <input type="checkbox"/> Routine (Alk-L, EC-L, NH4-L, pH, TDS) <input type="checkbox"/> TSS-Low Level <input type="checkbox"/> Anions (LL, Cl, F, NO2, NO3, SO4) <input type="checkbox"/> Cyanide - WAD <input type="checkbox"/> TOC <input type="checkbox"/> DOC <input type="checkbox"/> Low Level Dissolved Metals incl. CV Hg <input type="checkbox"/> Low Level Total Metals incl. CV Hg <input type="checkbox"/> ORP <input type="checkbox"/>	Please provide advance notice for rush projects Regular (Standard) TAT <input checked="" type="checkbox"/> (will be applied if Rush TAT is not specified) Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details. Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____ Rush Confirmation Number: _____ (call lab for #)

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 10°C) from time of sampling until delivery to maxxam

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	Routine (Alk-L, EC-L, NH4-L, pH, TDS)	TSS-Low Level	Anions (LL, Cl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP
1 SID#149899	Latte Mix	24/07/18	10:40	W	N	N	/	/	/	/	/	/	/	/	/
2 SID#208506	Dup	24/07/18	9:15	W	N	N	/	/	/	/	/	/	/	/	/
3 SID#214391	Field Blank			W											
4															
5															
6															
7															
8															
9															
10															

of Bottles: 13
Comments: RECEIVED IN WHITEHORSE BY: [Signature] @1020 2018-07-23 TEMP: 41415

RELINQUISHED BY: (Signature/Print) MITCH NORDIN	Date: (YY/MM/DD) 18/07/18	Time 9:30	RECEIVED BY: (Signature/Print) JIM PEDRO TACK	Date: (YY/MM/DD) 2018/07/18	Time 15:05	# Jars used and not submitted	Lab Use Only
							Time Sensitive <input type="checkbox"/> Temperature (°C) on Receipt: 4.65 Custody Seal Intact on Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS. IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

0076

Your Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

Attention: David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
2289 BURRARD STREET
VANCOUVER, BC
CANADA V6J 3H9

Your C.O.C. #: 559732-01-01, 559732-03-01, 559732-04-01

Report Date: 2018/08/03

Report #: R2599619

Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B862188

Received: 2018/07/25, 10:20

Sample Matrix: Water
Samples Received: 10

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Alkalinity - Low Level	10	N/A	2018/07/30	BBY6SOP-00026	SM 22 2320 B m
Chloride - Low Level	10	N/A	2018/07/27	BBY6SOP-00011	SM 22 4500-Cl- E m
Carbon (DOC) (1, 3)	10	N/A	2018/08/01	EENVSOP-00060	MMCW 119 1996 m
Conductance - Low Level	10	N/A	2018/07/30	BBY6SOP-00026	SM 22 2510 B m
Fluoride - Low Level	10	N/A	2018/07/27	BBY6SOP-00048	SM 22 4500-F C m
Hardness Total (calculated as CaCO3) (4)	8	N/A	2018/07/30	BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO3) (4)	2	N/A	2018/07/31	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3)	10	N/A	2018/07/30	BBY WI-00033	Auto Calc
Mercury (Dissolved) by CVAf	7	N/A	2018/07/27	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Dissolved) by CVAf	2	N/A	2018/07/30	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Dissolved) by CVAf	1	N/A	2018/08/02	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Total) by CVAf	8	2018/07/27	2018/07/27	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Total) by CVAf	1	2018/07/30	2018/07/30	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Total) by CVAf	1	2018/08/02	2018/08/02	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	10	N/A	2018/07/30	BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (dissolved)	10	N/A	2018/07/27	BBY7SOP-00002	EPA 6020b R2 m
Elements by ICPMS Digested LL (total)	2	2018/07/27	2018/07/30	BBY7SOP-00003,	EPA 6020b R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total)	8	N/A	2018/07/30	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (total)	2	N/A	2018/07/31	BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (total)	8	N/A	2018/07/28	BBY7SOP-00002	EPA 6020b R2 m
Ammonia-N Low Level (Preserved)	9	N/A	2018/07/27	BBY6SOP-00009	EPA 350.1 m
Ammonia-N Low Level (Preserved)	1	N/A	2018/08/01	BBY6SOP-00009	EPA 350.1 m
Nitrate+Nitrite (N) (low level)	10	N/A	2018/07/27	BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrite (N) (low level)	10	N/A	2018/07/27	BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrogen - Nitrate (as N) Low Level Calc	10	N/A	2018/07/28	BBY WI-00033	Auto Calc
ORP Analysis on Water by ARD LAB	10	N/A	2018/07/30	BBY0SOP-00004	SM 22 2580 B
Filter and HNO3 Preserve for Metals	10	N/A	2018/07/27	BBY7 WI-00004	BCMOE Reqs 08/14
pH Water (5)	10	N/A	2018/07/30	BBY6SOP-00026	SM 22 4500-H+ B m

Your Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

Attention: David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
2289 BURRARD STREET
VANCOUVER, BC
CANADA V6J 3H9

Your C.O.C. #: 559732-01-01, 559732-03-01, 559732-04-01

Report Date: 2018/08/03
Report #: R2599619
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B862188

Received: 2018/07/25, 10:20

Sample Matrix: Water
Samples Received: 10

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Sulphate - Low Level	10	N/A	2018/07/27	BBY6SOP-00017	SM 22 4500-SO42- E m
Total Dissolved Solids (Filt. Residue)	6	2018/07/30	2018/08/03	BBY6SOP-00033	SM 22 2540 C m
Total Dissolved Solids (Filt. Residue)	4	2018/07/31	2018/08/03	BBY6SOP-00033	SM 22 2540 C m
Carbon (Total Organic) (1, 6)	10	N/A	2018/08/01	EENSOP-00060	MMCW 119 1996 m
Total Suspended Solids-Low Level	9	2018/07/28	2018/07/30	BBY6SOP-00034	SM 22 2540 D
Total Suspended Solids-Low Level	1	2018/07/31	2018/08/01	BBY6SOP-00034	SM 22 2540 D
Free (WAD) Cyanide (2)	10	N/A	2018/08/01	CAM SOP-00457	OMOE E3015 5 m

Remarks:

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Maxxam's profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Maxxam in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected.

Maxxam Analytics' liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Maxxam has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Maxxam, unless otherwise agreed in writing.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

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

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

Attention: David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
2289 BURRARD STREET
VANCOUVER, BC
CANADA V6J 3H9

Your C.O.C. #: 559732-01-01, 559732-03-01, 559732-04-01

Report Date: 2018/08/03
Report #: R2599619
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CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B862188

Received: 2018/07/25, 10:20

- (1) This test was performed by Maxxam Edmonton Environmental
- (2) This test was performed by Maxxam Ontario (From Burnaby)
- (3) DOC present in the sample should be considered as non-purgeable DOC. Dissolved > Total Imbalance: Whenever applicable, Dissolved >Total for any parameter that falls within method uncertainty for duplicates is likely equivalent. If RPD is >20% samples were reanalyzed and confirmed.
- (4) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).
- (5) The BC-MOE and APHA Standard Method require pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the BC-MOE/APHA Standard Method holding time.
- (6) TOC present in the sample should be considered as non-purgeable TOC.

Encryption Key



Maxxam
03 Aug 2018 14:45:05

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Diana Cruz, Project Manager
Email: DCruz@maxxam.ca
Phone# (604) 734 7276

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This report has been generated and distributed using a secure automated process.
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Job #: B862188
Report Date: 2018/08/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TY2657			TY2657			TY2658		
Sampling Date		2018/07/24 11:30			2018/07/24 11:30			2018/07/24 11:50		
COC Number		559732-01-01			559732-01-01			559732-01-01		
	UNITS	CC-0.5	RDL	QC Batch	CC-0.5 Lab-Dup	RDL	QC Batch	CC-3.5	RDL	QC Batch
Parameter										
ORP	mV	287		9081598	290		9081598	278		9081598
Calculated Parameters										
Filter and HNO3 Preservation	N/A	LAB		9080871				LAB		9080871
Nitrate (N)	mg/L	0.209	0.0020	9080295				0.250	0.0020	9080295
Misc. Inorganics										
Fluoride (F)	mg/L	0.078	0.010	9082409				0.062	0.010	9082409
Free Cyanide	mg/L	<0.0010	0.0010	9088593				<0.0010	0.0010	9088593
Dissolved Organic Carbon (C)	mg/L	12	0.50	9087439	13	0.50	9087439	10	0.50	9087439
Alkalinity (Total as CaCO3)	mg/L	42.1	0.50	9084491	44.3	0.50	9084491	71.0	0.50	9084491
Total Organic Carbon (C)	mg/L	12	0.50	9087668	12	0.50	9087668	11	0.50	9087668
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	9084491	<0.50	0.50	9084491	<0.50	0.50	9084491
Bicarbonate (HCO3)	mg/L	51.3	0.50	9084491	54.1	0.50	9084491	86.6	0.50	9084491
Carbonate (CO3)	mg/L	<0.50	0.50	9084491	<0.50	0.50	9084491	<0.50	0.50	9084491
Hydroxide (OH)	mg/L	<0.50	0.50	9084491	<0.50	0.50	9084491	<0.50	0.50	9084491
Anions										
Dissolved Sulphate (SO4)	mg/L	39.6	0.50	9081611	35.0	0.50	9081611	66.0	0.50	9081611
Dissolved Chloride (Cl)	mg/L	0.90	0.50	9081609	1.0	0.50	9081609	0.77	0.50	9081609
Nutrients										
Total Ammonia (N)	mg/L	0.0080	0.0050	9082946				<0.0050	0.0050	9082946
Nitrate plus Nitrite (N)	mg/L	0.209	0.0020	9081462				0.250	0.0020	9081462
Nitrite (N)	mg/L	<0.0020	0.0020	9081464				<0.0020	0.0020	9081464
Physical Properties										
Conductivity	uS/cm	174	1.0	9084492	175	1.0	9084492	278	1.0	9084492
pH	pH	7.54		9084488	7.60		9084488	7.86		9084488
Physical Properties										
Total Suspended Solids	mg/L	1.5	1.0	9082478				1.1	1.0	9082478
Total Dissolved Solids	mg/L	116	10	9082981				180	10	9082981
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B862188
Report Date: 2018/08/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TY2659			TY2659			TY2660		
Sampling Date		2018/07/24 10:15			2018/07/24 10:15			2018/07/24 12:25		
COC Number		559732-01-01			559732-01-01			559732-01-01		
	UNITS	CC-4.5	RDL	QC Batch	CC-4.5 Lab-Dup	RDL	QC Batch	CC-B	RDL	QC Batch
Parameter										
ORP	mV	286		9081598				273		9081598
Calculated Parameters										
Filter and HNO3 Preservation	N/A	LAB		9080871				LAB		9080871
Nitrate (N)	mg/L	0.191	0.0020	9080295				0.243	0.0020	9080295
Misc. Inorganics										
Fluoride (F)	mg/L	0.071	0.010	9082409	0.070	0.010	9082409	0.069	0.010	9082409
Free Cyanide	mg/L	<0.0010	0.0010	9088593				<0.0010	0.0010	9088593
Dissolved Organic Carbon (C)	mg/L	11	0.50	9087439				8.4	0.50	9087439
Alkalinity (Total as CaCO3)	mg/L	47.6	0.50	9084471				94.0	0.50	9084491
Total Organic Carbon (C)	mg/L	12	0.50	9087668				8.8	0.50	9087668
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	9084471				<0.50	0.50	9084491
Bicarbonate (HCO3)	mg/L	58.0	0.50	9084471				115	0.50	9084491
Carbonate (CO3)	mg/L	<0.50	0.50	9084471				<0.50	0.50	9084491
Hydroxide (OH)	mg/L	<0.50	0.50	9084471				<0.50	0.50	9084491
Anions										
Dissolved Sulphate (SO4)	mg/L	41.8	0.50	9081611				95.0	0.50	9081615
Dissolved Chloride (Cl)	mg/L	0.96	0.50	9081609				0.82	0.50	9081614
Nutrients										
Total Ammonia (N)	mg/L	<0.0050	0.0050	9082946				<0.0050	0.0050	9082946
Nitrate plus Nitrite (N)	mg/L	0.191	0.0020	9081462				0.243	0.0020	9081470
Nitrite (N)	mg/L	<0.0020	0.0020	9081464				<0.0020	0.0020	9081475
Physical Properties										
Conductivity	uS/cm	188	1.0	9084473				367	1.0	9084492
pH	pH	7.68		9084452				7.98		9084488
Physical Properties										
Total Suspended Solids	mg/L	1.3	1.0	9082478				<1.0	1.0	9082478
Total Dissolved Solids	mg/L	122	10	9082981				232	10	9082981
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B862188
Report Date: 2018/08/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TY2661		TY2664		TY2665	TY2666		
Sampling Date		2018/07/24 09:15		2018/07/24 10:40		2018/07/24 14:15	2018/07/24 14:05		
COC Number		559732-01-01		559732-03-01		559732-03-01	559732-03-01		
	UNITS	CC-X	QC Batch	LATTE MIX	QC Batch	ML-A	ML-B	RDL	QC Batch
Parameter									
ORP	mV	281	9081598	284	9081598	287	303		9081598
Calculated Parameters									
Filter and HNO ₃ Preservation	N/A	LAB	9080871	LAB	9080871	LAB	LAB		9080871
Nitrate (N)	mg/L	0.186	9080295	0.220	9080295	0.749	0.930	0.0020	9080295
Misc. Inorganics									
Fluoride (F)	mg/L	0.069	9082409	0.073	9082409	0.059	0.046	0.010	9082409
Free Cyanide	mg/L	<0.0010	9088593	<0.0010	9088593	<0.0010	<0.0010	0.0010	9088593
Dissolved Organic Carbon (C)	mg/L	11	9087439	12	9087439	11	12	0.50	9087439
Alkalinity (Total as CaCO ₃)	mg/L	48.6	9084491	47.3	9084491	68.3	34.7	0.50	9084491
Total Organic Carbon (C)	mg/L	12	9087668	13	9087668	11	13	0.50	9087668
Alkalinity (PP as CaCO ₃)	mg/L	<0.50	9084491	<0.50	9084491	<0.50	<0.50	0.50	9084491
Bicarbonate (HCO ₃)	mg/L	59.3	9084491	57.7	9084491	83.3	42.3	0.50	9084491
Carbonate (CO ₃)	mg/L	<0.50	9084491	<0.50	9084491	<0.50	<0.50	0.50	9084491
Hydroxide (OH)	mg/L	<0.50	9084491	<0.50	9084491	<0.50	<0.50	0.50	9084491
Anions									
Dissolved Sulphate (SO ₄)	mg/L	44.0	9081611	46.1	9081611	96.4	48.5	0.50	9081615
Dissolved Chloride (Cl)	mg/L	0.90	9081609	1.1	9081609	0.89	1.2	0.50	9081614
Nutrients									
Total Ammonia (N)	mg/L	<0.0050	9082946	<0.0050	9082946	0.0070	0.034	0.0050	9082946
Nitrate plus Nitrite (N)	mg/L	0.186	9081462	0.220	9081462	0.749	0.930	0.0020	9081470
Nitrite (N)	mg/L	<0.0020	9081464	<0.0020	9081464	<0.0020	<0.0020	0.0020	9081475
Physical Properties									
Conductivity	uS/cm	187	9084492	190	9084492	333	183	1.0	9084492
pH	pH	7.68	9084488	7.66	9084488	7.85	7.51		9084488
Physical Properties									
Total Suspended Solids	mg/L	<1.0	9082478	1.0	9082478	6.6	93.8	1.0	9082478
Total Dissolved Solids	mg/L	132	9082983	126	9082981	222	124	10	9082981
RDL = Reportable Detection Limit									

Maxxam Job #: B862188
Report Date: 2018/08/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TY2666			TY2667		TY2668		
Sampling Date		2018/07/24 14:05			2018/07/24 13:15		2018/07/24 11:50		
COC Number		559732-03-01			559732-03-01		559732-04-01		
	UNITS	ML-B Lab-Dup	RDL	QC Batch	ML-C (YT-24-2)	QC Batch	SAMPLE C	RDL	QC Batch
Parameter									
ORP	mV				295	9081598	292		9081598
Calculated Parameters									
Filter and HNO3 Preservation	N/A				LAB	9080871	LAB		9080871
Nitrate (N)	mg/L				1.25	9080295	0.249	0.0020	9080295
Misc. Inorganics									
Fluoride (F)	mg/L				0.037	9082409	0.061	0.010	9082409
Free Cyanide	mg/L				<0.0010	9088593	<0.0010	0.0010	9088593
Dissolved Organic Carbon (C)	mg/L				12	9087439	10	0.50	9087439
Alkalinity (Total as CaCO3)	mg/L				22.3	9084491	72.9	0.50	9084491
Total Organic Carbon (C)	mg/L				12	9087668	10	0.50	9087668
Alkalinity (PP as CaCO3)	mg/L				<0.50	9084491	<0.50	0.50	9084491
Bicarbonate (HCO3)	mg/L				27.3	9084491	89.0	0.50	9084491
Carbonate (CO3)	mg/L				<0.50	9084491	<0.50	0.50	9084491
Hydroxide (OH)	mg/L				<0.50	9084491	<0.50	0.50	9084491
Anions									
Dissolved Sulphate (SO4)	mg/L	46.6	0.50	9081615	<0.50	9081611	66.7	0.50	9081611
Dissolved Chloride (Cl)	mg/L	1.1	0.50	9081614	0.93	9081609	0.75	0.50	9081609
Nutrients									
Total Ammonia (N)	mg/L				<0.0050	9082946	0.0090	0.0050	9087332
Nitrate plus Nitrite (N)	mg/L				1.25	9081462	0.249	0.0020	9081462
Nitrite (N)	mg/L				<0.0020	9081464	<0.0020	0.0020	9081464
Physical Properties									
Conductivity	uS/cm				62.4	9084492	279	1.0	9084492
pH	pH				7.29	9084488	7.87		9084488
Physical Properties									
Total Suspended Solids	mg/L				8.2	9082478	<1.0	1.0	9085002
Total Dissolved Solids	mg/L				56	9082983	180	10	9082983
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B862188
Report Date: 2018/08/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TY2668		
Sampling Date		2018/07/24 11:50		
COC Number		559732-04-01		
	UNITS	SAMPLE C Lab-Dup	RDL	QC Batch
Nutrients				
Total Ammonia (N)	mg/L	<0.0050	0.0050	9087332
RDL = Reportable Detection Limit				
Lab-Dup = Laboratory Initiated Duplicate				

Maxxam Job #: B862188
Report Date: 2018/08/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TY2657	TY2658		TY2659		TY2660		
Sampling Date		2018/07/24 11:30	2018/07/24 11:50		2018/07/24 10:15		2018/07/24 12:25		
COC Number		559732-01-01	559732-01-01		559732-01-01		559732-01-01		
	UNITS	CC-0.5	CC-3.5	QC Batch	CC-4.5	QC Batch	CC-B	RDL	QC Batch
Calculated Parameters									
Dissolved Hardness (CaCO3)	mg/L	83.9	142	9079797	91.6	9079797	192	0.50	9079797
Elements									
Dissolved Mercury (Hg)	ug/L	0.0043	0.0038	9081311	<0.0020	9088411	0.0039	0.0020	9081311
Dissolved Metals by ICPMS									
Dissolved Aluminum (Al)	ug/L	82.8	49.9	9081287	69.1	9081287	58.4	0.50	9081287
Dissolved Antimony (Sb)	ug/L	0.133	0.108	9081287	0.125	9081287	0.120	0.020	9081287
Dissolved Arsenic (As)	ug/L	0.461	0.347	9081287	0.412	9081287	0.577	0.020	9081287
Dissolved Barium (Ba)	ug/L	41.7	53.5	9081287	49.8	9081287	50.0	0.020	9081287
Dissolved Beryllium (Be)	ug/L	<0.010	<0.010	9081287	<0.010	9081287	0.021	0.010	9081287
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	9081287	<0.0050	9081287	<0.0050	0.0050	9081287
Dissolved Boron (B)	ug/L	<10	<10	9081287	<10	9081287	<10	10	9081287
Dissolved Cadmium (Cd)	ug/L	0.0083	<0.0050	9081287	0.0109	9081287	0.0066	0.0050	9081287
Dissolved Chromium (Cr)	ug/L	0.31	0.24	9081287	0.31	9081287	0.22	0.10	9081287
Dissolved Cobalt (Co)	ug/L	0.0558	0.0427	9081287	0.0539	9081287	0.0406	0.0050	9081287
Dissolved Copper (Cu)	ug/L	2.44	1.51	9081287	2.29	9081287	1.45	0.050	9081287
Dissolved Iron (Fe)	ug/L	59.5	24.8	9081287	44.3	9081287	30.7	1.0	9081287
Dissolved Lead (Pb)	ug/L	<0.0050	<0.0050	9081287	0.0066	9081287	<0.0050	0.0050	9081287
Dissolved Lithium (Li)	ug/L	1.24	0.71	9081287	0.89	9081287	1.67	0.50	9081287
Dissolved Manganese (Mn)	ug/L	3.57	0.529	9081287	3.76	9081287	4.93	0.050	9081287
Dissolved Molybdenum (Mo)	ug/L	0.668	0.282	9081287	0.635	9081287	0.313	0.050	9081287
Dissolved Nickel (Ni)	ug/L	1.12	0.592	9081287	0.957	9081287	0.517	0.020	9081287
Dissolved Phosphorus (P)	ug/L	<2.0	2.4	9081287	3.9	9081287	<2.0	2.0	9081287
Dissolved Selenium (Se)	ug/L	0.090	0.072	9081287	0.094	9081287	0.088	0.040	9081287
Dissolved Silicon (Si)	ug/L	5450	4880	9081287	5220	9081287	5450	50	9081287
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	9081287	<0.0050	9081287	<0.0050	0.0050	9081287
Dissolved Strontium (Sr)	ug/L	98.6	266	9081287	120	9081287	427	0.050	9081287
Dissolved Thallium (Tl)	ug/L	0.0052	0.0020	9081287	0.0036	9081287	0.0042	0.0020	9081287
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	9081287	<0.20	9081287	<0.20	0.20	9081287
Dissolved Titanium (Ti)	ug/L	0.99	<0.50	9081287	<0.50	9081287	<0.50	0.50	9081287
Dissolved Uranium (U)	ug/L	4.38	6.04	9081287	2.59	9081287	10.5	0.0020	9081287
Dissolved Vanadium (V)	ug/L	0.51	0.31	9081287	0.42	9081287	0.35	0.20	9081287
RDL = Reportable Detection Limit									

Maxxam Job #: B862188
Report Date: 2018/08/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TY2657	TY2658		TY2659		TY2660		
Sampling Date		2018/07/24 11:30	2018/07/24 11:50		2018/07/24 10:15		2018/07/24 12:25		
COC Number		559732-01-01	559732-01-01		559732-01-01		559732-01-01		
	UNITS	CC-0.5	CC-3.5	QC Batch	CC-4.5	QC Batch	CC-B	RDL	QC Batch
Dissolved Zinc (Zn)	ug/L	0.33	0.22	9081287	0.31	9081287	0.24	0.10	9081287
Dissolved Zirconium (Zr)	ug/L	0.48	0.54	9081287	0.49	9081287	0.47	0.10	9081287
Dissolved Calcium (Ca)	mg/L	21.2	38.0	9079994	23.4	9079994	51.0	0.050	9079994
Dissolved Magnesium (Mg)	mg/L	7.48	11.3	9079994	8.07	9079994	15.7	0.050	9079994
Dissolved Potassium (K)	mg/L	1.15	2.10	9079994	1.33	9079994	3.27	0.050	9079994
Dissolved Sodium (Na)	mg/L	3.84	3.88	9079994	3.79	9079994	3.79	0.050	9079994
Dissolved Sulphur (S)	mg/L	13.3	23.0	9079994	13.8	9079994	31.3	3.0	9079994
RDL = Reportable Detection Limit									

Maxxam Job #: B862188
Report Date: 2018/08/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TY2661	TY2664		TY2665		TY2666		
Sampling Date		2018/07/24 09:15	2018/07/24 10:40		2018/07/24 14:15		2018/07/24 14:05		
COC Number		559732-01-01	559732-03-01		559732-03-01		559732-03-01		
	UNITS	CC-X	LATTE MIX	QC Batch	ML-A	QC Batch	ML-B	RDL	QC Batch
Calculated Parameters									
Dissolved Hardness (CaCO3)	mg/L	91.1	90.8	9079797	164	9079797	85.6	0.50	9079797
Elements									
Dissolved Mercury (Hg)	ug/L	0.0047	0.0056	9081311	0.0030	9083569	0.0047	0.0020	9081311
Dissolved Metals by ICPMS									
Dissolved Aluminum (Al)	ug/L	71.0	80.3	9081287	40.3	9081287	37.7	0.50	9081287
Dissolved Antimony (Sb)	ug/L	0.124	0.121	9081287	0.227	9081287	0.316	0.020	9081287
Dissolved Arsenic (As)	ug/L	0.402	0.437	9081287	0.563	9081287	1.02	0.020	9081287
Dissolved Barium (Ba)	ug/L	50.8	43.4	9081287	83.2	9081287	66.2	0.020	9081287
Dissolved Beryllium (Be)	ug/L	<0.010	<0.010	9081287	0.013	9081287	0.021	0.010	9081287
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	9081287	<0.0050	9081287	<0.0050	0.0050	9081287
Dissolved Boron (B)	ug/L	<10	<10	9081287	<10	9081287	<10	10	9081287
Dissolved Cadmium (Cd)	ug/L	0.0081	0.0066	9081287	<0.0050	9081287	<0.0050	0.0050	9081287
Dissolved Chromium (Cr)	ug/L	0.31	0.30	9081287	0.30	9081287	0.36	0.10	9081287
Dissolved Cobalt (Co)	ug/L	0.0503	0.0537	9081287	0.109	9081287	0.227	0.0050	9081287
Dissolved Copper (Cu)	ug/L	2.29	2.33	9081287	1.58	9081287	1.83	0.050	9081287
Dissolved Iron (Fe)	ug/L	42.5	53.6	9081287	60.9	9081287	200	1.0	9081287
Dissolved Lead (Pb)	ug/L	<0.0050	0.0051	9081287	0.0117	9081287	0.0477	0.0050	9081287
Dissolved Lithium (Li)	ug/L	0.84	1.24	9081287	0.64	9081287	<0.50	0.50	9081287
Dissolved Manganese (Mn)	ug/L	2.99	3.04	9081287	9.44	9081287	33.2	0.050	9081287
Dissolved Molybdenum (Mo)	ug/L	0.645	0.603	9081287	0.619	9081287	0.536	0.050	9081287
Dissolved Nickel (Ni)	ug/L	1.01	1.03	9081287	0.730	9081287	0.808	0.020	9081287
Dissolved Phosphorus (P)	ug/L	<2.0	2.0	9081287	3.0	9081287	7.8	2.0	9081287
Dissolved Selenium (Se)	ug/L	0.092	0.083	9081287	0.049	9081287	0.050	0.040	9081287
Dissolved Silicon (Si)	ug/L	5210	5380	9081287	4360	9081287	4490	50	9081287
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	9081287	<0.0050	9081287	<0.0050	0.0050	9081287
Dissolved Strontium (Sr)	ug/L	121	118	9081287	303	9081287	115	0.050	9081287
Dissolved Thallium (Tl)	ug/L	0.0042	0.0052	9081287	0.0029	9081287	0.0024	0.0020	9081287
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	9081287	<0.20	9081287	<0.20	0.20	9081287
Dissolved Titanium (Ti)	ug/L	<0.50	0.69	9081287	<0.50	9081287	0.99	0.50	9081287
Dissolved Uranium (U)	ug/L	2.42	4.69	9081287	8.24	9081287	1.58	0.0020	9081287
Dissolved Vanadium (V)	ug/L	0.38	0.44	9081287	0.54	9081287	1.50	0.20	9081287
RDL = Reportable Detection Limit									

Maxxam Job #: B862188
Report Date: 2018/08/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TY2661	TY2664		TY2665		TY2666		
Sampling Date		2018/07/24 09:15	2018/07/24 10:40		2018/07/24 14:15		2018/07/24 14:05		
COC Number		559732-01-01	559732-03-01		559732-03-01		559732-03-01		
	UNITS	CC-X	LATTE MIX	QC Batch	ML-A	QC Batch	ML-B	RDL	QC Batch
Dissolved Zinc (Zn)	ug/L	0.32	0.30	9081287	0.30	9081287	0.12	0.10	9081287
Dissolved Zirconium (Zr)	ug/L	0.49	0.49	9081287	0.62	9081287	0.73	0.10	9081287
Dissolved Calcium (Ca)	mg/L	23.1	23.0	9079994	42.9	9079994	25.6	0.050	9079994
Dissolved Magnesium (Mg)	mg/L	8.09	8.09	9079994	13.7	9079994	5.26	0.050	9079994
Dissolved Potassium (K)	mg/L	1.34	1.27	9079994	1.66	9079994	0.988	0.050	9079994
Dissolved Sodium (Na)	mg/L	3.84	3.91	9079994	4.37	9079994	2.09	0.050	9079994
Dissolved Sulphur (S)	mg/L	14.9	14.7	9079994	31.6	9079994	15.5	3.0	9079994
RDL = Reportable Detection Limit									

Maxxam Job #: B862188
Report Date: 2018/08/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TY2667		TY2668		
Sampling Date		2018/07/24 13:15		2018/07/24 11:50		
COC Number		559732-03-01		559732-04-01		
	UNITS	ML-C (YT-24-2)	QC Batch	SAMPLE C	RDL	QC Batch
Calculated Parameters						
Dissolved Hardness (CaCO3)	mg/L	30.2	9079797	133	0.50	9079797
Elements						
Dissolved Mercury (Hg)	ug/L	0.0061	9083569	0.0042	0.0020	9081311
Dissolved Metals by ICPMS						
Dissolved Aluminum (Al)	ug/L	114	9081287	48.0	0.50	9081287
Dissolved Antimony (Sb)	ug/L	0.622	9081287	0.104	0.020	9081287
Dissolved Arsenic (As)	ug/L	0.712	9081287	0.353	0.020	9081287
Dissolved Barium (Ba)	ug/L	24.8	9081287	53.1	0.020	9081287
Dissolved Beryllium (Be)	ug/L	0.021	9081287	<0.010	0.010	9081287
Dissolved Bismuth (Bi)	ug/L	<0.0050	9081287	<0.0050	0.0050	9081287
Dissolved Boron (B)	ug/L	<10	9081287	<10	10	9081287
Dissolved Cadmium (Cd)	ug/L	0.0059	9081287	0.0055	0.0050	9081287
Dissolved Chromium (Cr)	ug/L	0.49	9081287	0.26	0.10	9081287
Dissolved Cobalt (Co)	ug/L	0.0780	9081287	0.0440	0.0050	9081287
Dissolved Copper (Cu)	ug/L	1.84	9081287	1.51	0.050	9081287
Dissolved Iron (Fe)	ug/L	70.7	9081287	24.9	1.0	9081287
Dissolved Lead (Pb)	ug/L	0.0089	9081287	0.0120	0.0050	9081287
Dissolved Lithium (Li)	ug/L	<0.50	9081287	0.67	0.50	9081287
Dissolved Manganese (Mn)	ug/L	1.63	9081287	0.541	0.050	9081287
Dissolved Molybdenum (Mo)	ug/L	0.158	9081287	0.279	0.050	9081287
Dissolved Nickel (Ni)	ug/L	0.815	9081287	0.599	0.020	9081287
Dissolved Phosphorus (P)	ug/L	<2.0	9081287	3.4	2.0	9081287
Dissolved Selenium (Se)	ug/L	0.053	9081287	0.076	0.040	9081287
Dissolved Silicon (Si)	ug/L	4360	9081287	4670	50	9081287
Dissolved Silver (Ag)	ug/L	<0.0050	9081287	<0.0050	0.0050	9081287
Dissolved Strontium (Sr)	ug/L	29.1	9081287	267	0.050	9081287
Dissolved Thallium (Tl)	ug/L	0.0025	9081287	0.0025	0.0020	9081287
Dissolved Tin (Sn)	ug/L	<0.20	9081287	<0.20	0.20	9081287
Dissolved Titanium (Ti)	ug/L	0.87	9081287	<0.50	0.50	9081287
Dissolved Uranium (U)	ug/L	0.206	9081287	5.81	0.0020	9081287
Dissolved Vanadium (V)	ug/L	0.45	9081287	0.29	0.20	9081287
RDL = Reportable Detection Limit						

Maxxam Job #: B862188
Report Date: 2018/08/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TY2667		TY2668		
Sampling Date		2018/07/24 13:15		2018/07/24 11:50		
COC Number		559732-03-01		559732-04-01		
	UNITS	ML-C (YT-24-2)	QC Batch	SAMPLE C	RDL	QC Batch
Dissolved Zinc (Zn)	ug/L	0.27	9081287	0.53 (1)	0.10	9081287
Dissolved Zirconium (Zr)	ug/L	0.67	9081287	0.56	0.10	9081287
Dissolved Calcium (Ca)	mg/L	9.28	9079994	36.2	0.050	9079994
Dissolved Magnesium (Mg)	mg/L	1.71	9079994	10.5	0.050	9079994
Dissolved Potassium (K)	mg/L	0.657	9079994	2.12	0.050	9079994
Dissolved Sodium (Na)	mg/L	1.16	9079994	3.54	0.050	9079994
Dissolved Sulphur (S)	mg/L	<3.0	9079994	22.0	3.0	9079994
RDL = Reportable Detection Limit						
(1) Dissolved greater than total. Reanalysis yields similar results.						

Maxxam Job #: B862188
Report Date: 2018/08/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		TY2657		TY2658		TY2659		TY2660		
Sampling Date		2018/07/24 11:30		2018/07/24 11:50		2018/07/24 10:15		2018/07/24 12:25		
COC Number		559732-01-01		559732-01-01		559732-01-01		559732-01-01		
	UNITS	CC-0.5	QC Batch	CC-3.5	QC Batch	CC-4.5	QC Batch	CC-B	RDL	QC Batch
Calculated Parameters										
Total Hardness (CaCO3)	mg/L	81.1	9079298	138	9079298	88.9	9079298	181	0.50	9079298
Elements										
Total Mercury (Hg)	ug/L	0.0035	9081256	0.0038	9081280	<0.0020	9086916	0.0039	0.0020	9081256
Total Metals by ICPMS										
Total Aluminum (Al)	ug/L	131	9081512	55.7	9081512	92.4	9081512	60.8	0.50	9081512
Total Antimony (Sb)	ug/L	0.121	9081512	0.096	9081512	0.107	9081512	0.112	0.020	9081512
Total Arsenic (As)	ug/L	0.545	9081512	0.353	9081512	0.449	9081512	0.578	0.020	9081512
Total Barium (Ba)	ug/L	44.2	9081512	54.5	9081512	51.5	9081512	49.4	0.020	9081512
Total Beryllium (Be)	ug/L	0.019	9081512	<0.010	9081512	0.011	9081512	0.014	0.010	9081512
Total Bismuth (Bi)	ug/L	<0.0050	9081512	<0.0050	9081512	<0.0050	9081512	<0.0050	0.0050	9081512
Total Boron (B)	ug/L	<10	9081512	<10	9081512	<10	9081512	<10	10	9081512
Total Cadmium (Cd)	ug/L	0.0148	9081512	0.0050	9081512	0.0088	9081512	<0.0050	0.0050	9081512
Total Chromium (Cr)	ug/L	0.43	9081512	0.29	9081512	0.32	9081512	0.22	0.10	9081512
Total Cobalt (Co)	ug/L	0.102	9081512	0.0450	9081512	0.0729	9081512	0.0421	0.0050	9081512
Total Copper (Cu)	ug/L	2.63	9081512	1.48	9081512	2.40	9081512	1.46	0.050	9081512
Total Iron (Fe)	ug/L	164	9081512	35.9	9081512	88.4	9081512	38.1	1.0	9081512
Total Lead (Pb)	ug/L	0.0695	9081512	0.0102	9081512	0.0202	9081512	0.0087	0.0050	9081512
Total Lithium (Li)	ug/L	1.25	9081512	0.66	9081512	0.81	9081512	1.55	0.50	9081512
Total Manganese (Mn)	ug/L	8.15	9081512	1.58	9081512	5.65	9081512	5.23	0.050	9081512
Total Molybdenum (Mo)	ug/L	0.672	9081512	0.290	9081512	0.605	9081512	0.320	0.050	9081512
Total Nickel (Ni)	ug/L	1.17	9081512	0.598	9081512	0.986	9081512	0.490	0.020	9081512
Total Phosphorus (P)	ug/L	5.2	9081512	<2.0	9081512	<2.0	9081512	<2.0	2.0	9081512
Total Selenium (Se)	ug/L	0.088	9081512	0.071	9081512	0.083	9081512	0.077	0.040	9081512
Total Silicon (Si)	ug/L	5330	9081512	4690	9081512	4920	9081512	5030	50	9081512
Total Silver (Ag)	ug/L	<0.0050	9081512	<0.0050	9081512	<0.0050	9081512	<0.0050	0.0050	9081512
Total Strontium (Sr)	ug/L	103	9081512	270	9081512	123	9081512	432	0.050	9081512
Total Thallium (Tl)	ug/L	0.0065	9081512	0.0030	9081512	0.0048	9081512	0.0031	0.0020	9081512
Total Tin (Sn)	ug/L	<0.20	9081512	<0.20	9081512	<0.20	9081512	<0.20	0.20	9081512
Total Titanium (Ti)	ug/L	4.29	9081512	0.94	9081512	2.47	9081512	1.02	0.50	9081512
Total Uranium (U)	ug/L	4.89	9081512	6.09	9081512	2.72	9081512	10.3	0.0020	9081512
Total Vanadium (V)	ug/L	0.82	9081512	0.37	9081512	0.51	9081512	0.36	0.20	9081512
RDL = Reportable Detection Limit										

Maxxam Job #: B862188
Report Date: 2018/08/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		TY2657		TY2658		TY2659		TY2660		
Sampling Date		2018/07/24 11:30		2018/07/24 11:50		2018/07/24 10:15		2018/07/24 12:25		
COC Number		559732-01-01		559732-01-01		559732-01-01		559732-01-01		
	UNITS	CC-0.5	QC Batch	CC-3.5	QC Batch	CC-4.5	QC Batch	CC-B	RDL	QC Batch
Total Zinc (Zn)	ug/L	0.60	9081512	0.25	9081512	0.44	9081512	0.28	0.10	9081512
Total Zirconium (Zr)	ug/L	0.49	9081512	0.52	9081512	0.46	9081512	0.41	0.10	9081512
Total Calcium (Ca)	mg/L	20.7	9079937	37.5	9079937	22.7	9079937	48.7	0.050	9079937
Total Magnesium (Mg)	mg/L	7.13	9079937	10.7	9079937	7.80	9079937	14.5	0.050	9079937
Total Potassium (K)	mg/L	1.19	9079937	2.17	9079937	1.37	9079937	3.32	0.050	9079937
Total Sodium (Na)	mg/L	3.63	9079937	3.64	9079937	3.57	9079937	3.53	0.050	9079937
Total Sulphur (S)	mg/L	13.0	9079937	20.9	9079937	13.4	9079937	29.4	3.0	9079937
RDL = Reportable Detection Limit										

Maxxam Job #: B862188
Report Date: 2018/08/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		TY2660			TY2661		TY2664		
Sampling Date		2018/07/24 12:25			2018/07/24 09:15		2018/07/24 10:40		
COC Number		559732-01-01			559732-01-01		559732-03-01		
	UNITS	CC-B Lab-Dup	RDL	QC Batch	CC-X	QC Batch	LATTE MIX	RDL	QC Batch
Calculated Parameters									
Total Hardness (CaCO3)	mg/L				86.4	9079298	88.5	0.50	9079298
Elements									
Total Mercury (Hg)	ug/L				0.0073	9081330	0.0035	0.0020	9081256
Total Metals by ICPMS									
Total Aluminum (Al)	ug/L	60.7	0.50	9081512	93.2	9081512	97.1	0.50	9081512
Total Antimony (Sb)	ug/L	0.115	0.020	9081512	0.110	9081512	0.119	0.020	9081512
Total Arsenic (As)	ug/L	0.577	0.020	9081512	0.440	9081512	0.476	0.020	9081512
Total Barium (Ba)	ug/L	50.4	0.020	9081512	51.0	9081512	44.9	0.020	9081512
Total Beryllium (Be)	ug/L	0.016	0.010	9081512	<0.010	9081512	0.014	0.010	9081512
Total Bismuth (Bi)	ug/L	<0.0050	0.0050	9081512	<0.0050	9081512	<0.0050	0.0050	9081512
Total Boron (B)	ug/L	<10	10	9081512	<10	9081512	<10	10	9081512
Total Cadmium (Cd)	ug/L	0.0066	0.0050	9081512	0.0091	9081512	0.0075	0.0050	9081512
Total Chromium (Cr)	ug/L	0.24	0.10	9081512	0.62	9081512	0.34	0.10	9081512
Total Cobalt (Co)	ug/L	0.0431	0.0050	9081512	0.0809	9081512	0.0753	0.0050	9081512
Total Copper (Cu)	ug/L	1.46	0.050	9081512	2.42	9081512	2.50	0.050	9081512
Total Iron (Fe)	ug/L	36.8	1.0	9081512	101	9081512	95.1	1.0	9081512
Total Lead (Pb)	ug/L	0.0075	0.0050	9081512	0.0240	9081512	0.0152	0.0050	9081512
Total Lithium (Li)	ug/L	1.57	0.50	9081512	0.74	9081512	1.11	0.50	9081512
Total Manganese (Mn)	ug/L	5.20	0.050	9081512	5.75	9081512	5.42	0.050	9081512
Total Molybdenum (Mo)	ug/L	0.313	0.050	9081512	0.646	9081512	0.639	0.050	9081512
Total Nickel (Ni)	ug/L	0.502	0.020	9081512	1.08	9081512	1.06	0.020	9081512
Total Phosphorus (P)	ug/L	<2.0	2.0	9081512	<2.0	9081512	2.3	2.0	9081512
Total Selenium (Se)	ug/L	0.074	0.040	9081512	0.087	9081512	0.091	0.040	9081512
Total Silicon (Si)	ug/L	5210	50	9081512	4900	9081512	5000	50	9081512
Total Silver (Ag)	ug/L	<0.0050	0.0050	9081512	<0.0050	9081512	<0.0050	0.0050	9081512
Total Strontium (Sr)	ug/L	425	0.050	9081512	119	9081512	120	0.050	9081512
Total Thallium (Tl)	ug/L	0.0035	0.0020	9081512	0.0046	9081512	0.0053	0.0020	9081512
Total Tin (Sn)	ug/L	<0.20	0.20	9081512	<0.20	9081512	<0.20	0.20	9081512
Total Titanium (Ti)	ug/L	0.68	0.50	9081512	3.13	9081512	2.05	0.50	9081512
Total Uranium (U)	ug/L	10.2	0.0020	9081512	2.67	9081512	4.49	0.0020	9081512
RDL = Reportable Detection Limit									
Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B862188
Report Date: 2018/08/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		TY2660			TY2661		TY2664		
Sampling Date		2018/07/24 12:25			2018/07/24 09:15		2018/07/24 10:40		
COC Number		559732-01-01			559732-01-01		559732-03-01		
	UNITS	CC-B Lab-Dup	RDL	QC Batch	CC-X	QC Batch	LATTE MIX	RDL	QC Batch
Total Vanadium (V)	ug/L	0.34	0.20	9081512	0.51	9081512	0.61	0.20	9081512
Total Zinc (Zn)	ug/L	0.31	0.10	9081512	0.46	9081512	0.45	0.10	9081512
Total Zirconium (Zr)	ug/L	0.42	0.10	9081512	0.45	9081512	0.46	0.10	9081512
Total Calcium (Ca)	mg/L				22.4	9079937	22.8	0.050	9079937
Total Magnesium (Mg)	mg/L				7.41	9079937	7.65	0.050	9079937
Total Potassium (K)	mg/L				1.36	9079937	1.36	0.050	9079937
Total Sodium (Na)	mg/L				3.45	9079937	3.75	0.050	9079937
Total Sulphur (S)	mg/L				13.5	9079937	13.7	3.0	9079937
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B862188
Report Date: 2018/08/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		TY2665	TY2668		
Sampling Date		2018/07/24 14:15	2018/07/24 11:50		
COC Number		559732-03-01	559732-04-01		
	UNITS	ML-A	SAMPLE C	RDL	QC Batch
Calculated Parameters					
Total Hardness (CaCO3)	mg/L	166	138	0.50	9079298
Elements					
Total Mercury (Hg)	ug/L	<0.0020	0.0034	0.0020	9081280
Total Metals by ICPMS					
Total Aluminum (Al)	ug/L	423	59.2	0.50	9081512
Total Antimony (Sb)	ug/L	0.232	0.097	0.020	9081512
Total Arsenic (As)	ug/L	0.919	0.366	0.020	9081512
Total Barium (Ba)	ug/L	93.6	53.9	0.020	9081512
Total Beryllium (Be)	ug/L	0.043	<0.010	0.010	9081512
Total Bismuth (Bi)	ug/L	0.0092	<0.0050	0.0050	9081512
Total Boron (B)	ug/L	<10	<10	10	9081512
Total Cadmium (Cd)	ug/L	0.0206	<0.0050	0.0050	9081512
Total Chromium (Cr)	ug/L	1.13	0.26	0.10	9081512
Total Cobalt (Co)	ug/L	0.479	0.0483	0.0050	9081512
Total Copper (Cu)	ug/L	3.07	1.50	0.050	9081512
Total Iron (Fe)	ug/L	784	40.4	1.0	9081512
Total Lead (Pb)	ug/L	0.413	0.0129	0.0050	9081512
Total Lithium (Li)	ug/L	0.81	0.63	0.50	9081512
Total Manganese (Mn)	ug/L	20.8	1.49	0.050	9081512
Total Molybdenum (Mo)	ug/L	0.593	0.254	0.050	9081512
Total Nickel (Ni)	ug/L	1.77	0.631	0.020	9081512
Total Phosphorus (P)	ug/L	16.3	<2.0	2.0	9081512
Total Selenium (Se)	ug/L	0.056	0.070	0.040	9081512
Total Silicon (Si)	ug/L	4580	4730	50	9081512
Total Silver (Ag)	ug/L	<0.0050	<0.0050	0.0050	9081512
Total Strontium (Sr)	ug/L	319	265	0.050	9081512
Total Thallium (Tl)	ug/L	0.0049	0.0025	0.0020	9081512
Total Tin (Sn)	ug/L	<0.20	<0.20	0.20	9081512
Total Titanium (Ti)	ug/L	21.9	1.28	0.50	9081512
Total Uranium (U)	ug/L	9.11	5.96	0.0020	9081512
Total Vanadium (V)	ug/L	1.86	0.33	0.20	9081512
RDL = Reportable Detection Limit					

Maxxam Job #: B862188
Report Date: 2018/08/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		TY2665	TY2668		
Sampling Date		2018/07/24 14:15	2018/07/24 11:50		
COC Number		559732-03-01	559732-04-01		
	UNITS	ML-A	SAMPLE C	RDL	QC Batch
Total Zinc (Zn)	ug/L	2.41	0.27	0.10	9081512
Total Zirconium (Zr)	ug/L	0.65	0.51	0.10	9081512
Total Calcium (Ca)	mg/L	44.1	37.7	0.050	9079937
Total Magnesium (Mg)	mg/L	13.7	10.8	0.050	9079937
Total Potassium (K)	mg/L	1.76	2.16	0.050	9079937
Total Sodium (Na)	mg/L	4.39	3.63	0.050	9079937
Total Sulphur (S)	mg/L	29.2	20.4	3.0	9079937
RDL = Reportable Detection Limit					

Maxxam Job #: B862188
Report Date: 2018/08/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TY2666		TY2667		
Sampling Date		2018/07/24 14:05		2018/07/24 13:15		
COC Number		559732-03-01		559732-03-01		
	UNITS	ML-B	QC Batch	ML-C (YT-24-2)	RDL	QC Batch
Calculated Parameters						
Total Hardness (CaCO3)	mg/L	89.4	9079298	29.8	0.50	9079298
Elements						
Total Mercury (Hg)	ug/L	0.0022	9083485	0.0058	0.0020	9081256
Total Metals by ICPMS						
Total Aluminum (Al)	ug/L	1630	9082293	176	3.0	9082293
Total Antimony (Sb)	ug/L	0.337	9082293	0.632	0.020	9082293
Total Arsenic (As)	ug/L	2.20	9082293	0.810	0.020	9082293
Total Barium (Ba)	ug/L	114	9082293	26.6	0.050	9082293
Total Beryllium (Be)	ug/L	0.142	9082293	0.032	0.010	9082293
Total Bismuth (Bi)	ug/L	0.015	9082293	<0.010	0.010	9082293
Total Boron (B)	ug/L	<10	9082293	<10	10	9082293
Total Cadmium (Cd)	ug/L	0.0496	9082293	0.0089	0.0050	9082293
Total Chromium (Cr)	ug/L	3.16	9082293	0.63	0.10	9082293
Total Cobalt (Co)	ug/L	1.62	9082293	0.108	0.010	9082293
Total Copper (Cu)	ug/L	6.66	9082293	2.08	0.10	9082293
Total Iron (Fe)	ug/L	2800	9082293	143	5.0	9082293
Total Lead (Pb)	ug/L	1.50	9082293	0.058	0.020	9082293
Total Lithium (Li)	ug/L	1.24	9082293	<0.50	0.50	9082293
Total Manganese (Mn)	ug/L	70.9	9082293	3.29	0.10	9082293
Total Molybdenum (Mo)	ug/L	0.532	9082293	0.164	0.050	9082293
Total Nickel (Ni)	ug/L	4.34	9082293	0.91	0.10	9082293
Total Phosphorus (P)	ug/L	67.8	9082293	8.0	5.0	9082293
Total Selenium (Se)	ug/L	0.079	9082293	0.051	0.040	9082293
Total Silicon (Si)	ug/L	6690	9082293	4410	50	9082293
Total Silver (Ag)	ug/L	0.011	9082293	<0.010	0.010	9082293
Total Strontium (Sr)	ug/L	125	9082293	30.1	0.050	9082293
Total Thallium (Tl)	ug/L	0.0107	9082293	0.0031	0.0020	9082293
Total Tin (Sn)	ug/L	<0.20	9082293	<0.20	0.20	9082293
Total Titanium (Ti)	ug/L	54.1	9082293	3.7	2.0	9082293
Total Uranium (U)	ug/L	3.82	9082293	0.245	0.0050	9082293
Total Vanadium (V)	ug/L	7.22	9082293	0.60	0.20	9082293
RDL = Reportable Detection Limit						

Maxxam Job #: B862188
Report Date: 2018/08/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TY2666		TY2667		
Sampling Date		2018/07/24 14:05		2018/07/24 13:15		
COC Number		559732-03-01		559732-03-01		
	UNITS	ML-B	QC Batch	ML-C (YT-24-2)	RDL	QC Batch
Total Zinc (Zn)	ug/L	7.5	9082293	<1.0	1.0	9082293
Total Zirconium (Zr)	ug/L	0.81	9082293	0.55	0.10	9082293
Total Calcium (Ca)	mg/L	26.5	9079937	9.02	0.25	9079937
Total Magnesium (Mg)	mg/L	5.62	9079937	1.76	0.25	9079937
Total Potassium (K)	mg/L	1.04	9079937	0.67	0.25	9079937
Total Sodium (Na)	mg/L	2.07	9079937	1.20	0.25	9079937
Total Sulphur (S)	mg/L	15.1	9079937	<3.0	3.0	9079937
RDL = Reportable Detection Limit						

Maxxam Job #: B862188
Report Date: 2018/08/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

GENERAL COMMENTS

Results relate only to the items tested.

Maxxam Job #: B862188
Report Date: 2018/08/03

QUALITY ASSURANCE REPORT

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9081256	Total Mercury (Hg)	2018/07/27	111	80 - 120	99	80 - 120	<0.0020	ug/L	NC	20
9081280	Total Mercury (Hg)	2018/07/27	100	80 - 120	99	80 - 120	<0.0020	ug/L	NC	20
9081287	Dissolved Aluminum (Al)	2018/07/27	106	80 - 120	105	80 - 120	<0.50	ug/L	2.4	20
9081287	Dissolved Antimony (Sb)	2018/07/27	101	80 - 120	101	80 - 120	<0.020	ug/L	2.7	20
9081287	Dissolved Arsenic (As)	2018/07/27	105	80 - 120	103	80 - 120	<0.020	ug/L	1.2	20
9081287	Dissolved Barium (Ba)	2018/07/27	NC	80 - 120	101	80 - 120	<0.020	ug/L	2.9	20
9081287	Dissolved Beryllium (Be)	2018/07/27	103	80 - 120	101	80 - 120	<0.010	ug/L	NC	20
9081287	Dissolved Bismuth (Bi)	2018/07/27	99	80 - 120	102	80 - 120	<0.0050	ug/L	NC	20
9081287	Dissolved Boron (B)	2018/07/27	97	80 - 120	96	80 - 120	<10	ug/L	1.6	20
9081287	Dissolved Cadmium (Cd)	2018/07/27	105	80 - 120	104	80 - 120	<0.0050	ug/L	NC	20
9081287	Dissolved Chromium (Cr)	2018/07/27	104	80 - 120	102	80 - 120	<0.10	ug/L	NC	20
9081287	Dissolved Cobalt (Co)	2018/07/27	100	80 - 120	101	80 - 120	<0.0050	ug/L	9.1	20
9081287	Dissolved Copper (Cu)	2018/07/27	NC	80 - 120	99	80 - 120	<0.050	ug/L	0.22	20
9081287	Dissolved Iron (Fe)	2018/07/27	105	80 - 120	104	80 - 120	<1.0	ug/L	4.3	20
9081287	Dissolved Lead (Pb)	2018/07/27	101	80 - 120	103	80 - 120	<0.0050	ug/L	0.88	20
9081287	Dissolved Lithium (Li)	2018/07/27	102	80 - 120	103	80 - 120	<0.50	ug/L	0.13	20
9081287	Dissolved Manganese (Mn)	2018/07/27	103	80 - 120	103	80 - 120	<0.050	ug/L	0.35	20
9081287	Dissolved Molybdenum (Mo)	2018/07/27	110	80 - 120	104	80 - 120	<0.050	ug/L	2.1	20
9081287	Dissolved Nickel (Ni)	2018/07/27	100	80 - 120	101	80 - 120	<0.020	ug/L	0.21	20
9081287	Dissolved Phosphorus (P)	2018/07/27	109	80 - 120	103	80 - 120	<2.0	ug/L		
9081287	Dissolved Selenium (Se)	2018/07/27	103	80 - 120	101	80 - 120	<0.040	ug/L	4.5	20
9081287	Dissolved Silicon (Si)	2018/07/27	105	80 - 120	107	80 - 120	<50	ug/L	0.35	20
9081287	Dissolved Silver (Ag)	2018/07/27	104	80 - 120	103	80 - 120	<0.0050	ug/L	NC	20
9081287	Dissolved Strontium (Sr)	2018/07/27	NC	80 - 120	102	80 - 120	<0.050	ug/L	1.7	20
9081287	Dissolved Thallium (Tl)	2018/07/27	103	80 - 120	103	80 - 120	<0.0020	ug/L	4.9	20
9081287	Dissolved Tin (Sn)	2018/07/27	105	80 - 120	101	80 - 120	<0.20	ug/L	NC	20
9081287	Dissolved Titanium (Ti)	2018/07/27	109	80 - 120	106	80 - 120	<0.50	ug/L	NC	20
9081287	Dissolved Uranium (U)	2018/07/27	107	80 - 120	105	80 - 120	<0.0020	ug/L	0.62	20
9081287	Dissolved Vanadium (V)	2018/07/27	105	80 - 120	102	80 - 120	<0.20	ug/L	NC	20
9081287	Dissolved Zinc (Zn)	2018/07/27	100	80 - 120	101	80 - 120	<0.10	ug/L	0.62	20
9081287	Dissolved Zirconium (Zr)	2018/07/27	105	80 - 120	100	80 - 120	<0.10	ug/L	NC	20

Maxxam Job #: B862188
Report Date: 2018/08/03

QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9081311	Dissolved Mercury (Hg)	2018/07/27	103	80 - 120	99	80 - 120	<0.0020	ug/L	NC	20
9081330	Total Mercury (Hg)	2018/07/27	99	80 - 120	98	80 - 120	<0.0020	ug/L	NC	20
9081462	Nitrate plus Nitrite (N)	2018/07/27	108	80 - 120	106	80 - 120	<0.0020	mg/L	12	25
9081464	Nitrite (N)	2018/07/27	101	80 - 120	105	80 - 120	<0.0020	mg/L	NC	25
9081470	Nitrate plus Nitrite (N)	2018/07/27	105	80 - 120	108	80 - 120	<0.0020	mg/L	NC	25
9081475	Nitrite (N)	2018/07/27	98	80 - 120	105	80 - 120	<0.0020	mg/L	NC	25
9081512	Total Aluminum (Al)	2018/07/28	98	80 - 120	101	80 - 120	<0.50	ug/L	0.18	20
9081512	Total Antimony (Sb)	2018/07/28	96	80 - 120	100	80 - 120	<0.020	ug/L	2.6	20
9081512	Total Arsenic (As)	2018/07/28	101	80 - 120	102	80 - 120	<0.020	ug/L	0.14	20
9081512	Total Barium (Ba)	2018/07/28	90	80 - 120	98	80 - 120	<0.020	ug/L	1.9	20
9081512	Total Beryllium (Be)	2018/07/28	93	80 - 120	97	80 - 120	<0.010	ug/L	14	20
9081512	Total Bismuth (Bi)	2018/07/28	93	80 - 120	99	80 - 120	<0.0050	ug/L	NC	20
9081512	Total Boron (B)	2018/07/28	93	80 - 120	97	80 - 120	<10	ug/L	NC	20
9081512	Total Cadmium (Cd)	2018/07/28	98	80 - 120	99	80 - 120	<0.0050	ug/L	NC	20
9081512	Total Chromium (Cr)	2018/07/28	97	80 - 120	99	80 - 120	<0.10	ug/L	9.6	20
9081512	Total Cobalt (Co)	2018/07/28	93	80 - 120	97	80 - 120	<0.0050	ug/L	2.3	20
9081512	Total Copper (Cu)	2018/07/28	92	80 - 120	97	80 - 120	<0.050	ug/L	0.062	20
9081512	Total Iron (Fe)	2018/07/28	95	80 - 120	101	80 - 120	<1.0	ug/L	3.6	20
9081512	Total Lead (Pb)	2018/07/28	95	80 - 120	99	80 - 120	<0.0050	ug/L	15	20
9081512	Total Lithium (Li)	2018/07/28	95	80 - 120	98	80 - 120	<0.50	ug/L	1.3	20
9081512	Total Manganese (Mn)	2018/07/28	95	80 - 120	100	80 - 120	<0.050	ug/L	0.70	20
9081512	Total Molybdenum (Mo)	2018/07/28	101	80 - 120	103	80 - 120	<0.050	ug/L	2.5	20
9081512	Total Nickel (Ni)	2018/07/28	93	80 - 120	98	80 - 120	<0.020	ug/L	2.4	20
9081512	Total Phosphorus (P)	2018/07/28	102	80 - 120	102	80 - 120	<2.0	ug/L	NC	20
9081512	Total Selenium (Se)	2018/07/28	98	80 - 120	97	80 - 120	<0.040	ug/L	4.9	20
9081512	Total Silicon (Si)	2018/07/28	NC	80 - 120	102	80 - 120	<50	ug/L	3.7	20
9081512	Total Silver (Ag)	2018/07/28	97	80 - 120	98	80 - 120	<0.0050	ug/L	NC	20
9081512	Total Strontium (Sr)	2018/07/28	NC	80 - 120	101	80 - 120	<0.050	ug/L	1.5	20
9081512	Total Thallium (Tl)	2018/07/28	96	80 - 120	100	80 - 120	<0.0020	ug/L	12	20
9081512	Total Tin (Sn)	2018/07/28	96	80 - 120	100	80 - 120	<0.20	ug/L	NC	20
9081512	Total Titanium (Ti)	2018/07/28	98	80 - 120	103	80 - 120	<0.50	ug/L	NC	20

Maxxam Job #: B862188
Report Date: 2018/08/03

QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9081512	Total Uranium (U)	2018/07/28	98	80 - 120	101	80 - 120	<0.0020	ug/L	1.0	20
9081512	Total Vanadium (V)	2018/07/28	98	80 - 120	100	80 - 120	<0.20	ug/L	4.6	20
9081512	Total Zinc (Zn)	2018/07/28	97	80 - 120	99	80 - 120	<0.10	ug/L	11	20
9081512	Total Zirconium (Zr)	2018/07/28	98	80 - 120	98	80 - 120	<0.10	ug/L	2.4	20
9081598	ORP	2018/07/30							1.0	20
9081609	Dissolved Chloride (Cl)	2018/07/27	94	80 - 120	97	80 - 120	0.57, RDL=0.50	mg/L	11	20
9081611	Dissolved Sulphate (SO4)	2018/07/27	NC	80 - 120	101	80 - 120	<0.50	mg/L	12	20
9081614	Dissolved Chloride (Cl)	2018/07/27	96	80 - 120	96	80 - 120	0.64, RDL=0.50	mg/L	5.8	20
9081615	Dissolved Sulphate (SO4)	2018/07/27	NC	80 - 120	97	80 - 120	<0.50	mg/L	4.0	20
9082293	Total Aluminum (Al)	2018/07/30	NC	80 - 120	100	80 - 120	<3.0	ug/L		
9082293	Total Antimony (Sb)	2018/07/30	107	80 - 120	100	80 - 120	<0.020	ug/L		
9082293	Total Arsenic (As)	2018/07/30	110	80 - 120	101	80 - 120	<0.020	ug/L	2.9	20
9082293	Total Barium (Ba)	2018/07/30	108	80 - 120	100	80 - 120	<0.050	ug/L		
9082293	Total Beryllium (Be)	2018/07/30	104	80 - 120	96	80 - 120	<0.010	ug/L		
9082293	Total Bismuth (Bi)	2018/07/30	108	80 - 120	101	80 - 120	<0.010	ug/L		
9082293	Total Boron (B)	2018/07/30	104	80 - 120	97	80 - 120	<10	ug/L		
9082293	Total Cadmium (Cd)	2018/07/30	108	80 - 120	99	80 - 120	<0.0050	ug/L		
9082293	Total Chromium (Cr)	2018/07/30	106	80 - 120	99	80 - 120	<0.10	ug/L		
9082293	Total Cobalt (Co)	2018/07/30	104	80 - 120	98	80 - 120	<0.010	ug/L		
9082293	Total Copper (Cu)	2018/07/30	102	80 - 120	97	80 - 120	<0.10	ug/L		
9082293	Total Iron (Fe)	2018/07/30	NC	80 - 120	101	80 - 120	<5.0	ug/L		
9082293	Total Lead (Pb)	2018/07/30	107	80 - 120	100	80 - 120	<0.020	ug/L		
9082293	Total Lithium (Li)	2018/07/30	107	80 - 120	96	80 - 120	<0.50	ug/L		
9082293	Total Manganese (Mn)	2018/07/30	111	80 - 120	102	80 - 120	<0.10	ug/L		
9082293	Total Molybdenum (Mo)	2018/07/30	111	80 - 120	101	80 - 120	<0.050	ug/L		
9082293	Total Nickel (Ni)	2018/07/30	106	80 - 120	102	80 - 120	<0.10	ug/L		
9082293	Total Phosphorus (P)	2018/07/30	108	80 - 120	101	80 - 120	<5.0	ug/L		
9082293	Total Selenium (Se)	2018/07/30	105	80 - 120	97	80 - 120	<0.040	ug/L		
9082293	Total Silicon (Si)	2018/07/30	115	80 - 120	101	80 - 120	<50	ug/L		
9082293	Total Silver (Ag)	2018/07/30	107	80 - 120	97	80 - 120	<0.010	ug/L		
9082293	Total Strontium (Sr)	2018/07/30	115	80 - 120	100	80 - 120	<0.050	ug/L		

Maxxam Job #: B862188
Report Date: 2018/08/03

QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9082293	Total Thallium (Tl)	2018/07/30	109	80 - 120	102	80 - 120	<0.0020	ug/L		
9082293	Total Tin (Sn)	2018/07/30	107	80 - 120	100	80 - 120	<0.20	ug/L		
9082293	Total Titanium (Ti)	2018/07/30	119	80 - 120	102	80 - 120	<2.0	ug/L		
9082293	Total Uranium (U)	2018/07/30	111	80 - 120	103	80 - 120	<0.0050	ug/L		
9082293	Total Vanadium (V)	2018/07/30	108	80 - 120	101	80 - 120	<0.20	ug/L		
9082293	Total Zinc (Zn)	2018/07/30	107	80 - 120	108	80 - 120	<1.0	ug/L		
9082293	Total Zirconium (Zr)	2018/07/30	106	80 - 120	100	80 - 120	<0.10	ug/L		
9082409	Fluoride (F)	2018/07/27	106	80 - 120	100	80 - 120	<0.010	mg/L	1.4	20
9082478	Total Suspended Solids	2018/07/30			100	80 - 120	<1.0	mg/L		
9082946	Total Ammonia (N)	2018/07/27			101	80 - 120	<0.0050	mg/L		
9082981	Total Dissolved Solids	2018/08/03	NC	80 - 120	93	80 - 120	<10	mg/L		
9082983	Total Dissolved Solids	2018/08/03	101	80 - 120	93	80 - 120	<10	mg/L	NC	20
9083485	Total Mercury (Hg)	2018/07/30	98	80 - 120	97	80 - 120	<0.0020	ug/L	NC	20
9083569	Dissolved Mercury (Hg)	2018/07/30	92	80 - 120	98	80 - 120	<0.0020	ug/L	9.8	20
9084452	pH	2018/07/30			101	97 - 103				
9084471	Alkalinity (PP as CaCO3)	2018/07/30					<0.50	mg/L		
9084471	Alkalinity (Total as CaCO3)	2018/07/30			93	80 - 120	<0.50	mg/L		
9084471	Bicarbonate (HCO3)	2018/07/30					<0.50	mg/L		
9084471	Carbonate (CO3)	2018/07/30					<0.50	mg/L		
9084471	Hydroxide (OH)	2018/07/30					<0.50	mg/L		
9084473	Conductivity	2018/07/30			98	80 - 120	<1.0	uS/cm		
9084488	pH	2018/07/30			102	97 - 103			0.79	20
9084491	Alkalinity (PP as CaCO3)	2018/07/30					<0.50	mg/L	NC	20
9084491	Alkalinity (Total as CaCO3)	2018/07/30			92	80 - 120	<0.50	mg/L	5.2	20
9084491	Bicarbonate (HCO3)	2018/07/30					<0.50	mg/L	5.2	20
9084491	Carbonate (CO3)	2018/07/30					<0.50	mg/L	NC	20
9084491	Hydroxide (OH)	2018/07/30					<0.50	mg/L	NC	20
9084492	Conductivity	2018/07/30			98	80 - 120	<1.0	uS/cm	1.1	20
9085002	Total Suspended Solids	2018/08/01			100	80 - 120	<1.0	mg/L		
9086916	Total Mercury (Hg)	2018/08/02	87	80 - 120	101	80 - 120	<0.0020	ug/L	9.1	20
9087332	Total Ammonia (N)	2018/08/01	100	80 - 120	105	80 - 120	<0.0050	mg/L	NC	20

Maxxam Job #: B862188
Report Date: 2018/08/03

QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9087439	Dissolved Organic Carbon (C)	2018/08/01	NC	80 - 120	105	80 - 120	<0.50	mg/L	4.5	20
9087668	Total Organic Carbon (C)	2018/08/01	NC	80 - 120	110	80 - 120	<0.50	mg/L	3.8	20
9088411	Dissolved Mercury (Hg)	2018/08/02	85	80 - 120	95	80 - 120	<0.0020	ug/L	NC	20
9088593	Free Cyanide	2018/08/01	101	80 - 120	101	80 - 120	<0.0010	mg/L	NC	20

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

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

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

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

Maxxam Job #: B862188
Report Date: 2018/08/03

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: MN

VALIDATION SIGNATURE PAGE

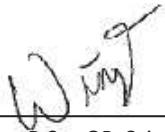
The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Brad Newman, Scientific Specialist



Rob Reinert, B.Sc., Scientific Specialist



Winnie Au, B.Sc., QP, Scientific Specialist

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Maxxam Analytical International Corporation (a Maxxam Analytical)
 4505 Canada Way, Burnaby, British Columbia Canada V5G 1K5 Tel: (604) 734 7275 Toll-free 800-863-8298 Fax: (604) 731 2386 www.maxxam.ca

INVOICE TO:		Report Information		Project Information	
Company Name: #3604 LORAX ENVIRONMENTAL SERVICES LTD.	Company Name:	Quotation #: B40231	Bottle Order #:		
Contact Name: Aida Piaseczny	Contact Name: David Flather	P.O. #:	559732		
Address: 2289 BURRARD STREET VANCOUVER BC V6J 3H9	Address:	Project #: Gold Corp Coffee Creek-SW	8862188_COC		
Phone: (604) 688-7173 Fax: (604) 688-7175	Phone:	Site #:	Project Manager		
Email: aida.piaseczny@lorax.ca; shukling.ng@lorax.ca	Email: David.Flather@lorax.ca	Sampled By:	Diana Cruz		



8862188_COC



CM559732-01-01

Regulatory Criteria	Special Instructions	Analysis Requested										Turnaround Time (TAT) Required		
<p>Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form</p> <p>Samples must be kept cool (< 10°C) from time of sampling until delivery to maxxam</p>		Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	Routine (Alk-LI, EC-LI, NH4-LI, pH, TDS)	TSS-Low Level	Anions (LLCI, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals Incl. CV Hg	Low Level Total Metals Incl. CV Hg	ORP	Regular (Standard) TAT (will be applied if Rush TAT is not specified)	<input checked="" type="checkbox"/>
<p>Standard TAT = 5-7 Working days for most tests.</p> <p>Please note - Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.</p> <p>Job Specific Rush TAT (if applies to entire submission)</p> <p>Date Required: _____ Time Required: _____</p> <p>Rush Confirmation Number _____ (call lab for #)</p>														

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	Routine (Alk-LI, EC-LI, NH4-LI, pH, TDS)	TSS-Low Level	Anions (LLCI, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals Incl. CV Hg	Low Level Total Metals Incl. CV Hg	ORP	# of Bottles	Comments
SID#162743	CC-0.5	24/07/18	11:30	SW	N	N	/	/	/	/	/	/	/	/	/	13	
SID#162744	CC-1.0			SW			/	/	/	/	/	/	/	/	/		
SID#162745	CC-1.5			SW			/	/	/	/	/	/	/	/	/		
SID#162746	CC-3.5	24/07/18	11:50	SW	N	N	/	/	/	/	/	/	/	/	/	13	RECEIVED IN WHITEHORSE BY: [Signature] 10/20
SID#162747	CC-4.5	24/07/18	10:15	SW	N	N	/	/	/	/	/	/	/	/	/	13	2018-07-25
SID#162748	CC-6.0			SW			/	/	/	/	/	/	/	/	/		TEMP 4 6 15
SID#149895	CC-A			SW			/	/	/	/	/	/	/	/	/		4 6 4
SID#149896	CC-B	24/07/18	12:25	SW	N	N	/	/	/	/	/	/	/	/	/	13	
SID#149897	CC-X	24/07/18	9:15	SW	N	N	/	/	/	/	/	/	/	/	/	13	
SID#149898	Coffee Mix			SW			/	/	/	/	/	/	/	/	/		

RELINQUISHED BY: (Signature/Print) MITCH NORDIN	Date: (YY/MM/DD) 18/07/25	Time 9:30	RECEIVED BY: (Signature/Print) SHAN JAIDOB JOY	Date: (YY/MM/DD) 2018/07/26	Time 15:06	# Jars used and not submitted	Time Sensitive <input type="checkbox"/>	Temperature (°C) on Receipt 1, 3, 2, 4, 2	Custody Seal Intact on Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS. IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

0075

120:405

INVOICE TO:		Report Information		Project Information	
Company Name	#3604 LORAX ENVIRONMENTAL SERVICES LTD.	Company Name	David Flather	Quotation #	B40231
Contact Name	Aida Piaseczny	Contact Name	David Flather	P.O. #	
Address	2289 BURRARD STREET VANCOUVER BC V6J 3H9	Address		Project #	Gold Corp Coffee Creek-SW
Phone	(604) 688-7173 Fax: (604) 688-7175	Phone		Project Name	
Email	aida.piaseczny@lorax.ca; shukling.ng@lorax.ca	Email	David.Flather@lorax.ca	Site #	
				Sampled By	



B862188_COC

Bottle Order #: 550732
Project Manager: Diana Cruz

Regulatory Criteria	Special Instructions	Analysis Requested										Turnaround Time (TAT) Required		
<p>Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form</p> <p>Samples must be kept cool (+ 10°C) from time of sampling until delivery to maxxam</p>		Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	Routine (Alk-LI, EC-LI, NH4-LI, pH, TDS)	TSS-Low Level	Anions (LLCI, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	<p>Please provide advance notice for rush projects</p> <p>Regular (Standard) TAT (will be applied if Rush TAT is not specified) <input checked="" type="checkbox"/></p> <p>Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Diatoms/Firans are > 5 days - contact your Project Manager for details.</p> <p>Job Specific Rush TAT (if applies to entire submission)</p> <p>Date Required: _____ Time Required: _____</p> <p>Rush Confirmation Number _____ (call lab for #)</p>	

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	Routine (Alk-LI, EC-LI, NH4-LI, pH, TDS)	TSS-Low Level	Anions (LLCI, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	# of Bottles	Comments
SID#214047	IC-4.5			SW													
SID#214048	Latte Mix	24/07/18	10:40	SW	NN											13	
SID#214049	ML-1.0 (YT-24-1)			SW													RECEIVED IN WHITEHORSE BY: [Signature] @ 10:20
SID#214050	ML-A	24/07/18	14:15	SW	NN											13	2018-07-25
SID#214051	ML-B	24/07/18	14:05	SW	NN											13	TEMP: 416 15
SID#214052	ML-C (YT-24-2)	24/07/18	13:15	SW	NN											13	464
SID#214053	YT-24-Mix			SW													
SID#214054	YUK-2.0			SW													
SID#214055	YUK-5.0			SW													
SID#214056	Sample A			SW													

RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# Jars used and not submitted	Lab Use Only	
<i>[Signature]</i>	18/07/25	9:30	<i>[Signature]</i> SHAN JAWB JOY	2018/07/26	15:05		Time Sensitive <input type="checkbox"/>	Temperature (°C) on Receipt: 1, 3, 2, 4, 6, 2
<p>UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.</p> <p>IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.</p>							Custody Seal Intact on Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	White: Maxxam Yellow: Client

0075

166:465



Maxxam Analytics International Corporation o/a Maxxam Analytics
4606 Canada Way, Burnaby, British Columbia Canada V5G 1K5 Tel: (604) 734 7276 Toll-free: 800-563-6286 Fax: (604) 731 2386 www.maxxam.ca

INVOICE TO:		Report Information		Project Information	
Company Name	#3604 LORAX ENVIRONMENTAL SERVICES LTD.	Company Name		Quotation #	B40231
Contact Name	Aida Piaseczny	Contact Name	David Flather	P.O. #	
Address	2289 BURRARD STREET VANCOUVER BC V6J 3H9	Address		Project #	Gold Corp Coffee Creek-SW
Phone	(604) 688-7173 Fax: (604) 688-7175	Phone		Project Name	
Email	aida.piaseczny@lorax.ca; shukling.ng@lorax.ca	Email	David.Flather@lorax.ca	Site #	
				Sampled By	



B862188_COC

Bottle Order #:
559732

Project Manager
Diana Cruz

Regulatory Criteria	Special Instructions	Analysis Requested										Turnaround Time (TAT) Required		
		Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	Routine (Alk-LI, EC-LI, NH4-LI, pH, TDS)	TSS-Low Levels	Anions (LL, Cl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	Please provide advance notice for rush projects	
													Regular (Standard) TAT (will be applied if Rush TAT is not specified) Standard TAT = 5-7 Working days for most tests Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.	
		Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form										Job Specific Rush TAT (if applies to entire submission)		
		Samples must be kept cool (< 10°C) from time of sampling until delivery to maxxam										Date Required: _____ Time Required: _____		
												Rush Confirmation Number _____ (not lab for #)		

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	Routine (Alk-LI, EC-LI, NH4-LI, pH, TDS)	TSS-Low Levels	Anions (LL, Cl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	# of Bottles	Comments
1 SID#214057	Sample B			SW													
2 SID#214058	Sample C	24/07/18	11:50	SW	N	N	/	/	/	/	/	/	/	/	/	13	
3 SID#214059	Field Blank			SW													
4 SID#214060	Travel Blank			SW													
5 SID#214061				SW													RECEIVED IN WHITEHORSE BY: <i>K Murphy</i> 1020
6																	2018-07-15
7																	TEMP: 4 6 5
8																	4 6 4
9																	
10																	

RELINQUISHED BY: (Signature/Print) <i>Mitch Nordin</i>	Date: (YY/MM/DD) 8/07/25	Time 9:30	RECEIVED BY: (Signature/Print) <i>Shan Jacob Joy</i>	Date: (YY/MM/DD) 2018/07/26	Time 15:05	# Jars used and not submitted	Lab Use Only	
						Time Sensitive <input type="checkbox"/>	Temperature (°C) on Receipt 1, 3, 2; 4, 6, 2	Custody Seal Intact on Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.								White Maxxam Yellow Client
IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.								

LLG:YGS

0075

Your Project #: Gold Corp Coffee Creek-SW
 Site Location: COFFEE CREEK - SURFACE WATER
 Your C.O.C. #: 560075-01-01, 560075-02-01

Attention: David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
 2289 BURRARD STREET
 VANCOUVER, BC
 CANADA V6J 3H9

Report Date: 2018/08/14

Report #: R2603892

Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B864578

Received: 2018/08/01, 12:00

Sample Matrix: Water
 # Samples Received: 13

Analyses	Date		Laboratory Method	Analytical Method
	Quantity	Extracted		
Alkalinity - Low Level	3	N/A	2018/08/02 BBY6SOP-00026	SM 22 2320 B m
Alkalinity - Low Level	10	N/A	2018/08/03 BBY6SOP-00026	SM 22 2320 B m
Chloride - Low Level	13	N/A	2018/08/03 BBY6SOP-00011	SM 22 4500-Cl- E m
Carbon (DOC) (1, 3)	13	N/A	2018/08/08 CAL SOP-00077	MMCW 119 1996 m
Conductance - Low Level	3	N/A	2018/08/02 BBY6SOP-00026	SM 22 2510 B m
Conductance - Low Level	10	N/A	2018/08/03 BBY6SOP-00026	SM 22 2510 B m
Fluoride - Low Level	13	N/A	2018/08/03 BBY6SOP-00048	SM 22 4500-F C m
Hardness Total (calculated as CaCO3) (4)	7	N/A	2018/08/03 BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO3) (4)	1	N/A	2018/08/08 BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO3) (4)	5	N/A	2018/08/09 BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3)	13	N/A	2018/08/07 BBY WI-00033	Auto Calc
Mercury (Dissolved) by CVAf	13	N/A	2018/08/03 BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Total) by CVAf	12	2018/08/03	2018/08/03 BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Total) by CVAf	1	2018/08/07	2018/08/07 BBY7SOP-00015	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	13	N/A	2018/08/07 BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (dissolved)	13	N/A	2018/08/04 BBY7SOP-00002	EPA 6020b R2 m
Elements by ICPMS Digested LL (total)	1	2018/08/03	2018/08/08 BBY7SOP-00003,	EPA 6020b R2 m
Elements by ICPMS Digested LL (total)	5	2018/08/07	2018/08/09 BBY7SOP-00003,	EPA 6020b R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total)	7	N/A	2018/08/03 BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (total)	1	N/A	2018/08/08 BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (total)	5	N/A	2018/08/09 BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (total)	7	N/A	2018/08/03 BBY7SOP-00002	EPA 6020b R2 m
Ammonia-N Low Level (Preserved)	13	N/A	2018/08/03 BBY6SOP-00009	EPA 350.1 m
Nitrate+Nitrite (N) (low level)	13	N/A	2018/08/02 BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrite (N) (low level)	13	N/A	2018/08/02 BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrogen - Nitrate (as N) Low Level Calc	13	N/A	2018/08/03 BBY WI-00033	Auto Calc
ORP Analysis on Water by ARD LAB	13	N/A	2018/08/07 BBY0SOP-00004	SM 22 2580 B
Filter and HNO3 Preserve for Metals	13	N/A	2018/08/03 BBY7 WI-00004	BCMOE Reqs 08/14
pH Water (5)	3	N/A	2018/08/02 BBY6SOP-00026	SM 22 4500-H+ B m
pH Water (5)	10	N/A	2018/08/03 BBY6SOP-00026	SM 22 4500-H+ B m

Your Project #: Gold Corp Coffee Creek-SW
 Site Location: COFFEE CREEK - SURFACE WATER
 Your C.O.C. #: 560075-01-01, 560075-02-01

Attention: David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
 2289 BURRARD STREET
 VANCOUVER, BC
 CANADA V6J 3H9

Report Date: 2018/08/14

Report #: R2603892

Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B864578

Received: 2018/08/01, 12:00

Sample Matrix: Water
 # Samples Received: 13

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Sulphate - Low Level	13	N/A	2018/08/03	BBY6SOP-00017	SM 22 4500-SO42- E m
Total Dissolved Solids (Filt. Residue)	13	2018/08/03	2018/08/07	BBY6SOP-00033	SM 22 2540 C m
Carbon (Total Organic) (1, 6)	13	N/A	2018/08/08	CAL SOP-00077	MMCW 119 1996 m
Total Suspended Solids-Low Level	13	2018/08/03	2018/08/07	BBY6SOP-00034	SM 22 2540 D
WAD Cyanide Water Subcontract (2)	13	2018/08/10	2018/08/10		

Remarks:

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

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

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

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Maxxam, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

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

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Your C.O.C. #: 560075-01-01, 560075-02-01

Attention: David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
2289 BURRARD STREET
VANCOUVER, BC
CANADA V6J 3H9

Report Date: 2018/08/14
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CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B864578

Received: 2018/08/01, 12:00

- (1) This test was performed by Maxxam Calgary Environmental
- (2) This test was performed by Maxxam Ontario (From Burnaby)
- (3) DOC present in the sample should be considered as non-purgeable DOC. Dissolved > Total Imbalance: Whenever applicable, Dissolved >Total for any parameter that falls within method uncertainty for duplicates is likely equivalent. If RPD is >20% samples were reanalyzed and confirmed.
- (4) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).
- (5) The BC-MOE and APHA Standard Method require pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the BC-MOE/APHA Standard Method holding time.
- (6) TOC present in the sample should be considered as non-purgeable TOC.

Encryption Key



Veronica De Guzman
Project Manager
14 Aug 2018 15:52:56

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Diana Cruz, Project Manager
Email: DCruz@maxxam.ca
Phone# (604) 734 7276

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Job #: B864578
Report Date: 2018/08/14

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TZ5978			TZ5978			TZ5979		
Sampling Date		2018/07/30 09:40			2018/07/30 09:40			2018/07/30 10:15		
COC Number		560075-01-01			560075-01-01			560075-01-01		
	UNITS	CC-0.5	RDL	QC Batch	CC-0.5 Lab-Dup	QC Batch	CC-1.5	RDL	QC Batch	
Parameter										
ORP	mV	248		9089010	249	9089010	254		9089010	
Subcontract Parameter	N/A	ATTACHED	N/A	9098487			ATTACHED	N/A	9098487	
Calculated Parameters										
Filter and HNO3 Preservation	N/A	LAB		9090295			LAB		9090295	
Nitrate (N)	mg/L	0.197	0.0020	9088400			0.267	0.0020	9088400	
Misc. Inorganics										
Fluoride (F)	mg/L	0.080	0.010	9090997			0.067	0.010	9090997	
Dissolved Organic Carbon (C)	mg/L	9.7	0.50	9093472			6.8	0.50	9093472	
Alkalinity (Total as CaCO3)	mg/L	48.4	0.50	9089602			103	0.50	9089607	
Total Organic Carbon (C)	mg/L	10	0.50	9093469			7.1	0.50	9093469	
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	9089602			<0.50	0.50	9089607	
Bicarbonate (HCO3)	mg/L	59.0	0.50	9089602			126	0.50	9089607	
Carbonate (CO3)	mg/L	<0.50	0.50	9089602			<0.50	0.50	9089607	
Hydroxide (OH)	mg/L	<0.50	0.50	9089602			<0.50	0.50	9089607	
Anions										
Dissolved Sulphate (SO4)	mg/L	53.1	0.50	9090879			114	0.50	9090879	
Dissolved Chloride (Cl)	mg/L	0.80	0.50	9090876			<0.50	0.50	9090876	
Nutrients										
Total Ammonia (N)	mg/L	<0.0050	0.0050	9091364			<0.0050	0.0050	9091364	
Nitrate plus Nitrite (N)	mg/L	0.197	0.0020	9089153			0.267	0.0020	9089153	
Nitrite (N)	mg/L	<0.0020	0.0020	9089156			<0.0020	0.0020	9089156	
Physical Properties										
Conductivity	uS/cm	212	1.0	9089603			414	1.0	9089608	
pH	pH	7.57		9089599			7.81		9089604	
Physical Properties										
Total Suspended Solids	mg/L	14.2	1.0	9090371			<1.0	1.0	9090371	
Total Dissolved Solids	mg/L	144	10	9090351			264	10	9090351	
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable										

Maxxam Job #: B864578
Report Date: 2018/08/14

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TZ5979			TZ5980		TZ5981		
Sampling Date		2018/07/30 10:15			2018/07/30 09:55		2018/07/30 08:55		
COC Number		560075-01-01			560075-01-01		560075-01-01		
	UNITS	CC-1.5 Lab-Dup	RDL	QC Batch	CC-3.5	QC Batch	CC-4.5	RDL	QC Batch
Parameter									
ORP	mV				273	9089010	283		9089010
Subcontract Parameter	N/A				ATTACHED	9098487	ATTACHED	N/A	9098487
Calculated Parameters									
Filter and HNO3 Preservation	N/A				LAB	9090295	LAB		9090295
Nitrate (N)	mg/L				0.257	9088400	0.181	0.0020	9088400
Misc. Inorganics									
Fluoride (F)	mg/L				0.061	9090997	0.067	0.010	9090997
Dissolved Organic Carbon (C)	mg/L				8.9	9093472	9.7	0.50	9093472
Alkalinity (Total as CaCO3)	mg/L	103	0.50	9089607	83.5	9089607	50.9	0.50	9089607
Total Organic Carbon (C)	mg/L				9.1	9093469	10	0.50	9093469
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	9089607	<0.50	9089607	<0.50	0.50	9089607
Bicarbonate (HCO3)	mg/L	126	0.50	9089607	102	9089607	62.1	0.50	9089607
Carbonate (CO3)	mg/L	<0.50	0.50	9089607	<0.50	9089607	<0.50	0.50	9089607
Hydroxide (OH)	mg/L	<0.50	0.50	9089607	<0.50	9089607	<0.50	0.50	9089607
Anions									
Dissolved Sulphate (SO4)	mg/L				78.2	9090879	54.4	0.50	9093014
Dissolved Chloride (Cl)	mg/L				0.58	9090876	0.69	0.50	9090876
Nutrients									
Total Ammonia (N)	mg/L				<0.0050	9091364	<0.0050	0.0050	9091364
Nitrate plus Nitrite (N)	mg/L				0.257	9089153	0.181	0.0020	9089153
Nitrite (N)	mg/L				<0.0020	9089156	<0.0020	0.0020	9089156
Physical Properties									
Conductivity	uS/cm	415	1.0	9089608	312	9089608	213	1.0	9089608
pH	pH	7.84		9089604	7.80	9089604	7.62		9089604
Physical Properties									
Total Suspended Solids	mg/L				5.3	9090371	<1.0	1.0	9090371
Total Dissolved Solids	mg/L				216	9090351	140	10	9090351
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable									

Maxxam Job #: B864578
Report Date: 2018/08/14

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TZ5982			TZ5982			TZ5983		
Sampling Date		2018/07/30 10:45			2018/07/30 10:45			2018/07/30 16:30		
COC Number		560075-01-01			560075-01-01			560075-01-01		
	UNITS	HC-2.5	RDL	QC Batch	HC-2.5 Lab-Dup	RDL	QC Batch	HC-5.0	RDL	QC Batch
Parameter										
ORP	mV	279		9089010				275		9089010
Subcontract Parameter	N/A	ATTACHED	N/A	9098487				ATTACHED	N/A	9098487
Calculated Parameters										
Filter and HNO3 Preservation	N/A	LAB		9090295				LAB		9090295
Nitrate (N)	mg/L	0.418	0.0020	9088400				0.260	0.0020	9088400
Misc. Inorganics										
Fluoride (F)	mg/L	0.057	0.010	9090997				0.072	0.010	9091206
Dissolved Organic Carbon (C)	mg/L	7.4	0.50	9093472				9.0	0.50	9093472
Alkalinity (Total as CaCO3)	mg/L	83.9	0.50	9089602				80.5	0.50	9089607
Total Organic Carbon (C)	mg/L	7.7	0.50	9093469				9.4	0.50	9093469
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	9089602				<0.50	0.50	9089607
Bicarbonate (HCO3)	mg/L	102	0.50	9089602				98.3	0.50	9089607
Carbonate (CO3)	mg/L	<0.50	0.50	9089602				<0.50	0.50	9089607
Hydroxide (OH)	mg/L	<0.50	0.50	9089602				<0.50	0.50	9089607
Anions										
Dissolved Sulphate (SO4)	mg/L	44.3	0.50	9090879	44.2	0.50	9090879	45.8	0.50	9090879
Dissolved Chloride (Cl)	mg/L	<0.50	0.50	9090876	0.68	0.50	9090876	0.91	0.50	9090876
Nutrients										
Total Ammonia (N)	mg/L	<0.0050	0.0050	9091364				<0.0050	0.0050	9091364
Nitrate plus Nitrite (N)	mg/L	0.418	0.0020	9089153				0.260	0.0020	9089153
Nitrite (N)	mg/L	<0.0020	0.0020	9089156				<0.0020	0.0020	9089156
Physical Properties										
Conductivity	uS/cm	253	1.0	9089603				251	1.0	9089608
pH	pH	7.78		9089599				7.83		9089604
Physical Properties										
Total Suspended Solids	mg/L	<1.0	1.0	9090371				<1.0	1.0	9090371
Total Dissolved Solids	mg/L	160	10	9090351				162	10	9090351
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable										

Maxxam Job #: B864578
Report Date: 2018/08/14

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TZ5984			TZ5984			TZ5985		
Sampling Date		2018/07/30 16:00			2018/07/30 16:00			2018/07/30 15:42		
COC Number		560075-01-01			560075-01-01			560075-01-01		
	UNITS	YT-24	RDL	QC Batch	YT-24 Lab-Dup	RDL	QC Batch	YT-24 MIX	RDL	QC Batch
Parameter										
ORP	mV	288		9089010	283		9089010	295		9089010
Subcontract Parameter	N/A	ATTACHED	N/A	9098487				ATTACHED	N/A	9098487
Calculated Parameters										
Filter and HNO3 Preservation	N/A	LAB		9090295				LAB		9090295
Nitrate (N)	mg/L	0.787	0.0020	9088400				0.0023	0.0020	9088400
Misc. Inorganics										
Fluoride (F)	mg/L	0.075	0.010	9091206	0.074	0.010	9091206	0.110	0.010	9091206
Dissolved Organic Carbon (C)	mg/L	9.1	0.50	9093472				2.9	0.50	9093472
Alkalinity (Total as CaCO3)	mg/L	62.2	0.50	9089607				71.3	0.50	9089607
Total Organic Carbon (C)	mg/L	9.3	0.50	9093469				2.9	0.50	9093469
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	9089607				<0.50	0.50	9089607
Bicarbonate (HCO3)	mg/L	75.9	0.50	9089607				87.0	0.50	9089607
Carbonate (CO3)	mg/L	<0.50	0.50	9089607				<0.50	0.50	9089607
Hydroxide (OH)	mg/L	<0.50	0.50	9089607				<0.50	0.50	9089607
Anions										
Dissolved Sulphate (SO4)	mg/L	75.6	0.50	9090879				24.3	0.50	9090879
Dissolved Chloride (Cl)	mg/L	0.94	0.50	9090876				<0.50	0.50	9090876
Nutrients										
Total Ammonia (N)	mg/L	0.056	0.0050	9091364				0.014	0.0050	9091364
Nitrate plus Nitrite (N)	mg/L	0.787	0.0020	9089153				0.0023	0.0020	9089153
Nitrite (N)	mg/L	<0.0020	0.0020	9089156				<0.0020	0.0020	9089156
Physical Properties										
Conductivity	uS/cm	288	1.0	9089608				184	1.0	9089608
pH	pH	7.72		9089604				7.84		9089604
Physical Properties										
Total Suspended Solids	mg/L	1.2	1.0	9090371				6.3	1.0	9090371
Total Dissolved Solids	mg/L	194	10	9090351				102	10	9090351
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable										

Maxxam Job #: B864578
Report Date: 2018/08/14

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TZ5986			TZ5986			TZ5987		
Sampling Date		2018/07/30 14:55			2018/07/30 14:55			2018/07/30 17:00		
COC Number		560075-01-01			560075-01-01			560075-01-01		
	UNITS	COFFEE MIX	RDL	QC Batch	COFFEE MIX Lab-Dup	RDL	QC Batch	HALFWAY MIX	RDL	QC Batch
Parameter										
ORP	mV	302		9089010				285		9089010
Subcontract Parameter	N/A	ATTACHED	N/A	9098487				ATTACHED	N/A	9098487
Calculated Parameters										
Filter and HNO3 Preservation	N/A	LAB		9090295				LAB		9090295
Nitrate (N)	mg/L	0.0062	0.0020	9088400				0.0072	0.0020	9088400
Misc. Inorganics										
Fluoride (F)	mg/L	0.110	0.010	9091206				0.110	0.010	9091206
Dissolved Organic Carbon (C)	mg/L	2.1	0.50	9094250				2.0	0.50	9094250
Alkalinity (Total as CaCO3)	mg/L	71.9	0.50	9089602				71.9	0.50	9089607
Total Organic Carbon (C)	mg/L	2.4	0.50	9094253	2.4	0.50	9094253	2.4	0.50	9094253
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	9089602				<0.50	0.50	9089607
Bicarbonate (HCO3)	mg/L	87.8	0.50	9089602				87.7	0.50	9089607
Carbonate (CO3)	mg/L	<0.50	0.50	9089602				<0.50	0.50	9089607
Hydroxide (OH)	mg/L	<0.50	0.50	9089602				<0.50	0.50	9089607
Anions										
Dissolved Sulphate (SO4)	mg/L	24.7	0.50	9093014				24.8	0.50	9090879
Dissolved Chloride (Cl)	mg/L	<0.50	0.50	9090876				<0.50	0.50	9090876
Nutrients										
Total Ammonia (N)	mg/L	<0.0050	0.0050	9091364				<0.0050	0.0050	9091364
Nitrate plus Nitrite (N)	mg/L	0.0062	0.0020	9089153				0.0072	0.0020	9089153
Nitrite (N)	mg/L	<0.0020	0.0020	9089156				<0.0020	0.0020	9089156
Physical Properties										
Conductivity	uS/cm	182	1.0	9089603				185	1.0	9089608
pH	pH	7.87		9089599				7.84		9089604
Physical Properties										
Total Suspended Solids	mg/L	9.7	1.0	9090371				3.0	1.0	9090371
Total Dissolved Solids	mg/L	108	10	9090351				104	10	9090351
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable										

Maxxam Job #: B864578
Report Date: 2018/08/14

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		TZ6011	TZ6012		TZ6013		
Sampling Date		2018/07/30 09:25	2018/07/30 17:00		2018/07/30 08:40		
COC Number		560075-02-01	560075-02-01		560075-02-01		
	UNITS	LATTE MIX	DUP	QC Batch	FIELD BLANK	RDL	QC Batch
Parameter							
ORP	mV	298	289	9089010	345		9089010
Subcontract Parameter	N/A	ATTACHED	ATTACHED	9098487	ATTACHED	N/A	9098487
Calculated Parameters							
Filter and HNO3 Preservation	N/A	LAB	LAB	9090295	LAB		9090295
Nitrate (N)	mg/L	0.205	0.0116	9088400	<0.0020	0.0020	9088400
Misc. Inorganics							
Fluoride (F)	mg/L	0.074	0.110	9091206	<0.010	0.010	9091206
Dissolved Organic Carbon (C)	mg/L	9.5	2.1	9094250	<0.50	0.50	9094250
Alkalinity (Total as CaCO3)	mg/L	53.0	72.7	9089607	<0.50	0.50	9089633
Total Organic Carbon (C)	mg/L	9.8	3.8	9094253	<0.50	0.50	9094253
Alkalinity (PP as CaCO3)	mg/L	<0.50	<0.50	9089607	<0.50	0.50	9089633
Bicarbonate (HCO3)	mg/L	64.7	88.6	9089607	<0.50	0.50	9089633
Carbonate (CO3)	mg/L	<0.50	<0.50	9089607	<0.50	0.50	9089633
Hydroxide (OH)	mg/L	<0.50	<0.50	9089607	<0.50	0.50	9089633
Anions							
Dissolved Sulphate (SO4)	mg/L	53.7	24.0	9090879	<0.50	0.50	9090879
Dissolved Chloride (Cl)	mg/L	1.1	<0.50	9090876	<0.50	0.50	9090876
Nutrients							
Total Ammonia (N)	mg/L	<0.0050	0.047	9091364	<0.0050	0.0050	9091364
Nitrate plus Nitrite (N)	mg/L	0.205	0.0116	9089153	<0.0020	0.0020	9089153
Nitrite (N)	mg/L	<0.0020	<0.0020	9089156	<0.0020	0.0020	9089156
Physical Properties							
Conductivity	uS/cm	220	185	9089608	1.1	1.0	9089634
pH	pH	7.65	7.82	9089604	4.99		9089630
Physical Properties							
Total Suspended Solids	mg/L	<1.0	15.9	9090371	<1.0	1.0	9090371
Total Dissolved Solids	mg/L	146	106	9090351	<10	10	9090351
RDL = Reportable Detection Limit							
N/A = Not Applicable							

Maxxam Job #: B864578
Report Date: 2018/08/14

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TZ5978	TZ5979		TZ5980			TZ5980		
Sampling Date		2018/07/30 09:40	2018/07/30 10:15		2018/07/30 09:55			2018/07/30 09:55		
COC Number		560075-01-01	560075-01-01		560075-01-01			560075-01-01		
	UNITS	CC-0.5	CC-1.5	QC Batch	CC-3.5	RDL	QC Batch	CC-3.5 Lab-Dup	RDL	QC Batch

Calculated Parameters

Dissolved Hardness (CaCO3)	mg/L	96.3	208	9088394	156	0.50	9088394			
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Elements

Dissolved Mercury (Hg)	ug/L	0.0033	0.0033	9090383	0.0030	0.0020	9090233	0.0031	0.0020	9090233
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Dissolved Metals by ICPMS

Dissolved Aluminum (Al)	ug/L	50.8	37.2	9090654	34.4	0.50	9090654			
Dissolved Antimony (Sb)	ug/L	0.111	0.109	9090654	0.094	0.020	9090654			
Dissolved Arsenic (As)	ug/L	0.411	0.525	9090654	0.322	0.020	9090654			
Dissolved Barium (Ba)	ug/L	48.7	55.2	9090654	61.5	0.020	9090654			
Dissolved Beryllium (Be)	ug/L	<0.010	<0.010	9090654	0.015	0.010	9090654			
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	9090654	<0.0050	0.0050	9090654			
Dissolved Boron (B)	ug/L	<10	<10	9090654	<10	10	9090654			
Dissolved Cadmium (Cd)	ug/L	0.0051	0.0058	9090654	<0.0050	0.0050	9090654			
Dissolved Chromium (Cr)	ug/L	0.26	0.21	9090654	0.19	0.10	9090654			
Dissolved Cobalt (Co)	ug/L	0.0446	0.0397	9090654	0.0421	0.0050	9090654			
Dissolved Copper (Cu)	ug/L	2.30	1.46	9090654	1.39	0.050	9090654			
Dissolved Iron (Fe)	ug/L	37.9	21.1	9090654	17.8	1.0	9090654			
Dissolved Lead (Pb)	ug/L	<0.0050	<0.0050	9090654	<0.0050	0.0050	9090654			
Dissolved Lithium (Li)	ug/L	1.25	1.76	9090654	0.53	0.50	9090654			
Dissolved Manganese (Mn)	ug/L	3.76	5.76	9090654	0.344	0.050	9090654			
Dissolved Molybdenum (Mo)	ug/L	0.791	0.265	9090654	0.323	0.050	9090654			
Dissolved Nickel (Ni)	ug/L	0.968	0.470	9090654	0.529	0.020	9090654			
Dissolved Phosphorus (P)	ug/L	<2.0	<2.0	9090654	<2.0	2.0	9090654			
Dissolved Selenium (Se)	ug/L	0.103	0.089	9090654	0.093	0.040	9090654			
Dissolved Silicon (Si)	ug/L	5220	5290	9090654	4680	50	9090654			
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	9090654	<0.0050	0.0050	9090654			
Dissolved Strontium (Sr)	ug/L	118	440	9090654	296	0.050	9090654			
Dissolved Thallium (Tl)	ug/L	0.0048	0.0031	9090654	<0.0020	0.0020	9090654			
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	9090654	<0.20	0.20	9090654			
Dissolved Titanium (Ti)	ug/L	<0.50	<0.50	9090654	<0.50	0.50	9090654			
Dissolved Uranium (U)	ug/L	5.78	9.97	9090654	7.04	0.0020	9090654			

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Maxxam Job #: B864578
Report Date: 2018/08/14

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TZ5978	TZ5979		TZ5980			TZ5980		
Sampling Date		2018/07/30 09:40	2018/07/30 10:15		2018/07/30 09:55			2018/07/30 09:55		
COC Number		560075-01-01	560075-01-01		560075-01-01			560075-01-01		
	UNITS	CC-0.5	CC-1.5	QC Batch	CC-3.5	RDL	QC Batch	CC-3.5 Lab-Dup	RDL	QC Batch
Dissolved Vanadium (V)	ug/L	0.44	0.24	9090654	0.26	0.20	9090654			
Dissolved Zinc (Zn)	ug/L	0.38	0.33	9090654	0.23	0.10	9090654			
Dissolved Zirconium (Zr)	ug/L	0.40	0.41	9090654	0.47	0.10	9090654			
Dissolved Calcium (Ca)	mg/L	25.0	56.6	9088396	43.2	0.050	9088396			
Dissolved Magnesium (Mg)	mg/L	8.24	16.3	9088396	11.6	0.050	9088396			
Dissolved Potassium (K)	mg/L	1.32	3.24	9088396	2.18	0.050	9088396			
Dissolved Sodium (Na)	mg/L	4.23	4.16	9088396	3.87	0.050	9088396			
Dissolved Sulphur (S)	mg/L	15.0	35.5	9088396	24.7	3.0	9088396			
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B864578
Report Date: 2018/08/14

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TZ5981	TZ5982	TZ5983	TZ5984		TZ5985		
Sampling Date		2018/07/30 08:55	2018/07/30 10:45	2018/07/30 16:30	2018/07/30 16:00		2018/07/30 15:42		
COC Number		560075-01-01	560075-01-01	560075-01-01	560075-01-01		560075-01-01		
	UNITS	CC-4.5	HC-2.5	HC-5.0	YT-24	QC Batch	YT-24 MIX	RDL	QC Batch

Calculated Parameters

Dissolved Hardness (CaCO3)	mg/L	99.2	124	124	134	9088394	92.0	0.50	9088394
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Elements

Dissolved Mercury (Hg)	ug/L	0.0029	0.0028	0.0025	0.0030	9090383	<0.0020	0.0020	9090233
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Dissolved Metals by ICPMS

Dissolved Aluminum (Al)	ug/L	47.1	41.7	30.1	33.7	9090654	16.3	0.50	9090654
Dissolved Antimony (Sb)	ug/L	0.109	0.501	0.230	0.155	9090654	0.122	0.020	9090654
Dissolved Arsenic (As)	ug/L	0.376	0.869	0.570	0.375	9090654	0.486	0.020	9090654
Dissolved Barium (Ba)	ug/L	56.9	42.6	52.1	68.3	9090654	44.5	0.020	9090654
Dissolved Beryllium (Be)	ug/L	0.015	0.013	<0.010	<0.010	9090654	<0.010	0.010	9090654
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	9090654	<0.0050	0.0050	9090654
Dissolved Boron (B)	ug/L	<10	<10	<10	<10	9090654	<10	10	9090654
Dissolved Cadmium (Cd)	ug/L	0.0063	<0.0050	<0.0050	0.0056	9090654	0.0197	0.0050	9090654
Dissolved Chromium (Cr)	ug/L	0.24	0.25	0.21	0.22	9090654	<0.10	0.10	9090654
Dissolved Cobalt (Co)	ug/L	0.0456	0.0457	0.0434	0.0544	9090654	0.0118	0.0050	9090654
Dissolved Copper (Cu)	ug/L	2.14	1.22	4.03 (1)	1.70	9090654	1.32	0.050	9090654
Dissolved Iron (Fe)	ug/L	29.8	23.3	17.0	17.4	9090654	6.8	1.0	9090654
Dissolved Lead (Pb)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	9090654	0.0101	0.0050	9090654
Dissolved Lithium (Li)	ug/L	0.70	1.10	0.90	<0.50	9090654	1.29	0.50	9090654
Dissolved Manganese (Mn)	ug/L	3.44	1.86	0.410	0.370	9090654	0.237	0.050	9090654
Dissolved Molybdenum (Mo)	ug/L	0.694	1.61	0.635	0.423	9090654	1.31	0.050	9090654
Dissolved Nickel (Ni)	ug/L	0.894	0.517	0.816	0.668	9090654	0.709	0.020	9090654
Dissolved Phosphorus (P)	ug/L	<2.0	<2.0	<2.0	<2.0	9090654	<2.0	2.0	9090654
Dissolved Selenium (Se)	ug/L	0.096	0.074	0.082	0.074	9090654	0.301	0.040	9090654
Dissolved Silicon (Si)	ug/L	4990	5240	4800	3970	9090654	2750	50	9090654
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	9090654	<0.0050	0.0050	9090654
Dissolved Strontium (Sr)	ug/L	132	338	281	234	9090654	117	0.050	9090654
Dissolved Thallium (Tl)	ug/L	0.0042	<0.0020	0.0031	<0.0020	9090654	0.0040	0.0020	9090654
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	9090654	<0.20	0.20	9090654
Dissolved Titanium (Ti)	ug/L	<0.50	<0.50	<0.50	<0.50	9090654	<0.50	0.50	9090654
Dissolved Uranium (U)	ug/L	2.57	35.6	12.3	1.61	9090654	0.978	0.0020	9090654

RDL = Reportable Detection Limit

(1) Dissolved greater than total. Reanalysis yields similar results.

Maxxam Job #: B864578
Report Date: 2018/08/14

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TZ5981	TZ5982	TZ5983	TZ5984		TZ5985		
Sampling Date		2018/07/30 08:55	2018/07/30 10:45	2018/07/30 16:30	2018/07/30 16:00		2018/07/30 15:42		
COC Number		560075-01-01	560075-01-01	560075-01-01	560075-01-01		560075-01-01		
	UNITS	CC-4.5	HC-2.5	HC-5.0	YT-24	QC Batch	YT-24 MIX	RDL	QC Batch
Dissolved Vanadium (V)	ug/L	0.38	0.30	0.37	0.23	9090654	0.32	0.20	9090654
Dissolved Zinc (Zn)	ug/L	0.29	0.16	1.26 (1)	0.22	9090654	2.91	0.10	9090654
Dissolved Zirconium (Zr)	ug/L	0.41	0.39	0.39	0.41	9090654	<0.10	0.10	9090654
Dissolved Calcium (Ca)	mg/L	26.0	31.5	33.9	38.7	9088396	26.1	0.050	9088396
Dissolved Magnesium (Mg)	mg/L	8.33	10.9	9.57	9.07	9088396	6.53	0.050	9088396
Dissolved Potassium (K)	mg/L	1.43	2.04	2.32	2.03	9088396	0.997	0.050	9088396
Dissolved Sodium (Na)	mg/L	3.87	3.22	3.67	3.66	9088396	2.09	0.050	9088396
Dissolved Sulphur (S)	mg/L	16.0	13.9	15.1	23.8	9088396	7.4	3.0	9088396

RDL = Reportable Detection Limit

(1) Dissolved greater than total. Reanalysis yields similar results.

Maxxam Job #: B864578
Report Date: 2018/08/14

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TZ5986	TZ5987	TZ6011	TZ6012	TZ6013		
Sampling Date		2018/07/30 14:55	2018/07/30 17:00	2018/07/30 09:25	2018/07/30 17:00	2018/07/30 08:40		
COC Number		560075-01-01	560075-01-01	560075-02-01	560075-02-01	560075-02-01		
	UNITS	COFFEE MIX	HALFWAY MIX	LATTE MIX	DUP	FIELD BLANK	RDL	QC Batch
Calculated Parameters								
Dissolved Hardness (CaCO3)	mg/L	88.2	90.7	102	91.9	<0.50	0.50	9088394
Elements								
Dissolved Mercury (Hg)	ug/L	<0.0020	<0.0020	0.0030	<0.0020	<0.0020	0.0020	9090383
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	ug/L	15.7	19.2	48.8	16.1	0.76	0.50	9090654
Dissolved Antimony (Sb)	ug/L	0.114	0.113	0.117	0.126	<0.020	0.020	9090654
Dissolved Arsenic (As)	ug/L	0.474	0.481	0.394	0.476	<0.020	0.020	9090654
Dissolved Barium (Ba)	ug/L	42.3	43.2	49.7	43.3	<0.020	0.020	9090654
Dissolved Beryllium (Be)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	9090654
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9090654
Dissolved Boron (B)	ug/L	<10	<10	<10	<10	<10	10	9090654
Dissolved Cadmium (Cd)	ug/L	0.0255	0.0193	0.0061	0.0204	<0.0050	0.0050	9090654
Dissolved Chromium (Cr)	ug/L	<0.10	<0.10	0.25	<0.10	<0.10	0.10	9090654
Dissolved Cobalt (Co)	ug/L	0.0213	0.0086	0.0412	0.0071	<0.0050	0.0050	9090654
Dissolved Copper (Cu)	ug/L	0.871	0.786	2.12	0.852	<0.050	0.050	9090654
Dissolved Iron (Fe)	ug/L	6.6	5.0	35.2	3.8	<1.0	1.0	9090654
Dissolved Lead (Pb)	ug/L	0.0089	<0.0050	<0.0050	0.0063	<0.0050	0.0050	9090654
Dissolved Lithium (Li)	ug/L	1.27	1.29	1.15	1.32	<0.50	0.50	9090654
Dissolved Manganese (Mn)	ug/L	0.237	0.255	2.94	0.239	<0.050	0.050	9090654
Dissolved Molybdenum (Mo)	ug/L	1.27	1.29	0.736	1.28	<0.050	0.050	9090654
Dissolved Nickel (Ni)	ug/L	0.729	0.634	0.945	0.709	<0.020	0.020	9090654
Dissolved Phosphorus (P)	ug/L	26.5	<2.0	<2.0	<2.0	<2.0	2.0	9090654
Dissolved Selenium (Se)	ug/L	0.309	0.296	0.101	0.296	<0.040	0.040	9090654
Dissolved Silicon (Si)	ug/L	2640	2690	5130	2700	<50	50	9090654
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9090654
Dissolved Strontium (Sr)	ug/L	114	116	132	116	<0.050	0.050	9090654
Dissolved Thallium (Tl)	ug/L	0.0023	0.0027	0.0039	0.0027	<0.0020	0.0020	9090654
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	9090654
Dissolved Titanium (Ti)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	9090654
Dissolved Uranium (U)	ug/L	0.924	0.957	6.02	0.971	<0.0020	0.0020	9090654
Dissolved Vanadium (V)	ug/L	0.30	0.28	0.39	0.29	<0.20	0.20	9090654
RDL = Reportable Detection Limit								

Maxxam Job #: B864578
Report Date: 2018/08/14

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TZ5986	TZ5987	TZ6011	TZ6012	TZ6013		
Sampling Date		2018/07/30 14:55	2018/07/30 17:00	2018/07/30 09:25	2018/07/30 17:00	2018/07/30 08:40		
COC Number		560075-01-01	560075-01-01	560075-02-01	560075-02-01	560075-02-01		
	UNITS	COFFEE MIX	HALFWAY MIX	LATTE MIX	DUP	FIELD BLANK	RDL	QC Batch
Dissolved Zinc (Zn)	ug/L	3.27	2.31	0.38	2.86	<0.10	0.10	9090654
Dissolved Zirconium (Zr)	ug/L	<0.10	<0.10	0.39	<0.10	<0.10	0.10	9090654
Dissolved Calcium (Ca)	mg/L	24.7	25.7	26.5	25.9	<0.050	0.050	9088396
Dissolved Magnesium (Mg)	mg/L	6.44	6.47	8.62	6.60	<0.050	0.050	9088396
Dissolved Potassium (K)	mg/L	0.788	0.804	1.39	1.09	<0.050	0.050	9088396
Dissolved Sodium (Na)	mg/L	2.02	1.91	4.25	2.05	<0.050	0.050	9088396
Dissolved Sulphur (S)	mg/L	7.4	7.3	16.4	7.4	<3.0	3.0	9088396
RDL = Reportable Detection Limit								

Maxxam Job #: B864578
Report Date: 2018/08/14

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TZ6013		
Sampling Date		2018/07/30 08:40		
COC Number		560075-02-01		
	UNITS	FIELD BLANK Lab-Dup	RDL	QC Batch
Elements				
Dissolved Mercury (Hg)	ug/L	<0.0020	0.0020	9090383
Dissolved Metals by ICPMS				
Dissolved Aluminum (Al)	ug/L	0.89	0.50	9090654
Dissolved Antimony (Sb)	ug/L	<0.020	0.020	9090654
Dissolved Arsenic (As)	ug/L	<0.020	0.020	9090654
Dissolved Barium (Ba)	ug/L	<0.020	0.020	9090654
Dissolved Beryllium (Be)	ug/L	<0.010	0.010	9090654
Dissolved Bismuth (Bi)	ug/L	<0.0050	0.0050	9090654
Dissolved Boron (B)	ug/L	<10	10	9090654
Dissolved Cadmium (Cd)	ug/L	<0.0050	0.0050	9090654
Dissolved Chromium (Cr)	ug/L	<0.10	0.10	9090654
Dissolved Cobalt (Co)	ug/L	<0.0050	0.0050	9090654
Dissolved Copper (Cu)	ug/L	<0.050	0.050	9090654
Dissolved Iron (Fe)	ug/L	<1.0	1.0	9090654
Dissolved Lead (Pb)	ug/L	<0.0050	0.0050	9090654
Dissolved Lithium (Li)	ug/L	<0.50	0.50	9090654
Dissolved Manganese (Mn)	ug/L	<0.050	0.050	9090654
Dissolved Molybdenum (Mo)	ug/L	<0.050	0.050	9090654
Dissolved Nickel (Ni)	ug/L	<0.020	0.020	9090654
Dissolved Phosphorus (P)	ug/L	<2.0	2.0	9090654
Dissolved Selenium (Se)	ug/L	<0.040	0.040	9090654
Dissolved Silicon (Si)	ug/L	<50	50	9090654
Dissolved Silver (Ag)	ug/L	<0.0050	0.0050	9090654
Dissolved Strontium (Sr)	ug/L	<0.050	0.050	9090654
Dissolved Thallium (Tl)	ug/L	<0.0020	0.0020	9090654
Dissolved Tin (Sn)	ug/L	<0.20	0.20	9090654
Dissolved Titanium (Ti)	ug/L	<0.50	0.50	9090654
Dissolved Uranium (U)	ug/L	<0.0020	0.0020	9090654
Dissolved Vanadium (V)	ug/L	<0.20	0.20	9090654
RDL = Reportable Detection Limit				
Lab-Dup = Laboratory Initiated Duplicate				

Maxxam Job #: B864578
Report Date: 2018/08/14

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		TZ6013		
Sampling Date		2018/07/30 08:40		
COC Number		560075-02-01		
	UNITS	FIELD BLANK Lab-Dup	RDL	QC Batch
Dissolved Zinc (Zn)	ug/L	<0.10	0.10	9090654
Dissolved Zirconium (Zr)	ug/L	<0.10	0.10	9090654
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate				

Maxxam Job #: B864578
Report Date: 2018/08/14

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		TZ5979			TZ5979			TZ5980		
Sampling Date		2018/07/30 10:15			2018/07/30 10:15			2018/07/30 09:55		
COC Number		560075-01-01			560075-01-01			560075-01-01		
	UNITS	CC-1.5	RDL	QC Batch	CC-1.5 Lab-Dup	RDL	QC Batch	CC-3.5	RDL	QC Batch

Calculated Parameters

Total Hardness (CaCO3)	mg/L	200	0.50	9088392				151	0.50	9088392
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Elements

Total Mercury (Hg)	ug/L	0.0028	0.0020	9090118	0.0029	0.0020	9090118	0.0029	0.0020	9090118
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Total Metals by ICPMS

Total Aluminum (Al)	ug/L	46.5	0.50	9089187				41.0	0.50	9089187
Total Antimony (Sb)	ug/L	0.102	0.020	9089187				0.095	0.020	9089187
Total Arsenic (As)	ug/L	0.557	0.020	9089187				0.323	0.020	9089187
Total Barium (Ba)	ug/L	53.4	0.020	9089187				60.8	0.020	9089187
Total Beryllium (Be)	ug/L	<0.010	0.010	9089187				<0.010	0.010	9089187
Total Bismuth (Bi)	ug/L	<0.0050	0.0050	9089187				<0.0050	0.0050	9089187
Total Boron (B)	ug/L	<10	10	9089187				<10	10	9089187
Total Cadmium (Cd)	ug/L	0.0078	0.0050	9089187				0.0053	0.0050	9089187
Total Chromium (Cr)	ug/L	0.25	0.10	9089187				0.21	0.10	9089187
Total Cobalt (Co)	ug/L	0.0417	0.0050	9089187				0.0458	0.0050	9089187
Total Copper (Cu)	ug/L	1.39	0.050	9089187				1.35	0.050	9089187
Total Iron (Fe)	ug/L	34.3	1.0	9089187				25.5	1.0	9089187
Total Lead (Pb)	ug/L	0.0121	0.0050	9089187				0.0123	0.0050	9089187
Total Lithium (Li)	ug/L	1.86	0.50	9089187				0.63	0.50	9089187
Total Manganese (Mn)	ug/L	7.55	0.050	9089187				1.19	0.050	9089187
Total Molybdenum (Mo)	ug/L	0.216	0.050	9089187				0.279	0.050	9089187
Total Nickel (Ni)	ug/L	0.449	0.020	9089187				0.563	0.020	9089187
Total Phosphorus (P)	ug/L	2.4	2.0	9089187				<2.0	2.0	9089187
Total Selenium (Se)	ug/L	0.093	0.040	9089187				0.081	0.040	9089187
Total Silicon (Si)	ug/L	5040	50	9089187				4390	50	9089187
Total Silver (Ag)	ug/L	<0.0050	0.0050	9089187				<0.0050	0.0050	9089187
Total Strontium (Sr)	ug/L	435	0.050	9089187				294	0.050	9089187
Total Thallium (Tl)	ug/L	0.0029	0.0020	9089187				0.0020	0.0020	9089187
Total Tin (Sn)	ug/L	<0.20	0.20	9089187				<0.20	0.20	9089187
Total Titanium (Ti)	ug/L	0.93	0.50	9089187				0.67	0.50	9089187
Total Uranium (U)	ug/L	9.69	0.0020	9089187				7.15	0.0020	9089187

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Maxxam Job #: B864578
Report Date: 2018/08/14

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		TZ5979			TZ5979			TZ5980		
Sampling Date		2018/07/30 10:15			2018/07/30 10:15			2018/07/30 09:55		
COC Number		560075-01-01			560075-01-01			560075-01-01		
	UNITS	CC-1.5	RDL	QC Batch	CC-1.5 Lab-Dup	RDL	QC Batch	CC-3.5	RDL	QC Batch
Total Vanadium (V)	ug/L	0.31	0.20	9089187				0.31	0.20	9089187
Total Zinc (Zn)	ug/L	0.36	0.10	9089187				0.23	0.10	9089187
Total Zirconium (Zr)	ug/L	0.39	0.10	9089187				0.44	0.10	9089187
Total Calcium (Ca)	mg/L	53.1	0.050	9088398				40.7	0.050	9088398
Total Magnesium (Mg)	mg/L	16.4	0.050	9088398				12.1	0.050	9088398
Total Potassium (K)	mg/L	3.27	0.050	9088398				2.27	0.050	9088398
Total Sodium (Na)	mg/L	4.27	0.050	9088398				3.96	0.050	9088398
Total Sulphur (S)	mg/L	36.1	3.0	9088398				23.9	3.0	9088398
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B864578
Report Date: 2018/08/14

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		TZ5982	TZ5983	TZ5984		TZ6011	TZ6013		
Sampling Date		2018/07/30 10:45	2018/07/30 16:30	2018/07/30 16:00		2018/07/30 09:25	2018/07/30 08:40		
COC Number		560075-01-01	560075-01-01	560075-01-01		560075-02-01	560075-02-01		
	UNITS	HC-2.5	HC-5.0	YT-24	QC Batch	LATTE MIX	FIELD BLANK	RDL	QC Batch
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	119	119	133	9088392	100	<0.50	0.50	9088392
Elements									
Total Mercury (Hg)	ug/L	0.0023	0.0021	0.0026	9090118	0.0027	<0.0020	0.0020	9090093
Total Metals by ICPMS									
Total Aluminum (Al)	ug/L	59.2	38.8	107	9089187	54.3	0.98	0.50	9089187
Total Antimony (Sb)	ug/L	0.503	0.208	0.158	9089187	0.113	<0.020	0.020	9089187
Total Arsenic (As)	ug/L	0.925	0.583	0.472	9089187	0.423	<0.020	0.020	9089187
Total Barium (Ba)	ug/L	42.2	50.9	69.8	9089187	50.4	0.027	0.020	9089187
Total Beryllium (Be)	ug/L	0.013	0.015	0.011	9089187	<0.010	<0.010	0.010	9089187
Total Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	9089187	<0.0050	<0.0050	0.0050	9089187
Total Boron (B)	ug/L	<10	<10	<10	9089187	<10	<10	10	9089187
Total Cadmium (Cd)	ug/L	<0.0050	<0.0050	0.0093	9089187	0.0061	<0.0050	0.0050	9089187
Total Chromium (Cr)	ug/L	0.26	0.25	0.35	9089187	0.29	<0.10	0.10	9089187
Total Cobalt (Co)	ug/L	0.0493	0.0440	0.121	9089187	0.0460	<0.0050	0.0050	9089187
Total Copper (Cu)	ug/L	1.20	1.53	1.68	9089187	2.09	0.066	0.050	9089187
Total Iron (Fe)	ug/L	45.2	26.0	128	9089187	40.5	2.5	1.0	9089187
Total Lead (Pb)	ug/L	0.0163	0.0114	0.0575	9089187	0.0055	0.0167	0.0050	9089187
Total Lithium (Li)	ug/L	1.17	0.98	0.55	9089187	1.24	<0.50	0.50	9089187
Total Manganese (Mn)	ug/L	4.35	0.927	3.69	9089187	4.37	<0.050	0.050	9089187
Total Molybdenum (Mo)	ug/L	1.60	0.617	0.428	9089187	0.711	<0.050	0.050	9089187
Total Nickel (Ni)	ug/L	0.526	0.816	0.724	9089187	0.877	<0.020	0.020	9089187
Total Phosphorus (P)	ug/L	2.3	3.2	2.9	9089187	<2.0	2.5	2.0	9089187
Total Selenium (Se)	ug/L	0.061	0.076	0.086	9089187	0.090	<0.040	0.040	9089187
Total Silicon (Si)	ug/L	4970	4420	3980	9089187	5120	<50	50	9089187
Total Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	9089187	<0.0050	<0.0050	0.0050	9089187
Total Strontium (Sr)	ug/L	342	275	248	9089187	137	<0.050	0.050	9089187
Total Thallium (Tl)	ug/L	0.0027	0.0033	<0.0020	9089187	0.0044	<0.0020	0.0020	9089187
Total Tin (Sn)	ug/L	<0.20	<0.20	<0.20	9089187	<0.20	<0.20	0.20	9089187
Total Titanium (Ti)	ug/L	0.89	0.68	5.75	9089187	<0.50	<0.50	0.50	9089187
Total Uranium (U)	ug/L	35.4	11.9	1.70	9089187	6.46	<0.0020	0.0020	9089187
Total Vanadium (V)	ug/L	0.40	0.39	0.48	9089187	0.45	<0.20	0.20	9089187
RDL = Reportable Detection Limit									

Maxxam Job #: B864578
Report Date: 2018/08/14

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		TZ5982	TZ5983	TZ5984		TZ6011	TZ6013		
Sampling Date		2018/07/30 10:45	2018/07/30 16:30	2018/07/30 16:00		2018/07/30 09:25	2018/07/30 08:40		
COC Number		560075-01-01	560075-01-01	560075-01-01		560075-02-01	560075-02-01		
	UNITS	HC-2.5	HC-5.0	YT-24	QC Batch	LATTE MIX	FIELD BLANK	RDL	QC Batch
Total Zinc (Zn)	ug/L	0.21	0.12	0.53	9089187	0.29	0.11	0.10	9089187
Total Zirconium (Zr)	ug/L	0.38	0.37	0.40	9089187	0.37	<0.10	0.10	9089187
Total Calcium (Ca)	mg/L	29.3	31.7	37.3	9088398	25.4	<0.050	0.050	9088398
Total Magnesium (Mg)	mg/L	11.2	9.71	9.60	9088398	9.01	<0.050	0.050	9088398
Total Potassium (K)	mg/L	2.10	2.36	2.15	9088398	1.46	<0.050	0.050	9088398
Total Sodium (Na)	mg/L	3.27	3.67	3.75	9088398	4.34	<0.050	0.050	9088398
Total Sulphur (S)	mg/L	13.8	14.7	24.8	9088398	17.7	<3.0	3.0	9088398
RDL = Reportable Detection Limit									

Maxxam Job #: B864578
 Report Date: 2018/08/14

LORAX ENVIRONMENTAL SERVICES LTD.
 Client Project #: Gold Corp Coffee Creek-SW
 Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		TZ6013		
Sampling Date		2018/07/30 08:40		
COC Number		560075-02-01		
	UNITS	FIELD BLANK Lab-Dup	RDL	QC Batch
Elements				
Total Mercury (Hg)	ug/L	<0.0020	0.0020	9090093
Total Metals by ICPMS				
Total Aluminum (Al)	ug/L	0.71	0.50	9089187
Total Antimony (Sb)	ug/L	<0.020	0.020	9089187
Total Arsenic (As)	ug/L	<0.020	0.020	9089187
Total Barium (Ba)	ug/L	0.027	0.020	9089187
Total Beryllium (Be)	ug/L	<0.010	0.010	9089187
Total Bismuth (Bi)	ug/L	<0.0050	0.0050	9089187
Total Boron (B)	ug/L	<10	10	9089187
Total Cadmium (Cd)	ug/L	<0.0050	0.0050	9089187
Total Chromium (Cr)	ug/L	<0.10	0.10	9089187
Total Cobalt (Co)	ug/L	<0.0050	0.0050	9089187
Total Copper (Cu)	ug/L	0.060	0.050	9089187
Total Iron (Fe)	ug/L	1.5	1.0	9089187
Total Lead (Pb)	ug/L	0.0156	0.0050	9089187
Total Lithium (Li)	ug/L	<0.50	0.50	9089187
Total Manganese (Mn)	ug/L	<0.050	0.050	9089187
Total Molybdenum (Mo)	ug/L	<0.050	0.050	9089187
Total Nickel (Ni)	ug/L	<0.020	0.020	9089187
Total Phosphorus (P)	ug/L	<2.0	2.0	9089187
Total Selenium (Se)	ug/L	<0.040	0.040	9089187
Total Silicon (Si)	ug/L	<50	50	9089187
Total Silver (Ag)	ug/L	<0.0050	0.0050	9089187
Total Strontium (Sr)	ug/L	<0.050	0.050	9089187
Total Thallium (Tl)	ug/L	<0.0020	0.0020	9089187
Total Tin (Sn)	ug/L	<0.20	0.20	9089187
Total Titanium (Ti)	ug/L	<0.50	0.50	9089187
Total Uranium (U)	ug/L	<0.0020	0.0020	9089187
Total Vanadium (V)	ug/L	<0.20	0.20	9089187
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate				

Maxxam Job #: B864578
Report Date: 2018/08/14

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		TZ6013		
Sampling Date		2018/07/30 08:40		
COC Number		560075-02-01		
	UNITS	FIELD BLANK Lab-Dup	RDL	QC Batch
Total Zinc (Zn)	ug/L	<0.10	0.10	9089187
Total Zirconium (Zr)	ug/L	<0.10	0.10	9089187
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate				

Maxxam Job #: B864578
Report Date: 2018/08/14

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TZ5978		TZ5981		TZ5985		TZ5986		
Sampling Date		2018/07/30 09:40		2018/07/30 08:55		2018/07/30 15:42		2018/07/30 14:55		
COC Number		560075-01-01		560075-01-01		560075-01-01		560075-01-01		
	UNITS	CC-0.5	QC Batch	CC-4.5	QC Batch	YT-24 MIX	QC Batch	COFFEE MIX	RDL	QC Batch
Calculated Parameters										
Total Hardness (CaCO3)	mg/L	98.0	9088392	97.8	9088392	92.8	9088392	92.0	0.50	9088392
Elements										
Total Mercury (Hg)	ug/L	<0.0020	9093205	0.0028	9090118	<0.0020	9090093	<0.0020	0.0020	9090118
Total Metals by ICPMS										
Total Aluminum (Al)	ug/L	220	9093773	63.0	9093773	266	9093773	234	3.0	9093773
Total Antimony (Sb)	ug/L	0.125	9093773	0.127	9093773	0.140	9093773	0.149	0.020	9093773
Total Arsenic (As)	ug/L	0.564	9093773	0.410	9093773	0.707	9093773	0.669	0.020	9093773
Total Barium (Ba)	ug/L	54.0	9093773	59.0	9093773	53.7	9093773	51.7	0.050	9093773
Total Beryllium (Be)	ug/L	0.012	9093773	0.013	9093773	0.012	9093773	0.013	0.010	9093773
Total Bismuth (Bi)	ug/L	<0.010	9093773	<0.010	9093773	<0.010	9093773	<0.010	0.010	9093773
Total Boron (B)	ug/L	<10	9093773	<10	9093773	<10	9093773	<10	10	9093773
Total Cadmium (Cd)	ug/L	0.0113	9093773	0.0091	9093773	0.0527	9093773	0.0521	0.0050	9093773
Total Chromium (Cr)	ug/L	0.48	9093773	0.29	9093773	0.52	9093773	0.52	0.10	9093773
Total Cobalt (Co)	ug/L	0.153	9093773	0.051	9093773	0.200	9093773	0.192	0.010	9093773
Total Copper (Cu)	ug/L	2.39	9093773	2.05	9093773	1.33	9093773	1.28	0.10	9093773
Total Iron (Fe)	ug/L	258	9093773	44.4	9093773	391	9093773	353	5.0	9093773
Total Lead (Pb)	ug/L	0.082	9093773	<0.020	9093773	0.214	9093773	0.218	0.020	9093773
Total Lithium (Li)	ug/L	1.62	9093773	0.85	9093773	1.84	9093773	1.75	0.50	9093773
Total Manganese (Mn)	ug/L	12.3	9093773	4.80	9093773	20.7	9093773	17.9	0.10	9093773
Total Molybdenum (Mo)	ug/L	0.760	9093773	0.671	9093773	1.29	9093773	1.31	0.050	9093773
Total Nickel (Ni)	ug/L	1.21	9093773	0.91	9093773	1.44	9093773	1.36	0.10	9093773
Total Phosphorus (P)	ug/L	13.1	9093773	<5.0	9093773	24.9	9093773	53.3	5.0	9093773
Total Selenium (Se)	ug/L	0.103	9093773	0.079	9093773	0.322	9093773	0.335	0.040	9093773
Total Silicon (Si)	ug/L	5520	9093773	5060	9093773	3240	9093773	3080	50	9093773
Total Silver (Ag)	ug/L	<0.010	9093773	<0.010	9093773	<0.010	9093773	<0.010	0.010	9093773
Total Strontium (Sr)	ug/L	125	9093773	138	9093773	124	9093773	122	0.050	9093773
Total Thallium (Tl)	ug/L	0.0081	9093773	0.0041	9093773	0.0075	9093773	0.0063	0.0020	9093773
Total Tin (Sn)	ug/L	<0.20	9093773	<0.20	9093773	<0.20	9093773	<0.20	0.20	9093773
Total Titanium (Ti)	ug/L	10.9	9093773	<2.0	9093773	10.0	9093773	6.8	2.0	9093773
Total Uranium (U)	ug/L	6.87	9093773	3.17	9093773	1.06	9093773	1.03	0.0050	9093773
Total Vanadium (V)	ug/L	0.93	9093773	0.39	9093773	1.02	9093773	1.01	0.20	9093773
Total Zinc (Zn)	ug/L	1.1	9093773	<1.0	9093773	6.5	9093773	5.6	1.0	9093773
RDL = Reportable Detection Limit										

Maxxam Job #: B864578
Report Date: 2018/08/14

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TZ5978		TZ5981		TZ5985		TZ5986		
Sampling Date		2018/07/30 09:40		2018/07/30 08:55		2018/07/30 15:42		2018/07/30 14:55		
COC Number		560075-01-01		560075-01-01		560075-01-01		560075-01-01		
	UNITS	CC-0.5	QC Batch	CC-4.5	QC Batch	YT-24 MIX	QC Batch	COFFEE MIX	RDL	QC Batch
Total Zirconium (Zr)	ug/L	0.33	9093773	0.32	9093773	0.13	9093773	<0.10	0.10	9093773
Total Calcium (Ca)	mg/L	24.3	9088398	24.7	9088398	25.0	9088398	25.1	0.25	9088398
Total Magnesium (Mg)	mg/L	9.03	9088398	8.75	9088398	7.36	9088398	7.13	0.25	9088398
Total Potassium (K)	mg/L	1.41	9088398	1.50	9088398	0.97	9088398	0.90	0.25	9088398
Total Sodium (Na)	mg/L	4.50	9088398	4.21	9088398	2.07	9088398	2.11	0.25	9088398
Total Sulphur (S)	mg/L	16.7	9088398	16.5	9088398	7.7	9088398	7.6	3.0	9088398
RDL = Reportable Detection Limit										

Maxxam Job #: B864578
Report Date: 2018/08/14

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TZ5987		TZ6012		
Sampling Date		2018/07/30 17:00		2018/07/30 17:00		
COC Number		560075-01-01		560075-02-01		
	UNITS	HALFWAY MIX	QC Batch	DUP	RDL	QC Batch
Calculated Parameters						
Total Hardness (CaCO3)	mg/L	92.7	9088392	92.6	0.50	9088392
Elements						
Total Mercury (Hg)	ug/L	<0.0020	9090118	<0.0020	0.0020	9090093
Total Metals by ICPMS						
Total Aluminum (Al)	ug/L	187	9093773	184	3.0	9090443
Total Antimony (Sb)	ug/L	0.173	9093773	0.242	0.020	9090443
Total Arsenic (As)	ug/L	0.657	9093773	0.759	0.020	9090443
Total Barium (Ba)	ug/L	51.8	9093773	53.2	0.050	9090443
Total Beryllium (Be)	ug/L	<0.010	9093773	0.011	0.010	9090443
Total Bismuth (Bi)	ug/L	<0.010	9093773	<0.010	0.010	9090443
Total Boron (B)	ug/L	<10	9093773	<10	10	9090443
Total Cadmium (Cd)	ug/L	0.0456	9093773	0.0553	0.0050	9090443
Total Chromium (Cr)	ug/L	0.36	9093773	0.42	0.10	9090443
Total Cobalt (Co)	ug/L	0.128	9093773	0.192	0.010	9090443
Total Copper (Cu)	ug/L	1.16	9093773	1.81	0.10	9090443
Total Iron (Fe)	ug/L	247	9093773	296	5.0	9090443
Total Lead (Pb)	ug/L	0.140	9093773	0.270	0.020	9090443
Total Lithium (Li)	ug/L	1.78	9093773	1.79	0.50	9090443
Total Manganese (Mn)	ug/L	14.9	9093773	21.7	0.10	9090443
Total Molybdenum (Mo)	ug/L	1.29	9093773	1.32	0.050	9090443
Total Nickel (Ni)	ug/L	1.39	9093773	1.46	0.10	9090443
Total Phosphorus (P)	ug/L	26.3	9093773	38.5	5.0	9090443
Total Selenium (Se)	ug/L	0.332	9093773	0.325	0.040	9090443
Total Silicon (Si)	ug/L	3070	9093773	3130	50	9090443
Total Silver (Ag)	ug/L	<0.010	9093773	0.071	0.010	9090443
Total Strontium (Sr)	ug/L	122	9093773	130	0.050	9090443
Total Thallium (Tl)	ug/L	0.0054	9093773	0.0061	0.0020	9090443
Total Tin (Sn)	ug/L	<0.20	9093773	0.22	0.20	9090443
Total Titanium (Ti)	ug/L	5.3	9093773	7.2	2.0	9090443
Total Uranium (U)	ug/L	1.03	9093773	1.05	0.0050	9090443
Total Vanadium (V)	ug/L	0.80	9093773	0.82	0.20	9090443
Total Zinc (Zn)	ug/L	5.5	9093773	12.8	1.0	9090443
RDL = Reportable Detection Limit						

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LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		TZ5987		TZ6012		
Sampling Date		2018/07/30 17:00		2018/07/30 17:00		
COC Number		560075-01-01		560075-02-01		
	UNITS	HALFWAY MIX	QC Batch	DUP	RDL	QC Batch
Total Zirconium (Zr)	ug/L	<0.10	9093773	<0.10	0.10	9090443
Total Calcium (Ca)	mg/L	25.3	9088398	25.5	0.25	9088398
Total Magnesium (Mg)	mg/L	7.17	9088398	7.03	0.25	9088398
Total Potassium (K)	mg/L	0.89	9088398	1.31	0.25	9088398
Total Sodium (Na)	mg/L	2.09	9088398	2.32	0.25	9088398
Total Sulphur (S)	mg/L	7.7	9088398	8.1	3.0	9088398
RDL = Reportable Detection Limit						

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LORAX ENVIRONMENTAL SERVICES LTD.
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GENERAL COMMENTS

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER) Comments

Matrix Spike Elements by ICPMS Low Level (dissolved): Detection limits raised due to dilution to bring analyte within the calibrated range.

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9089010	ORP	2018/08/07							1.8	20
9089153	Nitrate plus Nitrite (N)	2018/08/02	107	80 - 120	102	80 - 120	<0.0020	mg/L	3.9	25
9089156	Nitrite (N)	2018/08/02	99	80 - 120	101	80 - 120	<0.0020	mg/L	NC	25
9089187	Total Aluminum (Al)	2018/08/03	99	80 - 120	101	80 - 120	<0.50	ug/L	NC	20
9089187	Total Antimony (Sb)	2018/08/03	98	80 - 120	100	80 - 120	<0.020	ug/L	NC	20
9089187	Total Arsenic (As)	2018/08/03	99	80 - 120	100	80 - 120	<0.020	ug/L	NC	20
9089187	Total Barium (Ba)	2018/08/03	98	80 - 120	98	80 - 120	<0.020	ug/L	0.37	20
9089187	Total Beryllium (Be)	2018/08/03	91	80 - 120	92	80 - 120	<0.010	ug/L	NC	20
9089187	Total Bismuth (Bi)	2018/08/03	90	80 - 120	99	80 - 120	<0.0050	ug/L	NC	20
9089187	Total Boron (B)	2018/08/03	91	80 - 120	94	80 - 120	<10	ug/L	NC	20
9089187	Total Cadmium (Cd)	2018/08/03	101	80 - 120	101	80 - 120	<0.0050	ug/L	NC	20
9089187	Total Chromium (Cr)	2018/08/03	98	80 - 120	101	80 - 120	<0.10	ug/L	NC	20
9089187	Total Cobalt (Co)	2018/08/03	97	80 - 120	99	80 - 120	<0.0050	ug/L	NC	20
9089187	Total Copper (Cu)	2018/08/03	98	80 - 120	99	80 - 120	<0.050	ug/L	8.4	20
9089187	Total Iron (Fe)	2018/08/03	97	80 - 120	100	80 - 120	<1.0	ug/L	NC	20
9089187	Total Lead (Pb)	2018/08/03	98	80 - 120	100	80 - 120	<0.0050	ug/L	6.8	20
9089187	Total Lithium (Li)	2018/08/03	92	80 - 120	96	80 - 120	<0.50	ug/L	NC	20
9089187	Total Manganese (Mn)	2018/08/03	98	80 - 120	100	80 - 120	<0.050	ug/L	NC	20
9089187	Total Molybdenum (Mo)	2018/08/03	97	80 - 120	102	80 - 120	<0.050	ug/L	NC	20
9089187	Total Nickel (Ni)	2018/08/03	98	80 - 120	100	80 - 120	<0.020	ug/L	NC	20
9089187	Total Phosphorus (P)	2018/08/03	101	80 - 120	101	80 - 120	<2.0	ug/L	NC	20
9089187	Total Selenium (Se)	2018/08/03	99	80 - 120	100	80 - 120	<0.040	ug/L	NC	20
9089187	Total Silicon (Si)	2018/08/03	97	80 - 120	101	80 - 120	<50	ug/L	NC	20
9089187	Total Silver (Ag)	2018/08/03	91	80 - 120	101	80 - 120	<0.0050	ug/L	NC	20
9089187	Total Strontium (Sr)	2018/08/03	99	80 - 120	100	80 - 120	<0.050	ug/L	NC	20
9089187	Total Thallium (Tl)	2018/08/03	98	80 - 120	99	80 - 120	<0.0020	ug/L	NC	20
9089187	Total Tin (Sn)	2018/08/03	100	80 - 120	102	80 - 120	<0.20	ug/L	NC	20
9089187	Total Titanium (Ti)	2018/08/03	97	80 - 120	100	80 - 120	<0.50	ug/L	NC	20
9089187	Total Uranium (U)	2018/08/03	99	80 - 120	102	80 - 120	<0.0020	ug/L	NC	20
9089187	Total Vanadium (V)	2018/08/03	99	80 - 120	101	80 - 120	<0.20	ug/L	NC	20
9089187	Total Zinc (Zn)	2018/08/03	102	80 - 120	100	80 - 120	<0.10	ug/L	5.1	20

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LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
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QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9089187	Total Zirconium (Zr)	2018/08/03	99	80 - 120	100	80 - 120	<0.10	ug/L	NC	20
9089599	pH	2018/08/02			101	97 - 103			1.8	20
9089602	Alkalinity (PP as CaCO3)	2018/08/02					<0.50	mg/L		
9089602	Alkalinity (Total as CaCO3)	2018/08/02	NC	80 - 120	101	80 - 120	<0.50	mg/L		
9089602	Bicarbonate (HCO3)	2018/08/02					<0.50	mg/L		
9089602	Carbonate (CO3)	2018/08/02					<0.50	mg/L		
9089602	Hydroxide (OH)	2018/08/02					<0.50	mg/L		
9089603	Conductivity	2018/08/02			99	80 - 120	1.0, RDL=1.0	uS/cm		
9089604	pH	2018/08/03			101	97 - 103			0.38	20
9089607	Alkalinity (PP as CaCO3)	2018/08/03					<0.50	mg/L	NC	20
9089607	Alkalinity (Total as CaCO3)	2018/08/03	NC	80 - 120	102	80 - 120	<0.50	mg/L	0.35	20
9089607	Bicarbonate (HCO3)	2018/08/03					<0.50	mg/L	0.35	20
9089607	Carbonate (CO3)	2018/08/03					<0.50	mg/L	NC	20
9089607	Hydroxide (OH)	2018/08/03					<0.50	mg/L	NC	20
9089608	Conductivity	2018/08/03			99	80 - 120	1.0, RDL=1.0	uS/cm	0.24	20
9089630	pH	2018/08/03			101	97 - 103				
9089633	Alkalinity (PP as CaCO3)	2018/08/03					<0.50	mg/L		
9089633	Alkalinity (Total as CaCO3)	2018/08/03			95	80 - 120	<0.50	mg/L		
9089633	Bicarbonate (HCO3)	2018/08/03					<0.50	mg/L		
9089633	Carbonate (CO3)	2018/08/03					<0.50	mg/L		
9089633	Hydroxide (OH)	2018/08/03					<0.50	mg/L		
9089634	Conductivity	2018/08/03			99	80 - 120	<1.0	uS/cm		
9090093	Total Mercury (Hg)	2018/08/03	100	80 - 120	98	80 - 120	<0.0020	ug/L	NC	20
9090118	Total Mercury (Hg)	2018/08/03	90	80 - 120	94	80 - 120	<0.0020	ug/L	2.5	20
9090233	Dissolved Mercury (Hg)	2018/08/03	92	80 - 120	98	80 - 120	<0.0020	ug/L	4.6	20
9090351	Total Dissolved Solids	2018/08/07	103	80 - 120	98	80 - 120	<10	mg/L	0.70	20
9090371	Total Suspended Solids	2018/08/07			101	80 - 120	<1.0	mg/L		
9090383	Dissolved Mercury (Hg)	2018/08/03	99	80 - 120	98	80 - 120	<0.0020	ug/L	NC	20
9090443	Total Aluminum (Al)	2018/08/08	167 (1)	80 - 120	106	80 - 120	<3.0	ug/L	29 (1)	20
9090443	Total Antimony (Sb)	2018/08/08	109	80 - 120	106	80 - 120	<0.020	ug/L	4.0	20
9090443	Total Arsenic (As)	2018/08/08	119	80 - 120	111	80 - 120	<0.020	ug/L	1.1	20

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LORAX ENVIRONMENTAL SERVICES LTD.
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QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9090443	Total Barium (Ba)	2018/08/08	111	80 - 120	109	80 - 120	<0.050	ug/L	4.0	20
9090443	Total Beryllium (Be)	2018/08/08	111	80 - 120	105	80 - 120	<0.010	ug/L	6.1	20
9090443	Total Bismuth (Bi)	2018/08/08	103	80 - 120	103	80 - 120	<0.010	ug/L	NC	20
9090443	Total Boron (B)	2018/08/08	106	80 - 120	102	80 - 120	<10	ug/L	NC	20
9090443	Total Cadmium (Cd)	2018/08/08	110	80 - 120	105	80 - 120	<0.0050	ug/L	9.3	20
9090443	Total Chromium (Cr)	2018/08/08	106	80 - 120	103	80 - 120	<0.10	ug/L	32 (1)	20
9090443	Total Cobalt (Co)	2018/08/08	103	80 - 120	102	80 - 120	<0.010	ug/L	26 (1)	20
9090443	Total Copper (Cu)	2018/08/08	101	80 - 120	101	80 - 120	<0.10	ug/L	38 (1)	20
9090443	Total Iron (Fe)	2018/08/08	149 (1)	80 - 120	107	80 - 120	<5.0	ug/L	33 (1)	20
9090443	Total Lead (Pb)	2018/08/08	107	80 - 120	106	80 - 120	<0.020	ug/L	18	20
9090443	Total Lithium (Li)	2018/08/08	111	80 - 120	104	80 - 120	<0.50	ug/L	7.6	20
9090443	Total Manganese (Mn)	2018/08/08	109	80 - 120	104	80 - 120	<0.10	ug/L	17	20
9090443	Total Molybdenum (Mo)	2018/08/08	112	80 - 120	108	80 - 120	<0.050	ug/L	3.0	20
9090443	Total Nickel (Ni)	2018/08/08	102	80 - 120	101	80 - 120	<0.10	ug/L	17	20
9090443	Total Phosphorus (P)	2018/08/08	113	80 - 120	104	80 - 120	<5.0	ug/L		
9090443	Total Selenium (Se)	2018/08/08	114	80 - 120	108	80 - 120	<0.040	ug/L	11	20
9090443	Total Silicon (Si)	2018/08/08	129 (1)	80 - 120	108	80 - 120	<50	ug/L	6.6	20
9090443	Total Silver (Ag)	2018/08/08	108	80 - 120	106	80 - 120	<0.010	ug/L	NC	20
9090443	Total Strontium (Sr)	2018/08/08	NC	80 - 120	113	80 - 120	<0.050	ug/L	0.60	20
9090443	Total Thallium (Tl)	2018/08/08	105	80 - 120	104	80 - 120	<0.0020	ug/L	9.7	20
9090443	Total Tin (Sn)	2018/08/08	106	80 - 120	105	80 - 120	<0.20	ug/L	NC	20
9090443	Total Titanium (Ti)	2018/08/08	134 (1)	80 - 120	108	80 - 120	<2.0	ug/L	32 (1)	20
9090443	Total Uranium (U)	2018/08/08	110	80 - 120	110	80 - 120	<0.0050	ug/L	1.4	20
9090443	Total Vanadium (V)	2018/08/08	109	80 - 120	105	80 - 120	<0.20	ug/L	NC	20
9090443	Total Zinc (Zn)	2018/08/08	106	80 - 120	102	80 - 120	<1.0	ug/L	18	20
9090443	Total Zirconium (Zr)	2018/08/08	120	80 - 120	107	80 - 120	<0.10	ug/L	NC	20
9090654	Dissolved Aluminum (Al)	2018/08/04	87	80 - 120	98	80 - 120	<0.50	ug/L	16	20
9090654	Dissolved Antimony (Sb)	2018/08/04	91	80 - 120	99	80 - 120	<0.020	ug/L	NC	20
9090654	Dissolved Arsenic (As)	2018/08/04	89	80 - 120	97	80 - 120	<0.020	ug/L	NC	20
9090654	Dissolved Barium (Ba)	2018/08/04	NC	80 - 120	98	80 - 120	<0.020	ug/L	NC	20
9090654	Dissolved Beryllium (Be)	2018/08/04	83	80 - 120	91	80 - 120	<0.010	ug/L	NC	20

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QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9090654	Dissolved Bismuth (Bi)	2018/08/04	83	80 - 120	98	80 - 120	<0.0050	ug/L	NC	20
9090654	Dissolved Boron (B)	2018/08/04	NC	80 - 120	86	80 - 120	<10	ug/L	NC	20
9090654	Dissolved Cadmium (Cd)	2018/08/04	89	80 - 120	100	80 - 120	<0.0050	ug/L	NC	20
9090654	Dissolved Chromium (Cr)	2018/08/04	90	80 - 120	102	80 - 120	<0.10	ug/L	NC	20
9090654	Dissolved Cobalt (Co)	2018/08/04	90	80 - 120	102	80 - 120	<0.0050	ug/L	NC	20
9090654	Dissolved Copper (Cu)	2018/08/04	90	80 - 120	102	80 - 120	<0.050	ug/L	NC	20
9090654	Dissolved Iron (Fe)	2018/08/04	95	80 - 120	103	80 - 120	<1.0	ug/L	NC	20
9090654	Dissolved Lead (Pb)	2018/08/04	86	80 - 120	99	80 - 120	<0.0050	ug/L	NC	20
9090654	Dissolved Lithium (Li)	2018/08/04	NC	80 - 120	87	80 - 120	<0.50	ug/L	NC	20
9090654	Dissolved Manganese (Mn)	2018/08/04	91	80 - 120	102	80 - 120	<0.050	ug/L	NC	20
9090654	Dissolved Molybdenum (Mo)	2018/08/04	NC	80 - 120	103	80 - 120	<0.050	ug/L	NC	20
9090654	Dissolved Nickel (Ni)	2018/08/04	88	80 - 120	103	80 - 120	<0.020	ug/L	NC	20
9090654	Dissolved Phosphorus (P)	2018/08/04	87	80 - 120	93	80 - 120	<2.0	ug/L	NC	20
9090654	Dissolved Selenium (Se)	2018/08/04	93	80 - 120	100	80 - 120	<0.040	ug/L	NC	20
9090654	Dissolved Silicon (Si)	2018/08/04	98	80 - 120	102	80 - 120	<50	ug/L	NC	20
9090654	Dissolved Silver (Ag)	2018/08/04	84	80 - 120	99	80 - 120	<0.0050	ug/L	NC	20
9090654	Dissolved Strontium (Sr)	2018/08/04	NC	80 - 120	96	80 - 120	<0.050	ug/L	NC	20
9090654	Dissolved Thallium (Tl)	2018/08/04	87	80 - 120	100	80 - 120	<0.0020	ug/L	NC	20
9090654	Dissolved Tin (Sn)	2018/08/04	89	80 - 120	99	80 - 120	<0.20	ug/L	NC	20
9090654	Dissolved Titanium (Ti)	2018/08/04	93	80 - 120	103	80 - 120	<0.50	ug/L	NC	20
9090654	Dissolved Uranium (U)	2018/08/04	88	80 - 120	102	80 - 120	<0.0020	ug/L	NC	20
9090654	Dissolved Vanadium (V)	2018/08/04	92	80 - 120	101	80 - 120	<0.20	ug/L	NC	20
9090654	Dissolved Zinc (Zn)	2018/08/04	91	80 - 120	102	80 - 120	<0.10	ug/L	NC	20
9090654	Dissolved Zirconium (Zr)	2018/08/04	91	80 - 120	97	80 - 120	<0.10	ug/L	NC	20
9090876	Dissolved Chloride (Cl)	2018/08/03	97	80 - 120	97	80 - 120	<0.50	mg/L	NC	20
9090879	Dissolved Sulphate (SO4)	2018/08/03	NC	80 - 120	98	80 - 120	0.52, RDL=0.50	mg/L	0.36	20
9090997	Fluoride (F)	2018/08/03	96	80 - 120	98	80 - 120	<0.010	mg/L	1.6	20
9091206	Fluoride (F)	2018/08/03	96	80 - 120	98	80 - 120	<0.010	mg/L	1.3	20
9091364	Total Ammonia (N)	2018/08/03			114	80 - 120	<0.0050	mg/L		
9093014	Dissolved Sulphate (SO4)	2018/08/03			103	80 - 120	<0.50	mg/L		
9093205	Total Mercury (Hg)	2018/08/07	82	80 - 120	98	80 - 120	<0.0020	ug/L	NC	20

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QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9093469	Total Organic Carbon (C)	2018/08/08	NC	80 - 120	98	80 - 120	<0.50	mg/L	16	20
9093472	Dissolved Organic Carbon (C)	2018/08/08	NC	80 - 120	98	80 - 120	<0.50	mg/L	2.1	20
9093773	Total Aluminum (Al)	2018/08/09	106	80 - 120	109	80 - 120	<3.0	ug/L	40 (1)	20
9093773	Total Antimony (Sb)	2018/08/09	106	80 - 120	106	80 - 120	<0.020	ug/L	5.6	20
9093773	Total Arsenic (As)	2018/08/09	110	80 - 120	107	80 - 120	<0.020	ug/L	0.68	20
9093773	Total Barium (Ba)	2018/08/09	104	80 - 120	106	80 - 120	<0.050	ug/L	0.56	20
9093773	Total Beryllium (Be)	2018/08/09	105	80 - 120	106	80 - 120	<0.010	ug/L	NC	20
9093773	Total Bismuth (Bi)	2018/08/09	99	80 - 120	101	80 - 120	<0.010	ug/L	NC	20
9093773	Total Boron (B)	2018/08/09	106	80 - 120	105	80 - 120	<10	ug/L	0.067	20
9093773	Total Cadmium (Cd)	2018/08/09	104	80 - 120	104	80 - 120	<0.0050	ug/L	0	20
9093773	Total Chromium (Cr)	2018/08/09	101	80 - 120	101	80 - 120	<0.10	ug/L	6.0	20
9093773	Total Cobalt (Co)	2018/08/09	98	80 - 120	99	80 - 120	<0.010	ug/L	16	20
9093773	Total Copper (Cu)	2018/08/09	95	80 - 120	98	80 - 120	<0.10	ug/L	4.3	20
9093773	Total Iron (Fe)	2018/08/09	102	80 - 120	105	80 - 120	<5.0	ug/L	NC	20
9093773	Total Lead (Pb)	2018/08/09	102	80 - 120	102	80 - 120	<0.020	ug/L	NC	20
9093773	Total Lithium (Li)	2018/08/09	104	80 - 120	105	80 - 120	<0.50	ug/L	3.2	20
9093773	Total Manganese (Mn)	2018/08/09	103	80 - 120	102	80 - 120	<0.10	ug/L	15	20
9093773	Total Molybdenum (Mo)	2018/08/09	112	80 - 120	106	80 - 120	<0.050	ug/L	0.69	20
9093773	Total Nickel (Ni)	2018/08/09	97	80 - 120	100	80 - 120	<0.10	ug/L	11	20
9093773	Total Phosphorus (P)	2018/08/09	108	80 - 120	104	80 - 120	<5.0	ug/L	NC	20
9093773	Total Selenium (Se)	2018/08/09	108	80 - 120	105	80 - 120	<0.040	ug/L	3.0	20
9093773	Total Silicon (Si)	2018/08/09	NC	80 - 120	98	80 - 120	<50	ug/L	0.77	20
9093773	Total Silver (Ag)	2018/08/09	105	80 - 120	102	80 - 120	<0.010	ug/L	NC	20
9093773	Total Strontium (Sr)	2018/08/09	NC	80 - 120	104	80 - 120	<0.050	ug/L	0.30	20
9093773	Total Thallium (Tl)	2018/08/09	102	80 - 120	102	80 - 120	<0.0020	ug/L	NC	20
9093773	Total Tin (Sn)	2018/08/09	105	80 - 120	105	80 - 120	<0.20	ug/L	NC	20
9093773	Total Titanium (Ti)	2018/08/09	110	80 - 120	104	80 - 120	<2.0	ug/L	NC	20
9093773	Total Uranium (U)	2018/08/09	108	80 - 120	104	80 - 120	<0.0050	ug/L	0.14	20
9093773	Total Vanadium (V)	2018/08/09	104	80 - 120	101	80 - 120	<0.20	ug/L	11	20
9093773	Total Zinc (Zn)	2018/08/09	99	80 - 120	103	80 - 120	<1.0	ug/L	NC	20
9093773	Total Zirconium (Zr)	2018/08/09	111	80 - 120	105	80 - 120	<0.10	ug/L	NC	20

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Report Date: 2018/08/14

QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9094250	Dissolved Organic Carbon (C)	2018/08/08	106	80 - 120	96	80 - 120	<0.50	mg/L	NC	20
9094253	Total Organic Carbon (C)	2018/08/08	106	80 - 120	96	80 - 120	<0.50	mg/L	1.3	20

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

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

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

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

Maxxam Job #: B864578
Report Date: 2018/08/14

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

VALIDATION SIGNATURE PAGE

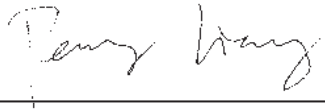
The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Andy Lu, Ph.D., P.Chem., Scientific Specialist



Mandheraj Chana, Junior Project Manager



Harry (Peng) Liang, Senior Analyst

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Maxxam Analytics International Corporation o/a Maxxam Analytics
 9331 - 48th Street, Edmonton, Alberta Canada T6B 2R4 Tel:(780) 577-7100 Toll-free:800-563-6266 Fax:(780) 450-4187 www.maxxam.ca

INVOICE TO:		Report Information		Project Information	
Company Name	#3604 LORAX ENVIRONMENTAL SERVICES LTD.	Company Name	David Flather	Quotation #	B40231
Contact Name	Aida Piaseczny	Contact Name	David Flather	P.O. #	
Address	2289 BURRARD STREET VANCOUVER BC V6J 3H9	Address		Project #	Gold Corp Coffee Creek-SW
Phone	(604) 688-7173	Phone		Project Name	
Email	aida.piaseczny@lorax.ca; shukling.ng@lorax.ca	Email	David.Flather@lorax.ca	Site #	
				Sampled By	



B864578_COC

Bottle Order #:
560075

Project Manager
Diana Cruz



CA560075-01-01

Regulatory Criteria		Special Instructions		Analysis Requested										Turnaround Time (TAT) Required					
				Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	Routine (Alk-L, EC-LL, NH4-L, pH, TDS)	TSS-Low Level	Anions (L:Cl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	Please provide advance notice for rush projects				
															Regular (Standard) TAT (will be applied if Rush TAT is not specified) Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.				
															Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____ Rush Confirmation Number _____ (call lab for #)				
<p>Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form</p> <p>Samples must be kept cool (< 10°C) from time of sampling until delivery to maxxam</p>																			
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	Routine (Alk-L, EC-LL, NH4-L, pH, TDS)	TSS-Low Level	Anions (L:Cl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	# of Baffles	Comments		
1 SID#162743	CC-0.5	July 30/18	0940h	w	N	N	X	X	X	X	X	X	X	X	X	13			
2 SID#162744	CC-1.5	}	1015h	w	}	}	X	X	X	X	X	X	X	X	X	}			
3 SID#162745	CC-3.5		0955h	w			X	X	X	X	X	X	X	X	X		X	X	
4 SID#162746	CC-4.5		0855h	w			X	X	X	X	X	X	X	X	X		X	X	
5 SID#162747	HC-2.5		1045h	w			X	X	X	X	X	X	X	X	X		X	X	
6 SID#162748	HC-5.0		1630h	w			X	X	X	X	X	X	X	X	X		X	X	
7 SID#149895	YT-24		1600h	w			X	X	X	X	X	X	X	X	X		X	X	
8 SID#149896	YT-24 Mix		0815h	w			X	X	X	X	X	X	X	X	X		X	X	
9 SID#149897	Coffee Mix		1455h	w			X	X	X	X	X	X	X	X	X		X	X	
10 SID#149898	Halfway Mix		1700h	w			X	X	X	X	X	X	X	X	X		X	X	
* RELINQUISHED BY: (Signature/Print)			Date: (YY/MM/DD)	Time			RECEIVED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	# Jars used and not submitted	Lab Use Only							
Chris Letolle		Aug 1/18	0800h	K. W. (Print)		2018/08/02	10:30	14A	Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?								
									<input type="checkbox"/>	6, 6, 6 /	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No								
* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.										With: Maxxam		Yellow: Client							
* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.										5, 6, 6 /		5, 5, 5							

RECEIVED IN WHITEHORSE
 BY: J. Murphy @ 1200
 2018-08-01
 TEMP: 11, 10, 11
 5, 9, 9
 4, 6, 9

★ 531



Maxxam Analytics International Corporation o/a Maxxam Analytics
 9331 - 48th Street, Edmonton, Alberta Canada T6B 2R4 Tel:(780) 577-7100 Toll-free:800-563-6266 Fax:(780) 450-4187 www.maxxam.ca

INVOICE TO:		Report Information		Project Information	
Company Name #3604 LORAX ENVIRONMENTAL SERVICES LTD.	Company Name Aida Piaseczny	Quotation # B40231	Bottle Order #:		
Contact Name Aida Piaseczny	Contact Name David Flather	P.O. #	560075		
Address 2289 BURRARD STREET VANCOUVER BC V6J 3H9	Address	Project # Gold Corp Coffee Creek-SW	Project Manager		
Phone (604) 688-7173	Phone (604) 688-7175	Project Name	Diana Cruz		
Email aida.piaseczny@lorax.ca; shukling.ng@lorax.ca	Email David.Flather@lorax.ca	Site #	C8560075-02-01		
Regulatory Criteria		Special Instructions		Turnaround Time (TAT) Required	



B864578_COC

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	Analysis Requested										# of Bottles	Comments
							Routine (Alk-LI, EC-LI, NH4-LI, pH, TDS)	TSS-Low Level	Anions (LI:Cl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP			
SID#149899	Latie Mix	July 30/18	0925h	w	N	N	X	X	X	X	X	X	X	X	X	13		
SID#208506	Dup	↓	1700h	w	N	N	X	X	X	X	X	X	X	X	X	13		
SID#214493	Field Blank	↓	0840h	w	N	N	X	X	X	X	X	X	X	X	X	13	Field Blnk Data # 074	
																	07248-0724	
															RECEIVED IN WHITEHORSE			
															BY: <i>[Signature]</i> @ 1200			
															2018-08-11			
															TEMP: 11 10 11 5 1 9 7 9			
															4 6 9			

RELINQUISHED BY: (Signature/Print) <i>Chris LeBeau</i>	Date: (YY/MM/DD) Aug 1/18	Time 0800h	RECEIVED BY: (Signature/Print) <i>[Signature]</i>	Date: (YY/MM/DD) 2018/08/02	Time 10:10	# Jars used and not submitted 1/1	Lab Use Only	
						Time Sensitive <input checked="" type="checkbox"/>	Temperature (°C) on Receipt 6, 6, 6	Custody Seal Intact on Cooler? <input type="checkbox"/> Yes <input type="checkbox"/> No
						White Maxxam Yellow Client		

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.
 * IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

571

Your Project #: Gold Corp Coffee Creek-SW
 Site Location: COFFEE CREEK - SURFACE WATER
 Your C.O.C. #: 555303-01-01, 555303-02-01

Attention: David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
 2289 BURRARD STREET
 VANCOUVER, BC
 CANADA V6J 3H9

Report Date: 2018/08/23

Report #: R2608223

Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B868088

Received: 2018/08/13, 09:30

Sample Matrix: Water
 # Samples Received: 13

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity - Low Level	13	N/A	2018/08/14	BBY6SOP-00026	SM 22 2320 B m
Chloride - Low Level	13	N/A	2018/08/15	BBY6SOP-00011	SM 22 4500-Cl- E m
Carbon (DOC) - field filtered/preserved (2)	13	N/A	2018/08/17	BBY6SOP-00003	SM 22 5310 C m
Conductance - Low Level	12	N/A	2018/08/14	BBY6SOP-00026	SM 22 2510 B m
Conductance - Low Level	1	N/A	2018/08/17	BBY6SOP-00026	SM 22 2510 B m
Fluoride - Low Level	13	N/A	2018/08/16	BBY6SOP-00048	SM 22 4500-F C m
Hardness Total (calculated as CaCO3) (3)	1	N/A	2018/08/17	BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO3) (3)	12	N/A	2018/08/22	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3)	13	N/A	2018/08/17	BBY WI-00033	Auto Calc
Mercury (Dissolved) by CVAf	7	N/A	2018/08/15	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Dissolved) by CVAf	6	N/A	2018/08/16	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Total) by CVAf	13	2018/08/17	2018/08/17	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	13	N/A	2018/08/17	BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (dissolved)	13	N/A	2018/08/16	BBY7SOP-00002	EPA 6020b R2 m
Elements by ICPMS Digested LL (total)	12	2018/08/20	2018/08/22	BBY7SOP-00003,	EPA 6020b R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total)	1	N/A	2018/08/17	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (total)	12	N/A	2018/08/22	BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (total)	1	N/A	2018/08/17	BBY7SOP-00002	EPA 6020b R2 m
Ammonia-N Low Level (Preserved)	13	N/A	2018/08/16	BBY6SOP-00009	EPA 350.1 m
Nitrate+Nitrite (N) (low level)	13	N/A	2018/08/15	BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrite (N) (low level)	13	N/A	2018/08/15	BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrogen - Nitrate (as N) Low Level Calc	13	N/A	2018/08/15	BBY WI-00033	Auto Calc
ORP Analysis on Water by ARD LAB	13	N/A	2018/08/15	BBY0SOP-00004	SM 22 2580 B
Filter and HNO3 Preserve for Metals	13	N/A	2018/08/15	BBY7 WI-00004	BCMOE Reqs 08/14
pH Water (4)	13	N/A	2018/08/14	BBY6SOP-00026	SM 22 4500-H+ B m
Sulphate - Low Level	13	N/A	2018/08/15	BBY6SOP-00017	SM 22 4500-SO42- E m
Total Dissolved Solids (Filt. Residue)	12	2018/08/15	2018/08/16	BBY6SOP-00033	SM 22 2540 C m
Total Dissolved Solids (Filt. Residue)	1	2018/08/15	2018/08/17	BBY6SOP-00033	SM 22 2540 C m
Carbon (Total Organic) (5)	13	N/A	2018/08/17	BBY6SOP-00003	SM 22 5310 C m
Total Suspended Solids-Low Level	13	2018/08/15	2018/08/15	BBY6SOP-00034	SM 22 2540 D

Your Project #: Gold Corp Coffee Creek-SW
 Site Location: COFFEE CREEK - SURFACE WATER
 Your C.O.C. #: 555303-01-01, 555303-02-01

Attention: David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
 2289 BURRARD STREET
 VANCOUVER, BC
 CANADA V6J 3H9

Report Date: 2018/08/23
 Report #: R2608223
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B868088

Received: 2018/08/13, 09:30

Sample Matrix: Water
 # Samples Received: 13

Analyses	Date		Laboratory Method	Analytical Method
	Quantity Extracted	Date Analyzed		
Free (WAD) Cyanide (1)	13	N/A	2018/08/23 CAM SOP-00457	OMOE E3015 5 m

Remarks:

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

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

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

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Maxxam, results relate to the supplied samples tested.

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

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

- (1) This test was performed by Maxxam Ontario (From Burnaby)
- (2) DOC present in the sample should be considered as non-purgeable DOC.
- (3) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).
- (4) The BC-MOE and APHA Standard Method require pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the BC-MOE/APHA Standard Method holding time.
- (5) TOC present in the sample should be considered as non-purgeable TOC.

Your Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Your C.O.C. #: 555303-01-01, 555303-02-01

Attention: David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
2289 BURRARD STREET
VANCOUVER, BC
CANADA V6J 3H9

Report Date: 2018/08/23
Report #: R2608223
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B868088

Received: 2018/08/13, 09:30

Encryption Key



Maxxam

23 Aug 2018 13:37:01

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Diana Cruz, Project Manager

Email: DCruz@maxxam.ca

Phone# (604) 734 7276

=====
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Maxxam Job #: B868088
Report Date: 2018/08/23

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: AC

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		UB6062			UB6062			UB6063		
Sampling Date		2018/08/11 10:55			2018/08/11 10:55			2018/08/11 12:00		
COC Number		555303-01-01			555303-01-01			555303-01-01		
	UNITS	CC-0.5	RDL	QC Batch	CC-0.5 Lab-Dup	RDL	QC Batch	CC-1.5	RDL	QC Batch
Parameter										
ORP	mV	316		9103622	320		9103622	314		9103622
Calculated Parameters										
Filter and HNO3 Preservation	N/A	LAB		9102731				LAB		9102731
Nitrate (N)	mg/L	0.334	0.0020	9102544				0.349	0.0020	9102544
Misc. Inorganics										
Fluoride (F)	mg/L	0.058	0.010	9104843				0.045	0.010	9104843
Free Cyanide	mg/L	<0.0010	0.0010	9114571	<0.0010	0.0010	9114571	<0.0010	0.0010	9114571
Dissolved Organic Carbon (C)	mg/L	17.5	0.50	9106804				12.5	0.50	9106804
Alkalinity (Total as CaCO3)	mg/L	26.2	0.50	9105616				48.6	0.50	9105616
Total Organic Carbon (C)	mg/L	18.7	0.50	9106806				13.1	0.50	9106806
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	9105616				<0.50	0.50	9105616
Bicarbonate (HCO3)	mg/L	32.0	0.50	9105616				59.3	0.50	9105616
Carbonate (CO3)	mg/L	<0.50	0.50	9105616				<0.50	0.50	9105616
Hydroxide (OH)	mg/L	<0.50	0.50	9105616				<0.50	0.50	9105616
Anions										
Dissolved Sulphate (SO4)	mg/L	19.7	0.50	9103764				35.9	0.50	9103764
Dissolved Chloride (Cl)	mg/L	1.1	0.50	9103763				0.78	0.50	9103763
Nutrients										
Total Ammonia (N)	mg/L	0.0060	0.0050	9106525				0.030	0.0050	9106525
Nitrate plus Nitrite (N)	mg/L	0.334	0.0020	9103724				0.349	0.0020	9103724
Nitrite (N)	mg/L	<0.0020	0.0020	9103727				<0.0020	0.0020	9103727
Physical Properties										
Conductivity	uS/cm	113	1.0	9105620				184	1.0	9105620
pH	pH	7.16		9105618				7.53		9105618
Physical Properties										
Total Suspended Solids	mg/L	11.8	1.0	9103086				6.2	1.0	9103086
Total Dissolved Solids	mg/L	80	10	9103256				128	10	9103256
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B868088
Report Date: 2018/08/23

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: AC

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		UB6064			UB6064			UB6065		
Sampling Date		2018/08/11 11:20			2018/08/11 11:20			2018/08/11 09:45		
COC Number		555303-01-01			555303-01-01			555303-01-01		
	UNITS	CC-3.5	RDL	QC Batch	CC-3.5 Lab-Dup	RDL	QC Batch	CC-4.5	RDL	QC Batch
Parameter										
ORP	mV	311		9103622				315		9103622
Calculated Parameters										
Filter and HNO3 Preservation	N/A	LAB		9102731				LAB		9102731
Nitrate (N)	mg/L	0.371	0.0020	9102544				0.358	0.0020	9102544
Misc. Inorganics										
Fluoride (F)	mg/L	0.056	0.010	9104843	0.055	0.010	9104843	0.062	0.010	9104843
Free Cyanide	mg/L	<0.0010	0.0010	9114571				<0.0010	0.0010	9114571
Dissolved Organic Carbon (C)	mg/L	16.2	0.50	9106804				18.1	0.50	9106804
Alkalinity (Total as CaCO3)	mg/L	42.5	0.50	9105616				30.4	0.50	9105616
Total Organic Carbon (C)	mg/L	16.9	0.50	9106806				18.1	0.50	9106806
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	9105616				<0.50	0.50	9105616
Bicarbonate (HCO3)	mg/L	51.9	0.50	9105616				37.1	0.50	9105616
Carbonate (CO3)	mg/L	<0.50	0.50	9105616				<0.50	0.50	9105616
Hydroxide (OH)	mg/L	<0.50	0.50	9105616				<0.50	0.50	9105616
Anions										
Dissolved Sulphate (SO4)	mg/L	35.4	0.50	9103764				23.9	0.50	9104180
Dissolved Chloride (Cl)	mg/L	0.87	0.50	9103763				0.99	0.50	9103763
Nutrients										
Total Ammonia (N)	mg/L	0.0060	0.0050	9106525				<0.0050	0.0050	9106525
Nitrate plus Nitrite (N)	mg/L	0.371	0.0020	9103724				0.358	0.0020	9103793
Nitrite (N)	mg/L	<0.0020	0.0020	9103727				<0.0020	0.0020	9103794
Physical Properties										
Conductivity	uS/cm	171	1.0	9105620				119	1.0	9105620
pH	pH	7.40		9105618				7.21		9105618
Physical Properties										
Total Suspended Solids	mg/L	12.3	1.0	9103086				12.9	1.0	9103086
Total Dissolved Solids	mg/L	118	10	9103256				90	10	9103256
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B868088
Report Date: 2018/08/23

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: AC

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		UB6066			UB6066			UB6067		
Sampling Date		2018/08/11 13:50			2018/08/11 13:50			2018/08/11 17:50		
COC Number		555303-01-01			555303-01-01			555303-01-01		
	UNITS	HC-2.5	RDL	QC Batch	HC-2.5 Lab-Dup	RDL	QC Batch	HC-5.0	RDL	QC Batch
Parameter										
ORP	mV	307		9103622				301		9103622
Calculated Parameters										
Filter and HNO3 Preservation	N/A	LAB		9102731				LAB		9102731
Nitrate (N)	mg/L	0.492	0.0020	9102544				0.465	0.0020	9102544
Misc. Inorganics										
Fluoride (F)	mg/L	0.045	0.010	9104843				0.062	0.010	9104843
Free Cyanide	mg/L	<0.0010	0.0010	9114571				<0.0010	0.0010	9114571
Dissolved Organic Carbon (C)	mg/L	16.0	0.50	9106804				16.9	0.50	9106804
Alkalinity (Total as CaCO3)	mg/L	38.3	0.50	9105616				46.9	0.50	9105616
Total Organic Carbon (C)	mg/L	15.4	0.50	9106806				17.2	0.50	9106806
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	9105616				<0.50	0.50	9105616
Bicarbonate (HCO3)	mg/L	46.8	0.50	9105616				57.3	0.50	9105616
Carbonate (CO3)	mg/L	<0.50	0.50	9105616				<0.50	0.50	9105616
Hydroxide (OH)	mg/L	<0.50	0.50	9105616				<0.50	0.50	9105616
Anions										
Dissolved Sulphate (SO4)	mg/L	14.5	0.50	9103762	13.8	0.50	9103762	22.2	0.50	9103762
Dissolved Chloride (Cl)	mg/L	0.71	0.50	9103761	0.59	0.50	9103761	0.96	0.50	9103761
Nutrients										
Total Ammonia (N)	mg/L	<0.0050	0.0050	9106525				0.0090	0.0050	9106525
Nitrate plus Nitrite (N)	mg/L	0.492	0.0020	9103722				0.465	0.0020	9103724
Nitrite (N)	mg/L	<0.0020	0.0020	9103723				<0.0020	0.0020	9103727
Physical Properties										
Conductivity	uS/cm	129	1.0	9105620				162	1.0	9105620
pH	pH	7.59		9105618				7.46		9105618
Physical Properties										
Total Suspended Solids	mg/L	10.2	1.0	9103086				6.8	1.0	9103086
Total Dissolved Solids	mg/L	92	10	9103256				118	10	9103256
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B868088
Report Date: 2018/08/23

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: AC

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		UB6068			UB6068		UB6069	UB6070		
Sampling Date		2018/08/11 18:45			2018/08/11 18:45		2018/08/11 18:15	2018/08/11 17:00		
COC Number		555303-01-01			555303-01-01		555303-01-01	555303-01-01		
	UNITS	YT-24	RDL	QC Batch	YT-24 Lab-Dup	QC Batch	YT-24MIX	COFFEE MIX	RDL	QC Batch
Parameter										
ORP	mV	316		9103622	319	9103622	299	288		9103622
Calculated Parameters										
Filter and HNO3 Preservation	N/A	LAB		9102731			LAB	LAB		9102731
Nitrate (N)	mg/L	0.850	0.0020	9102544			0.0512	0.0500	0.0020	9102544
Misc. Inorganics										
Fluoride (F)	mg/L	0.063	0.010	9104843			0.110	0.120	0.010	9104843
Free Cyanide	mg/L	<0.0010	0.0010	9114571			<0.0010	<0.0010	0.0010	9114571
Dissolved Organic Carbon (C)	mg/L	15.3	0.50	9106804			5.20	5.16	0.50	9106804
Alkalinity (Total as CaCO3)	mg/L	40.9	0.50	9105616			65.9	65.3	0.50	9105616
Total Organic Carbon (C)	mg/L	16.8	0.50	9106806			5.34	4.98	0.50	9106806
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	9105616			<0.50	<0.50	0.50	9105616
Bicarbonate (HCO3)	mg/L	49.9	0.50	9105616			80.4	79.7	0.50	9105616
Carbonate (CO3)	mg/L	<0.50	0.50	9105616			<0.50	<0.50	0.50	9105616
Hydroxide (OH)	mg/L	<0.50	0.50	9105616			<0.50	<0.50	0.50	9105616
Anions										
Dissolved Sulphate (SO4)	mg/L	29.0	0.50	9103764			25.1	26.2	0.50	9103764
Dissolved Chloride (Cl)	mg/L	1.3	0.50	9103763			0.59	0.58	0.50	9103763
Nutrients										
Total Ammonia (N)	mg/L	0.11	0.0050	9106525			0.010	0.028	0.0050	9106525
Nitrate plus Nitrite (N)	mg/L	0.850	0.0020	9103724			0.0512	0.0500	0.0020	9103724
Nitrite (N)	mg/L	<0.0020	0.0020	9103727			<0.0020	<0.0020	0.0020	9103727
Physical Properties										
Conductivity	uS/cm	166	1.0	9105620			183	185	1.0	9105620
pH	pH	7.34		9105618			7.68	7.69		9105618
Physical Properties										
Total Suspended Solids	mg/L	14.7	1.0	9103086			18.4	22.6	1.0	9103086
Total Dissolved Solids	mg/L	100	10	9103256			112	112	10	9103256
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B868088
Report Date: 2018/08/23

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: AC

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		UB6071		UB6072		UB6073		UB6074		
Sampling Date		2018/08/11 17:30		2018/08/11 10:20		2018/08/11 18:15		2018/08/11 16:00		
COC Number		555303-01-01		555303-02-01		555303-02-01		555303-02-01		
	UNITS	HALFWAY MIX	QC Batch	LATTE MIX	QC Batch	DUP	QC Batch	FIELD BLANK	RDL	QC Batch
Parameter										
ORP	mV	282	9103622	308	9103622	295	9103622	327		9103622
Calculated Parameters										
Filter and HNO3 Preservation	N/A	LAB	9102731	LAB	9102731	LAB	9102731	LAB		9102731
Nitrate (N)	mg/L	0.0991	9102544	0.337	9102544	0.0471	9102544	<0.0020	0.0020	9102544
Misc. Inorganics										
Fluoride (F)	mg/L	0.110	9104843	0.058	9104843	0.110	9104843	<0.010	0.010	9104843
Free Cyanide	mg/L	<0.0010	9114571	<0.0010	9114571	<0.0010	9114571	<0.0010	0.0010	9114571
Dissolved Organic Carbon (C)	mg/L	6.32	9106804	17.0	9106804	4.89	9106804	0.55	0.50	9106804
Alkalinity (Total as CaCO3)	mg/L	63.4	9105616	28.1	9105616	64.1	9105616	<0.50	0.50	9105605
Total Organic Carbon (C)	mg/L	6.14	9106806	17.7	9106806	5.41	9106806	1.41	0.50	9106806
Alkalinity (PP as CaCO3)	mg/L	<0.50	9105616	<0.50	9105616	<0.50	9105616	<0.50	0.50	9105605
Bicarbonate (HCO3)	mg/L	77.3	9105616	34.2	9105616	78.1	9105616	<0.50	0.50	9105605
Carbonate (CO3)	mg/L	<0.50	9105616	<0.50	9105616	<0.50	9105616	<0.50	0.50	9105605
Hydroxide (OH)	mg/L	<0.50	9105616	<0.50	9105616	<0.50	9105616	<0.50	0.50	9105605
Anions										
Dissolved Sulphate (SO4)	mg/L	25.3	9103764	21.8	9103762	25.7	9103762	<0.50	0.50	9103764
Dissolved Chloride (Cl)	mg/L	0.75	9103763	0.96	9103761	0.66	9103761	<0.50	0.50	9103763
Nutrients										
Total Ammonia (N)	mg/L	0.010	9106525	0.013	9106525	<0.0050	9106525	<0.0050	0.0050	9106525
Nitrate plus Nitrite (N)	mg/L	0.0991	9103724	0.340	9103724	0.0509	9103722	<0.0020	0.0020	9103724
Nitrite (N)	mg/L	<0.0020	9103727	0.0033	9103727	0.0038	9103723	<0.0020	0.0020	9103727
Physical Properties										
Conductivity	uS/cm	183	9105620	128	9105620	202	9105620	1.3	1.0	9105607
pH	pH	7.64	9105618	7.25	9105618	7.67	9105618	4.95		9105606
Physical Properties										
Total Suspended Solids	mg/L	8.9	9103086	11.2	9103086	17.5	9103086	<1.0	1.0	9103086
Total Dissolved Solids	mg/L	102	9103256	76	9103256	104	9103256	<10	10	9103500
RDL = Reportable Detection Limit										

Maxxam Job #: B868088
Report Date: 2018/08/23

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: AC

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		UB6062		UB6063		UB6064		UB6065		
Sampling Date		2018/08/11 10:55		2018/08/11 12:00		2018/08/11 11:20		2018/08/11 09:45		
COC Number		555303-01-01		555303-01-01		555303-01-01		555303-01-01		
	UNITS	CC-0.5	QC Batch	CC-1.5	QC Batch	CC-3.5	QC Batch	CC-4.5	RDL	QC Batch
Calculated Parameters										
Dissolved Hardness (CaCO3)	mg/L	45.3	9101737	95.4	9101737	81.0	9101737	55.5	0.50	9101737
Elements										
Dissolved Mercury (Hg)	ug/L	0.0060	9103406	0.0058	9105186	0.0061	9103406	0.0055	0.0020	9105186
Dissolved Metals by ICPMS										
Dissolved Aluminum (Al)	ug/L	205	9103314	168	9103314	137	9103314	180	0.50	9103314
Dissolved Antimony (Sb)	ug/L	0.122	9103314	0.118	9103314	0.107	9103314	0.125	0.020	9103314
Dissolved Arsenic (As)	ug/L	0.550	9103314	0.652	9103314	0.469	9103314	0.540	0.020	9103314
Dissolved Barium (Ba)	ug/L	34.2	9103314	32.2	9103314	34.7	9103314	37.6	0.020	9103314
Dissolved Beryllium (Be)	ug/L	0.020	9103314	0.030	9103314	0.021	9103314	0.020	0.010	9103314
Dissolved Bismuth (Bi)	ug/L	<0.0050	9103314	<0.0050	9103314	<0.0050	9103314	<0.0050	0.0050	9103314
Dissolved Boron (B)	ug/L	<10	9103314	<10	9103314	<10	9103314	<10	10	9103314
Dissolved Cadmium (Cd)	ug/L	0.0115	9103314	0.0077	9103314	0.0065	9103314	0.0099	0.0050	9103314
Dissolved Chromium (Cr)	ug/L	0.62	9103314	0.50	9103314	0.56	9103314	0.60	0.10	9103314
Dissolved Cobalt (Co)	ug/L	0.129	9103314	0.0897	9103314	0.0954	9103314	0.111	0.0050	9103314
Dissolved Copper (Cu)	ug/L	3.17	9103314	1.71	9103314	2.05	9103314	3.00	0.050	9103314
Dissolved Iron (Fe)	ug/L	190	9103314	124	9103314	118	9103314	162	1.0	9103314
Dissolved Lead (Pb)	ug/L	0.0132	9103314	0.0098	9103314	0.0173	9103314	0.0151	0.0050	9103314
Dissolved Lithium (Li)	ug/L	0.60	9103314	1.27	9103314	0.63	9103314	0.57	0.50	9103314
Dissolved Manganese (Mn)	ug/L	5.94	9103314	11.1	9103314	4.25	9103314	5.22	0.050	9103314
Dissolved Molybdenum (Mo)	ug/L	0.540	9103314	0.119	9103314	0.171	9103314	0.512	0.050	9103314
Dissolved Nickel (Ni)	ug/L	1.37	9103314	0.785	9103314	0.785	9103314	1.27	0.020	9103314
Dissolved Phosphorus (P)	ug/L	4.3	9103314	5.1	9103314	3.8	9103314	4.0	2.0	9103314
Dissolved Selenium (Se)	ug/L	0.091	9103314	0.099	9103314	0.074	9103314	0.083	0.040	9103314
Dissolved Silicon (Si)	ug/L	4880	9103314	5020	9103314	4900	9103314	4860	50	9103314
Dissolved Silver (Ag)	ug/L	<0.0050	9103314	<0.0050	9103314	<0.0050	9103314	<0.0050	0.0050	9103314
Dissolved Strontium (Sr)	ug/L	55.3	9103314	205	9103314	155	9103314	74.6	0.050	9103314
Dissolved Thallium (Tl)	ug/L	0.0047	9103314	0.0022	9103314	0.0022	9103314	0.0046	0.0020	9103314
Dissolved Tin (Sn)	ug/L	<0.20	9103314	<0.20	9103314	<0.20	9103314	<0.20	0.20	9103314
Dissolved Titanium (Ti)	ug/L	2.25	9103314	1.26	9103314	1.31	9103314	1.57	0.50	9103314
Dissolved Uranium (U)	ug/L	1.63	9103314	5.82	9103314	2.87	9103314	1.80	0.0020	9103314
Dissolved Vanadium (V)	ug/L	0.66	9103314	0.38	9103314	0.44	9103314	0.64	0.20	9103314
RDL = Reportable Detection Limit										

Maxxam Job #: B868088
Report Date: 2018/08/23

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: AC

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		UB6062		UB6063		UB6064		UB6065		
Sampling Date		2018/08/11 10:55		2018/08/11 12:00		2018/08/11 11:20		2018/08/11 09:45		
COC Number		555303-01-01		555303-01-01		555303-01-01		555303-01-01		
	UNITS	CC-0.5	QC Batch	CC-1.5	QC Batch	CC-3.5	QC Batch	CC-4.5	RDL	QC Batch
Dissolved Zinc (Zn)	ug/L	0.49	9103314	0.49	9103314	0.27	9103314	0.51	0.10	9103314
Dissolved Zirconium (Zr)	ug/L	0.85	9103314	0.84	9103314	1.01	9103314	0.87	0.10	9103314
Dissolved Calcium (Ca)	mg/L	11.8	9101805	24.9	9101805	21.7	9101805	14.6	0.050	9101805
Dissolved Magnesium (Mg)	mg/L	3.82	9101805	8.06	9101805	6.53	9101805	4.65	0.050	9101805
Dissolved Potassium (K)	mg/L	0.792	9101805	1.32	9101805	1.38	9101805	0.930	0.050	9101805
Dissolved Sodium (Na)	mg/L	2.30	9101805	1.99	9101805	2.47	9101805	2.48	0.050	9101805
Dissolved Sulphur (S)	mg/L	5.3	9101805	12.5	9101805	11.3	9101805	6.8	3.0	9101805
RDL = Reportable Detection Limit										

Maxxam Job #: B868088
Report Date: 2018/08/23

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: AC

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		UB6066		UB6067	UB6068	UB6069		
Sampling Date		2018/08/11 13:50		2018/08/11 17:50	2018/08/11 18:45	2018/08/11 18:15		
COC Number		555303-01-01		555303-01-01	555303-01-01	555303-01-01		
	UNITS	HC-2.5	QC Batch	HC-5.0	YT-24	YT-24MIX	RDL	QC Batch
Calculated Parameters								
Dissolved Hardness (CaCO3)	mg/L	51.7	9101737	70.1	74.3	86.0	0.50	9101737
Elements								
Dissolved Mercury (Hg)	ug/L	0.0059	9105186	0.0046	0.0049	<0.0020	0.0020	9103406
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	ug/L	192	9103314	105	86.0	27.8	0.50	9103314
Dissolved Antimony (Sb)	ug/L	0.291	9103314	0.246	0.274	0.106	0.020	9103314
Dissolved Arsenic (As)	ug/L	1.14	9103314	0.789	0.671	0.519	0.020	9103314
Dissolved Barium (Ba)	ug/L	30.0	9103314	35.2	43.5	41.7	0.020	9103314
Dissolved Beryllium (Be)	ug/L	0.023	9103314	0.017	0.022	<0.010	0.010	9103314
Dissolved Bismuth (Bi)	ug/L	<0.0050	9103314	<0.0050	<0.0050	<0.0050	0.0050	9103314
Dissolved Boron (B)	ug/L	<10	9103314	<10	<10	<10	10	9103314
Dissolved Cadmium (Cd)	ug/L	0.0075	9103314	<0.0050	<0.0050	0.0201	0.0050	9103314
Dissolved Chromium (Cr)	ug/L	0.68	9103314	0.53	0.46	0.13	0.10	9103314
Dissolved Cobalt (Co)	ug/L	0.132	9103314	0.0808	0.118	0.0139	0.0050	9103314
Dissolved Copper (Cu)	ug/L	1.95	9103314	2.18	2.19	0.998	0.050	9103314
Dissolved Iron (Fe)	ug/L	172	9103314	88.8	103	18.9	1.0	9103314
Dissolved Lead (Pb)	ug/L	0.0149	9103314	0.0076	0.0161	0.0137	0.0050	9103314
Dissolved Lithium (Li)	ug/L	0.74	9103314	0.73	<0.50	1.34	0.50	9103314
Dissolved Manganese (Mn)	ug/L	6.11	9103314	1.08	6.56	0.514	0.050	9103314
Dissolved Molybdenum (Mo)	ug/L	0.628	9103314	0.556	0.454	1.24	0.050	9103314
Dissolved Nickel (Ni)	ug/L	0.954	9103314	0.950	0.894	0.763	0.020	9103314
Dissolved Phosphorus (P)	ug/L	4.8	9103314	3.9	8.0	<2.0	2.0	9103314
Dissolved Selenium (Se)	ug/L	0.061	9103314	0.067	0.073	0.232	0.040	9103314
Dissolved Silicon (Si)	ug/L	4830	9103314	4660	4140	2770	50	9103314
Dissolved Silver (Ag)	ug/L	<0.0050	9103314	<0.0050	<0.0050	<0.0050	0.0050	9103314
Dissolved Strontium (Sr)	ug/L	142	9103314	157	111	117	0.050	9103314
Dissolved Thallium (Tl)	ug/L	0.0032	9103314	0.0030	0.0027	0.0024	0.0020	9103314
Dissolved Tin (Sn)	ug/L	<0.20	9103314	<0.20	<0.20	<0.20	0.20	9103314
Dissolved Titanium (Ti)	ug/L	2.40	9103314	1.49	1.25	<0.50	0.50	9103314
Dissolved Uranium (U)	ug/L	8.84	9103314	5.73	1.97	1.30	0.0020	9103314
Dissolved Vanadium (V)	ug/L	0.62	9103314	0.51	0.60	0.29	0.20	9103314
RDL = Reportable Detection Limit								

Maxxam Job #: B868088
Report Date: 2018/08/23

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: AC

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		UB6066		UB6067	UB6068	UB6069		
Sampling Date		2018/08/11 13:50		2018/08/11 17:50	2018/08/11 18:45	2018/08/11 18:15		
COC Number		555303-01-01		555303-01-01	555303-01-01	555303-01-01		
	UNITS	HC-2.5	QC Batch	HC-5.0	YT-24	YT-24MIX	RDL	QC Batch
Dissolved Zinc (Zn)	ug/L	0.38	9103314	0.18	0.39	0.72	0.10	9103314
Dissolved Zirconium (Zr)	ug/L	0.94	9103314	0.78	0.83	<0.10	0.10	9103314
Dissolved Calcium (Ca)	mg/L	14.1	9101805	19.0	20.8	23.6	0.050	9101805
Dissolved Magnesium (Mg)	mg/L	4.01	9101805	5.47	5.40	6.59	0.050	9101805
Dissolved Potassium (K)	mg/L	1.16	9101805	1.51	1.25	0.818	0.050	9101805
Dissolved Sodium (Na)	mg/L	1.67	9101805	2.17	2.25	2.16	0.050	9101805
Dissolved Sulphur (S)	mg/L	3.8	9101805	6.0	8.9	7.2	3.0	9101805
RDL = Reportable Detection Limit								

Maxxam Job #: B868088
Report Date: 2018/08/23

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: AC

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		UB6069			UB6070	UB6071		UB6072		
Sampling Date		2018/08/11 18:15			2018/08/11 17:00	2018/08/11 17:30		2018/08/11 10:20		
COC Number		555303-01-01			555303-01-01	555303-01-01		555303-02-01		
	UNITS	YT-24MIX Lab-Dup	RDL	QC Batch	COFFEE MIX	HALFWAY MIX	QC Batch	LATTE MIX	RDL	QC Batch

Calculated Parameters										
Dissolved Hardness (CaCO3)	mg/L				86.3	84.8	9101737	52.0	0.50	9101737
Elements										
Dissolved Mercury (Hg)	ug/L				<0.0020	<0.0020	9105186	0.0055	0.0020	9103406
Dissolved Metals by ICPMS										
Dissolved Aluminum (Al)	ug/L	28.0	0.50	9103314	25.9	36.0	9103314	200	0.50	9103314
Dissolved Antimony (Sb)	ug/L	0.109	0.020	9103314	0.113	0.128	9103314	0.126	0.020	9103314
Dissolved Arsenic (As)	ug/L	0.497	0.020	9103314	0.499	0.516	9103314	0.526	0.020	9103314
Dissolved Barium (Ba)	ug/L	41.8	0.020	9103314	41.8	41.8	9103314	35.7	0.020	9103314
Dissolved Beryllium (Be)	ug/L	<0.010	0.010	9103314	<0.010	<0.010	9103314	0.022	0.010	9103314
Dissolved Bismuth (Bi)	ug/L	<0.0050	0.0050	9103314	<0.0050	<0.0050	9103314	<0.0050	0.0050	9103314
Dissolved Boron (B)	ug/L	<10	10	9103314	<10	<10	9103314	<10	10	9103314
Dissolved Cadmium (Cd)	ug/L	0.0189	0.0050	9103314	0.0183	0.0178	9103314	0.0090	0.0050	9103314
Dissolved Chromium (Cr)	ug/L	0.12	0.10	9103314	0.12	0.16	9103314	0.64	0.10	9103314
Dissolved Cobalt (Co)	ug/L	0.0175	0.0050	9103314	0.0176	0.0241	9103314	0.134	0.0050	9103314
Dissolved Copper (Cu)	ug/L	0.968	0.050	9103314	0.993	1.15	9103314	3.09	0.050	9103314
Dissolved Iron (Fe)	ug/L	18.1	1.0	9103314	18.1	22.6	9103314	184	1.0	9103314
Dissolved Lead (Pb)	ug/L	0.0147	0.0050	9103314	0.0110	0.0091	9103314	0.0154	0.0050	9103314
Dissolved Lithium (Li)	ug/L	1.33	0.50	9103314	1.31	1.26	9103314	0.63	0.50	9103314
Dissolved Manganese (Mn)	ug/L	0.540	0.050	9103314	0.582	1.04	9103314	5.74	0.050	9103314
Dissolved Molybdenum (Mo)	ug/L	1.19	0.050	9103314	1.21	1.19	9103314	0.517	0.050	9103314
Dissolved Nickel (Ni)	ug/L	0.733	0.020	9103314	0.695	0.796	9103314	1.30	0.020	9103314
Dissolved Phosphorus (P)	ug/L	<2.0	2.0	9103314	2.4	2.8	9103314	7.0	2.0	9103314
Dissolved Selenium (Se)	ug/L	0.240	0.040	9103314	0.241	0.213	9103314	0.100	0.040	9103314
Dissolved Silicon (Si)	ug/L	2730	50	9103314	2810	2890	9103314	5010	50	9103314
Dissolved Silver (Ag)	ug/L	<0.0050	0.0050	9103314	<0.0050	<0.0050	9103314	<0.0050	0.0050	9103314
Dissolved Strontium (Sr)	ug/L	117	0.050	9103314	118	122	9103314	72.7	0.050	9103314
Dissolved Thallium (Tl)	ug/L	0.0026	0.0020	9103314	0.0023	0.0024	9103314	0.0042	0.0020	9103314
Dissolved Tin (Sn)	ug/L	<0.20	0.20	9103314	<0.20	<0.20	9103314	<0.20	0.20	9103314
Dissolved Titanium (Ti)	ug/L	<0.50	0.50	9103314	<0.50	<0.50	9103314	1.95	0.50	9103314
Dissolved Uranium (U)	ug/L	1.31	0.0020	9103314	1.21	1.80	9103314	1.95	0.0020	9103314

RDL = Reportable Detection Limit

Lab-Dup = Laboratory Initiated Duplicate

Maxxam Job #: B868088
Report Date: 2018/08/23

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: AC

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		UB6069			UB6070	UB6071		UB6072		
Sampling Date		2018/08/11 18:15			2018/08/11 17:00	2018/08/11 17:30		2018/08/11 10:20		
COC Number		555303-01-01			555303-01-01	555303-01-01		555303-02-01		
	UNITS	YT-24MIX Lab-Dup	RDL	QC Batch	COFFEE MIX	HALFWAY MIX	QC Batch	LATTE MIX	RDL	QC Batch
Dissolved Vanadium (V)	ug/L	0.29	0.20	9103314	0.26	0.34	9103314	0.65	0.20	9103314
Dissolved Zinc (Zn)	ug/L	0.70	0.10	9103314	0.68	1.24	9103314	0.55	0.10	9103314
Dissolved Zirconium (Zr)	ug/L	<0.10	0.10	9103314	<0.10	0.15	9103314	0.96	0.10	9103314
Dissolved Calcium (Ca)	mg/L				23.8	23.2	9101805	13.7	0.050	9101805
Dissolved Magnesium (Mg)	mg/L				6.54	6.50	9101805	4.34	0.050	9101805
Dissolved Potassium (K)	mg/L				0.809	0.925	9101805	0.906	0.050	9101805
Dissolved Sodium (Na)	mg/L				2.13	2.20	9101805	2.40	0.050	9101805
Dissolved Sulphur (S)	mg/L				7.2	7.3	9101805	6.2	3.0	9101805

RDL = Reportable Detection Limit

Lab-Dup = Laboratory Initiated Duplicate

Maxxam Job #: B868088
Report Date: 2018/08/23

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: AC

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		UB6073		UB6074		
Sampling Date		2018/08/11 18:15		2018/08/11 16:00		
COC Number		555303-02-01		555303-02-01		
	UNITS	DUP	QC Batch	FIELD BLANK	RDL	QC Batch
Calculated Parameters						
Dissolved Hardness (CaCO3)	mg/L	90.1	9101737	<0.50	0.50	9101737
Elements						
Dissolved Mercury (Hg)	ug/L	<0.0020	9105186	<0.0020	0.0020	9103406
Dissolved Metals by ICPMS						
Dissolved Aluminum (Al)	ug/L	31.2	9103314	<0.50	0.50	9103314
Dissolved Antimony (Sb)	ug/L	0.118	9103314	<0.020	0.020	9103314
Dissolved Arsenic (As)	ug/L	0.513	9103314	<0.020	0.020	9103314
Dissolved Barium (Ba)	ug/L	43.0	9103314	<0.020	0.020	9103314
Dissolved Beryllium (Be)	ug/L	<0.010	9103314	<0.010	0.010	9103314
Dissolved Bismuth (Bi)	ug/L	<0.0050	9103314	<0.0050	0.0050	9103314
Dissolved Boron (B)	ug/L	<10	9103314	<10	10	9103314
Dissolved Cadmium (Cd)	ug/L	0.0193	9103314	<0.0050	0.0050	9103314
Dissolved Chromium (Cr)	ug/L	0.12	9103314	<0.10	0.10	9103314
Dissolved Cobalt (Co)	ug/L	0.0161	9103314	<0.0050	0.0050	9103314
Dissolved Copper (Cu)	ug/L	1.15	9103314	<0.050	0.050	9103314
Dissolved Iron (Fe)	ug/L	20.5	9103314	<1.0	1.0	9103314
Dissolved Lead (Pb)	ug/L	0.0132	9103314	<0.0050	0.0050	9103314
Dissolved Lithium (Li)	ug/L	1.42	9103314	<0.50	0.50	9103314
Dissolved Manganese (Mn)	ug/L	0.582	9103314	<0.050	0.050	9103314
Dissolved Molybdenum (Mo)	ug/L	1.26	9103314	<0.050	0.050	9103314
Dissolved Nickel (Ni)	ug/L	0.733	9103314	<0.020	0.020	9103314
Dissolved Phosphorus (P)	ug/L	18.2	9103314	<2.0	2.0	9103314
Dissolved Selenium (Se)	ug/L	0.233	9103314	<0.040	0.040	9103314
Dissolved Silicon (Si)	ug/L	2850	9103314	<50	50	9103314
Dissolved Silver (Ag)	ug/L	<0.0050	9103314	<0.0050	0.0050	9103314
Dissolved Strontium (Sr)	ug/L	120	9103314	<0.050	0.050	9103314
Dissolved Thallium (Tl)	ug/L	0.0027	9103314	<0.0020	0.0020	9103314
Dissolved Tin (Sn)	ug/L	<0.20	9103314	<0.20	0.20	9103314
Dissolved Titanium (Ti)	ug/L	<0.50	9103314	<0.50	0.50	9103314
Dissolved Uranium (U)	ug/L	1.35	9103314	<0.0020	0.0020	9103314
Dissolved Vanadium (V)	ug/L	0.35	9103314	<0.20	0.20	9103314
RDL = Reportable Detection Limit						

Maxxam Job #: B868088
Report Date: 2018/08/23

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: AC

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		UB6073		UB6074		
Sampling Date		2018/08/11 18:15		2018/08/11 16:00		
COC Number		555303-02-01		555303-02-01		
	UNITS	DUP	QC Batch	FIELD BLANK	RDL	QC Batch
Dissolved Zinc (Zn)	ug/L	0.75	9103314	<0.10	0.10	9103314
Dissolved Zirconium (Zr)	ug/L	0.11	9103314	<0.10	0.10	9103314
Dissolved Calcium (Ca)	mg/L	24.7	9101805	<0.050	0.050	9101805
Dissolved Magnesium (Mg)	mg/L	6.91	9101805	<0.050	0.050	9101805
Dissolved Potassium (K)	mg/L	0.840	9101805	<0.050	0.050	9101805
Dissolved Sodium (Na)	mg/L	2.31	9101805	<0.050	0.050	9101805
Dissolved Sulphur (S)	mg/L	7.7	9101805	<3.0	3.0	9101805
RDL = Reportable Detection Limit						

Maxxam Job #: B868088
Report Date: 2018/08/23

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: AC

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		UB6074			UB6074		
Sampling Date		2018/08/11 16:00			2018/08/11 16:00		
COC Number		555303-02-01			555303-02-01		
	UNITS	FIELD BLANK	RDL	QC Batch	FIELD BLANK Lab-Dup	RDL	QC Batch
Calculated Parameters							
Total Hardness (CaCO3)	mg/L	<0.50	0.50	9102541			
Elements							
Total Mercury (Hg)	ug/L	<0.0020	0.0020	9106444			
Total Metals by ICPMS							
Total Aluminum (Al)	ug/L	1.01	0.50	9105754	0.69	0.50	9105754
Total Antimony (Sb)	ug/L	<0.020	0.020	9105754	<0.020	0.020	9105754
Total Arsenic (As)	ug/L	<0.020	0.020	9105754	<0.020	0.020	9105754
Total Barium (Ba)	ug/L	<0.020	0.020	9105754	<0.020	0.020	9105754
Total Beryllium (Be)	ug/L	<0.010	0.010	9105754	<0.010	0.010	9105754
Total Bismuth (Bi)	ug/L	<0.0050	0.0050	9105754	<0.0050	0.0050	9105754
Total Boron (B)	ug/L	<10	10	9105754	<10	10	9105754
Total Cadmium (Cd)	ug/L	<0.0050	0.0050	9105754	<0.0050	0.0050	9105754
Total Chromium (Cr)	ug/L	<0.10	0.10	9105754	<0.10	0.10	9105754
Total Cobalt (Co)	ug/L	<0.0050	0.0050	9105754	<0.0050	0.0050	9105754
Total Copper (Cu)	ug/L	<0.050	0.050	9105754	<0.050	0.050	9105754
Total Iron (Fe)	ug/L	<1.0	1.0	9105754	<1.0	1.0	9105754
Total Lead (Pb)	ug/L	<0.0050	0.0050	9105754	<0.0050	0.0050	9105754
Total Lithium (Li)	ug/L	<0.50	0.50	9105754	<0.50	0.50	9105754
Total Manganese (Mn)	ug/L	<0.050	0.050	9105754	<0.050	0.050	9105754
Total Molybdenum (Mo)	ug/L	<0.050	0.050	9105754	<0.050	0.050	9105754
Total Nickel (Ni)	ug/L	<0.020	0.020	9105754	<0.020	0.020	9105754
Total Phosphorus (P)	ug/L	4.2	2.0	9105754	4.7	2.0	9105754
Total Selenium (Se)	ug/L	<0.040	0.040	9105754	<0.040	0.040	9105754
Total Silicon (Si)	ug/L	<50	50	9105754	<50	50	9105754
Total Silver (Ag)	ug/L	<0.0050	0.0050	9105754	<0.0050	0.0050	9105754
Total Strontium (Sr)	ug/L	<0.050	0.050	9105754	<0.050	0.050	9105754
Total Thallium (Tl)	ug/L	<0.0020	0.0020	9105754	<0.0020	0.0020	9105754
Total Tin (Sn)	ug/L	<0.20	0.20	9105754	<0.20	0.20	9105754
Total Titanium (Ti)	ug/L	<0.50	0.50	9105754	<0.50	0.50	9105754
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate							

Maxxam Job #: B868088
Report Date: 2018/08/23

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: AC

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		UB6074			UB6074		
Sampling Date		2018/08/11 16:00			2018/08/11 16:00		
COC Number		555303-02-01			555303-02-01		
	UNITS	FIELD BLANK	RDL	QC Batch	FIELD BLANK Lab-Dup	RDL	QC Batch
Total Uranium (U)	ug/L	<0.0020	0.0020	9105754	<0.0020	0.0020	9105754
Total Vanadium (V)	ug/L	<0.20	0.20	9105754	<0.20	0.20	9105754
Total Zinc (Zn)	ug/L	<0.10	0.10	9105754	<0.10	0.10	9105754
Total Zirconium (Zr)	ug/L	<0.10	0.10	9105754	<0.10	0.10	9105754
Total Calcium (Ca)	mg/L	<0.050	0.050	9101807			
Total Magnesium (Mg)	mg/L	<0.050	0.050	9101807			
Total Potassium (K)	mg/L	<0.050	0.050	9101807			
Total Sodium (Na)	mg/L	<0.050	0.050	9101807			
Total Sulphur (S)	mg/L	<3.0	3.0	9101807			
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate							

Maxxam Job #: B868088
Report Date: 2018/08/23

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: AC

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		UB6062	UB6063	UB6064	UB6065	UB6066	UB6067		
Sampling Date		2018/08/11 10:55	2018/08/11 12:00	2018/08/11 11:20	2018/08/11 09:45	2018/08/11 13:50	2018/08/11 17:50		
COC Number		555303-01-01	555303-01-01	555303-01-01	555303-01-01	555303-01-01	555303-01-01		
	UNITS	CC-0.5	CC-1.5	CC-3.5	CC-4.5	HC-2.5	HC-5.0	RDL	QC Batch

Calculated Parameters

Total Hardness (CaCO3)	mg/L	42.4	90.4	73.1	53.0	45.8	68.4	0.50	9102541
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Elements

Total Mercury (Hg)	ug/L	0.0051	0.0054	0.0057	0.0049	0.0046	0.0045	0.0020	9106444
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Total Metals by ICPMS

Total Aluminum (Al)	ug/L	448	266	364	425	347	210	3.0	9110037
Total Antimony (Sb)	ug/L	0.108	0.109	0.093	0.114	0.265	0.250	0.020	9110037
Total Arsenic (As)	ug/L	0.682	0.778	0.699	0.699	1.38	0.942	0.020	9110037
Total Barium (Ba)	ug/L	37.5	33.2	36.3	41.2	30.4	37.1	0.050	9110037
Total Beryllium (Be)	ug/L	0.030	0.021	0.029	0.017	0.019	0.022	0.010	9110037
Total Bismuth (Bi)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	9110037
Total Boron (B)	ug/L	<10	<10	<10	<10	<10	<10	10	9110037
Total Cadmium (Cd)	ug/L	0.0167	0.0095	0.0101	0.0171	0.0105	0.0060	0.0050	9110037
Total Chromium (Cr)	ug/L	0.97	0.75	1.01	0.95	0.91	0.74	0.10	9110037
Total Cobalt (Co)	ug/L	0.296	0.152	0.244	0.283	0.209	0.151	0.010	9110037
Total Copper (Cu)	ug/L	3.31	1.74	2.10	3.31	1.93	2.29	0.10	9110037
Total Iron (Fe)	ug/L	518	257	419	484	325	223	5.0	9110037
Total Lead (Pb)	ug/L	0.132	0.087	0.222	0.128	0.115	0.073	0.020	9110037
Total Lithium (Li)	ug/L	0.80	1.39	0.80	0.75	0.80	0.84	0.50	9110037
Total Manganese (Mn)	ug/L	16.6	16.8	20.6	16.6	12.9	5.67	0.10	9110037
Total Molybdenum (Mo)	ug/L	0.546	0.117	0.179	0.516	0.605	0.555	0.050	9110037
Total Nickel (Ni)	ug/L	1.49	0.95	1.07	1.52	1.06	1.16	0.10	9110037
Total Phosphorus (P)	ug/L	12.2	12.3	16.0	9.8	7.8	12.2	5.0	9110037
Total Selenium (Se)	ug/L	0.087	0.095	0.066	0.104	0.061	0.062	0.040	9110037
Total Silicon (Si)	ug/L	5350	5400	5160	5390	4870	5000	50	9110037
Total Silver (Ag)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	9110037
Total Strontium (Sr)	ug/L	57.4	214	157	79.8	142	169	0.050	9110037
Total Thallium (Tl)	ug/L	0.0066	0.0044	0.0051	0.0060	0.0031	0.0030	0.0020	9110037
Total Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	9110037
Total Titanium (Ti)	ug/L	20.2	7.0	13.6	17.5	11.1	7.4	2.0	9110037
Total Uranium (U)	ug/L	1.75	5.58	3.07	1.96	8.71	5.70	0.0050	9110037
Total Vanadium (V)	ug/L	1.57	0.67	1.09	1.44	0.91	0.78	0.20	9110037

RDL = Reportable Detection Limit

Maxxam Job #: B868088
Report Date: 2018/08/23

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: AC

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		UB6062	UB6063	UB6064	UB6065	UB6066	UB6067		
Sampling Date		2018/08/11 10:55	2018/08/11 12:00	2018/08/11 11:20	2018/08/11 09:45	2018/08/11 13:50	2018/08/11 17:50		
COC Number		555303-01-01	555303-01-01	555303-01-01	555303-01-01	555303-01-01	555303-01-01		
	UNITS	CC-0.5	CC-1.5	CC-3.5	CC-4.5	HC-2.5	HC-5.0	RDL	QC Batch
Total Zinc (Zn)	ug/L	1.6	1.4	1.3	1.5	1.1	<1.0	1.0	9110037
Total Zirconium (Zr)	ug/L	0.72	0.72	0.76	0.77	0.71	0.66	0.10	9110037
Total Calcium (Ca)	mg/L	10.9	23.8	19.4	13.6	12.2	18.4	0.25	9101807
Total Magnesium (Mg)	mg/L	3.66	7.53	5.96	4.65	3.75	5.42	0.25	9101807
Total Potassium (K)	mg/L	0.76	1.26	1.27	0.92	1.06	1.49	0.25	9101807
Total Sodium (Na)	mg/L	2.03	1.82	2.13	2.24	1.43	2.11	0.25	9101807
Total Sulphur (S)	mg/L	5.0	12.6	11.0	7.1	3.7	6.5	3.0	9101807
RDL = Reportable Detection Limit									

Maxxam Job #: B868088
Report Date: 2018/08/23

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: AC

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		UB6068	UB6069	UB6070	UB6071	UB6072	UB6073		
Sampling Date		2018/08/11 18:45	2018/08/11 18:15	2018/08/11 17:00	2018/08/11 17:30	2018/08/11 10:20	2018/08/11 18:15		
COC Number		555303-01-01	555303-01-01	555303-01-01	555303-01-01	555303-02-01	555303-02-01		
	UNITS	YT-24	YT-24MIX	COFFEE MIX	HALFWAY MIX	LATTE MIX	DUP	RDL	QC Batch

Calculated Parameters									
Total Hardness (CaCO3)	mg/L	73.0	84.9	83.5	80.5	46.3	88.2	0.50	9102541
Elements									
Total Mercury (Hg)	ug/L	0.0042	<0.0020	<0.0020	<0.0020	0.0054	<0.0020	0.0020	9106444
Total Metals by ICPMS									
Total Aluminum (Al)	ug/L	370	453	371	215	377	409	3.0	9110037
Total Antimony (Sb)	ug/L	0.273	0.144	0.121	0.141	0.114	0.141	0.020	9110037
Total Arsenic (As)	ug/L	0.945	0.819	0.799	0.653	0.641	0.848	0.020	9110037
Total Barium (Ba)	ug/L	49.3	56.7	52.3	47.1	36.4	57.7	0.050	9110037
Total Beryllium (Be)	ug/L	0.040	0.029	0.023	<0.010	0.022	0.023	0.010	9110037
Total Bismuth (Bi)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	9110037
Total Boron (B)	ug/L	<10	<10	<10	<10	<10	<10	10	9110037
Total Cadmium (Cd)	ug/L	0.0139	0.0705	0.0556	0.0357	0.0147	0.0709	0.0050	9110037
Total Chromium (Cr)	ug/L	1.00	0.94	0.77	0.50	0.88	0.84	0.10	9110037
Total Cobalt (Co)	ug/L	0.308	0.315	0.283	0.154	0.239	0.310	0.010	9110037
Total Copper (Cu)	ug/L	2.79	1.87	1.74	1.46	3.02	1.92	0.10	9110037
Total Iron (Fe)	ug/L	477	665	555	278	426	622	5.0	9110037
Total Lead (Pb)	ug/L	0.238	0.388	0.327	0.152	0.115	0.389	0.020	9110037
Total Lithium (Li)	ug/L	0.54	1.82	1.74	1.44	0.75	1.86	0.50	9110037
Total Manganese (Mn)	ug/L	15.0	28.2	24.8	15.1	15.0	28.2	0.10	9110037
Total Molybdenum (Mo)	ug/L	0.479	1.17	1.17	1.13	0.453	1.25	0.050	9110037
Total Nickel (Ni)	ug/L	1.33	1.95	1.74	1.24	1.45	1.99	0.10	9110037
Total Phosphorus (P)	ug/L	21.7	30.0	28.4	16.3	14.2	31.7	5.0	9110037
Total Selenium (Se)	ug/L	0.083	0.253	0.243	0.240	0.079	0.255	0.040	9110037
Total Silicon (Si)	ug/L	4700	3680	3440	3310	5250	3700	50	9110037
Total Silver (Ag)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	9110037
Total Strontium (Sr)	ug/L	120	123	124	130	70.7	131	0.050	9110037
Total Thallium (Tl)	ug/L	0.0036	0.0079	0.0061	0.0036	0.0047	0.0060	0.0020	9110037
Total Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	9110037
Total Titanium (Ti)	ug/L	14.9	13.2	12.2	5.9	13.3	11.0	2.0	9110037
Total Uranium (U)	ug/L	2.16	1.27	1.17	1.74	1.87	1.34	0.0050	9110037
Total Vanadium (V)	ug/L	1.31	1.61	1.48	0.82	1.21	1.46	0.20	9110037

RDL = Reportable Detection Limit

Maxxam Job #: B868088
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LORAX ENVIRONMENTAL SERVICES LTD.
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Sampler Initials: AC

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		UB6068	UB6069	UB6070	UB6071	UB6072	UB6073		
Sampling Date		2018/08/11 18:45	2018/08/11 18:15	2018/08/11 17:00	2018/08/11 17:30	2018/08/11 10:20	2018/08/11 18:15		
COC Number		555303-01-01	555303-01-01	555303-01-01	555303-01-01	555303-02-01	555303-02-01		
	UNITS	YT-24	YT-24MIX	COFFEE MIX	HALFWAY MIX	LATTE MIX	DUP	RDL	QC Batch
Total Zinc (Zn)	ug/L	1.8	6.6	5.8	3.9	1.4	7.2	1.0	9110037
Total Zirconium (Zr)	ug/L	0.69	0.76	0.17	0.15	0.74	0.19	0.10	9110037
Total Calcium (Ca)	mg/L	20.3	23.1	22.8	21.7	12.1	24.1	0.25	9101807
Total Magnesium (Mg)	mg/L	5.40	6.63	6.43	6.39	3.92	6.82	0.25	9101807
Total Potassium (K)	mg/L	1.27	0.87	0.82	0.92	0.81	0.91	0.25	9101807
Total Sodium (Na)	mg/L	2.17	1.93	1.94	2.00	1.99	2.12	0.25	9101807
Total Sulphur (S)	mg/L	9.6	7.7	7.5	7.6	6.2	7.6	3.0	9101807
RDL = Reportable Detection Limit									

Maxxam Job #: B868088
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LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
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GENERAL COMMENTS

Sample UB6062 [CC-0.5] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample UB6063 [CC-1.5] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample UB6064 [CC-3.5] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample UB6065 [CC-4.5] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample UB6066 [HC-2.5] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample UB6067 [HC-5.0] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample UB6068 [YT-24] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample UB6069 [YT-24MIX] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample UB6070 [COFFEE MIX] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample UB6071 [HALFWAY MIX] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample UB6072 [LATTE MIX] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample UB6073 [DUP] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample UB6074 [FIELD BLANK] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: AC

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9103086	Total Suspended Solids	2018/08/15			101	80 - 120	<1.0	mg/L		
9103256	Total Dissolved Solids	2018/08/16	102	80 - 120	100	80 - 120	<10	mg/L	NC	20
9103314	Dissolved Aluminum (Al)	2018/08/16	104	80 - 120	99	80 - 120	<0.50	ug/L	0.72	20
9103314	Dissolved Antimony (Sb)	2018/08/16	103	80 - 120	99	80 - 120	<0.020	ug/L	3.3	20
9103314	Dissolved Arsenic (As)	2018/08/16	106	80 - 120	100	80 - 120	0.023, RDL=0.020 (1)	ug/L	4.3	20
9103314	Dissolved Barium (Ba)	2018/08/16	97	80 - 120	97	80 - 120	<0.020	ug/L	0.20	20
9103314	Dissolved Beryllium (Be)	2018/08/16	105	80 - 120	100	80 - 120	<0.010	ug/L	NC	20
9103314	Dissolved Bismuth (Bi)	2018/08/16	101	80 - 120	96	80 - 120	<0.0050	ug/L	NC	20
9103314	Dissolved Boron (B)	2018/08/16	103	80 - 120	96	80 - 120	<10	ug/L	NC	20
9103314	Dissolved Cadmium (Cd)	2018/08/16	101	80 - 120	97	80 - 120	<0.0050	ug/L	6.2	20
9103314	Dissolved Chromium (Cr)	2018/08/16	104	80 - 120	100	80 - 120	<0.10	ug/L	13	20
9103314	Dissolved Cobalt (Co)	2018/08/16	101	80 - 120	99	80 - 120	<0.0050	ug/L	NC	20
9103314	Dissolved Copper (Cu)	2018/08/16	101	80 - 120	99	80 - 120	<0.050	ug/L	3.0	20
9103314	Dissolved Iron (Fe)	2018/08/16	103	80 - 120	101	80 - 120	<1.0	ug/L	4.0	20
9103314	Dissolved Lead (Pb)	2018/08/16	104	80 - 120	98	80 - 120	<0.0050	ug/L	7.0	20
9103314	Dissolved Lithium (Li)	2018/08/16	99	80 - 120	95	80 - 120	<0.50	ug/L	0.84	20
9103314	Dissolved Manganese (Mn)	2018/08/16	101	80 - 120	98	80 - 120	<0.050	ug/L	5.0	20
9103314	Dissolved Molybdenum (Mo)	2018/08/16	108	80 - 120	100	80 - 120	<0.050	ug/L	3.7	20
9103314	Dissolved Nickel (Ni)	2018/08/16	102	80 - 120	100	80 - 120	<0.020	ug/L	4.1	20
9103314	Dissolved Phosphorus (P)	2018/08/16	100	80 - 120	95	80 - 120	<2.0	ug/L	NC	20
9103314	Dissolved Selenium (Se)	2018/08/16	105	80 - 120	99	80 - 120	<0.040	ug/L	3.5	20
9103314	Dissolved Silicon (Si)	2018/08/16	93	80 - 120	91	80 - 120	<50	ug/L	1.1	20
9103314	Dissolved Silver (Ag)	2018/08/16	103	80 - 120	97	80 - 120	<0.0050	ug/L	NC	20
9103314	Dissolved Strontium (Sr)	2018/08/16	NC	80 - 120	96	80 - 120	<0.050	ug/L	0.045	20
9103314	Dissolved Thallium (Tl)	2018/08/16	102	80 - 120	96	80 - 120	<0.0020	ug/L	8.0	20
9103314	Dissolved Tin (Sn)	2018/08/16	104	80 - 120	98	80 - 120	<0.20	ug/L	NC	20
9103314	Dissolved Titanium (Ti)	2018/08/16	103	80 - 120	97	80 - 120	<0.50	ug/L	NC	20
9103314	Dissolved Uranium (U)	2018/08/16	109	80 - 120	101	80 - 120	<0.0020	ug/L	1.0	20
9103314	Dissolved Vanadium (V)	2018/08/16	104	80 - 120	99	80 - 120	<0.20	ug/L	0.58	20
9103314	Dissolved Zinc (Zn)	2018/08/16	104	80 - 120	100	80 - 120	<0.10	ug/L	3.2	20

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QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: AC

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9103314	Dissolved Zirconium (Zr)	2018/08/16	103	80 - 120	99	80 - 120	<0.10	ug/L	NC	20
9103406	Dissolved Mercury (Hg)	2018/08/15	90	80 - 120	85	80 - 120	<0.0020	ug/L	NC	20
9103500	Total Dissolved Solids	2018/08/17	104	80 - 120	94	80 - 120	<10	mg/L	4.2	20
9103622	ORP	2018/08/15							0.94	20
9103722	Nitrate plus Nitrite (N)	2018/08/15	110	80 - 120	106	80 - 120	<0.0020	mg/L	0.12	25
9103723	Nitrite (N)	2018/08/15	102	80 - 120	103	80 - 120	<0.0020	mg/L	NC	25
9103724	Nitrate plus Nitrite (N)	2018/08/15			105	80 - 120	<0.0020	mg/L		
9103727	Nitrite (N)	2018/08/15			104	80 - 120	<0.0020	mg/L		
9103761	Dissolved Chloride (Cl)	2018/08/15	101	80 - 120	103	80 - 120	<0.50	mg/L	19	20
9103762	Dissolved Sulphate (SO4)	2018/08/15	99	80 - 120	103	80 - 120	<0.50	mg/L	5.2	20
9103763	Dissolved Chloride (Cl)	2018/08/15	87	80 - 120	103	80 - 120	<0.50	mg/L	0.89	20
9103764	Dissolved Sulphate (SO4)	2018/08/15			106	80 - 120	<0.50	mg/L		
9103793	Nitrate plus Nitrite (N)	2018/08/15			104	80 - 120	<0.0020	mg/L		
9103794	Nitrite (N)	2018/08/15			102	80 - 120	<0.0020	mg/L		
9104180	Dissolved Sulphate (SO4)	2018/08/15			102	80 - 120	<0.50	mg/L		
9104843	Fluoride (F)	2018/08/16	99	80 - 120	104	80 - 120	<0.010	mg/L	1.8	20
9105186	Dissolved Mercury (Hg)	2018/08/16	88	80 - 120	92	80 - 120	<0.0020	ug/L	NC	20
9105605	Alkalinity (PP as CaCO3)	2018/08/14					<0.50	mg/L		
9105605	Alkalinity (Total as CaCO3)	2018/08/14			97	80 - 120	<0.50	mg/L		
9105605	Bicarbonate (HCO3)	2018/08/14					<0.50	mg/L		
9105605	Carbonate (CO3)	2018/08/14					<0.50	mg/L		
9105605	Hydroxide (OH)	2018/08/14					<0.50	mg/L		
9105606	pH	2018/08/14			101	97 - 103				
9105607	Conductivity	2018/08/14			98	80 - 120	1.2, RDL=1.0	uS/cm		
9105616	Alkalinity (PP as CaCO3)	2018/08/14					<0.50	mg/L		
9105616	Alkalinity (Total as CaCO3)	2018/08/14	98	80 - 120	97	80 - 120	<0.50	mg/L		
9105616	Bicarbonate (HCO3)	2018/08/14					<0.50	mg/L		
9105616	Carbonate (CO3)	2018/08/14					<0.50	mg/L		
9105616	Hydroxide (OH)	2018/08/14					<0.50	mg/L		
9105618	pH	2018/08/14			101	97 - 103				
9105620	Conductivity	2018/08/14			108	80 - 120	21.3, RDL=1.0	uS/cm		

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QUALITY ASSURANCE REPORT(CONT'D)

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Client Project #: Gold Corp Coffee Creek-SW
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Sampler Initials: AC

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9105754	Total Aluminum (Al)	2018/08/17	102	80 - 120	103	80 - 120	<0.50	ug/L	1.3	20
9105754	Total Antimony (Sb)	2018/08/17	98	80 - 120	97	80 - 120	<0.020	ug/L	NC	20
9105754	Total Arsenic (As)	2018/08/17	99	80 - 120	98	80 - 120	<0.020	ug/L	4.8	20
9105754	Total Barium (Ba)	2018/08/17	96	80 - 120	96	80 - 120	<0.020	ug/L	0.18	20
9105754	Total Beryllium (Be)	2018/08/17	96	80 - 120	100	80 - 120	<0.010	ug/L	NC	20
9105754	Total Bismuth (Bi)	2018/08/17	96	80 - 120	97	80 - 120	<0.0050	ug/L	NC	20
9105754	Total Boron (B)	2018/08/17	92	80 - 120	95	80 - 120	<10	ug/L	NC	20
9105754	Total Cadmium (Cd)	2018/08/17	100	80 - 120	99	80 - 120	<0.0050	ug/L	NC	20
9105754	Total Chromium (Cr)	2018/08/17	95	80 - 120	98	80 - 120	<0.10	ug/L	NC	20
9105754	Total Cobalt (Co)	2018/08/17	97	80 - 120	97	80 - 120	<0.0050	ug/L	18	20
9105754	Total Copper (Cu)	2018/08/17	96	80 - 120	97	80 - 120	<0.050	ug/L	6.3	20
9105754	Total Iron (Fe)	2018/08/17	98	80 - 120	102	80 - 120	<1.0	ug/L	NC	20
9105754	Total Lead (Pb)	2018/08/17	96	80 - 120	96	80 - 120	<0.0050	ug/L	8.0	20
9105754	Total Lithium (Li)	2018/08/17	96	80 - 120	103	80 - 120	<0.50	ug/L	NC	20
9105754	Total Manganese (Mn)	2018/08/17	97	80 - 120	99	80 - 120	<0.050	ug/L	2.7	20
9105754	Total Molybdenum (Mo)	2018/08/17	104	80 - 120	104	80 - 120	<0.050	ug/L	6.4	20
9105754	Total Nickel (Ni)	2018/08/17	98	80 - 120	99	80 - 120	<0.020	ug/L	NC	20
9105754	Total Phosphorus (P)	2018/08/17	99	80 - 120	100	80 - 120	2.5, RDL=2.0 (2)	ug/L	NC	20
9105754	Total Selenium (Se)	2018/08/17	98	80 - 120	98	80 - 120	<0.040	ug/L	NC	20
9105754	Total Silicon (Si)	2018/08/17	98	80 - 120	104	80 - 120	<50	ug/L	2.9	20
9105754	Total Silver (Ag)	2018/08/17	100	80 - 120	98	80 - 120	<0.0050	ug/L	NC	20
9105754	Total Strontium (Sr)	2018/08/17	99	80 - 120	99	80 - 120	<0.050	ug/L	7.1	20
9105754	Total Thallium (Tl)	2018/08/17	97	80 - 120	98	80 - 120	<0.0020	ug/L	NC	20
9105754	Total Tin (Sn)	2018/08/17	98	80 - 120	99	80 - 120	<0.20	ug/L	NC	20
9105754	Total Titanium (Ti)	2018/08/17	96	80 - 120	100	80 - 120	<0.50	ug/L	NC	20
9105754	Total Uranium (U)	2018/08/17	101	80 - 120	101	80 - 120	<0.0020	ug/L	NC	20
9105754	Total Vanadium (V)	2018/08/17	98	80 - 120	99	80 - 120	<0.20	ug/L	NC	20
9105754	Total Zinc (Zn)	2018/08/17	100	80 - 120	100	80 - 120	<0.10	ug/L	12	20
9105754	Total Zirconium (Zr)	2018/08/17	100	80 - 120	100	80 - 120	<0.10	ug/L	NC	20
9106444	Total Mercury (Hg)	2018/08/17	98	80 - 120	97	80 - 120	<0.0020	ug/L	NC	20
9106525	Total Ammonia (N)	2018/08/16			106	80 - 120	<0.0050	mg/L		

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QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: AC

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9106804	Dissolved Organic Carbon (C)	2018/08/17	105	80 - 120	108	80 - 120	<0.50	mg/L	12	20
9106806	Total Organic Carbon (C)	2018/08/17	104	80 - 120	97	80 - 120	<0.50	mg/L	NC	20
9110037	Total Aluminum (Al)	2018/08/22	129 (3)	80 - 120	97	80 - 120	<3.0	ug/L	7.9	20
9110037	Total Antimony (Sb)	2018/08/22	104	80 - 120	100	80 - 120	<0.020	ug/L	5.4	20
9110037	Total Arsenic (As)	2018/08/22	109	80 - 120	103	80 - 120	<0.020	ug/L	4.7	20
9110037	Total Barium (Ba)	2018/08/22	105	80 - 120	100	80 - 120	<0.050	ug/L	0.20	20
9110037	Total Beryllium (Be)	2018/08/22	99	80 - 120	99	80 - 120	<0.010	ug/L	8.0	20
9110037	Total Bismuth (Bi)	2018/08/22	104	80 - 120	101	80 - 120	<0.010	ug/L	NC	20
9110037	Total Boron (B)	2018/08/22	97	80 - 120	99	80 - 120	<10	ug/L	0.45	20
9110037	Total Cadmium (Cd)	2018/08/22	103	80 - 120	101	80 - 120	<0.0050	ug/L	NC	20
9110037	Total Chromium (Cr)	2018/08/22	103	80 - 120	101	80 - 120	<0.10	ug/L	9.1	20
9110037	Total Cobalt (Co)	2018/08/22	100	80 - 120	98	80 - 120	<0.010	ug/L	6.5	20
9110037	Total Copper (Cu)	2018/08/22	101	80 - 120	98	80 - 120	<0.10	ug/L	2.9	20
9110037	Total Iron (Fe)	2018/08/22	NC	80 - 120	98	80 - 120	<5.0	ug/L	0.88	20
9110037	Total Lead (Pb)	2018/08/22	104	80 - 120	99	80 - 120	<0.020	ug/L	1.8	20
9110037	Total Lithium (Li)	2018/08/22	95	80 - 120	98	80 - 120	<0.50	ug/L	0.31	20
9110037	Total Manganese (Mn)	2018/08/22	103	80 - 120	101	80 - 120	<0.10	ug/L	0.97	20
9110037	Total Molybdenum (Mo)	2018/08/22	105	80 - 120	103	80 - 120	<0.050	ug/L	2.8	20
9110037	Total Nickel (Ni)	2018/08/22	101	80 - 120	99	80 - 120	<0.10	ug/L	0.23	20
9110037	Total Phosphorus (P)	2018/08/22	102	80 - 120	97	80 - 120	<5.0	ug/L		
9110037	Total Selenium (Se)	2018/08/22	102	80 - 120	98	80 - 120	<0.040	ug/L	6.4	20
9110037	Total Silicon (Si)	2018/08/22	104	80 - 120	98	80 - 120	<50	ug/L	0.62	20
9110037	Total Silver (Ag)	2018/08/22	101	80 - 120	100	80 - 120	<0.010	ug/L	NC	20
9110037	Total Strontium (Sr)	2018/08/22	NC	80 - 120	104	80 - 120	<0.050	ug/L	0.42	20
9110037	Total Thallium (Tl)	2018/08/22	104	80 - 120	101	80 - 120	<0.0020	ug/L	8.9	20
9110037	Total Tin (Sn)	2018/08/22	100	80 - 120	100	80 - 120	<0.20	ug/L	NC	20
9110037	Total Titanium (Ti)	2018/08/22	107	80 - 120	107	80 - 120	<2.0	ug/L	13	20
9110037	Total Uranium (U)	2018/08/22	107	80 - 120	102	80 - 120	<0.0050	ug/L	0.095	20
9110037	Total Vanadium (V)	2018/08/22	105	80 - 120	101	80 - 120	<0.20	ug/L	1.3	20
9110037	Total Zinc (Zn)	2018/08/22	101	80 - 120	99	80 - 120	<1.0	ug/L	6.9	20
9110037	Total Zirconium (Zr)	2018/08/22	106	80 - 120	100	80 - 120	<0.10	ug/L	4.4	20

Maxxam Job #: B868088
Report Date: 2018/08/23

QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: AC

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9114571	Free Cyanide	2018/08/23	99	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

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

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

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Method Blank exceeds acceptance limits for (As) - 2X RDL acceptable for low level metals determination.

(2) Method blank exceeds acceptance limits for P- 2X RDL acceptable for low level metals determination.

(3) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

Maxxam Job #: B868088
Report Date: 2018/08/23

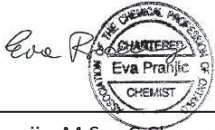
LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Sampler Initials: AC

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



David Huang, M.Sc., P.Chem., QP, Scientific Services Manager



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

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Maxxam Analytics International Corporation o/a Maxxam Analytics
 4006 Canada Way, Burnaby, British Columbia Canada V5G 1K5 Tel (604) 734 7276 Toll-free 800-563-6266 Fax (604) 731 2386 www.maxxam.ca

C

Page 1 of 2

INVOICE TO:		Report Information		Project Information	
Company Name: #3604 LORAX ENVIRONMENTAL SERVICES LTD.	Company Name: David Flather	Quotation #: B40231	Order #:		
Contact Name: Aida Piaseczny	Contact Name: David Flather	P.O. #:	ID3		
Address: 2289 BURRARD STREET	Address:	Project #: Gold Corp Coffee Creek-SW	Manager:		
Address: VANCOUVER BC V6J 3H9	Address:	Project Name:	3868088_COC		
Phone: (604) 688-7173 Fax: (604) 688-7175	Phone: Fax:	Site #:	C#55303-01-01		
Email: aida.piaseczny@lorax.ca; shukling.ng@lorax.ca	Email: David.Flather@lorax.ca	Sampled By: Alex Charoy	Cruz		



Regulatory Criteria	Special Instructions	Analysis Requested										Turnaround Time (TAT) Required		
<p>Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form</p> <p>Samples must be kept cool (< 10°C) from time of sampling until delivery to maxxam</p>		Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	Routine (Alk-LI, EC-LI, NH4-LI, pH, TDS)	TSS-Low Level	Anions (LL-Cl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	Please provide advance notice for rush projects Regular (Standard) TAT (will be applied if Rush TAT is not specified) Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details. Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____ Rush Confirmation Number: _____ (call lab for #)	

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	Routine (Alk-LI, EC-LI, NH4-LI, pH, TDS)	TSS-Low Level	Anions (LL-Cl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	# of Bottles	Comments
SID#162743	CC-0.5	2018-08-11	10:55	W	NY	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	
SID#162744	CC-1.5	2018-08-11	12:00	W	NY	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	
SID#162745	CC-3.5	2018-08-11	11:20	W	NY	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	RECEIVED IN WHITEHORSE BY: [Signature] @ 09:30
SID#162746	CC-4.5	2018-08-11	9:45	W	NY	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	2018-08-13
SID#162747	HC-2.5	2018-08-11	13:50	W	NY	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	TEMP: 5, 5, 4
SID#162748	HC-5.0	2018-08-11	17:50	W	UY	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	4, 5, 5
SID#149895	YT-24	2018-08-11	18:45	W	NY	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	3, 6, 5
SID#149896	YT-24 Mix	2018-08-11	18:15	W	NY	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	
SID#149897	Coffee Mix	2018-08-11	17:00	W	NY	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	
SID#149898	Halfway Mix	2018-08-11	17:30	W	NY	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	

RELINQUISHED BY: (Signature/Print) Alex Charoy	Date: (YY/MM/DD) 18/08/12	Time: 10:30	RECEIVED BY: (Signature/Print) Andrea Wang	Date: (YY/MM/DD) 2018 Aug 14	Time: 10:20	# Jars used and not submitted	Lab Use Only	
						Time Sensitive	Temperature (°C) on Receipt: 2, 3, 4, 5, 2, 3, 5	Custody Seal Intact on Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.							White Maxxam Yellow Client	
* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.								

1164



Maxxam Analytics International Corporation c/o Maxxam Analytics
 4606 Canada Way, Burnaby, British Columbia Canada V5G 1K5 Tel: (604) 734 7276 Toll-free: 800-563-6266 Fax: (604) 731 2386 www.maxxam.ca

INVOICE TO:		Report Information		Project Information	
Company Name: #3604 LORAX ENVIRONMENTAL SERVICES LTD.	Company Name: David Flather	Quotation #: B40231			
Contact Name: Aida Piaseczny	Contact Name: David Flather	P.O. #:			
Address: 2289 BURRARD STREET VANCOUVER BC V6J 3H9	Address:	Project #: Gold Corp Coffee Creek-SW			
Phone: (604) 688-7173 Fax: (604) 688-7175	Phone: Fax:	Project Name:			
Email: aida.piaseczny@lorax.ca; shukling.ng@lorax.ca	Email: David.Flather@lorax.ca	Site #:			
		Sampled By: Alex Clavon			



9868088_COC



C#555303-02-01

Diana Cruz

Regulatory Criteria		Special Instructions		Analysis Requested												Turnaround Time (TAT) Required	
				Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	Routine (Alk-LL, EC-LL, NH4-LL, pH, TDS)	TSS-Low Level	Anions (LL Cl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	# of Bottles	Comments	
Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form																	
Samples must be kept cool (< 10°C) from time of sampling until delivery to maxxam																	
1	SID#145899	Latte Mix	2018-08-11 10:20	W	NY	✓	✓	✓	✓	✓	✓	✓	✓	13			
2	SID#206506	Dup	2018-08-11 18:15	W	NY	✓	✓	✓	✓	✓	✓	✓	✓	13			
3	560071	Field Blank	2018-08-11 16:00	W	NY	✓	✓	✓	✓	✓	✓	✓	✓	13	RECEIVED IN WHITEHORSE BY: K. Murphy @ 0930		
4																	
5															2018-08-13		
6															TEMP: 5 1 5 1 4		
7															4 5 5		
8															3 6 5		
9																	
10																	

RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# Jars used and not submitted	Lab Use Only	
ALEX CHACON	18/08/12	10:50	ANDREA WANG	2018 Aug 14	10:20		Time Sensitive	Temperature (°C) on Receipt
							<input type="checkbox"/>	2,3,4,3,4,5,2,3,5
							Custody Seal Intact on Cooler?	
							<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
							White: Maxxam Yellow: Client	

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.
 * IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

Your Project #: Gold Corp Coffee Creek-SW
 Site Location: COFFEE CREEK - SURFACE WATER
 Your C.O.C. #: 560076-01-01, 560076-02-01

Attention: David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
 2289 BURRARD STREET
 VANCOUVER, BC
 CANADA V6J 3H9

Report Date: 2018/08/27

Report #: R2610152

Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B870087

Received: 2018/08/17, 09:20

Sample Matrix: Water
 # Samples Received: 13

Analyses	Date		Laboratory Method	Analytical Method
	Quantity	Extracted		
Alkalinity - Low Level	13	N/A	2018/08/23 BBY6SOP-00026	SM 22 2320 B m
Chloride - Low Level	13	N/A	2018/08/21 BBY6SOP-00011	SM 22 4500-Cl- E m
Carbon (DOC) - field filtered/preserved (2)	13	N/A	2018/08/22 BBY6SOP-00003	SM 22 5310 C m
Conductance - Low Level	13	N/A	2018/08/23 BBY6SOP-00026	SM 22 2510 B m
Fluoride - Low Level	13	N/A	2018/08/21 BBY6SOP-00048	SM 22 4500-F C m
Hardness Total (calculated as CaCO3) (3)	1	N/A	2018/08/21 BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO3) (3)	12	N/A	2018/08/24 BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3)	13	N/A	2018/08/22 BBY WI-00033	Auto Calc
Mercury (Dissolved) by CVAf	13	N/A	2018/08/21 BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Total) by CVAf	7	2018/08/21	2018/08/21 BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Total) by CVAf	6	2018/08/22	2018/08/22 BBY7SOP-00015	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	13	N/A	2018/08/22 BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (dissolved)	13	N/A	2018/08/21 BBY7SOP-00002	EPA 6020b R2 m
Elements by ICPMS Digested LL (total)	1	2018/08/21	2018/08/23 BBY7SOP-00003,	EPA 6020b R2 m
Elements by ICPMS Digested LL (total)	11	2018/08/23	2018/08/24 BBY7SOP-00003,	EPA 6020b R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total)	1	N/A	2018/08/21 BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (total)	12	N/A	2018/08/24 BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (total)	1	N/A	2018/08/21 BBY7SOP-00002	EPA 6020b R2 m
Ammonia-N Low Level (Preserved)	13	N/A	2018/08/22 BBY6SOP-00009	EPA 350.1 m
Nitrate+Nitrite (N) (low level)	13	N/A	2018/08/21 BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrite (N) (low level)	13	N/A	2018/08/21 BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrogen - Nitrate (as N) Low Level Calc	13	N/A	2018/08/22 BBY WI-00033	Auto Calc
ORP Analysis on Water by ARD LAB	13	N/A	2018/08/24 BBY0SOP-00004	SM 22 2580 B
Filter and HNO3 Preserve for Metals	13	N/A	2018/08/21 BBY7 WI-00004	BCMOE Reqs 08/14
pH Water (4)	13	N/A	2018/08/23 BBY6SOP-00026	SM 22 4500-H+ B m
Sulphate - Low Level	13	N/A	2018/08/21 BBY6SOP-00017	SM 22 4500-SO42- E m
Total Dissolved Solids (Filt. Residue)	13	2018/08/21	2018/08/22 BBY6SOP-00033	SM 22 2540 C m
Carbon (Total Organic) (5)	13	N/A	2018/08/22 BBY6SOP-00003	SM 22 5310 C m
Total Suspended Solids-Low Level	13	2018/08/21	2018/08/22 BBY6SOP-00034	SM 22 2540 D
Free (WAD) Cyanide (1)	13	N/A	2018/08/23 CAM SOP-00457	OMOE E3015 5 m

Your Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Your C.O.C. #: 560076-01-01, 560076-02-01

Attention: David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
2289 BURRARD STREET
VANCOUVER, BC
CANADA V6J 3H9

Report Date: 2018/08/27
Report #: R2610152
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B870087

Received: 2018/08/17, 09:20

Remarks:

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

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

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

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Maxxam, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

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

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

- (1) This test was performed by Maxxam Ontario (From Burnaby)
- (2) DOC present in the sample should be considered as non-purgeable DOC.
- (3) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).
- (4) The BC-MOE and APHA Standard Method require pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the BC-MOE/APHA Standard Method holding time.
- (5) TOC present in the sample should be considered as non-purgeable TOC.

Encryption Key



Maxxam
27 Aug 2018 19:16:31

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Diana Cruz, Project Manager

Email: DCruz@maxxam.ca

Phone# (604) 734 7276

=====
This report has been generated and distributed using a secure automated process.

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E),

Your Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Your C.O.C. #: 560076-01-01, 560076-02-01

Attention: David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
2289 BURRARD STREET
VANCOUVER, BC
CANADA V6J 3H9

Report Date: 2018/08/27
Report #: R2610152
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B870087

Received: 2018/08/17, 09:20

signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Job #: B870087
Report Date: 2018/08/27

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		UC6927			UC6927			UC6928		
Sampling Date		2018/08/16 09:45			2018/08/16 09:45			2018/08/16 10:30		
COC Number		560076-01-01			560076-01-01			560076-01-01		
	UNITS	CC-0.5	RDL	QC Batch	CC-0.5 Lab-Dup	RDL	QC Batch	CC-1.5	RDL	QC Batch
Parameter										
ORP	mV	272		9111785	273		9111785	276		9111785
Calculated Parameters										
Filter and HNO3 Preservation	N/A	LAB		9110456				LAB		9110456
Nitrate (N)	mg/L	0.289	0.0020	9109848				0.392	0.0020	9109848
Misc. Inorganics										
Fluoride (F)	mg/L	0.069	0.010	9110781				0.057	0.010	9110781
Free Cyanide	mg/L	<0.0010	0.0010	9114776	<0.0010	0.0010	9114776	<0.0010	0.0010	9114776
Dissolved Organic Carbon (C)	mg/L	13.1	0.50	9113175				10.1	0.50	9113175
Alkalinity (Total as CaCO3)	mg/L	35.9	0.50	9115085				70.2	0.50	9115085
Total Organic Carbon (C)	mg/L	15.9	0.50	9113177				11.0	0.50	9113177
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	9115085				<0.50	0.50	9115085
Bicarbonate (HCO3)	mg/L	43.8	0.50	9115085				85.7	0.50	9115085
Carbonate (CO3)	mg/L	<0.50	0.50	9115085				<0.50	0.50	9115085
Hydroxide (OH)	mg/L	<0.50	0.50	9115085				<0.50	0.50	9115085
Anions										
Dissolved Sulphate (SO4)	mg/L	29.2	0.50	9111170				58.8	0.50	9111170
Dissolved Chloride (Cl)	mg/L	1.0	0.50	9111168				1.9	0.50	9111168
Nutrients										
Total Ammonia (N)	mg/L	<0.0050	0.0050	9113226				<0.0050	0.0050	9113226
Nitrate plus Nitrite (N)	mg/L	0.289	0.0020	9111622				0.392	0.0020	9111622
Nitrite (N)	mg/L	<0.0020	0.0020	9111624				<0.0020	0.0020	9111624
Physical Properties										
Conductivity	uS/cm	136	1.0	9115086				264	1.0	9115086
pH	pH	7.52		9115079				7.77		9115079
Physical Properties										
Total Suspended Solids	mg/L	2.6	1.0	9110908				4.4	1.0	9110908
Total Dissolved Solids	mg/L	116	10	9110974				174	10	9110974
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B870087
Report Date: 2018/08/27

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		UC6929			UC6929			UC6930		
Sampling Date		2018/08/16 10:00			2018/08/16 10:00			2018/08/16 08:50		
COC Number		560076-01-01			560076-01-01			560076-01-01		
	UNITS	CC-3.5	RDL	QC Batch	CC-3.5 Lab-Dup	RDL	QC Batch	CC-4.5	RDL	QC Batch
Parameter										
ORP	mV	278		9111785				277		9111785
Calculated Parameters										
Filter and HNO3 Preservation	N/A	LAB		9110456				LAB		9110456
Nitrate (N)	mg/L	0.368	0.0020	9109848				0.279	0.0020	9109848
Misc. Inorganics										
Fluoride (F)	mg/L	0.065	0.010	9110781				0.071	0.010	9110781
Free Cyanide	mg/L	<0.0010	0.0010	9114776				<0.0010	0.0010	9114776
Dissolved Organic Carbon (C)	mg/L	10.9	0.50	9113175				12.6	0.50	9113175
Alkalinity (Total as CaCO3)	mg/L	63.3	0.50	9115085				39.4	0.50	9115085
Total Organic Carbon (C)	mg/L	12.4	0.50	9113178	12.3	0.50	9113178	14.5	0.50	9113177
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	9115085				<0.50	0.50	9115085
Bicarbonate (HCO3)	mg/L	77.2	0.50	9115085				48.1	0.50	9115085
Carbonate (CO3)	mg/L	<0.50	0.50	9115085				<0.50	0.50	9115085
Hydroxide (OH)	mg/L	<0.50	0.50	9115085				<0.50	0.50	9115085
Anions										
Dissolved Sulphate (SO4)	mg/L	54.5	0.50	9111170				32.8	0.50	9111170
Dissolved Chloride (Cl)	mg/L	0.53	0.50	9111168				1.2	0.50	9111168
Nutrients										
Total Ammonia (N)	mg/L	0.0080	0.0050	9113226				0.025	0.0050	9113226
Nitrate plus Nitrite (N)	mg/L	0.368	0.0020	9111622				0.279	0.0020	9111622
Nitrite (N)	mg/L	<0.0020	0.0020	9111624				<0.0020	0.0020	9111624
Physical Properties										
Conductivity	uS/cm	245	1.0	9115086				158	1.0	9115086
pH	pH	7.77		9115079				7.58		9115079
Physical Properties										
Total Suspended Solids	mg/L	1.5	1.0	9110908				1.0	1.0	9110908
Total Dissolved Solids	mg/L	174	10	9110974				124	10	9110974
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B870087
Report Date: 2018/08/27

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		UC6931		UC6932	UC6933			UC6933		
Sampling Date		2018/08/16 11:15		2018/08/16 13:15	2018/08/16 14:05			2018/08/16 14:05		
COC Number		560076-01-01		560076-01-01	560076-01-01			560076-01-01		
	UNITS	HC-2.5	QC Batch	HC-5.0	YT-24	RDL	QC Batch	YT-24 Lab-Dup	RDL	QC Batch
Parameter										
ORP	mV	274	9111785	269	300		9111785	299		9111785
Calculated Parameters										
Filter and HNO3 Preservation	N/A	LAB	9110456	LAB	LAB		9110456			
Nitrate (N)	mg/L	0.486	9109848	0.433	0.843	0.0020	9109848			
Misc. Inorganics										
Fluoride (F)	mg/L	0.061	9110789	0.073	0.072	0.010	9110789	0.072	0.010	9110789
Free Cyanide	mg/L	<0.0010	9114776	<0.0010	<0.0010	0.0010	9114776			
Dissolved Organic Carbon (C)	mg/L	11.5	9113174	12.4	12.2	0.50	9113175			
Alkalinity (Total as CaCO3)	mg/L	55.8	9115085	61.3	48.7	0.50	9115085			
Total Organic Carbon (C)	mg/L	11.5	9113178	13.2	13.1	0.50	9113178			
Alkalinity (PP as CaCO3)	mg/L	<0.50	9115085	<0.50	<0.50	0.50	9115085			
Bicarbonate (HCO3)	mg/L	68.1	9115085	74.8	59.4	0.50	9115085			
Carbonate (CO3)	mg/L	<0.50	9115085	<0.50	<0.50	0.50	9115085			
Hydroxide (OH)	mg/L	<0.50	9115085	<0.50	<0.50	0.50	9115085			
Anions										
Dissolved Sulphate (SO4)	mg/L	23.7	9111170	29.8	40.5	0.50	9111170	39.0	0.50	9111170
Dissolved Chloride (Cl)	mg/L	1.4	9111168	0.85	2.2	0.50	9111168	1.9	0.50	9111168
Nutrients										
Total Ammonia (N)	mg/L	0.021	9113226	<0.0050	0.011	0.0050	9113226			
Nitrate plus Nitrite (N)	mg/L	0.486	9111622	0.433	0.843	0.0020	9111622	0.848	0.0020	9111622
Nitrite (N)	mg/L	<0.0020	9111624	<0.0020	<0.0020	0.0020	9111624	<0.0020	0.0020	9111624
Physical Properties										
Conductivity	uS/cm	161	9115086	183	196	1.0	9115086			
pH	pH	7.69	9115079	7.76	7.64		9115079			
Physical Properties										
Total Suspended Solids	mg/L	<1.0	9110908	1.4	6.1	1.0	9110908			
Total Dissolved Solids	mg/L	118	9110974	138	138	10	9110974			
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B870087
Report Date: 2018/08/27

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		UC6934		UC6935	UC6936		UC6959		
Sampling Date		2018/08/16 14:35		2018/08/16 12:45	2018/08/16 13:45		2018/08/16 09:15		
COC Number		560076-01-01		560076-01-01	560076-01-01		560076-02-01		
	UNITS	YT-24 MIX	QC Batch	COFFEE MIX	HALFWAY MIX	QC Batch	LATTE MIX	RDL	QC Batch
Parameter									
ORP	mV	290	9111785	285	282	9111785	283		9111785
Calculated Parameters									
Filter and HNO3 Preservation	N/A	LAB	9110456	LAB	LAB	9110456	LAB		9110456
Nitrate (N)	mg/L	0.171	9109848	0.0143	0.135	9109848	0.293	0.0020	9109848
Misc. Inorganics									
Fluoride (F)	mg/L	0.110	9110789	0.120	0.110	9110789	0.070	0.010	9110789
Free Cyanide	mg/L	<0.0010	9114776	<0.0010	<0.0010	9114776	<0.0010	0.0010	9114776
Dissolved Organic Carbon (C)	mg/L	4.98	9113174	1.96	5.19	9113175	14.0	0.50	9113175
Alkalinity (Total as CaCO3)	mg/L	60.2	9115085	64.3	61.2	9115103	39.2	0.50	9115085
Total Organic Carbon (C)	mg/L	6.16	9113177	3.23	6.87	9113178	15.2	0.50	9113178
Alkalinity (PP as CaCO3)	mg/L	<0.50	9115085	<0.50	<0.50	9115103	<0.50	0.50	9115085
Bicarbonate (HCO3)	mg/L	73.4	9115085	78.5	74.7	9115103	47.8	0.50	9115085
Carbonate (CO3)	mg/L	<0.50	9115085	<0.50	<0.50	9115103	<0.50	0.50	9115085
Hydroxide (OH)	mg/L	<0.50	9115085	<0.50	<0.50	9115103	<0.50	0.50	9115085
Anions									
Dissolved Sulphate (SO4)	mg/L	27.4	9111170	27.8	29.4	9111170	29.0	0.50	9111170
Dissolved Chloride (Cl)	mg/L	1.8	9111168	0.60	1.4	9111168	0.56	0.50	9111168
Nutrients									
Total Ammonia (N)	mg/L	<0.0050	9113226	<0.0050	<0.0050	9113226	<0.0050	0.0050	9113228
Nitrate plus Nitrite (N)	mg/L	0.171	9111622	0.0143	0.135	9111622	0.293	0.0020	9111622
Nitrite (N)	mg/L	<0.0020	9111624	<0.0020	<0.0020	9111624	<0.0020	0.0020	9111624
Physical Properties									
Conductivity	uS/cm	191	9115086	184	187	9115106	149	1.0	9115086
pH	pH	7.75	9115079	7.76	7.68	9115099	7.53		9115079
Physical Properties									
Total Suspended Solids	mg/L	25.5	9110908	26.8	17.2	9110908	1.7	1.0	9110908
Total Dissolved Solids	mg/L	118	9110974	120	138	9110974	128	10	9110974
RDL = Reportable Detection Limit									

Maxxam Job #: B870087
Report Date: 2018/08/27

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		UC6960			UC6960			UC6961		
Sampling Date		2018/08/16 14:05			2018/08/16 14:05			2018/08/16 15:25		
COC Number		560076-02-01			560076-02-01			560076-02-01		
	UNITS	DUP	RDL	QC Batch	DUP Lab-Dup	RDL	QC Batch	FIELD BLANK	RDL	QC Batch
Parameter										
ORP	mV	282		9111785				272		9111785
Calculated Parameters										
Filter and HNO3 Preservation	N/A	LAB		9110456				LAB		9110456
Nitrate (N)	mg/L	0.843	0.0020	9109848				0.0041	0.0020	9109848
Misc. Inorganics										
Fluoride (F)	mg/L	0.073	0.010	9110789				<0.010	0.010	9110789
Free Cyanide	mg/L	<0.0010	0.0010	9114776				<0.0010	0.0010	9114776
Dissolved Organic Carbon (C)	mg/L	13.2	0.50	9113174				<0.50	0.50	9113174
Alkalinity (Total as CaCO3)	mg/L	50.9	0.50	9115085				0.89	0.50	9115085
Total Organic Carbon (C)	mg/L	13.4	0.50	9113178				<0.50	0.50	9113178
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	9115085				<0.50	0.50	9115085
Bicarbonate (HCO3)	mg/L	62.1	0.50	9115085				1.09	0.50	9115085
Carbonate (CO3)	mg/L	<0.50	0.50	9115085				<0.50	0.50	9115085
Hydroxide (OH)	mg/L	<0.50	0.50	9115085				<0.50	0.50	9115085
Anions										
Dissolved Sulphate (SO4)	mg/L	40.2	0.50	9111170				<0.50	0.50	9111170
Dissolved Chloride (Cl)	mg/L	1.1	0.50	9111168				<0.50	0.50	9111168
Nutrients										
Total Ammonia (N)	mg/L	<0.0050	0.0050	9113228				<0.0050	0.0050	9113228
Nitrate plus Nitrite (N)	mg/L	0.843	0.0020	9111622				0.0041	0.0020	9111622
Nitrite (N)	mg/L	<0.0020	0.0020	9111624				<0.0020	0.0020	9111624
Physical Properties										
Conductivity	uS/cm	196	1.0	9115086				1.5	1.0	9115086
pH	pH	7.67		9115079				5.55		9115079
Physical Properties										
Total Suspended Solids	mg/L	7.2	1.0	9110908				<1.0	1.0	9110908
Total Dissolved Solids	mg/L	144	10	9110974	148	10	9110974	<10	10	9110974
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B870087
Report Date: 2018/08/27

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		UC6927			UC6927			UC6928		
Sampling Date		2018/08/16 09:45			2018/08/16 09:45			2018/08/16 10:30		
COC Number		560076-01-01			560076-01-01			560076-01-01		
	UNITS	CC-0.5	RDL	QC Batch	CC-0.5 Lab-Dup	RDL	QC Batch	CC-1.5	RDL	QC Batch

Calculated Parameters

Dissolved Hardness (CaCO3)	mg/L	59.6	0.50	9109066				122	0.50	9109066
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Elements

Dissolved Mercury (Hg)	ug/L	0.0052	0.0020	9110951				0.0045	0.0020	9110951
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Dissolved Metals by ICPMS

Dissolved Aluminum (Al)	ug/L	110	0.50	9111143	114	0.50	9111143	94.6	0.50	9111143
Dissolved Antimony (Sb)	ug/L	0.122	0.020	9111143	0.125	0.020	9111143	0.121	0.020	9111143
Dissolved Arsenic (As)	ug/L	0.457	0.020	9111143	0.465	0.020	9111143	0.605	0.020	9111143
Dissolved Barium (Ba)	ug/L	36.7	0.020	9111143	37.3	0.020	9111143	36.2	0.020	9111143
Dissolved Beryllium (Be)	ug/L	0.015	0.010	9111143	0.012	0.010	9111143	0.018	0.010	9111143
Dissolved Bismuth (Bi)	ug/L	<0.0050	0.0050	9111143	<0.0050	0.0050	9111143	<0.0050	0.0050	9111143
Dissolved Boron (B)	ug/L	<10	10	9111143	<10	10	9111143	<10	10	9111143
Dissolved Cadmium (Cd)	ug/L	0.0078	0.0050	9111143	0.0086	0.0050	9111143	0.0261 (1)	0.0050	9111143
Dissolved Chromium (Cr)	ug/L	0.46	0.10	9111143	0.42	0.10	9111143	0.38	0.10	9111143
Dissolved Cobalt (Co)	ug/L	0.0756	0.0050	9111143	0.0788	0.0050	9111143	0.0696	0.0050	9111143
Dissolved Copper (Cu)	ug/L	2.87	0.050	9111143	2.83	0.050	9111143	1.80	0.050	9111143
Dissolved Iron (Fe)	ug/L	95.8	1.0	9111143	94.9	1.0	9111143	65.8	1.0	9111143
Dissolved Lead (Pb)	ug/L	0.0076	0.0050	9111143	0.0072	0.0050	9111143	0.0057	0.0050	9111143
Dissolved Lithium (Li)	ug/L	0.76	0.50	9111143	0.84	0.50	9111143	1.61	0.50	9111143
Dissolved Manganese (Mn)	ug/L	3.59	0.050	9111143	3.54	0.050	9111143	5.41	0.050	9111143
Dissolved Molybdenum (Mo)	ug/L	0.652	0.050	9111143	0.670	0.050	9111143	0.157	0.050	9111143
Dissolved Nickel (Ni)	ug/L	1.23	0.020	9111143	1.21	0.020	9111143	0.656	0.020	9111143
Dissolved Phosphorus (P)	ug/L	3.6	2.0	9111143	3.4	2.0	9111143	66.5 (1)	2.0	9111143
Dissolved Selenium (Se)	ug/L	0.095	0.040	9111143	0.120	0.040	9111143	0.118	0.040	9111143
Dissolved Silicon (Si)	ug/L	4370	50	9111143	4330	50	9111143	4450	50	9111143
Dissolved Silver (Ag)	ug/L	<0.0050	0.0050	9111143	<0.0050	0.0050	9111143	<0.0050	0.0050	9111143
Dissolved Strontium (Sr)	ug/L	74.6	0.050	9111143	74.6	0.050	9111143	280	0.050	9111143
Dissolved Thallium (Tl)	ug/L	0.0047	0.0020	9111143	0.0050	0.0020	9111143	0.0023	0.0020	9111143
Dissolved Tin (Sn)	ug/L	<0.20	0.20	9111143	<0.20	0.20	9111143	<0.20	0.20	9111143
Dissolved Titanium (Ti)	ug/L	1.35	0.50	9111143	1.19	0.50	9111143	0.66	0.50	9111143
Dissolved Uranium (U)	ug/L	2.74	0.0020	9111143	2.77	0.0020	9111143	7.36	0.0020	9111143

RDL = Reportable Detection Limit

Lab-Dup = Laboratory Initiated Duplicate

(1) Dissolved greater than total. Reanalysis yields similar results.

Maxxam Job #: B870087
Report Date: 2018/08/27

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		UC6927			UC6927			UC6928		
Sampling Date		2018/08/16 09:45			2018/08/16 09:45			2018/08/16 10:30		
COC Number		560076-01-01			560076-01-01			560076-01-01		
	UNITS	CC-0.5	RDL	QC Batch	CC-0.5 Lab-Dup	RDL	QC Batch	CC-1.5	RDL	QC Batch
Dissolved Vanadium (V)	ug/L	0.62	0.20	9111143	0.59	0.20	9111143	0.37	0.20	9111143
Dissolved Zinc (Zn)	ug/L	0.47	0.10	9111143	0.45	0.10	9111143	1.04	0.10	9111143
Dissolved Zirconium (Zr)	ug/L	0.63	0.10	9111143	0.63	0.10	9111143	0.63	0.10	9111143
Dissolved Calcium (Ca)	mg/L	15.6	0.050	9109067				32.8	0.050	9109067
Dissolved Magnesium (Mg)	mg/L	5.00	0.050	9109067				9.80	0.050	9109067
Dissolved Potassium (K)	mg/L	0.986	0.050	9109067				1.93	0.050	9109067
Dissolved Sodium (Na)	mg/L	2.73	0.050	9109067				2.53	0.050	9109067
Dissolved Sulphur (S)	mg/L	7.6	3.0	9109067				17.1	3.0	9109067
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B870087
Report Date: 2018/08/27

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		UC6929	UC6930	UC6931	UC6932		UC6933		
Sampling Date		2018/08/16 10:00	2018/08/16 08:50	2018/08/16 11:15	2018/08/16 13:15		2018/08/16 14:05		
COC Number		560076-01-01	560076-01-01	560076-01-01	560076-01-01		560076-01-01		
	UNITS	CC-3.5	CC-4.5	HC-2.5	HC-5.0	QC Batch	YT-24	RDL	QC Batch
Calculated Parameters									
Dissolved Hardness (CaCO3)	mg/L	113	68.0	74.5	84.8	9109066	90.2	0.50	9109066
Elements									
Dissolved Mercury (Hg)	ug/L	0.0043	0.0042	0.0037	0.0029	9110951	0.0030	0.0020	9110807
Dissolved Metals by ICPMS									
Dissolved Aluminum (Al)	ug/L	63.7	91.6	101	58.7	9111143	54.6	0.50	9111143
Dissolved Antimony (Sb)	ug/L	0.109	0.119	0.365	0.242	9111143	0.250	0.020	9111143
Dissolved Arsenic (As)	ug/L	0.373	0.454	1.04	0.690	9111143	0.493	0.020	9111143
Dissolved Barium (Ba)	ug/L	46.2	42.2	33.5	41.0	9111143	49.0	0.020	9111143
Dissolved Beryllium (Be)	ug/L	0.014	<0.010	0.016	0.015	9111143	0.017	0.010	9111143
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	9111143	<0.0050	0.0050	9111143
Dissolved Boron (B)	ug/L	<10	<10	<10	<10	9111143	<10	10	9111143
Dissolved Cadmium (Cd)	ug/L	<0.0050	0.0091	<0.0050	<0.0050	9111143	<0.0050	0.0050	9111143
Dissolved Chromium (Cr)	ug/L	0.33	0.44	0.43	0.37	9111143	0.36	0.10	9111143
Dissolved Cobalt (Co)	ug/L	0.0520	0.0720	0.0688	0.0626	9111143	0.0939	0.0050	9111143
Dissolved Copper (Cu)	ug/L	1.70	2.73	1.94	2.04	9111143	2.05	0.050	9111143
Dissolved Iron (Fe)	ug/L	40.4	69.9	72.7	45.8	9111143	60.9	1.0	9111143
Dissolved Lead (Pb)	ug/L	<0.0050	<0.0050	0.0324	<0.0050	9111143	0.0078	0.0050	9111143
Dissolved Lithium (Li)	ug/L	0.63	0.68	0.98	0.78	9111143	<0.50	0.50	9111143
Dissolved Manganese (Mn)	ug/L	0.683	3.00	2.45	0.590	9111143	3.64	0.050	9111143
Dissolved Molybdenum (Mo)	ug/L	0.236	0.602	1.04	0.602	9111143	0.484	0.050	9111143
Dissolved Nickel (Ni)	ug/L	0.669	1.08	0.815	0.876	9111143	0.780	0.020	9111143
Dissolved Phosphorus (P)	ug/L	2.9	2.6	4.5	2.3	9111143	4.7	2.0	9111143
Dissolved Selenium (Se)	ug/L	0.076	0.098	0.064	0.066	9111143	0.077	0.040	9111143
Dissolved Silicon (Si)	ug/L	4320	4260	4380	4170	9111143	3680	50	9111143
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	9111143	<0.0050	0.0050	9111143
Dissolved Strontium (Sr)	ug/L	221	94.6	219	196	9111143	145	0.050	9111143
Dissolved Thallium (Tl)	ug/L	0.0022	0.0042	0.0023	0.0028	9111143	0.0024	0.0020	9111143
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	9111143	<0.20	0.20	9111143
Dissolved Titanium (Ti)	ug/L	0.67	1.01	1.25	0.83	9111143	0.73	0.50	9111143
Dissolved Uranium (U)	ug/L	4.54	2.52	18.0	7.75	9111143	2.62	0.0020	9111143
Dissolved Vanadium (V)	ug/L	0.31	0.52	0.42	0.38	9111143	0.40	0.20	9111143
Dissolved Zinc (Zn)	ug/L	0.24	0.39	0.25	0.16	9111143	0.17	0.10	9111143
RDL = Reportable Detection Limit									

Maxxam Job #: B870087
Report Date: 2018/08/27

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		UC6929	UC6930	UC6931	UC6932		UC6933		
Sampling Date		2018/08/16 10:00	2018/08/16 08:50	2018/08/16 11:15	2018/08/16 13:15		2018/08/16 14:05		
COC Number		560076-01-01	560076-01-01	560076-01-01	560076-01-01		560076-01-01		
	UNITS	CC-3.5	CC-4.5	HC-2.5	HC-5.0	QC Batch	YT-24	RDL	QC Batch
Dissolved Zirconium (Zr)	ug/L	0.64	0.63	0.64	0.59	9111143	0.67	0.10	9111143
Dissolved Calcium (Ca)	mg/L	30.9	17.9	19.8	22.9	9109067	25.2	0.050	9109067
Dissolved Magnesium (Mg)	mg/L	8.66	5.65	6.11	6.71	9109067	6.62	0.050	9109067
Dissolved Potassium (K)	mg/L	1.90	1.15	1.57	1.79	9109067	1.46	0.050	9109067
Dissolved Sodium (Na)	mg/L	3.02	2.82	2.10	2.57	9109067	2.52	0.050	9109067
Dissolved Sulphur (S)	mg/L	17.1	9.5	6.8	8.6	9109067	12.1	3.0	9109067
RDL = Reportable Detection Limit									

Maxxam Job #: B870087
Report Date: 2018/08/27

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		UC6934	UC6935	UC6936	UC6959		UC6960		
Sampling Date		2018/08/16 14:35	2018/08/16 12:45	2018/08/16 13:45	2018/08/16 09:15		2018/08/16 14:05		
COC Number		560076-01-01	560076-01-01	560076-01-01	560076-02-01		560076-02-01		
	UNITS	YT-24 MIX	COFFEE MIX	HALFWAY MIX	LATTE MIX	QC Batch	DUP	RDL	QC Batch
Calculated Parameters									
Dissolved Hardness (CaCO3)	mg/L	86.7	86.7	85.8	66.5	9109066	89.7	0.50	9109066
Elements									
Dissolved Mercury (Hg)	ug/L	<0.0020	<0.0020	<0.0020	0.0045	9110951	0.0035	0.0020	9110807
Dissolved Metals by ICPMS									
Dissolved Aluminum (Al)	ug/L	42.4	40.8	44.2	104	9111143	54.5	0.50	9111143
Dissolved Antimony (Sb)	ug/L	0.145	0.123	0.168	0.124	9111143	0.243	0.020	9111143
Dissolved Arsenic (As)	ug/L	0.477	0.472	0.509	0.460	9111143	0.522	0.020	9111143
Dissolved Barium (Ba)	ug/L	43.9	41.8	42.8	39.1	9111143	50.1	0.020	9111143
Dissolved Beryllium (Be)	ug/L	<0.010	<0.010	<0.010	0.014	9111143	0.017	0.010	9111143
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	9111143	<0.0050	0.0050	9111143
Dissolved Boron (B)	ug/L	<10	<10	<10	<10	9111143	<10	10	9111143
Dissolved Cadmium (Cd)	ug/L	0.0331	0.0386	0.0440	0.0071	9111143	0.0066	0.0050	9111143
Dissolved Chromium (Cr)	ug/L	0.13	<0.10	0.16	0.45	9111143	0.38	0.10	9111143
Dissolved Cobalt (Co)	ug/L	0.0422	0.0197	0.0406	0.0804	9111143	0.0962	0.0050	9111143
Dissolved Copper (Cu)	ug/L	1.27	1.03	1.45	2.69	9111143	2.15	0.050	9111143
Dissolved Iron (Fe)	ug/L	20.3	15.9	23.8	91.0	9111143	63.0	1.0	9111143
Dissolved Lead (Pb)	ug/L	0.0127	0.0131	0.0119	<0.0050	9111143	0.0129	0.0050	9111143
Dissolved Lithium (Li)	ug/L	1.27	1.48	1.20	0.72	9111143	<0.50	0.50	9111143
Dissolved Manganese (Mn)	ug/L	2.29	1.19	3.50	3.25	9111143	3.63	0.050	9111143
Dissolved Molybdenum (Mo)	ug/L	1.09	1.22	1.03	0.628	9111143	0.490	0.050	9111143
Dissolved Nickel (Ni)	ug/L	1.05	1.06	1.10	1.26	9111143	0.863	0.020	9111143
Dissolved Phosphorus (P)	ug/L	<2.0	2.1	<2.0	2.6	9111143	2.7	2.0	9111143
Dissolved Selenium (Se)	ug/L	0.275	0.381	0.274	0.099	9111143	0.085	0.040	9111143
Dissolved Silicon (Si)	ug/L	2640	2310	2960	4550	9111143	3660	50	9111143
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	9111143	<0.0050	0.0050	9111143
Dissolved Strontium (Sr)	ug/L	123	115	137	94.5	9111143	145	0.050	9111143
Dissolved Thallium (Tl)	ug/L	0.0027	0.0029	0.0030	0.0041	9111143	0.0028	0.0020	9111143
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	9111143	<0.20	0.20	9111143
Dissolved Titanium (Ti)	ug/L	<0.50	<0.50	<0.50	0.90	9111143	0.85	0.50	9111143
Dissolved Uranium (U)	ug/L	1.46	1.01	2.97	3.04	9111143	2.62	0.0020	9111143
Dissolved Vanadium (V)	ug/L	0.26	0.24	0.27	0.48	9111143	0.45	0.20	9111143
Dissolved Zinc (Zn)	ug/L	1.54	1.91	2.05	0.44	9111143	0.31	0.10	9111143
RDL = Reportable Detection Limit									

Maxxam Job #: B870087
Report Date: 2018/08/27

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		UC6934	UC6935	UC6936	UC6959		UC6960		
Sampling Date		2018/08/16 14:35	2018/08/16 12:45	2018/08/16 13:45	2018/08/16 09:15		2018/08/16 14:05		
COC Number		560076-01-01	560076-01-01	560076-01-01	560076-02-01		560076-02-01		
	UNITS	YT-24 MIX	COFFEE MIX	HALFWAY MIX	LATTE MIX	QC Batch	DUP	RDL	QC Batch
Dissolved Zirconium (Zr)	ug/L	0.16	<0.10	0.18	0.67	9111143	0.65	0.10	9111143
Dissolved Calcium (Ca)	mg/L	24.2	24.6	23.8	17.5	9109067	25.5	0.050	9109067
Dissolved Magnesium (Mg)	mg/L	6.35	6.16	6.40	5.57	9109067	6.35	0.050	9109067
Dissolved Potassium (K)	mg/L	0.886	0.800	1.08	1.10	9109067	1.48	0.050	9109067
Dissolved Sodium (Na)	mg/L	2.74	1.75	2.12	2.78	9109067	2.53	0.050	9109067
Dissolved Sulphur (S)	mg/L	9.0	7.9	8.4	9.1	9109067	11.9	3.0	9109067
RDL = Reportable Detection Limit									

Maxxam Job #: B870087
Report Date: 2018/08/27

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		UC6961		
Sampling Date		2018/08/16 15:25		
COC Number		560076-02-01		
	UNITS	FIELD BLANK	RDL	QC Batch
Calculated Parameters				
Dissolved Hardness (CaCO3)	mg/L	<0.50	0.50	9109066
Elements				
Dissolved Mercury (Hg)	ug/L	<0.0020	0.0020	9110807
Dissolved Metals by ICPMS				
Dissolved Aluminum (Al)	ug/L	<0.50	0.50	9111143
Dissolved Antimony (Sb)	ug/L	<0.020	0.020	9111143
Dissolved Arsenic (As)	ug/L	<0.020	0.020	9111143
Dissolved Barium (Ba)	ug/L	<0.020	0.020	9111143
Dissolved Beryllium (Be)	ug/L	<0.010	0.010	9111143
Dissolved Bismuth (Bi)	ug/L	<0.0050	0.0050	9111143
Dissolved Boron (B)	ug/L	<10	10	9111143
Dissolved Cadmium (Cd)	ug/L	<0.0050	0.0050	9111143
Dissolved Chromium (Cr)	ug/L	<0.10	0.10	9111143
Dissolved Cobalt (Co)	ug/L	<0.0050	0.0050	9111143
Dissolved Copper (Cu)	ug/L	<0.050	0.050	9111143
Dissolved Iron (Fe)	ug/L	<1.0	1.0	9111143
Dissolved Lead (Pb)	ug/L	<0.0050	0.0050	9111143
Dissolved Lithium (Li)	ug/L	<0.50	0.50	9111143
Dissolved Manganese (Mn)	ug/L	<0.050	0.050	9111143
Dissolved Molybdenum (Mo)	ug/L	<0.050	0.050	9111143
Dissolved Nickel (Ni)	ug/L	<0.020	0.020	9111143
Dissolved Phosphorus (P)	ug/L	<2.0	2.0	9111143
Dissolved Selenium (Se)	ug/L	<0.040	0.040	9111143
Dissolved Silicon (Si)	ug/L	<50	50	9111143
Dissolved Silver (Ag)	ug/L	<0.0050	0.0050	9111143
Dissolved Strontium (Sr)	ug/L	<0.050	0.050	9111143
Dissolved Thallium (Tl)	ug/L	<0.0020	0.0020	9111143
Dissolved Tin (Sn)	ug/L	<0.20	0.20	9111143
Dissolved Titanium (Ti)	ug/L	<0.50	0.50	9111143
Dissolved Uranium (U)	ug/L	<0.0020	0.0020	9111143
Dissolved Vanadium (V)	ug/L	<0.20	0.20	9111143
Dissolved Zinc (Zn)	ug/L	<0.10	0.10	9111143
RDL = Reportable Detection Limit				

Maxxam Job #: B870087
Report Date: 2018/08/27

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		UC6961		
Sampling Date		2018/08/16 15:25		
COC Number		560076-02-01		
	UNITS	FIELD BLANK	RDL	QC Batch
Dissolved Zirconium (Zr)	ug/L	<0.10	0.10	9111143
Dissolved Calcium (Ca)	mg/L	<0.050	0.050	9109067
Dissolved Magnesium (Mg)	mg/L	<0.050	0.050	9109067
Dissolved Potassium (K)	mg/L	<0.050	0.050	9109067
Dissolved Sodium (Na)	mg/L	<0.050	0.050	9109067
Dissolved Sulphur (S)	mg/L	<3.0	3.0	9109067
RDL = Reportable Detection Limit				

Maxxam Job #: B870087
Report Date: 2018/08/27

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		UC6961			UC6961		
Sampling Date		2018/08/16 15:25			2018/08/16 15:25		
COC Number		560076-02-01			560076-02-01		
	UNITS	FIELD BLANK	RDL	QC Batch	FIELD BLANK Lab-Dup	RDL	QC Batch
Calculated Parameters							
Total Hardness (CaCO3)	mg/L	<0.50	0.50	9109065			
Elements							
Total Mercury (Hg)	ug/L	<0.0020	0.0020	9112476	<0.0020	0.0020	9112476
Total Metals by ICPMS							
Total Aluminum (Al)	ug/L	<0.50	0.50	9111374	<0.50	0.50	9111374
Total Antimony (Sb)	ug/L	<0.020	0.020	9111374	<0.020	0.020	9111374
Total Arsenic (As)	ug/L	<0.020	0.020	9111374	<0.020	0.020	9111374
Total Barium (Ba)	ug/L	0.033	0.020	9111374	0.033	0.020	9111374
Total Beryllium (Be)	ug/L	<0.010	0.010	9111374	<0.010	0.010	9111374
Total Bismuth (Bi)	ug/L	<0.0050	0.0050	9111374	<0.0050	0.0050	9111374
Total Boron (B)	ug/L	<10	10	9111374	<10	10	9111374
Total Cadmium (Cd)	ug/L	<0.0050	0.0050	9111374	<0.0050	0.0050	9111374
Total Chromium (Cr)	ug/L	<0.10	0.10	9111374	<0.10	0.10	9111374
Total Cobalt (Co)	ug/L	<0.0050	0.0050	9111374	<0.0050	0.0050	9111374
Total Copper (Cu)	ug/L	<0.050	0.050	9111374	<0.050	0.050	9111374
Total Iron (Fe)	ug/L	<1.0	1.0	9111374	<1.0	1.0	9111374
Total Lead (Pb)	ug/L	<0.0050	0.0050	9111374	<0.0050	0.0050	9111374
Total Lithium (Li)	ug/L	<0.50	0.50	9111374	<0.50	0.50	9111374
Total Manganese (Mn)	ug/L	<0.050	0.050	9111374	<0.050	0.050	9111374
Total Molybdenum (Mo)	ug/L	<0.050	0.050	9111374	<0.050	0.050	9111374
Total Nickel (Ni)	ug/L	0.021	0.020	9111374	0.021	0.020	9111374
Total Phosphorus (P)	ug/L	2.7	2.0	9111374	2.7	2.0	9111374
Total Selenium (Se)	ug/L	<0.040	0.040	9111374	<0.040	0.040	9111374
Total Silicon (Si)	ug/L	<50	50	9111374	<50	50	9111374
Total Silver (Ag)	ug/L	<0.0050	0.0050	9111374	<0.0050	0.0050	9111374
Total Strontium (Sr)	ug/L	<0.050	0.050	9111374	<0.050	0.050	9111374
Total Thallium (Tl)	ug/L	<0.0020	0.0020	9111374	<0.0020	0.0020	9111374
Total Tin (Sn)	ug/L	<0.20	0.20	9111374	<0.20	0.20	9111374
Total Titanium (Ti)	ug/L	<0.50	0.50	9111374	<0.50	0.50	9111374
Total Uranium (U)	ug/L	<0.0020	0.0020	9111374	<0.0020	0.0020	9111374
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate							

Maxxam Job #: B870087
Report Date: 2018/08/27

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		UC6961			UC6961		
Sampling Date		2018/08/16 15:25			2018/08/16 15:25		
COC Number		560076-02-01			560076-02-01		
	UNITS	FIELD BLANK	RDL	QC Batch	FIELD BLANK Lab-Dup	RDL	QC Batch
Total Vanadium (V)	ug/L	<0.20	0.20	9111374	<0.20	0.20	9111374
Total Zinc (Zn)	ug/L	<0.10	0.10	9111374	<0.10	0.10	9111374
Total Zirconium (Zr)	ug/L	<0.10	0.10	9111374	<0.10	0.10	9111374
Total Calcium (Ca)	mg/L	<0.050	0.050	9109068			
Total Magnesium (Mg)	mg/L	<0.050	0.050	9109068			
Total Potassium (K)	mg/L	<0.050	0.050	9109068			
Total Sodium (Na)	mg/L	<0.050	0.050	9109068			
Total Sulphur (S)	mg/L	<3.0	3.0	9109068			
RDL = Reportable Detection Limit							
Lab-Dup = Laboratory Initiated Duplicate							

Maxxam Job #: B870087
Report Date: 2018/08/27

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		UC6927		UC6928	UC6929	UC6930	UC6931		
Sampling Date		2018/08/16 09:45		2018/08/16 10:30	2018/08/16 10:00	2018/08/16 08:50	2018/08/16 11:15		
COC Number		560076-01-01		560076-01-01	560076-01-01	560076-01-01	560076-01-01		
	UNITS	CC-0.5	QC Batch	CC-1.5	CC-3.5	CC-4.5	HC-2.5	RDL	QC Batch
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	63.9	9109065	130	115	74.3	79.5	0.50	9109065
Elements									
Total Mercury (Hg)	ug/L	0.0038	9112731	0.0041	0.0040	0.0040	0.0036	0.0020	9110952
Total Metals by ICPMS									
Total Aluminum (Al)	ug/L	179	9114514	127	81.9	133	157	3.0	9114514
Total Antimony (Sb)	ug/L	0.129	9114514	0.123	0.109	0.124	0.355	0.020	9114514
Total Arsenic (As)	ug/L	0.557	9114514	0.706	0.423	0.490	1.17	0.020	9114514
Total Barium (Ba)	ug/L	41.1	9114514	40.1	47.2	45.2	36.0	0.050	9114514
Total Beryllium (Be)	ug/L	0.019	9114514	0.023	0.015	0.015	0.023	0.010	9114514
Total Bismuth (Bi)	ug/L	<0.010	9114514	<0.010	<0.010	<0.010	<0.010	0.010	9114514
Total Boron (B)	ug/L	<10	9114514	<10	<10	<10	<10	10	9114514
Total Cadmium (Cd)	ug/L	0.0128	9114514	0.0074	0.0062	0.0113	0.0071	0.0050	9114514
Total Chromium (Cr)	ug/L	0.55	9114514	0.44	0.38	0.44	0.53	0.10	9114514
Total Cobalt (Co)	ug/L	0.115	9114514	0.074	0.066	0.104	0.093	0.010	9114514
Total Copper (Cu)	ug/L	2.96	9114514	1.65	1.69	2.89	1.72	0.10	9114514
Total Iron (Fe)	ug/L	197	9114514	109	71.0	134	137	5.0	9114514
Total Lead (Pb)	ug/L	0.041	9114514	0.027	0.021	0.025	0.028	0.020	9114514
Total Lithium (Li)	ug/L	0.91	9114514	1.85	0.67	0.77	1.09	0.50	9114514
Total Manganese (Mn)	ug/L	6.24	9114514	7.32	2.02	5.78	3.64	0.10	9114514
Total Molybdenum (Mo)	ug/L	0.703	9114514	0.158	0.241	0.631	1.06	0.050	9114514
Total Nickel (Ni)	ug/L	1.22	9114514	0.68	0.64	1.16	0.73	0.10	9114514
Total Phosphorus (P)	ug/L	7.2	9114514	5.8	5.0	6.4	5.6	5.0	9114514
Total Selenium (Se)	ug/L	0.133	9114514	0.093	0.093	0.117	0.065	0.040	9114514
Total Silicon (Si)	ug/L	5360	9114514	5450	4720	5270	5340	50	9114514
Total Silver (Ag)	ug/L	<0.010	9114514	<0.010	<0.010	<0.010	<0.010	0.010	9114514
Total Strontium (Sr)	ug/L	80.2	9114514	315	230	103	237	0.050	9114514
Total Thallium (Tl)	ug/L	0.0061	9114514	0.0042	0.0031	0.0050	0.0037	0.0020	9114514
Total Tin (Sn)	ug/L	<0.20	9114514	<0.20	<0.20	<0.20	<0.20	0.20	9114514
Total Titanium (Ti)	ug/L	5.1	9114514	2.1	<2.0	3.4	3.5	2.0	9114514
Total Uranium (U)	ug/L	3.02	9114514	8.12	4.55	2.73	18.2	0.0050	9114514
Total Vanadium (V)	ug/L	0.71	9114514	0.40	0.39	0.61	0.55	0.20	9114514
Total Zinc (Zn)	ug/L	<1.0	9114514	<1.0	<1.0	<1.0	<1.0	1.0	9114514
RDL = Reportable Detection Limit									

Maxxam Job #: B870087
Report Date: 2018/08/27

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		UC6927		UC6928	UC6929	UC6930	UC6931		
Sampling Date		2018/08/16 09:45		2018/08/16 10:30	2018/08/16 10:00	2018/08/16 08:50	2018/08/16 11:15		
COC Number		560076-01-01		560076-01-01	560076-01-01	560076-01-01	560076-01-01		
	UNITS	CC-0.5	QC Batch	CC-1.5	CC-3.5	CC-4.5	HC-2.5	RDL	QC Batch
Total Zirconium (Zr)	ug/L	0.53	9114514	0.53	0.57	0.53	0.58	0.10	9114514
Total Calcium (Ca)	mg/L	16.4	9109068	33.3	31.0	19.1	20.6	0.25	9109068
Total Magnesium (Mg)	mg/L	5.59	9109068	11.4	9.20	6.43	6.81	0.25	9109068
Total Potassium (K)	mg/L	1.04	9109068	1.98	1.93	1.22	1.66	0.25	9109068
Total Sodium (Na)	mg/L	3.01	9109068	2.77	3.15	3.20	2.27	0.25	9109068
Total Sulphur (S)	mg/L	8.4	9109068	19.7	17.2	10.5	7.1	3.0	9109068
RDL = Reportable Detection Limit									

Maxxam Job #: B870087
Report Date: 2018/08/27

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		UC6932		UC6933		UC6934		UC6935		
Sampling Date		2018/08/16 13:15		2018/08/16 14:05		2018/08/16 14:35		2018/08/16 12:45		
COC Number		560076-01-01		560076-01-01		560076-01-01		560076-01-01		
	UNITS	HC-5.0	QC Batch	YT-24	QC Batch	YT-24 MIX	QC Batch	COFFEE MIX	RDL	QC Batch
Calculated Parameters										
Total Hardness (CaCO3)	mg/L	86.3	9109065	92.5	9109065	93.3	9109065	90.6	0.50	9109065
Elements										
Total Mercury (Hg)	ug/L	0.0025	9110952	0.0035	9112476	<0.0020	9112731	<0.0020	0.0020	9110952
Total Metals by ICPMS										
Total Aluminum (Al)	ug/L	75.1	9114514	193	9114514	469	9114514	606	3.0	9114514
Total Antimony (Sb)	ug/L	0.244	9114514	0.238	9114514	0.212	9114514	0.194	0.020	9114514
Total Arsenic (As)	ug/L	0.700	9114514	0.687	9114514	0.914	9114514	1.12	0.020	9114514
Total Barium (Ba)	ug/L	42.0	9114514	54.3	9114514	67.4	9114514	75.1	0.050	9114514
Total Beryllium (Be)	ug/L	0.018	9114514	0.023	9114514	0.032	9114514	0.045	0.010	9114514
Total Bismuth (Bi)	ug/L	<0.010	9114514	<0.010	9114514	<0.010	9114514	0.011	0.010	9114514
Total Boron (B)	ug/L	<10	9114514	<10	9114514	<10	9114514	<10	10	9114514
Total Cadmium (Cd)	ug/L	<0.0050	9114514	0.0071	9114514	0.119	9114514	0.183	0.0050	9114514
Total Chromium (Cr)	ug/L	0.41	9114514	0.59	9114514	0.78	9114514	1.03	0.10	9114514
Total Cobalt (Co)	ug/L	0.070	9114514	0.187	9114514	0.458	9114514	0.661	0.010	9114514
Total Copper (Cu)	ug/L	1.96	9114514	2.33	9114514	2.35	9114514	2.75	0.10	9114514
Total Iron (Fe)	ug/L	74.7	9114514	276	9114514	714	9114514	1020	5.0	9114514
Total Lead (Pb)	ug/L	<0.020	9114514	0.110	9114514	0.400	9114514	0.602	0.020	9114514
Total Lithium (Li)	ug/L	0.85	9114514	0.53	9114514	1.87	9114514	2.26	0.50	9114514
Total Manganese (Mn)	ug/L	1.53	9114514	7.42	9114514	32.4	9114514	47.6	0.10	9114514
Total Molybdenum (Mo)	ug/L	0.596	9114514	0.485	9114514	1.15	9114514	1.28	0.050	9114514
Total Nickel (Ni)	ug/L	0.87	9114514	0.99	9114514	2.84	9114514	3.64	0.10	9114514
Total Phosphorus (P)	ug/L	<5.0	9114514	10.7	9114514	28.0	9114514	62.1	5.0	9114514
Total Selenium (Se)	ug/L	0.070	9114514	0.081	9114514	0.328	9114514	0.397	0.040	9114514
Total Silicon (Si)	ug/L	4670	9114514	4400	9114514	3720	9114514	3500	50	9114514
Total Silver (Ag)	ug/L	<0.010	9114514	<0.010	9114514	0.017	9114514	0.021	0.010	9114514
Total Strontium (Sr)	ug/L	201	9114514	151	9114514	134	9114514	123	0.050	9114514
Total Thallium (Tl)	ug/L	0.0030	9114514	0.0045	9114514	0.0096	9114514	0.0131	0.0020	9114514
Total Tin (Sn)	ug/L	<0.20	9114514	<0.20	9114514	<0.20	9114514	<0.20	0.20	9114514
Total Titanium (Ti)	ug/L	<2.0	9114514	9.3	9114514	12.3	9114514	17.3	2.0	9114514
Total Uranium (U)	ug/L	7.71	9114514	2.81	9114514	1.59	9114514	1.12	0.0050	9114514
Total Vanadium (V)	ug/L	0.43	9114514	0.76	9114514	1.74	9114514	2.34	0.20	9114514
Total Zinc (Zn)	ug/L	<1.0	9114514	<1.0	9114514	12.9	9114514	20.1	1.0	9114514
RDL = Reportable Detection Limit										

Maxxam Job #: B870087
Report Date: 2018/08/27

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		UC6932		UC6933		UC6934		UC6935		
Sampling Date		2018/08/16 13:15		2018/08/16 14:05		2018/08/16 14:35		2018/08/16 12:45		
COC Number		560076-01-01		560076-01-01		560076-01-01		560076-01-01		
	UNITS	HC-5.0	QC Batch	YT-24	QC Batch	YT-24 MIX	QC Batch	COFFEE MIX	RDL	QC Batch
Total Zirconium (Zr)	ug/L	0.47	9114514	0.56	9114514	0.23	9114514	0.23	0.10	9114514
Total Calcium (Ca)	mg/L	23.1	9109068	25.5	9109068	25.3	9109068	24.4	0.25	9109068
Total Magnesium (Mg)	mg/L	6.95	9109068	7.00	9109068	7.32	9109068	7.20	0.25	9109068
Total Potassium (K)	mg/L	1.79	9109068	1.56	9109068	1.07	9109068	0.98	0.25	9109068
Total Sodium (Na)	mg/L	2.61	9109068	2.72	9109068	3.10	9109068	2.01	0.25	9109068
Total Sulphur (S)	mg/L	8.1	9109068	12.8	9109068	10.0	9109068	8.3	3.0	9109068
RDL = Reportable Detection Limit										

Maxxam Job #: B870087
Report Date: 2018/08/27

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		UC6936		UC6959	UC6960		
Sampling Date		2018/08/16 13:45		2018/08/16 09:15	2018/08/16 14:05		
COC Number		560076-01-01		560076-02-01	560076-02-01		
	UNITS	HALFWAY MIX	QC Batch	LATTE MIX	DUP	RDL	QC Batch
Calculated Parameters							
Total Hardness (CaCO3)	mg/L	93.9	9109065	70.0	93.2	0.50	9109065
Elements							
Total Mercury (Hg)	ug/L	<0.0020	9110952	0.0038	0.0030	0.0020	9112476
Total Metals by ICPMS							
Total Aluminum (Al)	ug/L	381	9111403	156	230	3.0	9114514
Total Antimony (Sb)	ug/L	0.217	9111403	0.121	0.245	0.020	9114514
Total Arsenic (As)	ug/L	0.923	9111403	0.531	0.726	0.020	9114514
Total Barium (Ba)	ug/L	62.8	9111403	41.7	57.1	0.050	9114514
Total Beryllium (Be)	ug/L	0.031	9111403	0.018	0.029	0.010	9114514
Total Bismuth (Bi)	ug/L	<0.010	9111403	<0.010	<0.010	0.010	9114514
Total Boron (B)	ug/L	<10	9111403	<10	<10	10	9114514
Total Cadmium (Cd)	ug/L	0.106	9111403	0.0103	0.0104	0.0050	9114514
Total Chromium (Cr)	ug/L	0.76	9111403	0.50	0.67	0.10	9114514
Total Cobalt (Co)	ug/L	0.423	9111403	0.099	0.220	0.010	9114514
Total Copper (Cu)	ug/L	2.42	9111403	2.71	2.38	0.10	9114514
Total Iron (Fe)	ug/L	609	9111403	159	321	5.0	9114514
Total Lead (Pb)	ug/L	0.360	9111403	0.035	0.153	0.020	9114514
Total Lithium (Li)	ug/L	1.87	9111403	0.92	0.58	0.50	9114514
Total Manganese (Mn)	ug/L	29.4	9111403	5.27	9.13	0.10	9114514
Total Molybdenum (Mo)	ug/L	1.11	9111403	0.636	0.510	0.050	9114514
Total Nickel (Ni)	ug/L	2.69	9111403	1.15	1.07	0.10	9114514
Total Phosphorus (P)	ug/L	39.7	9111403	6.8	13.5	5.0	9114514
Total Selenium (Se)	ug/L	0.329	9111403	0.118	0.092	0.040	9114514
Total Silicon (Si)	ug/L	4130	9111403	5380	4390	50	9114514
Total Silver (Ag)	ug/L	0.014	9111403	<0.010	<0.010	0.010	9114514
Total Strontium (Sr)	ug/L	151	9111403	96.3	152	0.050	9114514
Total Thallium (Tl)	ug/L	0.0101	9111403	0.0053	0.0052	0.0020	9114514
Total Tin (Sn)	ug/L	<0.20	9111403	<0.20	<0.20	0.20	9114514
Total Titanium (Ti)	ug/L	10.3	9111403	3.7	10.1	2.0	9114514
Total Uranium (U)	ug/L	3.12	9111403	3.25	2.77	0.0050	9114514
Total Vanadium (V)	ug/L	1.57	9111403	0.67	0.86	0.20	9114514
Total Zinc (Zn)	ug/L	13.3	9111403	<1.0	<1.0	1.0	9114514
RDL = Reportable Detection Limit							

Maxxam Job #: B870087
Report Date: 2018/08/27

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		UC6936		UC6959	UC6960		
Sampling Date		2018/08/16 13:45		2018/08/16 09:15	2018/08/16 14:05		
COC Number		560076-01-01		560076-02-01	560076-02-01		
	UNITS	HALFWAY MIX	QC Batch	LATTE MIX	DUP	RDL	QC Batch
Total Zirconium (Zr)	ug/L	0.51	9111403	0.56	0.49	0.10	9114514
Total Calcium (Ca)	mg/L	25.2	9109068	18.0	25.7	0.25	9109068
Total Magnesium (Mg)	mg/L	7.51	9109068	6.06	7.07	0.25	9109068
Total Potassium (K)	mg/L	1.27	9109068	1.14	1.55	0.25	9109068
Total Sodium (Na)	mg/L	2.43	9109068	3.01	2.70	0.25	9109068
Total Sulphur (S)	mg/L	9.4	9109068	9.5	12.5	3.0	9109068
RDL = Reportable Detection Limit							

Maxxam Job #: B870087
Report Date: 2018/08/27

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

GENERAL COMMENTS

Sample UC6927 [CC-0.5] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample UC6928 [CC-1.5] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample UC6929 [CC-3.5] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample UC6930 [CC-4.5] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample UC6931 [HC-2.5] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample UC6932 [HC-5.0] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample UC6933 [YT-24] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample UC6934 [YT-24 MIX] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample UC6935 [COFFEE MIX] : Sample was analyzed past method specified hold time for Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level).

Sample UC6936 [HALFWAY MIX] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample UC6959 [LATTE MIX] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample UC6960 [DUP] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample UC6961 [FIELD BLANK] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level).

LL TOTAL METALS (DIGESTED) WITH CV HG Comments

Matrix Spike Elements by ICPMS Digested LL (total): RDL raised due to concentration over linear range, sample dilution required.

Matrix Spike Elements by ICPMS Digested LL (total): RDL raised due to concentration over linear range, sample dilution required.

Maxxam Job #: B870087
Report Date: 2018/08/27

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

Results relate only to the items tested.

Maxxam Job #: B870087
Report Date: 2018/08/27

QUALITY ASSURANCE REPORT

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9110781	Fluoride (F)	2018/08/21	103	80 - 120	106	80 - 120	<0.010	mg/L	2.7	20
9110789	Fluoride (F)	2018/08/21	104	80 - 120	106	80 - 120	<0.010	mg/L	0	20
9110807	Dissolved Mercury (Hg)	2018/08/21	89	80 - 120	92	80 - 120	<0.0020	ug/L	NC	20
9110908	Total Suspended Solids	2018/08/22			99	80 - 120	<1.0	mg/L		
9110951	Dissolved Mercury (Hg)	2018/08/21	97	80 - 120	93	80 - 120	<0.0020	ug/L	NC	20
9110952	Total Mercury (Hg)	2018/08/21	93	80 - 120	95	80 - 120	<0.0020	ug/L	NC	20
9110974	Total Dissolved Solids	2018/08/22	100	80 - 120	104	80 - 120	<10	mg/L	2.7	20
9111143	Dissolved Aluminum (Al)	2018/08/21	99	80 - 120	106	80 - 120	<0.50	ug/L	3.1	20
9111143	Dissolved Antimony (Sb)	2018/08/21	104	80 - 120	107	80 - 120	<0.020	ug/L	2.4	20
9111143	Dissolved Arsenic (As)	2018/08/21	104	80 - 120	106	80 - 120	<0.020	ug/L	1.6	20
9111143	Dissolved Barium (Ba)	2018/08/21	99	80 - 120	105	80 - 120	<0.020	ug/L	1.6	20
9111143	Dissolved Beryllium (Be)	2018/08/21	96	80 - 120	102	80 - 120	<0.010	ug/L	NC	20
9111143	Dissolved Bismuth (Bi)	2018/08/21	97	80 - 120	103	80 - 120	<0.0050	ug/L	NC	20
9111143	Dissolved Boron (B)	2018/08/21	94	80 - 120	95	80 - 120	<10	ug/L	NC	20
9111143	Dissolved Cadmium (Cd)	2018/08/21	101	80 - 120	104	80 - 120	<0.0050	ug/L	9.8	20
9111143	Dissolved Chromium (Cr)	2018/08/21	103	80 - 120	108	80 - 120	<0.10	ug/L	9.5	20
9111143	Dissolved Cobalt (Co)	2018/08/21	103	80 - 120	107	80 - 120	<0.0050	ug/L	4.1	20
9111143	Dissolved Copper (Cu)	2018/08/21	101	80 - 120	107	80 - 120	<0.050	ug/L	1.1	20
9111143	Dissolved Iron (Fe)	2018/08/21	99	80 - 120	107	80 - 120	<1.0	ug/L	0.94	20
9111143	Dissolved Lead (Pb)	2018/08/21	101	80 - 120	105	80 - 120	<0.0050	ug/L	5.4	20
9111143	Dissolved Lithium (Li)	2018/08/21	98	80 - 120	102	80 - 120	<0.50	ug/L	9.4	20
9111143	Dissolved Manganese (Mn)	2018/08/21	102	80 - 120	106	80 - 120	<0.050	ug/L	1.5	20
9111143	Dissolved Molybdenum (Mo)	2018/08/21	103	80 - 120	106	80 - 120	<0.050	ug/L	2.8	20
9111143	Dissolved Nickel (Ni)	2018/08/21	103	80 - 120	107	80 - 120	<0.020	ug/L	1.4	20
9111143	Dissolved Phosphorus (P)	2018/08/21	97	80 - 120	98	80 - 120	<2.0	ug/L	4.1	20
9111143	Dissolved Selenium (Se)	2018/08/21	105	80 - 120	105	80 - 120	<0.040	ug/L	NC	20
9111143	Dissolved Silicon (Si)	2018/08/21	94	80 - 120	88	80 - 120	<50	ug/L	0.92	20
9111143	Dissolved Silver (Ag)	2018/08/21	100	80 - 120	103	80 - 120	<0.0050	ug/L	NC	20
9111143	Dissolved Strontium (Sr)	2018/08/21	NC	80 - 120	101	80 - 120	<0.050	ug/L	0.043	20
9111143	Dissolved Thallium (Tl)	2018/08/21	98	80 - 120	102	80 - 120	<0.0020	ug/L	6.2	20
9111143	Dissolved Tin (Sn)	2018/08/21	101	80 - 120	105	80 - 120	<0.20	ug/L	NC	20

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QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9111143	Dissolved Titanium (Ti)	2018/08/21	104	80 - 120	110	80 - 120	<0.50	ug/L	13	20
9111143	Dissolved Uranium (U)	2018/08/21	105	80 - 120	108	80 - 120	<0.0020	ug/L	1.1	20
9111143	Dissolved Vanadium (V)	2018/08/21	105	80 - 120	108	80 - 120	<0.20	ug/L	5.0	20
9111143	Dissolved Zinc (Zn)	2018/08/21	105	80 - 120	108	80 - 120	<0.10	ug/L	4.2	20
9111143	Dissolved Zirconium (Zr)	2018/08/21	103	80 - 120	104	80 - 120	<0.10	ug/L	0.62	20
9111168	Dissolved Chloride (Cl)	2018/08/21	100	80 - 120	103	80 - 120	0.59, RDL=0.50	mg/L	17	20
9111170	Dissolved Sulphate (SO4)	2018/08/21	NC	80 - 120	105	80 - 120	0.53, RDL=0.50	mg/L	3.6	20
9111374	Total Aluminum (Al)	2018/08/21	93	80 - 120	97	80 - 120	<0.50	ug/L	8.9	20
9111374	Total Antimony (Sb)	2018/08/21	97	80 - 120	101	80 - 120	<0.020	ug/L	NC	20
9111374	Total Arsenic (As)	2018/08/21	97	80 - 120	102	80 - 120	<0.020	ug/L	NC	20
9111374	Total Barium (Ba)	2018/08/21	95	80 - 120	100	80 - 120	<0.020	ug/L	NC	20
9111374	Total Beryllium (Be)	2018/08/21	92	80 - 120	94	80 - 120	<0.010	ug/L	NC	20
9111374	Total Bismuth (Bi)	2018/08/21	95	80 - 120	100	80 - 120	<0.0050	ug/L	NC	20
9111374	Total Boron (B)	2018/08/21	93	80 - 120	93	80 - 120	<10	ug/L	NC	20
9111374	Total Cadmium (Cd)	2018/08/21	100	80 - 120	104	80 - 120	<0.0050	ug/L	NC	20
9111374	Total Chromium (Cr)	2018/08/21	99	80 - 120	104	80 - 120	<0.10	ug/L	NC	20
9111374	Total Cobalt (Co)	2018/08/21	97	80 - 120	101	80 - 120	<0.0050	ug/L	NC	20
9111374	Total Copper (Cu)	2018/08/21	97	80 - 120	101	80 - 120	<0.050	ug/L	NC	20
9111374	Total Iron (Fe)	2018/08/21	97	80 - 120	100	80 - 120	<1.0	ug/L	NC	20
9111374	Total Lead (Pb)	2018/08/21	95	80 - 120	99	80 - 120	<0.0050	ug/L	NC	20
9111374	Total Lithium (Li)	2018/08/21	90	80 - 120	92	80 - 120	<0.50	ug/L	NC	20
9111374	Total Manganese (Mn)	2018/08/21	99	80 - 120	103	80 - 120	<0.050	ug/L	NC	20
9111374	Total Molybdenum (Mo)	2018/08/21	98	80 - 120	106	80 - 120	<0.050	ug/L	NC	20
9111374	Total Nickel (Ni)	2018/08/21	98	80 - 120	104	80 - 120	<0.020	ug/L	NC	20
9111374	Total Phosphorus (P)	2018/08/21	92	80 - 120	97	80 - 120	3.2, RDL=2.0 (1)	ug/L	NC	20
9111374	Total Selenium (Se)	2018/08/21	98	80 - 120	100	80 - 120	<0.040	ug/L	NC	20
9111374	Total Silicon (Si)	2018/08/21	99	80 - 120	101	80 - 120	<50	ug/L	NC	20
9111374	Total Silver (Ag)	2018/08/21	98	80 - 120	101	80 - 120	<0.0050	ug/L	NC	20
9111374	Total Strontium (Sr)	2018/08/21	98	80 - 120	103	80 - 120	<0.050	ug/L	NC	20
9111374	Total Thallium (Tl)	2018/08/21	97	80 - 120	100	80 - 120	<0.0020	ug/L	NC	20
9111374	Total Tin (Sn)	2018/08/21	97	80 - 120	102	80 - 120	<0.20	ug/L	NC	20

Maxxam Job #: B870087
Report Date: 2018/08/27

QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9111374	Total Titanium (Ti)	2018/08/21	98	80 - 120	102	80 - 120	<0.50	ug/L	NC	20
9111374	Total Uranium (U)	2018/08/21	99	80 - 120	104	80 - 120	<0.0020	ug/L	NC	20
9111374	Total Vanadium (V)	2018/08/21	99	80 - 120	103	80 - 120	<0.20	ug/L	NC	20
9111374	Total Zinc (Zn)	2018/08/21	97	80 - 120	103	80 - 120	<0.10	ug/L	NC	20
9111374	Total Zirconium (Zr)	2018/08/21	96	80 - 120	102	80 - 120	<0.10	ug/L	NC	20
9111403	Total Aluminum (Al)	2018/08/23	NC	80 - 120	104	80 - 120	<3.0	ug/L	4.3	20
9111403	Total Antimony (Sb)	2018/08/23	104	80 - 120	108	80 - 120	<0.020	ug/L	2.2	20
9111403	Total Arsenic (As)	2018/08/23	111	80 - 120	110	80 - 120	<0.020	ug/L	9.9	20
9111403	Total Barium (Ba)	2018/08/23	NC	80 - 120	110	80 - 120	<0.050	ug/L	0.90	20
9111403	Total Beryllium (Be)	2018/08/23	99	80 - 120	106	80 - 120	<0.010	ug/L	NC	20
9111403	Total Bismuth (Bi)	2018/08/23	98	80 - 120	106	80 - 120	<0.010	ug/L	NC	20
9111403	Total Boron (B)	2018/08/23	NC	80 - 120	104	80 - 120	<10	ug/L	6.3	20
9111403	Total Cadmium (Cd)	2018/08/23	102	80 - 120	107	80 - 120	<0.0050	ug/L	NC	20
9111403	Total Chromium (Cr)	2018/08/23	98	80 - 120	103	80 - 120	<0.10	ug/L	2.6	20
9111403	Total Cobalt (Co)	2018/08/23	97	80 - 120	104	80 - 120	<0.010	ug/L	0.14	20
9111403	Total Copper (Cu)	2018/08/23	95	80 - 120	102	80 - 120	<0.10	ug/L	5.4	20
9111403	Total Iron (Fe)	2018/08/23	128 (2)	80 - 120	108	80 - 120	<5.0	ug/L	2.5	20
9111403	Total Lead (Pb)	2018/08/23	99	80 - 120	108	80 - 120	<0.020	ug/L	11	20
9111403	Total Lithium (Li)	2018/08/23	NC	80 - 120	108	80 - 120	<0.50	ug/L	2.0	20
9111403	Total Manganese (Mn)	2018/08/23	99	80 - 120	102	80 - 120	<0.10	ug/L	3.7	20
9111403	Total Molybdenum (Mo)	2018/08/23	NC	80 - 120	109	80 - 120	<0.050	ug/L	3.8	20
9111403	Total Nickel (Ni)	2018/08/23	95	80 - 120	103	80 - 120	<0.10	ug/L	16	20
9111403	Total Phosphorus (P)	2018/08/23	103	80 - 120	104	80 - 120	<5.0	ug/L		
9111403	Total Selenium (Se)	2018/08/23	104	80 - 120	108	80 - 120	<0.040	ug/L	10	20
9111403	Total Silicon (Si)	2018/08/23	129 (2)	80 - 120	102	80 - 120	<50	ug/L	5.9	20
9111403	Total Silver (Ag)	2018/08/23	98	80 - 120	106	80 - 120	<0.010	ug/L	NC	20
9111403	Total Strontium (Sr)	2018/08/23	NC	80 - 120	108	80 - 120	<0.050	ug/L	4.0	20
9111403	Total Thallium (Tl)	2018/08/23	98	80 - 120	105	80 - 120	<0.0020	ug/L	NC	20
9111403	Total Tin (Sn)	2018/08/23	101	80 - 120	107	80 - 120	<0.20	ug/L	NC	20
9111403	Total Titanium (Ti)	2018/08/23	108	80 - 120	102	80 - 120	<2.0	ug/L	5.8	20
9111403	Total Uranium (U)	2018/08/23	105	80 - 120	110	80 - 120	<0.0050	ug/L	2.4	20

Maxxam Job #: B870087
Report Date: 2018/08/27

QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9111403	Total Vanadium (V)	2018/08/23	103	80 - 120	104	80 - 120	<0.20	ug/L	0.84	20
9111403	Total Zinc (Zn)	2018/08/23	99	80 - 120	104	80 - 120	<1.0	ug/L	NC	20
9111403	Total Zirconium (Zr)	2018/08/23	120	80 - 120	105	80 - 120	<0.10	ug/L	0.63	20
9111622	Nitrate plus Nitrite (N)	2018/08/21	NC	80 - 120	108	80 - 120	<0.0020	mg/L	0.58	25
9111624	Nitrite (N)	2018/08/21	90	80 - 120	103	80 - 120	<0.0020	mg/L	NC	25
9111785	ORP	2018/08/24							0.33	20
9112476	Total Mercury (Hg)	2018/08/22	88	80 - 120	106	80 - 120	<0.0020	ug/L	NC	20
9112731	Total Mercury (Hg)	2018/08/22	101	80 - 120	98	80 - 120	<0.0020	ug/L	NC	20
9113174	Dissolved Organic Carbon (C)	2018/08/22	99	80 - 120	108	80 - 120	<0.50	mg/L	NC	20
9113175	Dissolved Organic Carbon (C)	2018/08/22	NC	80 - 120	101	80 - 120	<0.50	mg/L	2.4	20
9113177	Total Organic Carbon (C)	2018/08/22	95	80 - 120	110	80 - 120	<0.50	mg/L	9.0	20
9113178	Total Organic Carbon (C)	2018/08/22	99	80 - 120	109	80 - 120	<0.50	mg/L	0.97	20
9113226	Total Ammonia (N)	2018/08/22			94	80 - 120	<0.0050	mg/L		
9113228	Total Ammonia (N)	2018/08/22	115	80 - 120	107	80 - 120	<0.0050	mg/L	NC	20
9114514	Total Aluminum (Al)	2018/08/24	NC	80 - 120	102	80 - 120	<3.0	ug/L	4.4	20
9114514	Total Antimony (Sb)	2018/08/24	105	80 - 120	102	80 - 120	<0.020	ug/L	0.75	20
9114514	Total Arsenic (As)	2018/08/24	110	80 - 120	107	80 - 120	0.026, RDL=0.020 (3)	ug/L	3.7	20
9114514	Total Barium (Ba)	2018/08/24	NC	80 - 120	107	80 - 120	<0.050	ug/L	1.2	20
9114514	Total Beryllium (Be)	2018/08/24	99	80 - 120	99	80 - 120	<0.010	ug/L	14	20
9114514	Total Bismuth (Bi)	2018/08/24	98	80 - 120	102	80 - 120	<0.010	ug/L	NC	20
9114514	Total Boron (B)	2018/08/24	NC	80 - 120	99	80 - 120	<10	ug/L	0.080	20
9114514	Total Cadmium (Cd)	2018/08/24	102	80 - 120	103	80 - 120	<0.0050	ug/L	NC	20
9114514	Total Chromium (Cr)	2018/08/24	105	80 - 120	103	80 - 120	<0.10	ug/L	0.26	20
9114514	Total Cobalt (Co)	2018/08/24	97	80 - 120	102	80 - 120	<0.010	ug/L	4.9	20
9114514	Total Copper (Cu)	2018/08/24	94	80 - 120	101	80 - 120	<0.10	ug/L	18	20
9114514	Total Iron (Fe)	2018/08/24	NC	80 - 120	103	80 - 120	<5.0	ug/L	0.70	20
9114514	Total Lead (Pb)	2018/08/24	100	80 - 120	104	80 - 120	<0.020	ug/L	4.5	20
9114514	Total Lithium (Li)	2018/08/24	NC	80 - 120	98	80 - 120	<0.50	ug/L	1.7	20
9114514	Total Manganese (Mn)	2018/08/24	NC	80 - 120	101	80 - 120	<0.10	ug/L	2.1	20
9114514	Total Molybdenum (Mo)	2018/08/24	NC	80 - 120	105	80 - 120	<0.050	ug/L	2.0	20

Maxxam Job #: B870087
Report Date: 2018/08/27

QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9114514	Total Nickel (Ni)	2018/08/24	98	80 - 120	101	80 - 120	<0.10	ug/L	0.48	20
9114514	Total Phosphorus (P)	2018/08/24	102	80 - 120	101	80 - 120	<5.0	ug/L		
9114514	Total Selenium (Se)	2018/08/24	107	80 - 120	105	80 - 120	<0.040	ug/L	2.4	20
9114514	Total Silicon (Si)	2018/08/24	NC	80 - 120	100	80 - 120	<50	ug/L	1.3	20
9114514	Total Silver (Ag)	2018/08/24	100	80 - 120	103	80 - 120	<0.010	ug/L	NC	20
9114514	Total Strontium (Sr)	2018/08/24	NC	80 - 120	104	80 - 120	0.069, RDL=0.050 (4)	ug/L	0.60	20
9114514	Total Thallium (Tl)	2018/08/24	99	80 - 120	101	80 - 120	<0.0020	ug/L	5.0	20
9114514	Total Tin (Sn)	2018/08/24	101	80 - 120	102	80 - 120	<0.20	ug/L	NC	20
9114514	Total Titanium (Ti)	2018/08/24	NC	80 - 120	105	80 - 120	<2.0	ug/L	7.3	20
9114514	Total Uranium (U)	2018/08/24	105	80 - 120	107	80 - 120	<0.0050	ug/L	3.2	20
9114514	Total Vanadium (V)	2018/08/24	108	80 - 120	102	80 - 120	<0.20	ug/L	4.0	20
9114514	Total Zinc (Zn)	2018/08/24	102	80 - 120	102	80 - 120	<1.0	ug/L	2.6	20
9114514	Total Zirconium (Zr)	2018/08/24	NC	80 - 120	102	80 - 120	<0.10	ug/L	13	20
9114776	Free Cyanide	2018/08/23	101	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20
9115079	pH	2018/08/23			100	97 - 103			1.1	20
9115085	Alkalinity (PP as CaCO3)	2018/08/23					<0.50	mg/L	NC	20
9115085	Alkalinity (Total as CaCO3)	2018/08/23	102	80 - 120	94	80 - 120	0.70, RDL=0.50	mg/L	0.77	20
9115085	Bicarbonate (HCO3)	2018/08/23					0.85, RDL=0.50	mg/L	0.77	20
9115085	Carbonate (CO3)	2018/08/23					<0.50	mg/L	NC	20
9115085	Hydroxide (OH)	2018/08/23					<0.50	mg/L	NC	20
9115086	Conductivity	2018/08/23			99	80 - 120	<1.0	uS/cm	0.48	20
9115099	pH	2018/08/23			100	97 - 103				
9115103	Alkalinity (PP as CaCO3)	2018/08/23					<0.50	mg/L		
9115103	Alkalinity (Total as CaCO3)	2018/08/23			93	80 - 120	0.64, RDL=0.50	mg/L		
9115103	Bicarbonate (HCO3)	2018/08/23					0.78, RDL=0.50	mg/L		
9115103	Carbonate (CO3)	2018/08/23					<0.50	mg/L		
9115103	Hydroxide (OH)	2018/08/23					<0.50	mg/L		

Maxxam Job #: B870087
Report Date: 2018/08/27

QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9115106	Conductivity	2018/08/23			100	80 - 120	<1.0	uS/cm		

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

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

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

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Method blank exceeds acceptance limits for P- 2X RDL acceptable for low level metals determination.

(2) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

(3) Method Blank exceeds acceptance limits for (As) - 2X RDL acceptable for low level metals determination.

(4) Method Blank exceeds acceptance limits for (Sr) - 2X RDL acceptable for low level metals determination.

Maxxam Job #: B870087
Report Date: 2018/08/27

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Andy Lu, Ph.D., P.Chem., Scientific Specialist



Brad Newman, Scientific Specialist

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Maxxam Analytics International Corporation o/a Maxxam Analytics
 4806 Canada Way, Burnaby, British Columbia Canada V5G 1K5 Tel: (604) 734 7276 Toll-free 800-563-6266 Fax: (604) 731 2386 www.maxxam.ca

INVOICE TO:		Report Information		Project Information	
Company Name	#3604 LORAX ENVIRONMENTAL SERVICES LTD.	Company Name	David Flather	Quotation #	B40231
Contact Name	Aida Piaseczny	Contact Name	David Flather	P.O. #	
Address	2289 BURRARD STREET VANCOUVER BC V6J 3H9	Address		Project #	Gold Corp Coffee Creek-SW
Phone	(604) 688-7173 Fax: (604) 688-7175	Phone		Project Name	
Email	aida.piaseczny@lorax.ca; shukling.ng@lorax.ca	Email	David.Flather@lorax.ca	Site #	
				Sampled By	



8870087_COC

Bottle Order #:

 560076
 Project Manager



C#560076-01-01

Diana Cruz

Regulatory Criteria	Special Instructions	Analysis Requested													Turnaround Time (TAT) Required	
		Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	Routine (Alk-LI, EC-LI, NH4-LI, pH, TDS)	TSS-Low Level	Anions (LLCI, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP			Please provide advance notice for rush projects	
																<input checked="" type="checkbox"/> Regular (Standard) TAT (will be applied if Rush TAT is not specified) Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details. Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____ Rush Confirmation Number: _____ (call lab for #)

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 10°C) from time of sampling until delivery to maxxam




Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	Routine (Alk-LI, EC-LI, NH4-LI, pH, TDS)	TSS-Low Level	Anions (LLCI, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	# of Bottles	Comments
SID#152743	CC-0.5	2018-08-16	9:45	W	NY	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	
SID#215374	CC-1.5	2018-08-16	10:30	W	NY	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	
SID#215375	CC-3.5	2018-08-16	10:00	W	NY	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	RECEIVED IN WHITEHORSE BY: J. Murphy @ 0920
SID#215376	CC-4.5	2018-08-16	8:50	W	NY	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	2018-08-17
SID#215377	HC-2.5	2018-08-16	11:15	W	NY	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	TEMP: 4 1 4 1 4
SID#215378	HC-5.0	2018-08-16	13:15	W	NY	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	6 4 4
SID#215379	YT-24	2018-08-16	14:05	W	NY	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	7 6 3
SID#215380	YT-24 Mix	2018-08-16	14:35	W	NY	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	
SID#215381	Coffee Mix	2018-08-16	12:45	W	NY	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	
SID#215382	Halfway Mix	2018-08-16	13:45	W	NY	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	

RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# Jars used and not submitted	Lab Use Only		
ALEX CHARNOV	18-08-16	16:00	JILL PERRO	2018/08/20	09:45		Time Sensitive <input type="checkbox"/>	Temperature (°C) on Receipt: 0, 1, 1	Custody Seal Intact on Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.							White: Maxxam Yellow: Client		
* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.							2, 1, 4 4, 2, 2		

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Maxxam Analytics International Corporation or/la Maxxam Analytics
 4500 Canada Way, Burnaby, British Columbia Canada V5G 1K5 Tel:(604) 734-7276 Toll-free 800-563-6298 Fax:(604) 731-2366 www.maxxam.ca

INVOICE TO:		Report Information		Project Information	
Company Name: #3604 LORAX ENVIRONMENTAL SERVICES LTD.	Company Name:	Quotation #: B40231	 Bottle Order #:  560078 Project Manager: Diana Cruz		
Contact Name: Aida Piaseczny	Contact Name: David Flather	P.O. #:			
Address: 2289 BURRARD STREET	Address:	Project #: Gold Corp Coffee Creek-SW			
VANCOUVER BC V6J 3H9		Project Name:			
Phone: (604) 688-7173 Fax: (604) 688-7175	Phone: Fax:	Site #:			
Email: aida.piaseczny@lorax.ca; shukling.ng@lorax.ca	Email: David.Flather@lorax.ca	Sampled By:	 C4560078-02-01		

Regulatory Criteria	Special Instructions	Analysis Requested												Turnaround Time (TAT) Required	
<p>Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form</p> <p>Samples must be kept cool (< 10°C) from time of sampling until delivery to maxxam</p>		Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	Routine (Alk-LI, EC-LI, NH4-LI, pH, TDS)	TSS-Low Level	Anions (LL-Cl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	Please provide advance notice for rush projects Regular (Standard) TAT (will be applied if Rush TAT is not specified) Standard TAT = 5-7 Working days for most tests Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details. <input checked="" type="checkbox"/>		
Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____ Rush Confirmation Number: _____ (call for #)															

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	Routine (Alk-LI, EC-LI, NH4-LI, pH, TDS)	TSS-Low Level	Anions (LL-Cl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	# of Batches	Comments
1. SID#215383	Latte Mix	2018-08-16	9:15	W	NY	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	
2. SID#215384	Dup	2018-08-16	14:05	W	NY	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	
3. SID#215385	Field Blank	2018-08-16	15:25	W	NY	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	
4.																	RECEIVED IN WHITEHORSE
5.																	BY: [Signature] @ 0920
6.																	2018-08-17
7.																	TEMP: 4, 4, 4
8.																	6, 4, 4
9.																	7, 6, 3
10.																	

RELINQUISHED BY: (Signature/Print) <i>Alex Charon</i>	Date: (YY/MM/DD) 18-08-16	Time 16:00	RECEIVED BY: (Signature/Print) <i>Julio Pedro</i>	Date: (YY/MM/DD) 20180820	Time 09:45	# Jars used and not submitted	Lab Use Only	
* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.						Time Sensitive <input type="checkbox"/>	Temperature (°C) on Receipt: 0.1, 1	Custody Seal Intact on Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.						White Maxxam <input type="checkbox"/> Yellow Client <input type="checkbox"/>	2.1, 1.4 4.12, 2	

1673

Your Project #: Gold Corp Coffee Creek-SW
 Site Location: COFFEE CREEK - SURFACE WATER
 Your C.O.C. #: 560077-01-01, 560077-02-01

Attention: David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
 2289 BURRARD STREET
 VANCOUVER, BC
 CANADA V6J 3H9

Report Date: 2018/08/30

Report #: R2612099

Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B871313

Received: 2018/08/22, 12:00

Sample Matrix: Water
 # Samples Received: 13

Analyses	Date		Laboratory Method	Analytical Method
	Quantity	Extracted		
Alkalinity - Low Level	2	N/A	2018/08/25 BBY6SOP-00026	SM 22 2320 B m
Alkalinity - Low Level	3	N/A	2018/08/29 BBY6SOP-00026	SM 22 2320 B m
Alkalinity - Low Level	8	N/A	2018/08/30 BBY6SOP-00026	SM 22 2320 B m
Chloride - Low Level	13	N/A	2018/08/27 BBY6SOP-00011	SM 22 4500-Cl- E m
Carbon (DOC) - field filtered/preserved (2)	13	N/A	2018/08/24 BBY6SOP-00003	SM 22 5310 C m
Conductance - Low Level	2	N/A	2018/08/25 BBY6SOP-00026	SM 22 2510 B m
Conductance - Low Level	3	N/A	2018/08/29 BBY6SOP-00026	SM 22 2510 B m
Conductance - Low Level	8	N/A	2018/08/30 BBY6SOP-00026	SM 22 2510 B m
Fluoride - Low Level	13	N/A	2018/08/24 BBY6SOP-00048	SM 22 4500-F C m
Hardness Total (calculated as CaCO3) (3)	10	N/A	2018/08/24 BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO3) (3)	3	N/A	2018/08/28 BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3)	13	N/A	2018/08/24 BBY WI-00033	Auto Calc
Mercury (Dissolved) by CVAf	13	N/A	2018/08/27 BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Total) by CVAf	9	2018/08/24	2018/08/24 BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Total) by CVAf	4	2018/08/27	2018/08/27 BBY7SOP-00015	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	13	N/A	2018/08/24 BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (dissolved)	13	N/A	2018/08/23 BBY7SOP-00002	EPA 6020b R2 m
Elements by ICPMS Digested LL (total)	3	2018/08/24	2018/08/27 BBY7SOP-00003,	EPA 6020b R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total)	10	N/A	2018/08/24 BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (total)	3	N/A	2018/08/28 BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (total)	10	N/A	2018/08/24 BBY7SOP-00002	EPA 6020b R2 m
Ammonia-N Low Level (Preserved)	13	N/A	2018/08/28 BBY6SOP-00009	EPA 350.1 m
Nitrate+Nitrite (N) (low level)	13	N/A	2018/08/23 BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrite (N) (low level)	13	N/A	2018/08/23 BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrogen - Nitrate (as N) Low Level Calc	13	N/A	2018/08/24 BBY WI-00033	Auto Calc
ORP Analysis on Water by ARD LAB	13	N/A	2018/08/24 BBY0SOP-00004	SM 22 2580 B
Filter and HNO3 Preserve for Metals	13	N/A	2018/08/23 BBY7 WI-00004	BCMOE Reqs 08/14
pH Water (4)	2	N/A	2018/08/25 BBY6SOP-00026	SM 22 4500-H+ B m
pH Water (4)	3	N/A	2018/08/29 BBY6SOP-00026	SM 22 4500-H+ B m
pH Water (4)	8	N/A	2018/08/30 BBY6SOP-00026	SM 22 4500-H+ B m

Your Project #: Gold Corp Coffee Creek-SW
 Site Location: COFFEE CREEK - SURFACE WATER
 Your C.O.C. #: 560077-01-01, 560077-02-01

Attention: David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
 2289 BURRARD STREET
 VANCOUVER, BC
 CANADA V6J 3H9

Report Date: 2018/08/30

Report #: R2612099

Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B871313

Received: 2018/08/22, 12:00

Sample Matrix: Water
 # Samples Received: 13

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Sulphate - Low Level	13	N/A	2018/08/27	BBY6SOP-00017	SM 22 4500-SO42- E m
Total Dissolved Solids (Filt. Residue)	3	2018/08/23	2018/08/24	BBY6SOP-00033	SM 22 2540 C m
Total Dissolved Solids (Filt. Residue)	4	2018/08/24	2018/08/27	BBY6SOP-00033	SM 22 2540 C m
Total Dissolved Solids (Filt. Residue)	1	2018/08/24	2018/08/28	BBY6SOP-00033	SM 22 2540 C m
Total Dissolved Solids (Filt. Residue)	1	2018/08/27	2018/08/28	BBY6SOP-00033	SM 22 2540 C m
Total Dissolved Solids (Filt. Residue)	4	2018/08/28	2018/08/29	BBY6SOP-00033	SM 22 2540 C m
Carbon (Total Organic) (5)	13	N/A	2018/08/27	BBY6SOP-00003	SM 22 5310 C m
Total Suspended Solids-Low Level	13	2018/08/23	2018/08/24	BBY6SOP-00034	SM 22 2540 D
Free (WAD) Cyanide (1)	13	N/A	2018/08/29	CAM SOP-00457	OMOE E3015 5 m

Remarks:

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

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

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

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Maxxam, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

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

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER
Your C.O.C. #: 560077-01-01, 560077-02-01

Attention: David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
2289 BURRARD STREET
VANCOUVER, BC
CANADA V6J 3H9

Report Date: 2018/08/30
Report #: R2612099
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B871313

Received: 2018/08/22, 12:00

- (1) This test was performed by Maxxam Ontario (From Burnaby)
- (2) DOC present in the sample should be considered as non-purgeable DOC.
- (3) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).
- (4) The BC-MOE and APHA Standard Method require pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the BC-MOE/APHA Standard Method holding time.
- (5) TOC present in the sample should be considered as non-purgeable TOC.

Encryption Key



Maxxam
30 Aug 2018 17:40:46

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Diana Cruz, Project Manager
Email: DCruz@maxxam.ca
Phone# (604) 734 7276

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This report has been generated and distributed using a secure automated process.

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Job #: B871313
Report Date: 2018/08/30

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		UD3810			UD3810		UD3811		
Sampling Date		2018/08/21 07:55			2018/08/21 07:55		2018/08/20 13:50		
COC Number		560077-01-01			560077-01-01		560077-01-01		
	UNITS	CC-0.5	RDL	QC Batch	CC-0.5 Lab-Dup	QC Batch	CC-1.5	RDL	QC Batch
Parameter									
ORP	mV	278		9115008	277	9115008	283		9115008
Calculated Parameters									
Filter and HNO3 Preservation	N/A	LAB		9113745			LAB		9113745
Nitrate (N)	mg/L	0.276	0.0020	9114285			0.421	0.0020	9114285
Misc. Inorganics									
Fluoride (F)	mg/L	0.075	0.010	9115711			0.066	0.010	9115711
Free Cyanide	mg/L	<0.0010	0.0010	9123888			<0.0010	0.0010	9123869
Dissolved Organic Carbon (C)	mg/L	13.3	0.50	9116196			8.79	0.50	9116196
Alkalinity (Total as CaCO3)	mg/L	40.2	0.50	9124608			92.0	0.50	9124608
Total Organic Carbon (C)	mg/L	12.4	0.50	9116200			9.56	0.50	9116200
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	9124608			<0.50	0.50	9124608
Bicarbonate (HCO3)	mg/L	49.0	0.50	9124608			112	0.50	9124608
Carbonate (CO3)	mg/L	<0.50	0.50	9124608			<0.50	0.50	9124608
Hydroxide (OH)	mg/L	<0.50	0.50	9124608			<0.50	0.50	9124608
Anions									
Dissolved Sulphate (SO4)	mg/L	30.7	0.50	9119538			76.1	0.50	9119538
Dissolved Chloride (Cl)	mg/L	0.71	0.50	9119537			<0.50	0.50	9119537
Nutrients									
Total Ammonia (N)	mg/L	<0.0050	0.0050	9120183			0.015	0.0050	9120183
Nitrate plus Nitrite (N)	mg/L	0.276	0.0020	9114977			0.421	0.0020	9114977
Nitrite (N)	mg/L	<0.0020	0.0020	9114978			<0.0020	0.0020	9114978
Physical Properties									
Conductivity	uS/cm	154	1.0	9124609			332	1.0	9124609
pH	pH	7.68		9124595			7.95		9124595
Physical Properties									
Total Suspended Solids	mg/L	1.0	1.0	9114257			<1.0	1.0	9114257
Total Dissolved Solids	mg/L	118	10	9118716			214	10	9118699
RDL = Reportable Detection Limit									
Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B871313
Report Date: 2018/08/30

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		UD3811			UD3812		UD3813	UD3814		
Sampling Date		2018/08/20 13:50			2018/08/21 08:05		2018/08/21 06:35	2018/08/21 08:45		
COC Number		560077-01-01			560077-01-01		560077-01-01	560077-01-01		
	UNITS	CC-1.5 Lab-Dup	RDL	QC Batch	CC-3.5	QC Batch	CC-4.5	HC-2.5	RDL	QC Batch
Parameter										
ORP	mV				285	9115008	282	279		9115008
Calculated Parameters										
Filter and HNO3 Preservation	N/A				LAB	9113745	LAB	LAB		9113745
Nitrate (N)	mg/L				0.362	9114285	0.265	0.495	0.0020	9114285
Misc. Inorganics										
Fluoride (F)	mg/L	0.064	0.010	9115711	0.072	9115711	0.070	0.059	0.010	9115711
Free Cyanide	mg/L				<0.0010	9123869	<0.0010	<0.0010	0.0010	9123888
Dissolved Organic Carbon (C)	mg/L				10.2	9116196	11.5	10.7	0.50	9116196
Alkalinity (Total as CaCO3)	mg/L				73.3	9122646	45.5	68.3	0.50	9124608
Total Organic Carbon (C)	mg/L				12.7	9116200	13.3	11.5	0.50	9116200
Alkalinity (PP as CaCO3)	mg/L				<0.50	9122646	<0.50	<0.50	0.50	9124608
Bicarbonate (HCO3)	mg/L				89.4	9122646	55.5	83.3	0.50	9124608
Carbonate (CO3)	mg/L				<0.50	9122646	<0.50	<0.50	0.50	9124608
Hydroxide (OH)	mg/L				<0.50	9122646	<0.50	<0.50	0.50	9124608
Anions										
Dissolved Sulphate (SO4)	mg/L				64.3	9119538	34.4	27.1	0.50	9119538
Dissolved Chloride (Cl)	mg/L				0.65	9119537	0.69	<0.50	0.50	9119537
Nutrients										
Total Ammonia (N)	mg/L				<0.0050	9120183	0.0050	0.011	0.0050	9120183
Nitrate plus Nitrite (N)	mg/L				0.362	9114977	0.265	0.495	0.0020	9114977
Nitrite (N)	mg/L				<0.0020	9114978	<0.0020	<0.0020	0.0020	9114978
Physical Properties										
Conductivity	uS/cm				286	9122647	173	196	1.0	9124609
pH	pH				7.90	9122643	9.44	7.87		9124595
Physical Properties										
Total Suspended Solids	mg/L				<1.0	9114257	<1.0	<1.0	1.0	9114257
Total Dissolved Solids	mg/L				188	9114887	78	148	10	9118716
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B871313
Report Date: 2018/08/30

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		UD3815		UD3816			UD3816	
Sampling Date		2018/08/20 09:30		2018/08/20 10:35			2018/08/20 10:35	
COC Number		560077-01-01		560077-01-01			560077-01-01	
	UNITS	HC-5.0	QC Batch	YT-24	RDL	QC Batch	YT-24 Lab-Dup	QC Batch
Parameter								
ORP	mV	285	9115008	289		9115008	287	9115008
Calculated Parameters								
Filter and HNO3 Preservation	N/A	LAB	9113745	LAB		9113745		
Nitrate (N)	mg/L	0.407	9114285	0.857	0.0020	9114285		
Misc. Inorganics								
Fluoride (F)	mg/L	0.071	9115711	0.070	0.010	9115711		
Free Cyanide	mg/L	<0.0010	9123888	<0.0010	0.0010	9123888		
Dissolved Organic Carbon (C)	mg/L	12.7	9116196	12.2	0.50	9116196		
Alkalinity (Total as CaCO3)	mg/L	65.7	9116858	56.5	0.50	9124608		
Total Organic Carbon (C)	mg/L	12.3	9116200	12.1	0.50	9116200		
Alkalinity (PP as CaCO3)	mg/L	<0.50	9116858	<0.50	0.50	9124608		
Bicarbonate (HCO3)	mg/L	80.1	9116858	68.9	0.50	9124608		
Carbonate (CO3)	mg/L	<0.50	9116858	<0.50	0.50	9124608		
Hydroxide (OH)	mg/L	<0.50	9116858	<0.50	0.50	9124608		
Anions								
Dissolved Sulphate (SO4)	mg/L	28.6	9119538	44.7	0.50	9119538		
Dissolved Chloride (Cl)	mg/L	0.75	9119537	1.1	0.50	9119537		
Nutrients								
Total Ammonia (N)	mg/L	0.0050	9120183	<0.0050	0.0050	9120183		
Nitrate plus Nitrite (N)	mg/L	0.407	9114977	0.857	0.0020	9114977		
Nitrite (N)	mg/L	<0.0020	9114978	<0.0020	0.0020	9114978		
Physical Properties								
Conductivity	uS/cm	204	9116866	215	1.0	9124609		
pH	pH	7.62	9116863	7.78		9124595		
Physical Properties								
Total Suspended Solids	mg/L	<1.0	9114257	2.0	1.0	9114257		
Total Dissolved Solids	mg/L	150	9114887	154	10	9118699		
RDL = Reportable Detection Limit								
Lab-Dup = Laboratory Initiated Duplicate								

Maxxam Job #: B871313
Report Date: 2018/08/30

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		UD3817	UD3818		UD3819			UD3819		
Sampling Date		2018/08/20 10:20	2018/08/20 08:35		2018/08/20 09:15			2018/08/20 09:15		
COC Number		560077-01-01	560077-01-01		560077-01-01			560077-01-01		
	UNITS	YT-24 MIX	COFFEE MIX	QC Batch	HALFWAY MIX	RDL	QC Batch	HALFWAY MIX Lab-Dup	RDL	QC Batch
Parameter										
ORP	mV	284	290	9115008	297		9115008			
Calculated Parameters										
Filter and HNO3 Preservation	N/A	LAB	LAB	9113745	LAB		9113745			
Nitrate (N)	mg/L	0.0263	0.0179	9114285	0.116	0.0020	9114285			
Misc. Inorganics										
Fluoride (F)	mg/L	0.120	0.120	9115711	0.110	0.010	9115711			
Free Cyanide	mg/L	<0.0010	<0.0010	9123888	<0.0010	0.0010	9123869			
Dissolved Organic Carbon (C)	mg/L	2.48	2.96	9116196	5.83	0.50	9116196			
Alkalinity (Total as CaCO3)	mg/L	65.7	67.8	9124608	66.3	0.50	9124608			
Total Organic Carbon (C)	mg/L	5.34	5.44	9116200	6.20	0.50	9116200	6.09	0.50	9116200
Alkalinity (PP as CaCO3)	mg/L	<0.50	<0.50	9124608	<0.50	0.50	9124608			
Bicarbonate (HCO3)	mg/L	80.1	82.7	9124608	80.9	0.50	9124608			
Carbonate (CO3)	mg/L	<0.50	<0.50	9124608	<0.50	0.50	9124608			
Hydroxide (OH)	mg/L	<0.50	<0.50	9124608	<0.50	0.50	9124608			
Anions										
Dissolved Sulphate (SO4)	mg/L	27.5	26.6	9119538	28.2	0.50	9119538			
Dissolved Chloride (Cl)	mg/L	<0.50	<0.50	9119537	0.54	0.50	9119537			
Nutrients										
Total Ammonia (N)	mg/L	0.0070	<0.0050	9120183	0.0090	0.0050	9120183			
Nitrate plus Nitrite (N)	mg/L	0.0291	0.0205	9114977	0.119	0.0020	9114977			
Nitrite (N)	mg/L	0.0028	0.0026	9114978	0.0025	0.0020	9114978			
Physical Properties										
Conductivity	uS/cm	184	183	9124609	189	1.0	9124609			
pH	pH	7.86	7.87	9124595	7.86		9124595			
Physical Properties										
Total Suspended Solids	mg/L	34.5	29.3	9114257	21.1	1.0	9114257			
Total Dissolved Solids	mg/L	116	108	9116336	126	10	9116336			
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B871313
Report Date: 2018/08/30

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		UD3895		UD3896		UD3897		
Sampling Date		2018/08/21 09:55		2018/08/21 08:55		2018/08/20 13:00		
COC Number		560077-02-01		560077-02-01		560077-02-01		
	UNITS	LATTE MIX	QC Batch	DUP	QC Batch	FIELD BLANK	RDL	QC Batch
Parameter								
ORP	mV	307	9115008	312	9115008	319		9115008
Calculated Parameters								
Filter and HNO3 Preservation	N/A	LAB	9113745	LAB	9113745	LAB		9113745
Nitrate (N)	mg/L	0.287	9114285	0.485	9114285	0.0030	0.0020	9114285
Misc. Inorganics								
Fluoride (F)	mg/L	0.072	9115711	0.059	9115711	<0.010	0.010	9115711
Free Cyanide	mg/L	<0.0010	9123888	<0.0010	9123888	<0.0010	0.0010	9123888
Dissolved Organic Carbon (C)	mg/L	14.4	9116196	8.01	9116196	<0.50	0.50	9116196
Alkalinity (Total as CaCO3)	mg/L	44.1	9116854	67.3	9122646	0.75	0.50	9122646
Total Organic Carbon (C)	mg/L	13.0	9116200	10.1	9116200	<0.50	0.50	9116200
Alkalinity (PP as CaCO3)	mg/L	<0.50	9116854	<0.50	9122646	<0.50	0.50	9122646
Bicarbonate (HCO3)	mg/L	53.8	9116854	82.1	9122646	0.92	0.50	9122646
Carbonate (CO3)	mg/L	<0.50	9116854	<0.50	9122646	<0.50	0.50	9122646
Hydroxide (OH)	mg/L	<0.50	9116854	<0.50	9122646	<0.50	0.50	9122646
Anions								
Dissolved Sulphate (SO4)	mg/L	32.7	9119538	29.9	9119538	0.73	0.50	9119538
Dissolved Chloride (Cl)	mg/L	<0.50	9119537	0.53	9119537	<0.50	0.50	9119537
Nutrients								
Total Ammonia (N)	mg/L	0.0080	9120183	0.010	9120183	<0.0050	0.0050	9120183
Nitrate plus Nitrite (N)	mg/L	0.287	9114977	0.485	9114977	0.0030	0.0020	9114977
Nitrite (N)	mg/L	<0.0020	9114978	<0.0020	9114978	<0.0020	0.0020	9114978
Physical Properties								
Conductivity	uS/cm	172	9116856	204	9122647	1.6	1.0	9122647
pH	pH	7.55	9116845	7.92	9122643	5.81		9122643
Physical Properties								
Total Suspended Solids	mg/L	<1.0	9114257	<1.0	9114257	<1.0	1.0	9114257
Total Dissolved Solids	mg/L	132	9114887	142	9118716	<10	10	9116336
RDL = Reportable Detection Limit								

Maxxam Job #: B871313
Report Date: 2018/08/30

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		UD3897		
Sampling Date		2018/08/20 13:00		
COC Number		560077-02-01		
	UNITS	FIELD BLANK Lab-Dup	RDL	QC Batch

Nutrients				
Nitrate plus Nitrite (N)	mg/L	<0.0020	0.0020	9114977
Nitrite (N)	mg/L	<0.0020	0.0020	9114978
RDL = Reportable Detection Limit				
Lab-Dup = Laboratory Initiated Duplicate				

Maxxam Job #: B871313
Report Date: 2018/08/30

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		UD3810	UD3811	UD3812	UD3813	UD3814	UD3815		
Sampling Date		2018/08/21 07:55	2018/08/20 13:50	2018/08/21 08:05	2018/08/21 06:35	2018/08/21 08:45	2018/08/20 09:30		
COC Number		560077-01-01	560077-01-01	560077-01-01	560077-01-01	560077-01-01	560077-01-01		
	UNITS	CC-0.5	CC-1.5	CC-3.5	CC-4.5	HC-2.5	HC-5.0	RDL	QC Batch

Calculated Parameters

Dissolved Hardness (CaCO3)	mg/L	71.5	165	136	77.8	93.9	99.9	0.50	9114275
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Elements

Dissolved Mercury (Hg)	ug/L	0.0077	0.0042	0.0077	0.0061	0.0029	0.0034	0.0020	9118427
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Dissolved Metals by ICPMS

Dissolved Aluminum (Al)	ug/L	83.5	66.2	44.6	69.9	65.0	45.2	0.50	9114531
Dissolved Antimony (Sb)	ug/L	0.117	0.108	0.098	0.110	0.399	0.236	0.020	9114531
Dissolved Arsenic (As)	ug/L	0.512	0.652	0.401	0.446	1.02	0.656	0.020	9114531
Dissolved Barium (Ba)	ug/L	39.2	43.1	52.7	44.0	36.1	41.4	0.020	9114531
Dissolved Beryllium (Be)	ug/L	<0.010	0.013	0.016	0.010	0.011	<0.010	0.010	9114531
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9114531
Dissolved Boron (B)	ug/L	<10	<10	<10	<10	<10	<10	10	9114531
Dissolved Cadmium (Cd)	ug/L	0.0085	<0.0050	<0.0050	0.0057	<0.0050	<0.0050	0.0050	9114531
Dissolved Chromium (Cr)	ug/L	0.38	0.29	0.25	0.34	0.34	0.29	0.10	9114531
Dissolved Cobalt (Co)	ug/L	0.0572	0.0395	0.0410	0.0570	0.0512	0.0479	0.0050	9114531
Dissolved Copper (Cu)	ug/L	2.50	1.41	1.46	2.27	1.40	1.82	0.050	9114531
Dissolved Iron (Fe)	ug/L	69.5	40.8	24.3	50.2	45.5	34.8	1.0	9114531
Dissolved Lead (Pb)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	<0.0050	0.0050	9114531
Dissolved Lithium (Li)	ug/L	0.94	1.97	0.65	0.70	1.07	0.85	0.50	9114531
Dissolved Manganese (Mn)	ug/L	3.95	3.95	0.469	3.49	2.10	0.373	0.050	9114531
Dissolved Molybdenum (Mo)	ug/L	0.680	0.178	0.271	0.624	1.23	0.604	0.050	9114531
Dissolved Nickel (Ni)	ug/L	1.05	0.533	0.558	0.947	0.629	0.835	0.020	9114531
Dissolved Phosphorus (P)	ug/L	6.7	7.5	7.1	6.0	4.5	7.3	2.0	9114531
Dissolved Selenium (Se)	ug/L	0.106	0.116	0.081	0.098	0.070	0.081	0.040	9114531
Dissolved Silicon (Si)	ug/L	5520	5560	4980	5120	5270	4810	50	9114531
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9114531
Dissolved Strontium (Sr)	ug/L	87.0	378	258	105	270	215	0.050	9114531
Dissolved Thallium (Tl)	ug/L	0.0043	0.0022	0.0021	0.0034	0.0023	0.0036	0.0020	9114531
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	9114531
Dissolved Titanium (Ti)	ug/L	1.14	0.63	0.62	0.83	0.76	0.93	0.50	9114531
Dissolved Uranium (U)	ug/L	3.18	8.74	5.41	2.39	22.7	8.19	0.0020	9114531
Dissolved Vanadium (V)	ug/L	0.53	0.36	0.32	0.45	0.40	0.42	0.20	9114531

RDL = Reportable Detection Limit

Maxxam Job #: B871313
Report Date: 2018/08/30

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		UD3810	UD3811	UD3812	UD3813	UD3814	UD3815		
Sampling Date		2018/08/21 07:55	2018/08/20 13:50	2018/08/21 08:05	2018/08/21 06:35	2018/08/21 08:45	2018/08/20 09:30		
COC Number		560077-01-01	560077-01-01	560077-01-01	560077-01-01	560077-01-01	560077-01-01		
	UNITS	CC-0.5	CC-1.5	CC-3.5	CC-4.5	HC-2.5	HC-5.0	RDL	QC Batch
Dissolved Zinc (Zn)	ug/L	0.41	0.31	0.21	0.29	0.18	0.19	0.10	9114531
Dissolved Zirconium (Zr)	ug/L	0.59	0.59	0.58	0.55	0.54	0.55	0.10	9114531
Dissolved Calcium (Ca)	mg/L	18.4	44.0	37.2	20.2	23.9	27.2	0.050	9114279
Dissolved Magnesium (Mg)	mg/L	6.20	13.4	10.5	6.62	8.34	7.74	0.050	9114279
Dissolved Potassium (K)	mg/L	1.07	2.33	2.03	1.18	1.79	1.90	0.050	9114279
Dissolved Sodium (Na)	mg/L	3.28	3.08	3.48	3.22	2.61	2.90	0.050	9114279
Dissolved Sulphur (S)	mg/L	10.5	24.8	20.9	11.2	9.2	9.9	3.0	9114279
RDL = Reportable Detection Limit									

Maxxam Job #: B871313
Report Date: 2018/08/30

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		UD3816	UD3817	UD3818			UD3818		
Sampling Date		2018/08/20 10:35	2018/08/20 10:20	2018/08/20 08:35			2018/08/20 08:35		
COC Number		560077-01-01	560077-01-01	560077-01-01			560077-01-01		
	UNITS	YT-24	YT-24 MIX	COFFEE MIX	RDL	QC Batch	COFFEE MIX Lab-Dup	RDL	QC Batch
Calculated Parameters									
Dissolved Hardness (CaCO3)	mg/L	102	86.9	92.3	0.50	9114275			
Elements									
Dissolved Mercury (Hg)	ug/L	0.0092	<0.0020	0.0026	0.0020	9118427			
Dissolved Metals by ICPMS									
Dissolved Aluminum (Al)	ug/L	45.0	33.0	31.3	0.50	9114531	32.6	0.50	9114531
Dissolved Antimony (Sb)	ug/L	0.194	0.099	0.103	0.020	9114531	0.112	0.020	9114531
Dissolved Arsenic (As)	ug/L	0.522	0.504	0.479	0.020	9114531	0.504	0.020	9114531
Dissolved Barium (Ba)	ug/L	50.3	39.7	40.9	0.020	9114531	41.3	0.020	9114531
Dissolved Beryllium (Be)	ug/L	0.013	<0.010	<0.010	0.010	9114531	<0.010	0.010	9114531
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	0.0050	9114531	<0.0050	0.0050	9114531
Dissolved Boron (B)	ug/L	<10	<10	<10	10	9114531	<10	10	9114531
Dissolved Cadmium (Cd)	ug/L	<0.0050	0.0374	0.0332	0.0050	9114531	0.0335	0.0050	9114531
Dissolved Chromium (Cr)	ug/L	0.30	<0.10	<0.10	0.10	9114531	<0.10	0.10	9114531
Dissolved Cobalt (Co)	ug/L	0.0703	0.0197	0.0175	0.0050	9114531	0.0198	0.0050	9114531
Dissolved Copper (Cu)	ug/L	1.91	1.02	0.941	0.050	9114531	0.920	0.050	9114531
Dissolved Iron (Fe)	ug/L	37.1	17.3	17.1	1.0	9114531	17.4	1.0	9114531
Dissolved Lead (Pb)	ug/L	<0.0050	0.0156	0.0140	0.0050	9114531	0.0155	0.0050	9114531
Dissolved Lithium (Li)	ug/L	<0.50	1.51	1.56	0.50	9114531	1.55	0.50	9114531
Dissolved Manganese (Mn)	ug/L	2.15	2.18	1.58	0.050	9114531	1.56	0.050	9114531
Dissolved Molybdenum (Mo)	ug/L	0.475	1.16	1.17	0.050	9114531	1.24	0.050	9114531
Dissolved Nickel (Ni)	ug/L	0.735	1.15	1.11	0.020	9114531	1.20	0.020	9114531
Dissolved Phosphorus (P)	ug/L	5.3	5.2	2.5	2.0	9114531	2.3	2.0	9114531
Dissolved Selenium (Se)	ug/L	0.082	0.338	0.350	0.040	9114531	0.356	0.040	9114531
Dissolved Silicon (Si)	ug/L	4110	2720	2840	50	9114531	2890	50	9114531
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	0.0050	9114531	<0.0050	0.0050	9114531
Dissolved Strontium (Sr)	ug/L	161	115	119	0.050	9114531	120	0.050	9114531
Dissolved Thallium (Tl)	ug/L	0.0021	0.0022	0.0022	0.0020	9114531	0.0032	0.0020	9114531
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	<0.20	0.20	9114531	<0.20	0.20	9114531
Dissolved Titanium (Ti)	ug/L	0.72	<0.50	0.51	0.50	9114531	<0.50	0.50	9114531
Dissolved Uranium (U)	ug/L	2.41	1.02	0.966	0.0020	9114531	0.958	0.0020	9114531
RDL = Reportable Detection Limit									
Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B871313
Report Date: 2018/08/30

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		UD3816	UD3817	UD3818			UD3818		
Sampling Date		2018/08/20 10:35	2018/08/20 10:20	2018/08/20 08:35			2018/08/20 08:35		
COC Number		560077-01-01	560077-01-01	560077-01-01			560077-01-01		
	UNITS	YT-24	YT-24 MIX	COFFEE MIX	RDL	QC Batch	COFFEE MIX Lab-Dup	RDL	QC Batch
Dissolved Vanadium (V)	ug/L	0.39	0.32	0.31	0.20	9114531	0.28	0.20	9114531
Dissolved Zinc (Zn)	ug/L	0.17	1.74	1.35	0.10	9114531	1.40	0.10	9114531
Dissolved Zirconium (Zr)	ug/L	0.61	<0.10	<0.10	0.10	9114531	<0.10	0.10	9114531
Dissolved Calcium (Ca)	mg/L	28.4	23.7	25.4	0.050	9114279			
Dissolved Magnesium (Mg)	mg/L	7.49	6.71	6.99	0.050	9114279			
Dissolved Potassium (K)	mg/L	1.55	0.723	0.734	0.050	9114279			
Dissolved Sodium (Na)	mg/L	2.79	1.87	1.91	0.050	9114279			
Dissolved Sulphur (S)	mg/L	14.6	9.1	8.4	3.0	9114279			
RDL = Reportable Detection Limit									
Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B871313
 Report Date: 2018/08/30

LORAX ENVIRONMENTAL SERVICES LTD.
 Client Project #: Gold Corp Coffee Creek-SW
 Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		UD3819	UD3895	UD3896	UD3897		
Sampling Date		2018/08/20 09:15	2018/08/21 09:55	2018/08/21 08:55	2018/08/20 13:00		
COC Number		560077-01-01	560077-02-01	560077-02-01	560077-02-01		
	UNITS	HALFWAY MIX	LATTE MIX	DUP	FIELD BLANK	RDL	QC Batch
Calculated Parameters							
Dissolved Hardness (CaCO3)	mg/L	92.8	77.1	92.4	<0.50	0.50	9114275
Elements							
Dissolved Mercury (Hg)	ug/L	<0.0020	0.0076	0.0064	<0.0020	0.0020	9118486
Dissolved Metals by ICPMS							
Dissolved Aluminum (Al)	ug/L	33.4	83.1	64.5	<0.50	0.50	9114531
Dissolved Antimony (Sb)	ug/L	0.144	0.108	0.380	<0.020	0.020	9114531
Dissolved Arsenic (As)	ug/L	0.559	0.498	1.01	<0.020	0.020	9114531
Dissolved Barium (Ba)	ug/L	41.6	40.3	34.4	<0.020	0.020	9114531
Dissolved Beryllium (Be)	ug/L	<0.010	<0.010	0.014	<0.010	0.010	9114531
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9114531
Dissolved Boron (B)	ug/L	<10	<10	<10	<10	10	9114531
Dissolved Cadmium (Cd)	ug/L	0.0351	0.0075	<0.0050	<0.0050	0.0050	9114531
Dissolved Chromium (Cr)	ug/L	0.13	0.36	0.41	<0.10	0.10	9114531
Dissolved Cobalt (Co)	ug/L	0.0366	0.0594	0.0515	<0.0050	0.0050	9114531
Dissolved Copper (Cu)	ug/L	1.25	2.37	1.39	<0.050	0.050	9114531
Dissolved Iron (Fe)	ug/L	21.7	61.6	45.1	1.8	1.0	9114531
Dissolved Lead (Pb)	ug/L	0.0115	<0.0050	<0.0050	<0.0050	0.0050	9114531
Dissolved Lithium (Li)	ug/L	1.37	0.88	1.09	<0.50	0.50	9114531
Dissolved Manganese (Mn)	ug/L	2.83	3.45	2.05	<0.050	0.050	9114531
Dissolved Molybdenum (Mo)	ug/L	1.05	0.657	1.23	<0.050	0.050	9114531
Dissolved Nickel (Ni)	ug/L	1.17	1.03	0.612	<0.020	0.020	9114531
Dissolved Phosphorus (P)	ug/L	6.8	6.9	5.3	2.3	2.0	9114531
Dissolved Selenium (Se)	ug/L	0.275	0.094	0.069	<0.040	0.040	9114531
Dissolved Silicon (Si)	ug/L	3380	5270	5080	<50	50	9114531
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9114531
Dissolved Strontium (Sr)	ug/L	141	103	257	<0.050	0.050	9114531
Dissolved Thallium (Tl)	ug/L	0.0022	0.0042	<0.0020	<0.0020	0.0020	9114531
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	9114531
Dissolved Titanium (Ti)	ug/L	<0.50	0.87	1.03	<0.50	0.50	9114531
Dissolved Uranium (U)	ug/L	2.71	3.33	21.4	<0.0020	0.0020	9114531
Dissolved Vanadium (V)	ug/L	0.35	0.52	0.42	<0.20	0.20	9114531
RDL = Reportable Detection Limit							

Maxxam Job #: B871313
Report Date: 2018/08/30

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		UD3819	UD3895	UD3896	UD3897		
Sampling Date		2018/08/20 09:15	2018/08/21 09:55	2018/08/21 08:55	2018/08/20 13:00		
COC Number		560077-01-01	560077-02-01	560077-02-01	560077-02-01		
	UNITS	HALFWAY MIX	LATTE MIX	DUP	FIELD BLANK	RDL	QC Batch
Dissolved Zinc (Zn)	ug/L	1.55	0.39	0.19	<0.10	0.10	9114531
Dissolved Zirconium (Zr)	ug/L	0.17	0.59	0.54	<0.10	0.10	9114531
Dissolved Calcium (Ca)	mg/L	25.5	19.8	23.8	<0.050	0.050	9114279
Dissolved Magnesium (Mg)	mg/L	7.07	6.70	8.02	<0.050	0.050	9114279
Dissolved Potassium (K)	mg/L	1.05	1.17	1.73	<0.050	0.050	9114279
Dissolved Sodium (Na)	mg/L	2.11	3.36	2.59	<0.050	0.050	9114279
Dissolved Sulphur (S)	mg/L	8.7	12.0	9.4	<3.0	3.0	9114279
RDL = Reportable Detection Limit							

Maxxam Job #: B871313
 Report Date: 2018/08/30

LORAX ENVIRONMENTAL SERVICES LTD.
 Client Project #: Gold Corp Coffee Creek-SW
 Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		UD3897		
Sampling Date		2018/08/20 13:00		
COC Number		560077-02-01		
	UNITS	FIELD BLANK Lab-Dup	RDL	QC Batch
Elements				
Dissolved Mercury (Hg)	ug/L	0.0036	0.0020	9118486
Dissolved Metals by ICPMS				
Dissolved Aluminum (Al)	ug/L	<0.50	0.50	9114531
Dissolved Antimony (Sb)	ug/L	<0.020	0.020	9114531
Dissolved Arsenic (As)	ug/L	<0.020	0.020	9114531
Dissolved Barium (Ba)	ug/L	<0.020	0.020	9114531
Dissolved Beryllium (Be)	ug/L	<0.010	0.010	9114531
Dissolved Bismuth (Bi)	ug/L	<0.0050	0.0050	9114531
Dissolved Boron (B)	ug/L	<10	10	9114531
Dissolved Cadmium (Cd)	ug/L	<0.0050	0.0050	9114531
Dissolved Chromium (Cr)	ug/L	<0.10	0.10	9114531
Dissolved Cobalt (Co)	ug/L	<0.0050	0.0050	9114531
Dissolved Copper (Cu)	ug/L	<0.050	0.050	9114531
Dissolved Iron (Fe)	ug/L	<1.0	1.0	9114531
Dissolved Lead (Pb)	ug/L	<0.0050	0.0050	9114531
Dissolved Lithium (Li)	ug/L	<0.50	0.50	9114531
Dissolved Manganese (Mn)	ug/L	<0.050	0.050	9114531
Dissolved Molybdenum (Mo)	ug/L	<0.050	0.050	9114531
Dissolved Nickel (Ni)	ug/L	<0.020	0.020	9114531
Dissolved Phosphorus (P)	ug/L	2.1	2.0	9114531
Dissolved Selenium (Se)	ug/L	<0.040	0.040	9114531
Dissolved Silicon (Si)	ug/L	<50	50	9114531
Dissolved Silver (Ag)	ug/L	<0.0050	0.0050	9114531
Dissolved Strontium (Sr)	ug/L	<0.050	0.050	9114531
Dissolved Thallium (Tl)	ug/L	<0.0020	0.0020	9114531
Dissolved Tin (Sn)	ug/L	<0.20	0.20	9114531
Dissolved Titanium (Ti)	ug/L	<0.50	0.50	9114531
Dissolved Uranium (U)	ug/L	<0.0020	0.0020	9114531
Dissolved Vanadium (V)	ug/L	<0.20	0.20	9114531
RDL = Reportable Detection Limit				
Lab-Dup = Laboratory Initiated Duplicate				

Maxxam Job #: B871313
Report Date: 2018/08/30

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		UD3897		
Sampling Date		2018/08/20 13:00		
COC Number		560077-02-01		
	UNITS	FIELD BLANK Lab-Dup	RDL	QC Batch
Dissolved Zinc (Zn)	ug/L	<0.10	0.10	9114531
Dissolved Zirconium (Zr)	ug/L	<0.10	0.10	9114531
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate				

Maxxam Job #: B871313
Report Date: 2018/08/30

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		UD3810			UD3810			UD3811		
Sampling Date		2018/08/21 07:55			2018/08/21 07:55			2018/08/20 13:50		
COC Number		560077-01-01			560077-01-01			560077-01-01		
	UNITS	CC-0.5	RDL	QC Batch	CC-0.5 Lab-Dup	RDL	QC Batch	CC-1.5	RDL	QC Batch

Calculated Parameters

Total Hardness (CaCO3)	mg/L	71.1	0.50	9114271				160	0.50	9114271
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Elements

Total Mercury (Hg)	ug/L	0.0034	0.0020	9115669				0.0034	0.0020	9115669
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Total Metals by ICPMS

Total Aluminum (Al)	ug/L	118	0.50	9116071	105	0.50	9116071	77.8	0.50	9116071
Total Antimony (Sb)	ug/L	0.126	0.020	9116071	0.126	0.020	9116071	0.120	0.020	9116071
Total Arsenic (As)	ug/L	0.502	0.020	9116071	0.486	0.020	9116071	0.603	0.020	9116071
Total Barium (Ba)	ug/L	40.2	0.020	9116071	40.6	0.020	9116071	44.0	0.020	9116071
Total Beryllium (Be)	ug/L	0.012	0.010	9116071	0.011	0.010	9116071	0.019	0.010	9116071
Total Bismuth (Bi)	ug/L	<0.0050	0.0050	9116071	<0.0050	0.0050	9116071	<0.0050	0.0050	9116071
Total Boron (B)	ug/L	<10	10	9116071	<10	10	9116071	<10	10	9116071
Total Cadmium (Cd)	ug/L	0.0080	0.0050	9116071	0.0067	0.0050	9116071	<0.0050	0.0050	9116071
Total Chromium (Cr)	ug/L	0.38	0.10	9116071	0.40	0.10	9116071	0.28	0.10	9116071
Total Cobalt (Co)	ug/L	0.0689	0.0050	9116071	0.0686	0.0050	9116071	0.0486	0.0050	9116071
Total Copper (Cu)	ug/L	2.53	0.050	9116071	2.49	0.050	9116071	1.45	0.050	9116071
Total Iron (Fe)	ug/L	96.7	1.0	9116071	96.1	1.0	9116071	56.1	1.0	9116071
Total Lead (Pb)	ug/L	0.0144	0.0050	9116071	0.0139	0.0050	9116071	0.0102	0.0050	9116071
Total Lithium (Li)	ug/L	1.02	0.50	9116071	1.00	0.50	9116071	2.05	0.50	9116071
Total Manganese (Mn)	ug/L	4.90	0.050	9116071	4.82	0.050	9116071	4.89	0.050	9116071
Total Molybdenum (Mo)	ug/L	0.718	0.050	9116071	0.720	0.050	9116071	0.186	0.050	9116071
Total Nickel (Ni)	ug/L	1.08	0.020	9116071	1.13	0.020	9116071	0.570	0.020	9116071
Total Phosphorus (P)	ug/L	2.9	2.0	9116071	<2.0	2.0	9116071	3.1	2.0	9116071
Total Selenium (Se)	ug/L	0.106	0.040	9116071	0.108	0.040	9116071	0.104	0.040	9116071
Total Silicon (Si)	ug/L	5280	50	9116071	5490	50	9116071	5250	50	9116071
Total Silver (Ag)	ug/L	<0.0050	0.0050	9116071	<0.0050	0.0050	9116071	<0.0050	0.0050	9116071
Total Strontium (Sr)	ug/L	91.7	0.050	9116071	89.6	0.050	9116071	376	0.050	9116071
Total Thallium (Tl)	ug/L	0.0050	0.0020	9116071	0.0055	0.0020	9116071	0.0030	0.0020	9116071
Total Tin (Sn)	ug/L	<0.20	0.20	9116071	<0.20	0.20	9116071	<0.20	0.20	9116071
Total Titanium (Ti)	ug/L	1.88	0.50	9116071	1.74	0.50	9116071	1.05	0.50	9116071
Total Uranium (U)	ug/L	3.61	0.0020	9116071	3.52	0.0020	9116071	9.48	0.0020	9116071

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Maxxam Job #: B871313
Report Date: 2018/08/30

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		UD3810			UD3810			UD3811		
Sampling Date		2018/08/21 07:55			2018/08/21 07:55			2018/08/20 13:50		
COC Number		560077-01-01			560077-01-01			560077-01-01		
	UNITS	CC-0.5	RDL	QC Batch	CC-0.5 Lab-Dup	RDL	QC Batch	CC-1.5	RDL	QC Batch
Total Vanadium (V)	ug/L	0.54	0.20	9116071	0.45	0.20	9116071	0.33	0.20	9116071
Total Zinc (Zn)	ug/L	0.41	0.10	9116071	0.46	0.10	9116071	0.31	0.10	9116071
Total Zirconium (Zr)	ug/L	0.52	0.10	9116071	0.53	0.10	9116071	0.53	0.10	9116071
Total Calcium (Ca)	mg/L	18.2	0.050	9114282				41.7	0.050	9114282
Total Magnesium (Mg)	mg/L	6.26	0.050	9114282				13.7	0.050	9114282
Total Potassium (K)	mg/L	1.10	0.050	9114282				2.37	0.050	9114282
Total Sodium (Na)	mg/L	3.30	0.050	9114282				3.15	0.050	9114282
Total Sulphur (S)	mg/L	10.5	3.0	9114282				25.0	3.0	9114282
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B871313
Report Date: 2018/08/30

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		UD3812		UD3813	UD3814	UD3815	UD3816		
Sampling Date		2018/08/21 08:05		2018/08/21 06:35	2018/08/21 08:45	2018/08/20 09:30	2018/08/20 10:35		
COC Number		560077-01-01		560077-01-01	560077-01-01	560077-01-01	560077-01-01		
	UNITS	CC-3.5	QC Batch	CC-4.5	HC-2.5	HC-5.0	YT-24	RDL	QC Batch
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	131	9114271	79.0	92.1	93.2	101	0.50	9114271
Elements									
Total Mercury (Hg)	ug/L	0.0036	9118589	0.0030	0.0033	0.0025	0.0027	0.0020	9115669
Total Metals by ICPMS									
Total Aluminum (Al)	ug/L	48.3	9116071	89.6	95.8	51.9	69.8	0.50	9116071
Total Antimony (Sb)	ug/L	0.100	9116071	0.115	0.406	0.237	0.213	0.020	9116071
Total Arsenic (As)	ug/L	0.373	9116071	0.447	1.07	0.633	0.523	0.020	9116071
Total Barium (Ba)	ug/L	53.5	9116071	46.8	36.9	43.4	55.1	0.020	9116071
Total Beryllium (Be)	ug/L	<0.010	9116071	0.015	0.017	0.015	0.018	0.010	9116071
Total Bismuth (Bi)	ug/L	<0.0050	9116071	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9116071
Total Boron (B)	ug/L	<10	9116071	<10	<10	<10	<10	10	9116071
Total Cadmium (Cd)	ug/L	<0.0050	9116071	0.0060	<0.0050	<0.0050	<0.0050	0.0050	9116071
Total Chromium (Cr)	ug/L	0.28	9116071	0.34	0.37	0.30	0.38	0.10	9116071
Total Cobalt (Co)	ug/L	0.0430	9116071	0.0715	0.0555	0.0527	0.113	0.0050	9116071
Total Copper (Cu)	ug/L	1.49	9116071	2.37	1.47	1.86	2.10	0.050	9116071
Total Iron (Fe)	ug/L	28.1	9116071	78.3	70.6	41.5	78.8	1.0	9116071
Total Lead (Pb)	ug/L	0.0080	9116071	0.0171	0.0168	0.0068	0.0304	0.0050	9116071
Total Lithium (Li)	ug/L	0.66	9116071	0.78	1.17	0.88	<0.50	0.50	9116071
Total Manganese (Mn)	ug/L	0.937	9116071	4.91	2.84	0.838	3.37	0.050	9116071
Total Molybdenum (Mo)	ug/L	0.271	9116071	0.662	1.28	0.612	0.491	0.050	9116071
Total Nickel (Ni)	ug/L	0.544	9116071	1.00	0.625	0.837	0.855	0.020	9116071
Total Phosphorus (P)	ug/L	2.7	9116071	3.9	<2.0	3.8	3.4	2.0	9116071
Total Selenium (Se)	ug/L	0.065	9116071	0.096	0.070	0.065	0.072	0.040	9116071
Total Silicon (Si)	ug/L	4730	9116071	5210	5450	4840	4230	50	9116071
Total Silver (Ag)	ug/L	<0.0050	9116071	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9116071
Total Strontium (Sr)	ug/L	266	9116071	112	278	222	173	0.050	9116071
Total Thallium (Tl)	ug/L	0.0026	9116071	0.0045	0.0028	0.0034	0.0026	0.0020	9116071
Total Tin (Sn)	ug/L	<0.20	9116071	<0.20	<0.20	<0.20	<0.20	0.20	9116071
Total Titanium (Ti)	ug/L	0.66	9116071	1.93	1.99	0.97	1.83	0.50	9116071
Total Uranium (U)	ug/L	5.76	9116071	2.88	24.8	8.74	2.73	0.0020	9116071
Total Vanadium (V)	ug/L	0.30	9116071	0.50	0.42	0.40	0.39	0.20	9116071
RDL = Reportable Detection Limit									

Maxxam Job #: B871313
Report Date: 2018/08/30

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		UD3812		UD3813	UD3814	UD3815	UD3816		
Sampling Date		2018/08/21 08:05		2018/08/21 06:35	2018/08/21 08:45	2018/08/20 09:30	2018/08/20 10:35		
COC Number		560077-01-01		560077-01-01	560077-01-01	560077-01-01	560077-01-01		
	UNITS	CC-3.5	QC Batch	CC-4.5	HC-2.5	HC-5.0	YT-24	RDL	QC Batch
Total Zinc (Zn)	ug/L	0.18	9116071	0.32	0.22	0.17	0.28	0.10	9116071
Total Zirconium (Zr)	ug/L	0.52	9116071	0.53	0.57	0.45	0.66	0.10	9116071
Total Calcium (Ca)	mg/L	35.0	9114282	20.2	23.2	24.8	27.6	0.050	9114282
Total Magnesium (Mg)	mg/L	10.6	9114282	6.93	8.33	7.61	7.74	0.050	9114282
Total Potassium (K)	mg/L	2.12	9114282	1.25	1.83	1.96	1.69	0.050	9114282
Total Sodium (Na)	mg/L	3.55	9114282	3.32	2.60	2.92	2.96	0.050	9114282
Total Sulphur (S)	mg/L	21.0	9114282	11.7	9.4	10.1	15.4	3.0	9114282
RDL = Reportable Detection Limit									

Maxxam Job #: B871313
Report Date: 2018/08/30

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		UD3895	UD3896	UD3897			UD3897		
Sampling Date		2018/08/21 09:55	2018/08/21 08:55	2018/08/20 13:00			2018/08/20 13:00		
COC Number		560077-02-01	560077-02-01	560077-02-01			560077-02-01		
	UNITS	LATTE MIX	DUP	FIELD BLANK	RDL	QC Batch	FIELD BLANK Lab-Dup	RDL	QC Batch
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	76.2	93.0	<0.50	0.50	9114271			
Elements									
Total Mercury (Hg)	ug/L	0.0077	0.0067	<0.0020	0.0020	9118589	<0.0020	0.0020	9118589
Total Metals by ICPMS									
Total Aluminum (Al)	ug/L	96.2	94.4	<0.50	0.50	9116071			
Total Antimony (Sb)	ug/L	0.113	0.410	<0.020	0.020	9116071			
Total Arsenic (As)	ug/L	0.470	1.07	<0.020	0.020	9116071			
Total Barium (Ba)	ug/L	42.0	37.3	<0.020	0.020	9116071			
Total Beryllium (Be)	ug/L	<0.010	0.015	<0.010	0.010	9116071			
Total Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	0.0050	9116071			
Total Boron (B)	ug/L	<10	<10	<10	10	9116071			
Total Cadmium (Cd)	ug/L	0.0079	<0.0050	<0.0050	0.0050	9116071			
Total Chromium (Cr)	ug/L	0.39	0.38	<0.10	0.10	9116071			
Total Cobalt (Co)	ug/L	0.0717	0.0602	<0.0050	0.0050	9116071			
Total Copper (Cu)	ug/L	2.47	1.46	<0.050	0.050	9116071			
Total Iron (Fe)	ug/L	87.6	68.6	<1.0	1.0	9116071			
Total Lead (Pb)	ug/L	0.0118	0.0151	<0.0050	0.0050	9116071			
Total Lithium (Li)	ug/L	0.96	1.19	<0.50	0.50	9116071			
Total Manganese (Mn)	ug/L	4.34	2.73	<0.050	0.050	9116071			
Total Molybdenum (Mo)	ug/L	0.705	1.28	<0.050	0.050	9116071			
Total Nickel (Ni)	ug/L	1.08	0.670	<0.020	0.020	9116071			
Total Phosphorus (P)	ug/L	3.2	3.1	<2.0	2.0	9116071			
Total Selenium (Se)	ug/L	0.096	0.057	<0.040	0.040	9116071			
Total Silicon (Si)	ug/L	5210	5470	<50	50	9116071			
Total Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	0.0050	9116071			
Total Strontium (Sr)	ug/L	108	278	<0.050	0.050	9116071			
Total Thallium (Tl)	ug/L	0.0045	0.0029	<0.0020	0.0020	9116071			
Total Tin (Sn)	ug/L	<0.20	<0.20	<0.20	0.20	9116071			
Total Titanium (Ti)	ug/L	1.47	1.94	<0.50	0.50	9116071			
Total Uranium (U)	ug/L	3.81	24.3	<0.0020	0.0020	9116071			
RDL = Reportable Detection Limit									
Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B871313
Report Date: 2018/08/30

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		UD3895	UD3896	UD3897			UD3897		
Sampling Date		2018/08/21 09:55	2018/08/21 08:55	2018/08/20 13:00			2018/08/20 13:00		
COC Number		560077-02-01	560077-02-01	560077-02-01			560077-02-01		
	UNITS	LATTE MIX	DUP	FIELD BLANK	RDL	QC Batch	FIELD BLANK Lab-Dup	RDL	QC Batch
Total Vanadium (V)	ug/L	0.53	0.41	<0.20	0.20	9116071			
Total Zinc (Zn)	ug/L	0.38	0.21	<0.10	0.10	9116071			
Total Zirconium (Zr)	ug/L	0.55	0.51	<0.10	0.10	9116071			
Total Calcium (Ca)	mg/L	19.4	23.6	<0.050	0.050	9114282			
Total Magnesium (Mg)	mg/L	6.74	8.28	<0.050	0.050	9114282			
Total Potassium (K)	mg/L	1.23	1.85	<0.050	0.050	9114282			
Total Sodium (Na)	mg/L	3.38	2.65	<0.050	0.050	9114282			
Total Sulphur (S)	mg/L	11.8	9.7	<3.0	3.0	9114282			
RDL = Reportable Detection Limit									
Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B871313
Report Date: 2018/08/30

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		UD3817			UD3817			UD3818		
Sampling Date		2018/08/20 10:20			2018/08/20 10:20			2018/08/20 08:35		
COC Number		560077-01-01			560077-01-01			560077-01-01		
	UNITS	YT-24 MIX	RDL	QC Batch	YT-24 MIX Lab-Dup	RDL	QC Batch	COFFEE MIX	RDL	QC Batch

Calculated Parameters

Total Hardness (CaCO3)	mg/L	91.5	0.50	9114271				90.5	0.50	9114271
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Elements

Total Mercury (Hg)	ug/L	<0.0020	0.0020	9115669				<0.0020	0.0020	9115669
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Total Metals by ICPMS

Total Aluminum (Al)	ug/L	776 (1)	3.0	9116416	568 (2)	3.0	9116416	671	3.0	9116416
Total Antimony (Sb)	ug/L	0.193	0.020	9116416	0.224	0.020	9116416	0.174	0.020	9116416
Total Arsenic (As)	ug/L	1.06 (1)	0.020	9116416	0.850 (2)	0.020	9116416	0.998	0.020	9116416
Total Barium (Ba)	ug/L	80.0	0.050	9116416	66.8	0.050	9116416	74.7	0.050	9116416
Total Beryllium (Be)	ug/L	0.040	0.010	9116416	0.028	0.010	9116416	0.034	0.010	9116416
Total Bismuth (Bi)	ug/L	0.010	0.010	9116416	<0.010	0.010	9116416	<0.010	0.010	9116416
Total Boron (B)	ug/L	<10	10	9116416	<10	10	9116416	<10	10	9116416
Total Cadmium (Cd)	ug/L	0.153 (1)	0.0050	9116416	0.124 (2)	0.0050	9116416	0.154	0.0050	9116416
Total Chromium (Cr)	ug/L	1.25 (1)	0.10	9116416	0.91 (2)	0.10	9116416	1.02	0.10	9116416
Total Cobalt (Co)	ug/L	0.582 (1)	0.010	9116416	0.402 (2)	0.010	9116416	0.583	0.010	9116416
Total Copper (Cu)	ug/L	2.65	0.10	9116416	2.24	0.10	9116416	2.61	0.10	9116416
Total Iron (Fe)	ug/L	941 (1)	5.0	9116416	667 (2)	5.0	9116416	830	5.0	9116416
Total Lead (Pb)	ug/L	0.572 (1)	0.020	9116416	0.402 (2)	0.020	9116416	0.537	0.020	9116416
Total Lithium (Li)	ug/L	2.17	0.50	9116416	1.89	0.50	9116416	2.05	0.50	9116416
Total Manganese (Mn)	ug/L	44.5 (3)	0.10	9116416	29.9 (2)	0.10	9116416	45.0	0.10	9116416
Total Molybdenum (Mo)	ug/L	1.26	0.050	9116416	1.20	0.050	9116416	1.24	0.050	9116416
Total Nickel (Ni)	ug/L	3.79 (1)	0.10	9116416	2.91 (2)	0.10	9116416	3.61	0.10	9116416
Total Phosphorus (P)	ug/L	44.7 (1)	5.0	9116416	32.0 (2)	5.0	9116416	49.3	5.0	9116416
Total Selenium (Se)	ug/L	0.423	0.040	9116416	0.395	0.040	9116416	0.394	0.040	9116416
Total Silicon (Si)	ug/L	4090	50	9116416	3860	50	9116416	3820	50	9116416

RDL = Reportable Detection Limit
 Lab-Dup = Laboratory Initiated Duplicate
 (1) Duplicate RPD above control limit. Non-homogenous sample; increased variability of results. Re-analysis yields similar results.
 (2) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.
 (3) Matrix Spike for (Mn) outside acceptance criteria (10% of analytes failure allowed).
 Duplicate RPD above control limit. Non-homogenous sample; increased variability of results. Re-analysis yields similar results.

Maxxam Job #: B871313
Report Date: 2018/08/30

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		UD3817			UD3817			UD3818		
Sampling Date		2018/08/20 10:20			2018/08/20 10:20			2018/08/20 08:35		
COC Number		560077-01-01			560077-01-01			560077-01-01		
	UNITS	YT-24 MIX	RDL	QC Batch	YT-24 MIX Lab-Dup	RDL	QC Batch	COFFEE MIX	RDL	QC Batch
Total Silver (Ag)	ug/L	0.017	0.010	9116416	0.011	0.010	9116416	0.016	0.010	9116416
Total Strontium (Sr)	ug/L	126	0.050	9116416	125	0.050	9116416	127	0.050	9116416
Total Thallium (Tl)	ug/L	0.0113	0.0020	9116416	0.0103	0.0020	9116416	0.0112	0.0020	9116416
Total Tin (Sn)	ug/L	<0.20	0.20	9116416	<0.20	0.20	9116416	<0.20	0.20	9116416
Total Titanium (Ti)	ug/L	28.7 (1)	2.0	9116416	16.1 (2)	2.0	9116416	23.6	2.0	9116416
Total Uranium (U)	ug/L	1.18	0.0050	9116416	1.15	0.0050	9116416	1.11	0.0050	9116416
Total Vanadium (V)	ug/L	2.89	0.20	9116416	2.39	0.20	9116416	2.37	0.20	9116416
Total Zinc (Zn)	ug/L	18.9 (1)	1.0	9116416	14.5 (2)	1.0	9116416	16.6	1.0	9116416
Total Zirconium (Zr)	ug/L	0.88 (1)	0.10	9116416	0.37 (2)	0.10	9116416	0.31	0.10	9116416
Total Calcium (Ca)	mg/L	24.7	0.25	9114282				24.3	0.25	9114282
Total Magnesium (Mg)	mg/L	7.24	0.25	9114282				7.22	0.25	9114282
Total Potassium (K)	mg/L	0.97	0.25	9114282				0.91	0.25	9114282
Total Sodium (Na)	mg/L	2.09	0.25	9114282				2.03	0.25	9114282
Total Sulphur (S)	mg/L	8.8	3.0	9114282				8.5	3.0	9114282

RDL = Reportable Detection Limit

Lab-Dup = Laboratory Initiated Duplicate

(1) Duplicate RPD above control limit. Non-homogenous sample; increased variability of results. Re-analysis yields similar results.

(2) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

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LORAX ENVIRONMENTAL SERVICES LTD.
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Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		UD3819		
Sampling Date		2018/08/20 09:15		
COC Number		560077-01-01		
	UNITS	HALFWAY MIX	RDL	QC Batch
Calculated Parameters				
Total Hardness (CaCO3)	mg/L	94.7	0.50	9114271
Elements				
Total Mercury (Hg)	ug/L	<0.0020	0.0020	9115669
Total Metals by ICPMS				
Total Aluminum (Al)	ug/L	500	3.0	9116416
Total Antimony (Sb)	ug/L	0.203	0.020	9116416
Total Arsenic (As)	ug/L	0.916	0.020	9116416
Total Barium (Ba)	ug/L	66.3	0.050	9116416
Total Beryllium (Be)	ug/L	0.027	0.010	9116416
Total Bismuth (Bi)	ug/L	<0.010	0.010	9116416
Total Boron (B)	ug/L	<10	10	9116416
Total Cadmium (Cd)	ug/L	0.111	0.0050	9116416
Total Chromium (Cr)	ug/L	0.90	0.10	9116416
Total Cobalt (Co)	ug/L	0.409	0.010	9116416
Total Copper (Cu)	ug/L	2.53	0.10	9116416
Total Iron (Fe)	ug/L	608	5.0	9116416
Total Lead (Pb)	ug/L	0.404	0.020	9116416
Total Lithium (Li)	ug/L	1.79	0.50	9116416
Total Manganese (Mn)	ug/L	31.8	0.10	9116416
Total Molybdenum (Mo)	ug/L	1.09	0.050	9116416
Total Nickel (Ni)	ug/L	2.85	0.10	9116416
Total Phosphorus (P)	ug/L	29.0	5.0	9116416
Total Selenium (Se)	ug/L	0.343	0.040	9116416
Total Silicon (Si)	ug/L	4020	50	9116416
Total Silver (Ag)	ug/L	0.013	0.010	9116416
Total Strontium (Sr)	ug/L	155	0.050	9116416
Total Thallium (Tl)	ug/L	0.0105	0.0020	9116416
Total Tin (Sn)	ug/L	<0.20	0.20	9116416
Total Titanium (Ti)	ug/L	16.1	2.0	9116416
Total Uranium (U)	ug/L	3.06	0.0050	9116416
Total Vanadium (V)	ug/L	1.83	0.20	9116416
RDL = Reportable Detection Limit				

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LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		UD3819		
Sampling Date		2018/08/20 09:15		
COC Number		560077-01-01		
	UNITS	HALFWAY MIX	RDL	QC Batch
Total Zinc (Zn)	ug/L	12.3	1.0	9116416
Total Zirconium (Zr)	ug/L	0.33	0.10	9116416
Total Calcium (Ca)	mg/L	25.5	0.25	9114282
Total Magnesium (Mg)	mg/L	7.52	0.25	9114282
Total Potassium (K)	mg/L	1.23	0.25	9114282
Total Sodium (Na)	mg/L	2.35	0.25	9114282
Total Sulphur (S)	mg/L	9.3	3.0	9114282
RDL = Reportable Detection Limit				

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LORAX ENVIRONMENTAL SERVICES LTD.
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GENERAL COMMENTS

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9114257	Total Suspended Solids	2018/08/24			99	80 - 120	<1.0	mg/L		
9114531	Dissolved Aluminum (Al)	2018/08/23	96	80 - 120	104	80 - 120	<0.50	ug/L	NC	20
9114531	Dissolved Antimony (Sb)	2018/08/23	94	80 - 120	103	80 - 120	<0.020	ug/L	NC	20
9114531	Dissolved Arsenic (As)	2018/08/23	98	80 - 120	103	80 - 120	<0.020	ug/L	NC	20
9114531	Dissolved Barium (Ba)	2018/08/23	97	80 - 120	103	80 - 120	<0.020	ug/L	NC	20
9114531	Dissolved Beryllium (Be)	2018/08/23	95	80 - 120	97	80 - 120	<0.010	ug/L	NC	20
9114531	Dissolved Bismuth (Bi)	2018/08/23	94	80 - 120	104	80 - 120	<0.0050	ug/L	NC	20
9114531	Dissolved Boron (B)	2018/08/23	93	80 - 120	97	80 - 120	<10	ug/L	NC	20
9114531	Dissolved Cadmium (Cd)	2018/08/23	96	80 - 120	100	80 - 120	<0.0050	ug/L	NC	20
9114531	Dissolved Chromium (Cr)	2018/08/23	94	80 - 120	101	80 - 120	<0.10	ug/L	NC	20
9114531	Dissolved Cobalt (Co)	2018/08/23	92	80 - 120	99	80 - 120	<0.0050	ug/L	NC	20
9114531	Dissolved Copper (Cu)	2018/08/23	91	80 - 120	100	80 - 120	<0.050	ug/L	NC	20
9114531	Dissolved Iron (Fe)	2018/08/23	92	80 - 120	101	80 - 120	<1.0	ug/L	NC	20
9114531	Dissolved Lead (Pb)	2018/08/23	94	80 - 120	104	80 - 120	<0.0050	ug/L	NC	20
9114531	Dissolved Lithium (Li)	2018/08/23	100	80 - 120	96	80 - 120	<0.50	ug/L	NC	20
9114531	Dissolved Manganese (Mn)	2018/08/23	94	80 - 120	103	80 - 120	<0.050	ug/L	NC	20
9114531	Dissolved Molybdenum (Mo)	2018/08/23	100	80 - 120	103	80 - 120	<0.050	ug/L	NC	20
9114531	Dissolved Nickel (Ni)	2018/08/23	93	80 - 120	100	80 - 120	<0.020	ug/L	NC	20
9114531	Dissolved Phosphorus (P)	2018/08/23	100	80 - 120	103	80 - 120	<2.0	ug/L	8.2	20
9114531	Dissolved Selenium (Se)	2018/08/23	92	80 - 120	99	80 - 120	<0.040	ug/L	NC	20
9114531	Dissolved Silicon (Si)	2018/08/23	93	80 - 120	105	80 - 120	<50	ug/L	NC	20
9114531	Dissolved Silver (Ag)	2018/08/23	94	80 - 120	99	80 - 120	<0.0050	ug/L	NC	20
9114531	Dissolved Strontium (Sr)	2018/08/23	NC	80 - 120	103	80 - 120	<0.050	ug/L	NC	20
9114531	Dissolved Thallium (Tl)	2018/08/23	94	80 - 120	104	80 - 120	<0.0020	ug/L	NC	20
9114531	Dissolved Tin (Sn)	2018/08/23	94	80 - 120	100	80 - 120	<0.20	ug/L	NC	20
9114531	Dissolved Titanium (Ti)	2018/08/23	96	80 - 120	102	80 - 120	<0.50	ug/L	NC	20
9114531	Dissolved Uranium (U)	2018/08/23	100	80 - 120	105	80 - 120	<0.0020	ug/L	NC	20
9114531	Dissolved Vanadium (V)	2018/08/23	95	80 - 120	101	80 - 120	<0.20	ug/L	NC	20
9114531	Dissolved Zinc (Zn)	2018/08/23	91	80 - 120	102	80 - 120	<0.10	ug/L	NC	20
9114531	Dissolved Zirconium (Zr)	2018/08/23	101	80 - 120	99	80 - 120	<0.10	ug/L	NC	20
9114887	Total Dissolved Solids	2018/08/24	100	80 - 120	100	80 - 120	<10	mg/L	4.8	20

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QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9114977	Nitrate plus Nitrite (N)	2018/08/23	104	80 - 120	105	80 - 120	<0.0020	mg/L	NC	25
9114978	Nitrite (N)	2018/08/23	97	80 - 120	101	80 - 120	<0.0020	mg/L	NC	25
9115008	ORP	2018/08/24							0.69	20
9115669	Total Mercury (Hg)	2018/08/24	88	80 - 120	91	80 - 120	<0.0020	ug/L	NC	20
9115711	Fluoride (F)	2018/08/24	NC	80 - 120	106	80 - 120	<0.010	mg/L	3.1	20
9116071	Total Aluminum (Al)	2018/08/24	98	80 - 120	102	80 - 120	<0.50	ug/L	11	20
9116071	Total Antimony (Sb)	2018/08/24	102	80 - 120	101	80 - 120	<0.020	ug/L	0.079	20
9116071	Total Arsenic (As)	2018/08/24	103	80 - 120	105	80 - 120	<0.020	ug/L	3.3	20
9116071	Total Barium (Ba)	2018/08/24	98	80 - 120	99	80 - 120	<0.020	ug/L	0.79	20
9116071	Total Beryllium (Be)	2018/08/24	103	80 - 120	102	80 - 120	<0.010	ug/L	9.6	20
9116071	Total Bismuth (Bi)	2018/08/24	98	80 - 120	100	80 - 120	<0.0050	ug/L	NC	20
9116071	Total Boron (B)	2018/08/24	101	80 - 120	99	80 - 120	<10	ug/L	NC	20
9116071	Total Cadmium (Cd)	2018/08/24	101	80 - 120	99	80 - 120	<0.0050	ug/L	18	20
9116071	Total Chromium (Cr)	2018/08/24	99	80 - 120	101	80 - 120	<0.10	ug/L	4.7	20
9116071	Total Cobalt (Co)	2018/08/24	99	80 - 120	100	80 - 120	<0.0050	ug/L	0.44	20
9116071	Total Copper (Cu)	2018/08/24	97	80 - 120	98	80 - 120	<0.050	ug/L	1.4	20
9116071	Total Iron (Fe)	2018/08/24	96	80 - 120	101	80 - 120	<1.0	ug/L	0.68	20
9116071	Total Lead (Pb)	2018/08/24	99	80 - 120	99	80 - 120	<0.0050	ug/L	3.5	20
9116071	Total Lithium (Li)	2018/08/24	101	80 - 120	97	80 - 120	<0.50	ug/L	2.2	20
9116071	Total Manganese (Mn)	2018/08/24	99	80 - 120	101	80 - 120	<0.050	ug/L	1.6	20
9116071	Total Molybdenum (Mo)	2018/08/24	102	80 - 120	101	80 - 120	<0.050	ug/L	0.31	20
9116071	Total Nickel (Ni)	2018/08/24	97	80 - 120	99	80 - 120	<0.020	ug/L	4.5	20
9116071	Total Phosphorus (P)	2018/08/24	100	80 - 120	100	80 - 120	<2.0	ug/L	NC	20
9116071	Total Selenium (Se)	2018/08/24	101	80 - 120	98	80 - 120	<0.040	ug/L	1.8	20
9116071	Total Silicon (Si)	2018/08/24	NC	80 - 120	100	80 - 120	<50	ug/L	4.0	20
9116071	Total Silver (Ag)	2018/08/24	99	80 - 120	98	80 - 120	<0.0050	ug/L	NC	20
9116071	Total Strontium (Sr)	2018/08/24	NC	80 - 120	102	80 - 120	<0.050	ug/L	2.3	20
9116071	Total Thallium (Tl)	2018/08/24	98	80 - 120	99	80 - 120	<0.0020	ug/L	9.5	20
9116071	Total Tin (Sn)	2018/08/24	100	80 - 120	115	80 - 120	<0.20	ug/L	NC	20
9116071	Total Titanium (Ti)	2018/08/24	103	80 - 120	105	80 - 120	<0.50	ug/L	7.5	20
9116071	Total Uranium (U)	2018/08/24	103	80 - 120	103	80 - 120	<0.0020	ug/L	2.5	20

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QUALITY ASSURANCE REPORT(CONT'D)

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9116071	Total Vanadium (V)	2018/08/24	102	80 - 120	103	80 - 120	<0.20	ug/L	18	20
9116071	Total Zinc (Zn)	2018/08/24	101	80 - 120	103	80 - 120	<0.10	ug/L	12	20
9116071	Total Zirconium (Zr)	2018/08/24	101	80 - 120	104	80 - 120	<0.10	ug/L	2.4	20
9116196	Dissolved Organic Carbon (C)	2018/08/24	105	80 - 120	114	80 - 120	<0.50	mg/L	10	20
9116200	Total Organic Carbon (C)	2018/08/27	109	80 - 120	109	80 - 120	<0.50	mg/L	1.8	20
9116336	Total Dissolved Solids	2018/08/27	101	80 - 120	96	80 - 120	<10	mg/L	4.9	20
9116416	Total Aluminum (Al)	2018/08/27	NC	80 - 120	106	80 - 120	<3.0	ug/L	31 (1)	20
9116416	Total Antimony (Sb)	2018/08/27	107	80 - 120	105	80 - 120	<0.020	ug/L	15	20
9116416	Total Arsenic (As)	2018/08/27	108	80 - 120	108	80 - 120	<0.020	ug/L	22 (1)	20
9116416	Total Barium (Ba)	2018/08/27	NC	80 - 120	103	80 - 120	<0.050	ug/L	18	20
9116416	Total Beryllium (Be)	2018/08/27	103	80 - 120	103	80 - 120	<0.010	ug/L	NC	20
9116416	Total Bismuth (Bi)	2018/08/27	103	80 - 120	100	80 - 120	<0.010	ug/L	2.0	20
9116416	Total Boron (B)	2018/08/27	103	80 - 120	102	80 - 120	<10	ug/L	NC	20
9116416	Total Cadmium (Cd)	2018/08/27	105	80 - 120	102	80 - 120	<0.0050	ug/L	21 (1)	20
9116416	Total Chromium (Cr)	2018/08/27	105	80 - 120	105	80 - 120	<0.10	ug/L	32 (1)	20
9116416	Total Cobalt (Co)	2018/08/27	104	80 - 120	104	80 - 120	<0.010	ug/L	37 (1)	20
9116416	Total Copper (Cu)	2018/08/27	101	80 - 120	102	80 - 120	<0.10	ug/L	17	20
9116416	Total Iron (Fe)	2018/08/27	NC	80 - 120	105	80 - 120	<5.0	ug/L	34 (1)	20
9116416	Total Lead (Pb)	2018/08/27	105	80 - 120	101	80 - 120	<0.020	ug/L	35 (1)	20
9116416	Total Lithium (Li)	2018/08/27	99	80 - 120	99	80 - 120	<0.50	ug/L	14	20
9116416	Total Manganese (Mn)	2018/08/27	77 (1)	80 - 120	105	80 - 120	<0.10	ug/L	39 (1)	20
9116416	Total Molybdenum (Mo)	2018/08/27	108	80 - 120	102	80 - 120	<0.050	ug/L	4.9	20
9116416	Total Nickel (Ni)	2018/08/27	103	80 - 120	105	80 - 120	<0.10	ug/L	26 (1)	20
9116416	Total Phosphorus (P)	2018/08/27	101	80 - 120	99	80 - 120	<5.0	ug/L	33 (1)	20
9116416	Total Selenium (Se)	2018/08/27	105	80 - 120	104	80 - 120	<0.040	ug/L	6.8	20
9116416	Total Silicon (Si)	2018/08/27	99	80 - 120	98	80 - 120	<50	ug/L	5.8	20
9116416	Total Silver (Ag)	2018/08/27	104	80 - 120	101	80 - 120	<0.010	ug/L	NC	20
9116416	Total Strontium (Sr)	2018/08/27	NC	80 - 120	105	80 - 120	<0.050	ug/L	1.1	20
9116416	Total Thallium (Tl)	2018/08/27	103	80 - 120	98	80 - 120	<0.0020	ug/L	9.3	20
9116416	Total Tin (Sn)	2018/08/27	102	80 - 120	104	80 - 120	<0.20	ug/L	NC	20
9116416	Total Titanium (Ti)	2018/08/27	88	80 - 120	107	80 - 120	<2.0	ug/L	56 (1)	20

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LORAX ENVIRONMENTAL SERVICES LTD.
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QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9116416	Total Uranium (U)	2018/08/27	106	80 - 120	104	80 - 120	<0.0050	ug/L	2.5	20
9116416	Total Vanadium (V)	2018/08/27	108	80 - 120	107	80 - 120	<0.20	ug/L	19	20
9116416	Total Zinc (Zn)	2018/08/27	96	80 - 120	105	80 - 120	<1.0	ug/L	26 (1)	20
9116416	Total Zirconium (Zr)	2018/08/27	97	80 - 120	105	80 - 120	<0.10	ug/L	81 (1)	20
9116845	pH	2018/08/24			99	97 - 103				
9116854	Alkalinity (PP as CaCO3)	2018/08/24					<0.50	mg/L		
9116854	Alkalinity (Total as CaCO3)	2018/08/24			96	80 - 120	<0.50	mg/L		
9116854	Bicarbonate (HCO3)	2018/08/24					<0.50	mg/L		
9116854	Carbonate (CO3)	2018/08/24					<0.50	mg/L		
9116854	Hydroxide (OH)	2018/08/24					<0.50	mg/L		
9116856	Conductivity	2018/08/24			100	80 - 120	<1.0	uS/cm		
9116858	Alkalinity (PP as CaCO3)	2018/08/25					<0.50	mg/L	NC	20
9116858	Alkalinity (Total as CaCO3)	2018/08/25	NC	80 - 120	96	80 - 120	<0.50	mg/L	2.0	20
9116858	Bicarbonate (HCO3)	2018/08/25					<0.50	mg/L	2.0	20
9116858	Carbonate (CO3)	2018/08/25					<0.50	mg/L	NC	20
9116858	Hydroxide (OH)	2018/08/25					<0.50	mg/L	NC	20
9116863	pH	2018/08/25			99	97 - 103			0.26	20
9116866	Conductivity	2018/08/25			101	80 - 120	<1.0	uS/cm	0.92	20
9118427	Dissolved Mercury (Hg)	2018/08/27	84	80 - 120	97	80 - 120	<0.0020	ug/L	NC	20
9118486	Dissolved Mercury (Hg)	2018/08/27	111	80 - 120	92	80 - 120	<0.0020	ug/L	NC	20
9118589	Total Mercury (Hg)	2018/08/27	91	80 - 120	96	80 - 120	<0.0020	ug/L	NC	20
9118699	Total Dissolved Solids	2018/08/28	104	80 - 120	95	80 - 120	<10	mg/L	6.8	20
9118716	Total Dissolved Solids	2018/08/29	101	80 - 120	103	80 - 120	<10	mg/L		
9119537	Dissolved Chloride (Cl)	2018/08/27	96	80 - 120	102	80 - 120	<0.50	mg/L	9.0	20
9119538	Dissolved Sulphate (SO4)	2018/08/27	NC	80 - 120	100	80 - 120	0.55, RDL=0.50	mg/L	3.3	20
9120183	Total Ammonia (N)	2018/08/28	95	80 - 120	105	80 - 120	<0.0050	mg/L	NC	20
9122643	pH	2018/08/29			101	97 - 103			1.6	20
9122646	Alkalinity (PP as CaCO3)	2018/08/29					<0.50	mg/L		
9122646	Alkalinity (Total as CaCO3)	2018/08/29			93	80 - 120	<0.50	mg/L		
9122646	Bicarbonate (HCO3)	2018/08/29					<0.50	mg/L		
9122646	Carbonate (CO3)	2018/08/29					<0.50	mg/L		

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QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9122646	Hydroxide (OH)	2018/08/29					<0.50	mg/L		
9122647	Conductivity	2018/08/29			99	80 - 120	<1.0	uS/cm		
9123869	Free Cyanide	2018/08/29	111	80 - 120	104	80 - 120	<0.0010	mg/L	NC	20
9123888	Free Cyanide	2018/08/29	109	80 - 120	104	80 - 120	<0.0010	mg/L		
9124595	pH	2018/08/30			101	97 - 103			0.79	20
9124608	Alkalinity (PP as CaCO3)	2018/08/30					<0.50	mg/L		
9124608	Alkalinity (Total as CaCO3)	2018/08/30	NC	80 - 120	97	80 - 120	<0.50	mg/L		
9124608	Bicarbonate (HCO3)	2018/08/30					<0.50	mg/L		
9124608	Carbonate (CO3)	2018/08/30					<0.50	mg/L		
9124608	Hydroxide (OH)	2018/08/30					<0.50	mg/L		
9124609	Conductivity	2018/08/30			99	80 - 120	<1.0	uS/cm		

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

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

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

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

Maxxam Job #: B871313
Report Date: 2018/08/30

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Andy Lu, Ph.D., P.Chem., Scientific Specialist



Cristina Carriere, Scientific Services

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Maxxam Analytics International Corporation c/o Maxxam Analytics
 9331 - 48th Street, Edmonton, Alberta Canada T6B 2R4 Tel: (780) 577-7100 Toll-free 800-563-6266 Fax: (780) 450-4187 www.maxxam.ca

INVOICE TO:		Report Information		Project Information	
Company Name: #3804 LORAX ENVIRONMENTAL SERVICES LTD.	Company Name: David Flather	Quotation #: B40231	Project Name: Gold Corp Coffee Creek-SW		
Contact Name: Aida Plaseczny	Contact Name: David Flather	P.O. #:	Site #:		
Address: 2289 BURRARD STREET	Address:	Project #:	Sampled By:		
Address: VANCOUVER BC V6J 3H9	Address:	Project Name:	B871313_COC		
Phone: (604) 688-7173 Fax: (604) 688-7175	Phone: Fax:	Site #:	Diana Cruz		
Email: aida.plaseczny@lorax.ca; shuking.ng@lorax.ca	Email: David.Flather@lorax.ca	Sampled By:	Manager		



B871313_COC



CA560377-01-01

Regulatory Criteria	Special Instructions	Analysis Requested												Turnaround Time (TAT) Required	
<p>Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form</p> <p>Samples must be kept cool (< 10°C) from time of sampling until delivery to maxxam</p>		Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	Routine (Alk-L, EC-L, NH4-L, pH, TDS)	TSS-Low Level	Anions (LLCl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	Regular (Standard) TAT (will be applied if Rush TAT is not specified) Standard TAT = 5-7 Working days for most tests Please note: Standard TAT for certain tests such as BOD and Diatoms/Furans are > 5 days - contact your Project Manager for details.		
Date Required: _____ Time Required: _____ Rush Confirmation Number: _____ (not lab for #)															

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	Routine (Alk-L, EC-L, NH4-L, pH, TDS)	TSS-Low Level	Anions (LLCl, F, NO2, NO3, SO4)	Cyanide - WAD	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	# of Batches	Comments
SID#162743	CC-0.5	Aug 20 th , 2018	7:55	W	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	
SID#215758	CC-1.5	Aug 20 th , 2018	13:50	W	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	
SID#215756	CC-3.5	Aug 20 th , 2018	8:05	W	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	
SID#215757	CC-4.5	Aug 20 th , 2018	16:35	W	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	RECEIVED IN WHITEHORSE
SID#215758	HC-2.5	Aug 20 th , 2018	8:45	W	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	BY: [Signature] @ 1200
SID#215759	HC-5.0	Aug 20 th , 2018	9:30	W	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	2018-08-22
SID#215760	YT-24	Aug 20 th , 2018	10:35	W	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	TEMP: 4, 4, 4
SID#215761	YT-24 MIX	Aug 20 th , 2018	10:20	W	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	2, 5, 3
SID#215762	Coffee Mix	Aug 20 th , 2018	8:35	W	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	5, 4, 4
SID#215763	Halfway Mix	Aug 20 th , 2018	9:15	W	N	N	✓	✓	✓	✓	✓	✓	✓	✓	✓	13	

RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# Jars used and not submitted	Lab Use Only	
[Signature]	18-08-21	14:00	[Signature]	201810823	08:30		Time Sensitive <input type="checkbox"/>	Temperature (°C) on Receipt: 3, 4, 4
* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM-CATERING.COM.							Custody Seal Intact on Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.							Write: Maxxam Yellow: Client	

1, 2, 1
3, 2, 3

1942



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 9331 - 48th Street, Edmonton, Alberta Canada T6B 2R4 Tel: (780) 577-7100 Toll-free: 800-563-6266 Fax: (780) 450-4187 www.maxxam.ca

CT

Page 2 of 2

INVOICE TO:		Report Information		Project Information	
Company Name: #3604 LORAX ENVIRONMENTAL SERVICES LTD.	Company Name: Aida Piaseczny	Contact Name: David Flather	Quotation #: B40231	Project #: Gold Corp Coffee Creek-SW	
Contact Name: Aida Piaseczny	Contact Name: Aida Piaseczny	Contact Name: David Flather	P.O. #:	Project Name:	
Address: 2289 BURRARD STREET	Address: 2289 BURRARD STREET	Address: VANCOUVER BC V6J 3H9	Site #:	Sampled By:	
Phone: (604) 688-7173	Phone: (604) 688-7173	Phone: (604) 688-7175	Barcode: 8871313_COC		
Email: aida.piaseczny@lorax.ca; shukling.ng@lorax.ca	Email: aida.piaseczny@lorax.ca; shukling.ng@lorax.ca	Email: David.Flather@lorax.ca	Barcode: CA560077-02-01		



Order #: 7
 Manager

Regulatory Criteria		Special Instructions		Analysis Requested											Turnaround Time (TAT) Required	
Regulated Drinking Water? (Y/N)		Metals Field Filtered? (Y/N)		Please provide advance notice for rush projects											Regular (Standard) TAT	
Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form		Routine (Alk-L, EC-L, NH4-L, pH, TDS)		Regular (Standard) TAT (will be applied if Rush TAT is not specified)											Standard TAT = 5-7 Working days for most tests.	
Samples must be kept cool (< 10°C) from time of sampling until delivery to maxxam		TSS-Low Level		Please note: Standard TAT for certain tests such as BOD and Dioxin/Furans are > 5 days - contact your Project Manager for details.											Job Specific Rush TAT (if applies to entire submission)	
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	TOC	DOC	Low Level Dissolved Metals incl. CV Hg	Low Level Total Metals incl. CV Hg	ORP	# of Bottles	Date Required: _____ Time Required: _____		Rush Confirmation Number _____ (see lab for #)			
1	Latte Mix	Aug 21, 2018	9:55	W	✓	✓	✓	✓	✓	13	RECEIVED IN WHITEHORSE		BY: <i>[Signature]</i> 12:00			
2	Dup	Aug 21, 2018	8:55	W	✓	✓	✓	✓	✓	13	2018-08-22		TEMP. 4, 4, 4			
3	Field Blank	Aug 20, 2018	13:00	W	✓	✓	✓	✓	✓	13	2		5 3			
4											5		4 4			

RELINQUISHED BY: (Signature/Print) <i>Alex Charlow</i>	Date: (YY/MM/DD) 18-08-21	Time 14:00	RECEIVED BY: (Signature/Print) <i>Miguel Pedro Tack</i>	Date: (YY/MM/DD) 2018/08/23	Time 08:30	# Jars used and not submitted	Time Sensitive	Temperature (°C) on Receipt 3.44	Custody Seal Intact on Cooler?
								<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	White: Maxxam Yellow: Client

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

1,2,1
3,2,3

1942

Your Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

Attention: David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
2289 BURRARD STREET
VANCOUVER, BC
CANADA V6J 3H9

Your C.O.C. #: 562348-01-01, 562348-02-01, 562348-03-01, 562348-04-01

Report Date: 2018/08/31
Report #: R2612669
Version: 2 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B871373

Received: 2018/08/22, 09:00

Sample Matrix: Water
Samples Received: 32

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Alkalinity - Low Level	19	N/A	2018/08/25	BBY6SOP-00026	SM 22 2320 B m
Alkalinity - Low Level	5	N/A	2018/08/27	BBY6SOP-00026	SM 22 2320 B m
Alkalinity - Low Level	1	N/A	2018/08/29	BBY6SOP-00026	SM 22 2320 B m
Alkalinity - Low Level	7	N/A	2018/08/30	BBY6SOP-00026	SM 22 2320 B m
Chloride - Low Level	32	N/A	2018/08/27	BBY6SOP-00011	SM 22 4500-Cl- E m
Carbon (DOC) - field filtered/preserved (2)	1	N/A	2018/08/24	BBY6SOP-00003	SM 22 5310 C m
Carbon (DOC) - field filtered/preserved (2)	31	N/A	2018/08/27	BBY6SOP-00003	SM 22 5310 C m
Conductance - Low Level	19	N/A	2018/08/25	BBY6SOP-00026	SM 22 2510 B m
Conductance - Low Level	5	N/A	2018/08/27	BBY6SOP-00026	SM 22 2510 B m
Conductance - Low Level	1	N/A	2018/08/29	BBY6SOP-00026	SM 22 2510 B m
Conductance - Low Level	7	N/A	2018/08/30	BBY6SOP-00026	SM 22 2510 B m
Fluoride - Low Level	32	N/A	2018/08/24	BBY6SOP-00048	SM 22 4500-F C m
Hardness Total (calculated as CaCO3) (3)	15	N/A	2018/08/24	BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO3) (3)	17	N/A	2018/08/28	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3)	32	N/A	2018/08/28	BBY WI-00033	Auto Calc
Mercury (Dissolved) by CVAF	31	N/A	2018/08/27	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Dissolved) by CVAF	1	N/A	2018/08/31	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Total) by CVAF	31	2018/08/27	2018/08/27	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Total) by CVAF	1	2018/08/28	2018/08/28	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	32	N/A	2018/08/28	BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (dissolved)	32	N/A	2018/08/27	BBY7SOP-00002	EPA 6020b R2 m
Elements by ICPMS Digested LL (total)	17	2018/08/24	2018/08/27	BBY7SOP-00003,	EPA 6020b R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total)	15	N/A	2018/08/24	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (total)	17	N/A	2018/08/28	BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (total)	15	N/A	2018/08/24	BBY7SOP-00002	EPA 6020b R2 m
Ammonia-N Low Level (Preserved)	27	N/A	2018/08/28	BBY6SOP-00009	EPA 350.1 m
Ammonia-N Low Level (Preserved)	5	N/A	2018/08/30	BBY6SOP-00009	EPA 350.1 m

Your Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

Attention: David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
2289 BURRARD STREET
VANCOUVER, BC
CANADA V6J 3H9

Your C.O.C. #: 562348-01-01, 562348-02-01, 562348-03-01, 562348-04-01

Report Date: 2018/08/31
Report #: R2612669
Version: 2 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B871373

Received: 2018/08/22, 09:00

Sample Matrix: Water
Samples Received: 32

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Nitrate+Nitrite (N) (low level)	32	N/A	2018/08/23	BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrite (N) (low level)	32	N/A	2018/08/23	BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrogen - Nitrate (as N) Low Level Calc	32	N/A	2018/08/24	BBY WI-00033	Auto Calc
ORP Analysis on Water by ARD LAB	32	N/A	2018/08/24	BBY0SOP-00004	SM 22 2580 B
Filter and HNO3 Preserve for Metals	31	N/A	2018/08/24	BBY7 WI-00004	BCMOE Reqs 08/14
pH Water (4)	19	N/A	2018/08/25	BBY6SOP-00026	SM 22 4500-H+ B m
pH Water (4)	5	N/A	2018/08/27	BBY6SOP-00026	SM 22 4500-H+ B m
pH Water (4)	1	N/A	2018/08/29	BBY6SOP-00026	SM 22 4500-H+ B m
pH Water (4)	7	N/A	2018/08/30	BBY6SOP-00026	SM 22 4500-H+ B m
Sulphate - Low Level	32	N/A	2018/08/27	BBY6SOP-00017	SM 22 4500-SO42- E m
Total Dissolved Solids (Filt. Residue)	14	2018/08/23	2018/08/24	BBY6SOP-00033	SM 22 2540 C m
Total Dissolved Solids (Filt. Residue)	17	2018/08/24	2018/08/27	BBY6SOP-00033	SM 22 2540 C m
Total Dissolved Solids (Filt. Residue)	1	2018/08/28	2018/08/29	BBY6SOP-00033	SM 22 2540 C m
Carbon (Total Organic) (5)	30	N/A	2018/08/27	BBY6SOP-00003	SM 22 5310 C m
Carbon (Total Organic) (5)	2	N/A	2018/08/29	BBY6SOP-00003	SM 22 5310 C m
Total Suspended Solids-Low Level	10	2018/08/23	2018/08/24	BBY6SOP-00034	SM 22 2540 D
Total Suspended Solids-Low Level	20	2018/08/24	2018/08/27	BBY6SOP-00034	SM 22 2540 D
Total Suspended Solids-Low Level	2	2018/08/24	2018/08/28	BBY6SOP-00034	SM 22 2540 D
Free (WAD) Cyanide (1)	18	N/A	2018/08/28	CAM SOP-00457	OMOE E3015 5 m
Free (WAD) Cyanide (1)	14	N/A	2018/08/29	CAM SOP-00457	OMOE E3015 5 m

Remarks:

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Maxxam's profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Maxxam in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless

Your Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

Attention: David Flather

LORAX ENVIRONMENTAL SERVICES LTD.
2289 BURRARD STREET
VANCOUVER, BC
CANADA V6J 3H9

Your C.O.C. #: 562348-01-01, 562348-02-01, 562348-03-01, 562348-04-01

Report Date: 2018/08/31
Report #: R2612669
Version: 2 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B871373

Received: 2018/08/22, 09:00

indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

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

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Maxxam, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

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

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

- (1) This test was performed by Maxxam Ontario (From Burnaby)
- (2) DOC present in the sample should be considered as non-purgeable DOC.
- (3) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).
- (4) The BC-MOE and APHA Standard Method require pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the BC-MOE/APHA Standard Method holding time.
- (5) TOC present in the sample should be considered as non-purgeable TOC.



Maxxam
31 Aug 2018 17:06:50

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Diana Cruz, Project Manager

Email: DCruz@maxxam.ca

Phone# (604) 734 7276

=====

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Maxxam Job #: B871373
Report Date: 2018/08/31

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		UD4233			UD4233		UD4234		
Sampling Date		2018/08/18 14:25			2018/08/18 14:25		2018/08/19 09:30		
COC Number		562348-01-01			562348-01-01		562348-01-01		
	UNITS	CC-0.5	RDL	QC Batch	CC-0.5 Lab-Dup	QC Batch	CC-1.0	RDL	QC Batch
Parameter									
ORP	mV	238		9116555	246	9116555	230		9116555
Calculated Parameters									
Filter and HNO3 Preservation	N/A	LAB		9115436			LAB		9115436
Nitrate (N)	mg/L	0.285	0.0020	9114285			0.957	0.0020	9114285
Misc. Inorganics									
Fluoride (F)	mg/L	0.066	0.010	9115711			0.088	0.010	9115711
Free Cyanide	mg/L	<0.0010	0.0010	9123868			<0.0010	0.0010	9123868
Dissolved Organic Carbon (C)	mg/L	13.1	0.50	9116197			4.28	0.50	9116197
Alkalinity (Total as CaCO3)	mg/L	37.4	0.50	9122635			233	0.50	9116858
Total Organic Carbon (C)	mg/L	13.8	0.50	9116201			4.98	0.50	9116201
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	9122635			<0.50	0.50	9116858
Bicarbonate (HCO3)	mg/L	45.6	0.50	9122635			285	0.50	9116858
Carbonate (CO3)	mg/L	<0.50	0.50	9122635			<0.50	0.50	9116858
Hydroxide (OH)	mg/L	<0.50	0.50	9122635			<0.50	0.50	9116858
Anions									
Dissolved Sulphate (SO4)	mg/L	25.7	0.50	9119542			170	0.50	9119538
Dissolved Chloride (Cl)	mg/L	1.1	0.50	9119541			0.81	0.50	9119537
Nutrients									
Total Ammonia (N)	mg/L	0.058	0.0050	9120183			0.061	0.0050	9120183
Nitrate plus Nitrite (N)	mg/L	0.285	0.0020	9115002			0.957	0.0020	9114986
Nitrite (N)	mg/L	<0.0020	0.0020	9115003			<0.0020	0.0020	9114989
Physical Properties									
Conductivity	uS/cm	145	1.0	9122637			741	1.0	9116866
pH	pH	7.59		9122623			8.20		9116863
Physical Properties									
Total Suspended Solids	mg/L	<1.0	1.0	9115015			<1.0	1.0	9115015
Total Dissolved Solids	mg/L	110	10	9116336			482	10	9116336
RDL = Reportable Detection Limit									
Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B871373
Report Date: 2018/08/31

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		UD4234			UD4235		UD4236		
Sampling Date		2018/08/19 09:30			2018/08/19 09:50		2018/08/18 15:10		
COC Number		562348-01-01			562348-01-01		562348-01-01		
	UNITS	CC-1.0 Lab-Dup	RDL	QC Batch	CC-1.5	QC Batch	CC-3.5	RDL	QC Batch
Parameter									
ORP	mV				235	9116555	240		9116555
Calculated Parameters									
Filter and HNO3 Preservation	N/A				LAB	9115436	LAB		9115436
Nitrate (N)	mg/L				0.413	9114285	0.367	0.0020	9114285
Misc. Inorganics									
Fluoride (F)	mg/L				0.060	9115711	0.061	0.010	9115711
Free Cyanide	mg/L				<0.0010	9123868	<0.0010	0.0010	9123869
Dissolved Organic Carbon (C)	mg/L				8.55	9116197	10.7	0.50	9116197
Alkalinity (Total as CaCO3)	mg/L				78.8	9116858	68.5	0.50	9116858
Total Organic Carbon (C)	mg/L				8.98	9116201	13.7	0.50	9116201
Alkalinity (PP as CaCO3)	mg/L				<0.50	9116858	<0.50	0.50	9116858
Bicarbonate (HCO3)	mg/L				96.1	9116858	83.6	0.50	9116858
Carbonate (CO3)	mg/L				<0.50	9116858	<0.50	0.50	9116858
Hydroxide (OH)	mg/L				<0.50	9116858	<0.50	0.50	9116858
Anions									
Dissolved Sulphate (SO4)	mg/L				66.8	9119538	57.7	0.50	9119540
Dissolved Chloride (Cl)	mg/L				0.65	9119537	0.89	0.50	9119539
Nutrients									
Total Ammonia (N)	mg/L				0.011	9120183	0.012	0.0050	9120183
Nitrate plus Nitrite (N)	mg/L				0.413	9114986	0.367	0.0020	9114986
Nitrite (N)	mg/L				<0.0020	9114989	<0.0020	0.0020	9114989
Physical Properties									
Conductivity	uS/cm				300	9116866	266	1.0	9116866
pH	pH				7.75	9116863	7.67		9116863
Physical Properties									
Total Suspended Solids	mg/L				1.2	9115015	4.1	1.0	9115015
Total Dissolved Solids	mg/L	506	10	9116336	196	9114887	190	10	9114887
RDL = Reportable Detection Limit									
Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B871373
Report Date: 2018/08/31

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		UD4236			UD4237			UD4237		
Sampling Date		2018/08/18 15:10			2018/08/18 13:20			2018/08/18 13:20		
COC Number		562348-01-01			562348-01-01			562348-01-01		
	UNITS	CC-3.5 Lab-Dup	RDL	QC Batch	CC-4.5	RDL	QC Batch	CC-4.5 Lab-Dup	RDL	QC Batch
Parameter										
ORP	mV				254		9116555			
Calculated Parameters										
Filter and HNO3 Preservation	N/A				LAB		9115436			
Nitrate (N)	mg/L				0.268	0.0020	9114285			
Misc. Inorganics										
Fluoride (F)	mg/L				0.067	0.010	9115908			
Free Cyanide	mg/L	<0.0010	0.0010	9123869	<0.0010	0.0010	9123868			
Dissolved Organic Carbon (C)	mg/L				13.5	0.50	9116196	15.0	0.50	9116196
Alkalinity (Total as CaCO3)	mg/L				45.5	0.50	9124608			
Total Organic Carbon (C)	mg/L				13.9	0.50	9116200			
Alkalinity (PP as CaCO3)	mg/L				<0.50	0.50	9124608			
Bicarbonate (HCO3)	mg/L				55.5	0.50	9124608			
Carbonate (CO3)	mg/L				<0.50	0.50	9124608			
Hydroxide (OH)	mg/L				<0.50	0.50	9124608			
Anions										
Dissolved Sulphate (SO4)	mg/L				31.5	0.50	9119542			
Dissolved Chloride (Cl)	mg/L				1.2	0.50	9119541			
Nutrients										
Total Ammonia (N)	mg/L				0.0070	0.0050	9120183			
Nitrate plus Nitrite (N)	mg/L				0.268	0.0020	9115002			
Nitrite (N)	mg/L				<0.0020	0.0020	9115003			
Physical Properties										
Conductivity	uS/cm				165	1.0	9124609			
pH	pH				7.65		9124595			
Physical Properties										
Total Suspended Solids	mg/L				<1.0	1.0	9115015			
Total Dissolved Solids	mg/L				128	10	9116336			
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B871373
Report Date: 2018/08/31

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		UD4238			UD4238			UD4239		
Sampling Date		2018/08/18 16:30			2018/08/18 16:30			2018/08/18 15:50		
COC Number		562348-01-01			562348-01-01			562348-01-01		
	UNITS	CC-A	RDL	QC Batch	CC-A Lab-Dup	RDL	QC Batch	CC-B	RDL	QC Batch
Parameter										
ORP	mV	244		9116555				236		9116555
Calculated Parameters										
Filter and HNO3 Preservation	N/A	LAB		9115436				LAB		9115436
Nitrate (N)	mg/L	0.243	0.0020	9114285				0.350	0.0020	9114285
Misc. Inorganics										
Fluoride (F)	mg/L	0.045	0.010	9115908				0.064	0.010	9115908
Free Cyanide	mg/L	<0.0010	0.0010	9123869				<0.0010	0.0010	9123869
Dissolved Organic Carbon (C)	mg/L	9.68	0.50	9116198				8.36	0.50	9116198
Alkalinity (Total as CaCO3)	mg/L	26.1	0.50	9124615				84.3	0.50	9116858
Total Organic Carbon (C)	mg/L	10.9	0.50	9116202				9.29	0.50	9122515
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	9124615				<0.50	0.50	9116858
Bicarbonate (HCO3)	mg/L	31.9	0.50	9124615				103	0.50	9116858
Carbonate (CO3)	mg/L	<0.50	0.50	9124615				<0.50	0.50	9116858
Hydroxide (OH)	mg/L	<0.50	0.50	9124615				<0.50	0.50	9116858
Anions										
Dissolved Sulphate (SO4)	mg/L	24.7	0.50	9119540	24.5	0.50	9119540	71.9	0.50	9119540
Dissolved Chloride (Cl)	mg/L	0.75	0.50	9119539	0.87	0.50	9119539	0.74	0.50	9119539
Nutrients										
Total Ammonia (N)	mg/L	<0.0050	0.0050	9120183				<0.0050	0.0050	9120183
Nitrate plus Nitrite (N)	mg/L	0.243	0.0020	9115002	0.242	0.0020	9115002	0.350	0.0020	9114986
Nitrite (N)	mg/L	<0.0020	0.0020	9115003	<0.0020	0.0020	9115003	<0.0020	0.0020	9114989
Physical Properties										
Conductivity	uS/cm	114	1.0	9124616				322	1.0	9116866
pH	pH	7.41		9124613				7.82		9116863
Physical Properties										
Total Suspended Solids	mg/L	1.0	1.0	9115015				<1.0	1.0	9115015
Total Dissolved Solids	mg/L	86	10	9116336				206	10	9114887
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B871373
Report Date: 2018/08/31

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		UD4239			UD4240			UD4241		
Sampling Date		2018/08/18 15:50			2018/08/18 13:05			2018/08/20 08:45		
COC Number		562348-01-01			562348-01-01			562348-01-01		
	UNITS	CC-B Lab-Dup	RDL	QC Batch	CC-X	RDL	QC Batch	Coffee Mix	RDL	QC Batch
Parameter										
ORP	mV				260		9116555	258		9116555
Calculated Parameters										
Filter and HNO3 Preservation	N/A				LAB		9115436	LAB		9115436
Nitrate (N)	mg/L				0.268	0.0020	9114285	0.0179	0.0020	9114285
Misc. Inorganics										
Fluoride (F)	mg/L	0.064	0.010	9115908	0.066	0.010	9115908	0.110	0.010	9115908
Free Cyanide	mg/L				<0.0010	0.0010	9123868	<0.0010	0.0010	9123868
Dissolved Organic Carbon (C)	mg/L				12.7	0.50	9116197	2.73	0.50	9116197
Alkalinity (Total as CaCO3)	mg/L				40.5	0.50	9119364	65.4	0.50	9116858
Total Organic Carbon (C)	mg/L				13.3	0.50	9116201	3.91	0.50	9116201
Alkalinity (PP as CaCO3)	mg/L				<0.50	0.50	9119364	<0.50	0.50	9116858
Bicarbonate (HCO3)	mg/L				49.4	0.50	9119364	79.7	0.50	9116858
Carbonate (CO3)	mg/L				<0.50	0.50	9119364	<0.50	0.50	9116858
Hydroxide (OH)	mg/L				<0.50	0.50	9119364	<0.50	0.50	9116858
Anions										
Dissolved Sulphate (SO4)	mg/L				30.4	0.50	9119540	26.6	0.50	9119540
Dissolved Chloride (Cl)	mg/L				0.82	0.50	9119539	1.1	0.50	9119539
Nutrients										
Total Ammonia (N)	mg/L	<0.0050	0.0050	9120183	0.0090	0.0050	9120271	0.026	0.0050	9120271
Nitrate plus Nitrite (N)	mg/L				0.268	0.0020	9115002	0.0209	0.0020	9114986
Nitrite (N)	mg/L				<0.0020	0.0020	9115003	0.0030	0.0020	9114989
Physical Properties										
Conductivity	uS/cm				164	1.0	9119365	188	1.0	9116866
pH	pH				7.40		9119357	7.70		9116863
Physical Properties										
Total Suspended Solids	mg/L				<1.1 (1)	1.1	9115015	33.1	1.0	9115015
Total Dissolved Solids	mg/L				118	10	9116336	114	10	9114887
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate (1) RDL raised due to limited initial sample amount.										

Maxxam Job #: B871373
Report Date: 2018/08/31

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		UD4241			UD4245		UD4246		
Sampling Date		2018/08/20 08:45			2018/08/18 14:00		2018/08/19 11:40		
COC Number		562348-01-01			562348-02-01		562348-02-01		
	UNITS	Coffee Mix Lab-Dup	RDL	QC Batch	LATTE MIX	QC Batch	HC-2.5	RDL	QC Batch
Parameter									
ORP	mV				272	9116555	239		9116555
Calculated Parameters									
Filter and HNO3 Preservation	N/A				LAB	9115436	LAB		9115436
Nitrate (N)	mg/L				0.297	9114285	0.493	0.0020	9114285
Misc. Inorganics									
Fluoride (F)	mg/L				0.064	9115908	0.057	0.010	9115908
Free Cyanide	mg/L				<0.0010	9123869	<0.0010	0.0010	9123869
Dissolved Organic Carbon (C)	mg/L				12.7	9116197	9.42	0.50	9116197
Alkalinity (Total as CaCO3)	mg/L				40.9	9116858	62.5	0.50	9116858
Total Organic Carbon (C)	mg/L				12.7	9116201	10.6	0.50	9116201
Alkalinity (PP as CaCO3)	mg/L				<0.50	9116858	<0.50	0.50	9116858
Bicarbonate (HCO3)	mg/L				49.9	9116858	76.3	0.50	9116858
Carbonate (CO3)	mg/L				<0.50	9116858	<0.50	0.50	9116858
Hydroxide (OH)	mg/L				<0.50	9116858	<0.50	0.50	9116858
Anions									
Dissolved Sulphate (SO4)	mg/L				28.3	9119540	28.1	0.50	9119540
Dissolved Chloride (Cl)	mg/L				1.0	9119539	0.79	0.50	9119539
Nutrients									
Total Ammonia (N)	mg/L				<0.0050	9120271	0.0060	0.0050	9120271
Nitrate plus Nitrite (N)	mg/L	0.0204	0.0020	9114986	0.297	9114986	0.493	0.0020	9115002
Nitrite (N)	mg/L	0.0028	0.0020	9114989	<0.0020	9114989	<0.0020	0.0020	9115003
Physical Properties									
Conductivity	uS/cm				157	9116866	188	1.0	9116866
pH	pH				7.41	9116863	7.67		9116863
Physical Properties									
Total Suspended Solids	mg/L				<1.0	9115015	<1.0	1.0	9116671
Total Dissolved Solids	mg/L				118	9114887	126	10	9116336
RDL = Reportable Detection Limit									
Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B871373
Report Date: 2018/08/31

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		UD4246		UD4247		UD4248		UD4249		
Sampling Date		2018/08/19 11:40		2018/08/19 13:40		2018/08/19 13:20		2018/08/19 13:00		
COC Number		562348-02-01		562348-02-01		562348-02-01		562348-02-01		
	UNITS	HC-2.5 Lab-Dup	QC Batch	HC-5.0	QC Batch	HC-A	QC Batch	HC-B	RDL	QC Batch
Parameter										
ORP	mV	236	9116555	238	9116555	241	9116555	247		9116555
Calculated Parameters										
Filter and HNO3 Preservation	N/A			LAB	9115436	LAB	9115436	LAB		9115436
Nitrate (N)	mg/L			0.415	9114285	0.425	9114285	0.462	0.0020	9114285
Misc. Inorganics										
Fluoride (F)	mg/L			0.068	9115908	0.059	9115908	0.058	0.010	9115908
Free Cyanide	mg/L			<0.0010	9123868	<0.0010	9123869	<0.0010	0.0010	9123868
Dissolved Organic Carbon (C)	mg/L			12.7	9116197	9.90	9116197	9.79	0.50	9116197
Alkalinity (Total as CaCO3)	mg/L			64.6	9116858	62.7	9119364	65.3	0.50	9124608
Total Organic Carbon (C)	mg/L			14.9	9116201	15.5	9116201	9.77	0.50	9116201
Alkalinity (PP as CaCO3)	mg/L			<0.50	9116858	<0.50	9119364	<0.50	0.50	9124608
Bicarbonate (HCO3)	mg/L			78.8	9116858	76.4	9119364	79.7	0.50	9124608
Carbonate (CO3)	mg/L			<0.50	9116858	<0.50	9119364	<0.50	0.50	9124608
Hydroxide (OH)	mg/L			<0.50	9116858	<0.50	9119364	<0.50	0.50	9124608
Anions										
Dissolved Sulphate (SO4)	mg/L			27.6	9119540	28.0	9119540	27.9	0.50	9119540
Dissolved Chloride (Cl)	mg/L			0.86	9119539	0.76	9119539	0.51	0.50	9119539
Nutrients										
Total Ammonia (N)	mg/L			0.057	9120271	<0.0050	9120271	<0.0050	0.0050	9120271
Nitrate plus Nitrite (N)	mg/L			0.415	9114986	0.425	9115002	0.462	0.0020	9115002
Nitrite (N)	mg/L			<0.0020	9114989	<0.0020	9115003	<0.0020	0.0020	9115003
Physical Properties										
Conductivity	uS/cm			199	9116866	199	9119365	200	1.0	9124609
pH	pH			7.67	9116863	7.67	9119357	7.81		9124595
Physical Properties										
Total Suspended Solids	mg/L			<1.0	9116671	<1.0	9116671	<1.0	1.0	9116671
Total Dissolved Solids	mg/L			140	9114887	128	9116336	138	10	9116336
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B871373
Report Date: 2018/08/31

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		UD4250			UD4250			UD4251		
Sampling Date		2018/08/19 12:20			2018/08/19 12:20			2018/08/20 09:30		
COC Number		562348-02-01			562348-02-01			562348-02-01		
	UNITS	HC-C	RDL	QC Batch	HC-C Lab-Dup	RDL	QC Batch	HALFWAY MIX	RDL	QC Batch
Parameter										
ORP	mV	249		9116555				251		9116555
Calculated Parameters										
Filter and HNO3 Preservation	N/A	LAB		9115436				LAB		9115436
Nitrate (N)	mg/L	0.502	0.0020	9114285				0.124	0.0020	9114285
Misc. Inorganics										
Fluoride (F)	mg/L	0.058	0.010	9115908				0.098	0.010	9115908
Free Cyanide	mg/L	<0.0010	0.0010	9123869				<0.0010	0.0010	9123868
Dissolved Organic Carbon (C)	mg/L	9.99	0.50	9116197				5.56	0.50	9116197
Alkalinity (Total as CaCO3)	mg/L	65.7	0.50	9116858				65.5	0.50	9116858
Total Organic Carbon (C)	mg/L	11.1	0.50	9116201	10.5	0.50	9116201	6.56	0.50	9116201
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	9116858				<0.50	0.50	9116858
Bicarbonate (HCO3)	mg/L	80.2	0.50	9116858				79.9	0.50	9116858
Carbonate (CO3)	mg/L	<0.50	0.50	9116858				<0.50	0.50	9116858
Hydroxide (OH)	mg/L	<0.50	0.50	9116858				<0.50	0.50	9116858
Anions										
Dissolved Sulphate (SO4)	mg/L	29.1	0.50	9119540				28.2	0.50	9119540
Dissolved Chloride (Cl)	mg/L	1.2	0.50	9119539				1.3	0.50	9119539
Nutrients										
Total Ammonia (N)	mg/L	<0.0050	0.0050	9120271				0.026	0.0050	9120271
Nitrate plus Nitrite (N)	mg/L	0.502	0.0020	9114986				0.128	0.0020	9114986
Nitrite (N)	mg/L	<0.0020	0.0020	9114989				0.0046	0.0020	9114989
Physical Properties										
Conductivity	uS/cm	204	1.0	9116866				195	1.0	9116866
pH	pH	7.68		9116863				7.69		9116863
Physical Properties										
Total Suspended Solids	mg/L	1.1	1.0	9116671				21.8	1.0	9116671
Total Dissolved Solids	mg/L	138	10	9114887				120	10	9116342
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B871373
Report Date: 2018/08/31

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		UD4252		UD4253		UD4254		
Sampling Date		2018/08/19 16:35		2018/08/19 16:10		2018/08/19 16:50		
COC Number		562348-02-01		562348-02-01		562348-02-01		
	UNITS	IC-0.5	QC Batch	IC-1.5	QC Batch	IC-2.5	RDL	QC Batch
Parameter								
ORP	mV	267	9116555	254	9116555	260		9116555
Calculated Parameters								
Filter and HNO3 Preservation	N/A	LAB	9115436	LAB	9115436	LAB		9115436
Nitrate (N)	mg/L	0.442	9114285	0.274	9114285	0.128	0.0020	9114285
Misc. Inorganics								
Fluoride (F)	mg/L	0.091	9115908	0.058	9115908	0.043	0.010	9115908
Free Cyanide	mg/L	<0.0010	9123869	<0.0010	9123868	<0.0010	0.0010	9123868
Dissolved Organic Carbon (C)	mg/L	14.9	9116197	11.4	9116197	14.6	0.50	9116198
Alkalinity (Total as CaCO3)	mg/L	31.9	9119364	42.9	9124615	11.3	0.50	9124615
Total Organic Carbon (C)	mg/L	16.0	9116201	11.8	9116202	15.4	0.50	9116202
Alkalinity (PP as CaCO3)	mg/L	<0.50	9119364	<0.50	9124615	<0.50	0.50	9124615
Bicarbonate (HCO3)	mg/L	38.9	9119364	52.3	9124615	13.8	0.50	9124615
Carbonate (CO3)	mg/L	<0.50	9119364	<0.50	9124615	<0.50	0.50	9124615
Hydroxide (OH)	mg/L	<0.50	9119364	<0.50	9124615	<0.50	0.50	9124615
Anions								
Dissolved Sulphate (SO4)	mg/L	42.4	9119540	13.1	9119542	<0.50	0.50	9119542
Dissolved Chloride (Cl)	mg/L	0.87	9119539	0.87	9119541	1.0	0.50	9119541
Nutrients								
Total Ammonia (N)	mg/L	0.013	9120271	0.0070	9120271	0.0060	0.0050	9120271
Nitrate plus Nitrite (N)	mg/L	0.442	9115002	0.274	9115002	0.128	0.0020	9115002
Nitrite (N)	mg/L	<0.0020	9115003	<0.0020	9115003	<0.0020	0.0020	9115003
Physical Properties								
Conductivity	uS/cm	174	9119365	117	9124616	34.5	1.0	9124616
pH	pH	7.29	9119357	7.70	9124613	7.07		9124613
Physical Properties								
Total Suspended Solids	mg/L	<1.0	9116671	1.1	9116671	1.9	1.0	9116671
Total Dissolved Solids	mg/L	126	9116336	90	9116336	46	10	9116336
RDL = Reportable Detection Limit								

Maxxam Job #: B871373
Report Date: 2018/08/31

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		UD4254			UD4257			UD4257		
Sampling Date		2018/08/19 16:50			2018/08/19 17:15			2018/08/19 17:15		
COC Number		562348-02-01			562348-03-01			562348-03-01		
	UNITS	IC-2.5 Lab-Dup	RDL	QC Batch	IC-3.0	RDL	QC Batch	IC-3.0 Lab-Dup	RDL	QC Batch
Parameter										
ORP	mV				257		9116555			
Calculated Parameters										
Filter and HNO3 Preservation	N/A				LAB		9115436			
Nitrate (N)	mg/L				0.657	0.0020	9114285			
Misc. Inorganics										
Fluoride (F)	mg/L				0.070	0.010	9115908			
Free Cyanide	mg/L				<0.0010	0.0010	9123869			
Dissolved Organic Carbon (C)	mg/L	15.7	0.50	9116198	13.4	0.50	9116197	13.6	0.50	9116197
Alkalinity (Total as CaCO3)	mg/L				58.3	0.50	9116858			
Total Organic Carbon (C)	mg/L	15.6	0.50	9116202	14.8	0.50	9116201			
Alkalinity (PP as CaCO3)	mg/L				<0.50	0.50	9116858			
Bicarbonate (HCO3)	mg/L				71.2	0.50	9116858			
Carbonate (CO3)	mg/L				<0.50	0.50	9116858			
Hydroxide (OH)	mg/L				<0.50	0.50	9116858			
Anions										
Dissolved Sulphate (SO4)	mg/L				29.7	0.50	9119538			
Dissolved Chloride (Cl)	mg/L				0.89	0.50	9119537			
Nutrients										
Total Ammonia (N)	mg/L				0.0050	0.0050	9120271			
Nitrate plus Nitrite (N)	mg/L				0.657	0.0020	9114986			
Nitrite (N)	mg/L				<0.0020	0.0020	9114989			
Physical Properties										
Conductivity	uS/cm				196	1.0	9116866			
pH	pH				7.61		9116863			
Physical Properties										
Total Suspended Solids	mg/L				2.2	1.0	9116671			
Total Dissolved Solids	mg/L				154	10	9114887			
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B871373
Report Date: 2018/08/31

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		UD4258			UD4258		UD4259		
Sampling Date		2018/08/19 17:35			2018/08/19 17:35		2018/08/19 15:20		
COC Number		562348-03-01			562348-03-01		562348-03-01		
	UNITS	IC-4.5	RDL	QC Batch	IC-4.5 Lab-Dup	QC Batch	ML-A	RDL	QC Batch
Parameter									
ORP	mV	258		9116555	259	9116555	264		9116555
Calculated Parameters									
Filter and HNO3 Preservation	N/A	LAB		9115436			LAB		9115436
Nitrate (N)	mg/L	0.353	0.0020	9114285			0.827	0.0020	9114285
Misc. Inorganics									
Fluoride (F)	mg/L	0.072	0.010	9115908			0.057	0.010	9115908
Free Cyanide	mg/L	<0.0010	0.0010	9123869			<0.0010	0.0010	9123869
Dissolved Organic Carbon (C)	mg/L	13.2	0.50	9116198			12.3	0.50	9116198
Alkalinity (Total as CaCO3)	mg/L	40.5	0.50	9116858			49.3	0.50	9116858
Total Organic Carbon (C)	mg/L	13.7	0.50	9116202			12.3	0.50	9116202
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	9116858			<0.50	0.50	9116858
Bicarbonate (HCO3)	mg/L	49.5	0.50	9116858			60.1	0.50	9116858
Carbonate (CO3)	mg/L	<0.50	0.50	9116858			<0.50	0.50	9116858
Hydroxide (OH)	mg/L	<0.50	0.50	9116858			<0.50	0.50	9116858
Anions									
Dissolved Sulphate (SO4)	mg/L	25.9	0.50	9119538			36.7	0.50	9119540
Dissolved Chloride (Cl)	mg/L	1.1	0.50	9119537			1.1	0.50	9119539
Nutrients									
Total Ammonia (N)	mg/L	0.0070	0.0050	9120271			0.034	0.0050	9120271
Nitrate plus Nitrite (N)	mg/L	0.353	0.0020	9114986			0.827	0.0020	9114986
Nitrite (N)	mg/L	<0.0020	0.0020	9114989			<0.0020	0.0020	9114989
Physical Properties									
Conductivity	uS/cm	144	1.0	9116866			198	1.0	9116866
pH	pH	7.41		9116863			7.48		9116863
Physical Properties									
Total Suspended Solids	mg/L	1.0	1.0	9116671			17.3	1.0	9116671
Total Dissolved Solids	mg/L	112	10	9114887			148	10	9114887
RDL = Reportable Detection Limit									
Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B871373
Report Date: 2018/08/31

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		UD4260			UD4260			UD4261		
Sampling Date		2018/08/19 15:35			2018/08/19 15:35			2018/08/19 14:40		
COC Number		562348-03-01			562348-03-01			562348-03-01		
	UNITS	ML-B	RDL	QC Batch	ML-B Lab-Dup	RDL	QC Batch	ML-1.0 (OR YT-24-1)	RDL	QC Batch
Parameter										
ORP	mV	260		9116555				260		9116555
Calculated Parameters										
Filter and HNO3 Preservation	N/A	LAB		9115436				LAB		9115436
Nitrate (N)	mg/L	0.992	0.0020	9114285				0.867	0.0020	9114285
Misc. Inorganics										
Fluoride (F)	mg/L	0.042	0.010	9115908				0.067	0.010	9115908
Free Cyanide	mg/L	<0.0010	0.0010	9123868	<0.0010	0.0010	9123868	<0.0010	0.0010	9123869
Dissolved Organic Carbon (C)	mg/L	12.6	0.50	9116198				12.3	0.50	9116198
Alkalinity (Total as CaCO3)	mg/L	30.9	0.50	9116858				52.6	0.50	9116858
Total Organic Carbon (C)	mg/L	13.5	0.50	9116202				11.5	0.50	9116202
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	9116858				<0.50	0.50	9116858
Bicarbonate (HCO3)	mg/L	37.6	0.50	9116858				64.1	0.50	9116858
Carbonate (CO3)	mg/L	<0.50	0.50	9116858				<0.50	0.50	9116858
Hydroxide (OH)	mg/L	<0.50	0.50	9116858				<0.50	0.50	9116858
Anions										
Dissolved Sulphate (SO4)	mg/L	22.2	0.50	9119540				42.0	0.50	9119538
Dissolved Chloride (Cl)	mg/L	0.96	0.50	9119539				1.2	0.50	9119537
Nutrients										
Total Ammonia (N)	mg/L	0.020	0.0050	9120271				<0.0050	0.0050	9120271
Nitrate plus Nitrite (N)	mg/L	0.992	0.0020	9114986				0.867	0.0020	9114986
Nitrite (N)	mg/L	<0.0020	0.0020	9114989				<0.0020	0.0020	9114989
Physical Properties										
Conductivity	uS/cm	127	1.0	9116866				215	1.0	9116866
pH	pH	7.28		9116863				7.59		9116863
Physical Properties										
Total Suspended Solids	mg/L	63.8	1.0	9116671				2.3	1.0	9116671
Total Dissolved Solids	mg/L	96	10	9116336				156	10	9114887
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B871373
Report Date: 2018/08/31

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		UD4261			UD4262			UD4263		
Sampling Date		2018/08/19 14:40			2018/08/20 10:50			2018/08/18 12:50		
COC Number		562348-03-01			562348-03-01			562348-03-01		
	UNITS	ML-1.0 (OR YT-24-1) Lab-Dup	RDL	QC Batch	YT-24 MIX	RDL	QC Batch	YUK-2.0	RDL	QC Batch
Parameter										
ORP	mV				258		9116555	258		9116555
Calculated Parameters										
Filter and HNO3 Preservation	N/A				LAB		9115436	LAB		9115436
Nitrate (N)	mg/L				0.0276	0.0020	9114285	0.0125	0.0020	9114285
Misc. Inorganics										
Fluoride (F)	mg/L				0.120	0.010	9115911	0.120	0.010	9115911
Free Cyanide	mg/L				<0.0010	0.0010	9123869	<0.0010	0.0010	9123868
Dissolved Organic Carbon (C)	mg/L				2.76	0.50	9116198	2.69	0.50	9116198
Alkalinity (Total as CaCO3)	mg/L	51.5	0.50	9116858	64.3	0.50	9116858	66.9	0.50	9116858
Total Organic Carbon (C)	mg/L				3.86	0.50	9116202	4.74	0.50	9116202
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	9116858	<0.50	0.50	9116858	<0.50	0.50	9116858
Bicarbonate (HCO3)	mg/L	62.8	0.50	9116858	78.4	0.50	9116858	81.6	0.50	9116858
Carbonate (CO3)	mg/L	<0.50	0.50	9116858	<0.50	0.50	9116858	<0.50	0.50	9116858
Hydroxide (OH)	mg/L	<0.50	0.50	9116858	<0.50	0.50	9116858	<0.50	0.50	9116858
Anions										
Dissolved Sulphate (SO4)	mg/L	43.5	0.50	9119538	26.3	0.50	9119538	28.1	0.50	9119538
Dissolved Chloride (Cl)	mg/L	1.3	0.50	9119537	0.87	0.50	9119537	0.52	0.50	9119537
Nutrients										
Total Ammonia (N)	mg/L				0.010	0.0050	9120271	0.0050	0.0050	9120271
Nitrate plus Nitrite (N)	mg/L				0.0335	0.0020	9114986	0.0165	0.0020	9114986
Nitrite (N)	mg/L				0.0059	0.0020	9114989	0.0040	0.0020	9114989
Physical Properties										
Conductivity	uS/cm	217	1.0	9116866	188	1.0	9116866	197	1.0	9116866
pH	pH	7.57		9116863	7.71		9116863	7.75		9116863
Physical Properties										
Total Suspended Solids	mg/L				26.8	1.0	9118527	38.6 (1)	1.1	9116671
Total Dissolved Solids	mg/L				118	10	9114887	114	10	9116336
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate (1) RDL raised due to limited initial sample amount.										

Maxxam Job #: B871373
Report Date: 2018/08/31

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		UD4263			UD4264			UD4264		
Sampling Date		2018/08/18 12:50			2018/08/21 10:20			2018/08/21 10:20		
COC Number		562348-03-01			562348-03-01			562348-03-01		
	UNITS	YUK-2.0 Lab-Dup	RDL	QC Batch	YUK-5.0	RDL	QC Batch	YUK-5.0 Lab-Dup	RDL	QC Batch
Parameter										
ORP	mV				263		9116555			
Calculated Parameters										
Filter and HNO3 Preservation	N/A				LAB		9115436			
Nitrate (N)	mg/L				0.0072	0.0020	9114285			
Misc. Inorganics										
Fluoride (F)	mg/L	0.120	0.010	9115911	0.120	0.010	9115911			
Free Cyanide	mg/L				<0.0010	0.0010	9123868			
Dissolved Organic Carbon (C)	mg/L				2.34	0.50	9116198			
Alkalinity (Total as CaCO3)	mg/L				64.3	0.50	9119364			
Total Organic Carbon (C)	mg/L				2.57	0.50	9122515			
Alkalinity (PP as CaCO3)	mg/L				<0.50	0.50	9119364			
Bicarbonate (HCO3)	mg/L				78.5	0.50	9119364			
Carbonate (CO3)	mg/L				<0.50	0.50	9119364			
Hydroxide (OH)	mg/L				<0.50	0.50	9119364			
Anions										
Dissolved Sulphate (SO4)	mg/L				27.2	0.50	9119540			
Dissolved Chloride (Cl)	mg/L				0.67	0.50	9119539			
Nutrients										
Total Ammonia (N)	mg/L				0.011	0.0050	9120271	0.017	0.0050	9120271
Nitrate plus Nitrite (N)	mg/L				0.0120	0.0020	9115002			
Nitrite (N)	mg/L				0.0048	0.0020	9115003			
Physical Properties										
Conductivity	uS/cm				187	1.0	9119365			
pH	pH				7.66		9119357			
Physical Properties										
Total Suspended Solids	mg/L				18.8	1.0	9118527			
Total Dissolved Solids	mg/L				116	10	9118716			
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B871373
Report Date: 2018/08/31

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		UD4278		UD4279		UD4280			UD4280	
Sampling Date										
COC Number		562348-03-01		562348-04-01		562348-04-01			562348-04-01	
	UNITS	SAMPLE A	QC Batch	SAMPLE B	QC Batch	SAMPLE C	RDL	QC Batch	SAMPLE C Lab-Dup	QC Batch
Parameter										
ORP	mV	247	9116555	258	9116555	260		9116555	253	9116555
Calculated Parameters										
Filter and HNO3 Preservation	N/A	LAB	9115436	LAB	9115436	LAB		9115436		
Nitrate (N)	mg/L	0.907	9114285	0.860	9114285	0.0603	0.0020	9114285		
Misc. Inorganics										
Fluoride (F)	mg/L	0.085	9115911	0.068	9115911	0.110	0.010	9115911		
Free Cyanide	mg/L	<0.0010	9123868	<0.0010	9123868	<0.0010	0.0010	9123868		
Dissolved Organic Carbon (C)	mg/L	4.26	9116198	12.7	9116197	3.70	0.50	9116197		
Alkalinity (Total as CaCO3)	mg/L	238	9124615	53.9	9119364	64.6	0.50	9116858		
Total Organic Carbon (C)	mg/L	5.18	9116202	13.5	9116200	5.24	0.50	9116200		
Alkalinity (PP as CaCO3)	mg/L	<0.50	9124615	<0.50	9119364	<0.50	0.50	9116858		
Bicarbonate (HCO3)	mg/L	290	9124615	65.7	9119364	78.8	0.50	9116858		
Carbonate (CO3)	mg/L	<0.50	9124615	<0.50	9119364	<0.50	0.50	9116858		
Hydroxide (OH)	mg/L	<0.50	9124615	<0.50	9119364	<0.50	0.50	9116858		
Anions										
Dissolved Sulphate (SO4)	mg/L	173	9119542	42.6	9119540	28.1	0.50	9119540		
Dissolved Chloride (Cl)	mg/L	0.96	9119541	1.3	9119539	0.82	0.50	9119539		
Nutrients										
Total Ammonia (N)	mg/L	0.017	9123865	0.011	9123865	<0.0050	0.0050	9123865		
Nitrate plus Nitrite (N)	mg/L	0.907	9115002	0.860	9115002	0.0631	0.0020	9114986		
Nitrite (N)	mg/L	<0.0020	9115003	<0.0020	9115003	0.0028	0.0020	9114989		
Physical Properties										
Conductivity	uS/cm	726	9124616	216	9119365	189	1.0	9116866		
pH	pH	8.27	9124613	7.56	9119357	7.72		9116863		
Physical Properties										
Total Suspended Solids	mg/L	<1.0	9116671	2.1	9116671	25.5	1.0	9116671		
Total Dissolved Solids	mg/L	498	9116336	148	9116336	116	10	9114887		
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B871373
Report Date: 2018/08/31

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		UD4281		UD4359		
Sampling Date		2018/08/18 21:00		2018/08/22 09:00		
COC Number		562348-04-01		562348-04-01		
	UNITS	FIELD BLANK	QC Batch	TRIP BLANK	RDL	QC Batch
Parameter						
ORP	mV	280	9116555	250		9116555
Calculated Parameters						
Filter and HNO3 Preservation	N/A	LAB	9115436			
Nitrate (N)	mg/L	0.0023	9114285	<0.0020	0.0020	9114285
Misc. Inorganics						
Fluoride (F)	mg/L	<0.010	9115911	<0.010	0.010	9115911
Free Cyanide	mg/L	<0.0010	9123868	<0.0010	0.0010	9123869
Dissolved Organic Carbon (C)	mg/L	<0.50	9116197	<0.50	0.50	9116197
Alkalinity (Total as CaCO3)	mg/L	<0.50	9124615	<0.50	0.50	9116858
Total Organic Carbon (C)	mg/L	<0.50	9116201	<0.50	0.50	9116201
Alkalinity (PP as CaCO3)	mg/L	<0.50	9124615	<0.50	0.50	9116858
Bicarbonate (HCO3)	mg/L	<0.50	9124615	<0.50	0.50	9116858
Carbonate (CO3)	mg/L	<0.50	9124615	<0.50	0.50	9116858
Hydroxide (OH)	mg/L	<0.50	9124615	<0.50	0.50	9116858
Anions						
Dissolved Sulphate (SO4)	mg/L	0.96	9119540	1.25	0.50	9119540
Dissolved Chloride (Cl)	mg/L	0.63	9119539	<0.50	0.50	9119539
Nutrients						
Total Ammonia (N)	mg/L	<0.0050	9123865	0.012	0.0050	9123865
Nitrate plus Nitrite (N)	mg/L	0.0023	9115002	<0.0020	0.0020	9114986
Nitrite (N)	mg/L	<0.0020	9115003	<0.0020	0.0020	9114989
Physical Properties						
Conductivity	uS/cm	1.1	9124616	1.2	1.0	9116866
pH	pH	5.22	9124613	5.37		9116863
Physical Properties						
Total Suspended Solids	mg/L	<1.1 (1)	9116671	<1.1 (1)	1.1	9116671
Total Dissolved Solids	mg/L	<10	9116336	<10	10	9114887
RDL = Reportable Detection Limit						
(1) RDL raised due to limited initial sample amount.						

Maxxam Job #: B871373
Report Date: 2018/08/31

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		UD4233	UD4234			UD4234		
Sampling Date		2018/08/18 14:25	2018/08/19 09:30			2018/08/19 09:30		
COC Number		562348-01-01	562348-01-01			562348-01-01		
	UNITS	CC-0.5	CC-1.0	RDL	QC Batch	CC-1.0 Lab-Dup	RDL	QC Batch
Calculated Parameters								
Dissolved Hardness (CaCO3)	mg/L	65.9	413	0.50	9114275			
Elements								
Dissolved Mercury (Hg)	ug/L	0.0039	<0.0020	0.0020	9118486			
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	ug/L	101	8.69	0.50	9116745	8.68	0.50	9116745
Dissolved Antimony (Sb)	ug/L	0.121	0.161	0.020	9116745	0.162	0.020	9116745
Dissolved Arsenic (As)	ug/L	0.507	0.909	0.020	9116745	0.892	0.020	9116745
Dissolved Barium (Ba)	ug/L	38.3	92.0	0.020	9116745	93.0	0.020	9116745
Dissolved Beryllium (Be)	ug/L	0.013	<0.010	0.010	9116745	<0.010	0.010	9116745
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	0.0050	9116745	<0.0050	0.0050	9116745
Dissolved Boron (B)	ug/L	<10	<10	10	9116745	<10	10	9116745
Dissolved Cadmium (Cd)	ug/L	0.0081	<0.0050	0.0050	9116745	<0.0050	0.0050	9116745
Dissolved Chromium (Cr)	ug/L	0.43	<0.10	0.10	9116745	0.13	0.10	9116745
Dissolved Cobalt (Co)	ug/L	0.0713	0.0270	0.0050	9116745	0.0277	0.0050	9116745
Dissolved Copper (Cu)	ug/L	2.80	0.828	0.050	9116745	0.809	0.050	9116745
Dissolved Iron (Fe)	ug/L	82.0	4.3	1.0	9116745	4.3	1.0	9116745
Dissolved Lead (Pb)	ug/L	0.0052	<0.0050	0.0050	9116745	<0.0050	0.0050	9116745
Dissolved Lithium (Li)	ug/L	0.88	4.66	0.50	9116745	4.75	0.50	9116745
Dissolved Manganese (Mn)	ug/L	3.00	0.875	0.050	9116745	0.863	0.050	9116745
Dissolved Molybdenum (Mo)	ug/L	0.710	0.301	0.050	9116745	0.307	0.050	9116745
Dissolved Nickel (Ni)	ug/L	1.23	0.464	0.020	9116745	0.492	0.020	9116745
Dissolved Phosphorus (P)	ug/L	6.5	4.7	2.0	9116745	3.5	2.0	9116745
Dissolved Selenium (Se)	ug/L	0.104	0.282	0.040	9116745	0.294	0.040	9116745
Dissolved Silicon (Si)	ug/L	5260	5200	50	9116745	5150	50	9116745
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	0.0050	9116745	<0.0050	0.0050	9116745
Dissolved Strontium (Sr)	ug/L	83.9	1100	0.050	9116745	1140	0.050	9116745
Dissolved Thallium (Tl)	ug/L	0.0040	0.0025	0.0020	9116745	0.0035	0.0020	9116745
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	0.20	9116745	<0.20	0.20	9116745
Dissolved Titanium (Ti)	ug/L	1.03	<0.50	0.50	9116745	<0.50	0.50	9116745
Dissolved Uranium (U)	ug/L	2.79	26.7	0.0020	9116745	26.9	0.0020	9116745
RDL = Reportable Detection Limit								
Lab-Dup = Laboratory Initiated Duplicate								

Maxxam Job #: B871373
Report Date: 2018/08/31

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		UD4233	UD4234			UD4234		
Sampling Date		2018/08/18 14:25	2018/08/19 09:30			2018/08/19 09:30		
COC Number		562348-01-01	562348-01-01			562348-01-01		
	UNITS	CC-0.5	CC-1.0	RDL	QC Batch	CC-1.0 Lab-Dup	RDL	QC Batch
Dissolved Vanadium (V)	ug/L	0.48	0.23	0.20	9116745	0.22	0.20	9116745
Dissolved Zinc (Zn)	ug/L	0.45	0.15	0.10	9116745	0.15	0.10	9116745
Dissolved Zirconium (Zr)	ug/L	0.69	<0.10	0.10	9116745	0.11	0.10	9116745
Dissolved Calcium (Ca)	mg/L	16.8	105	0.050	9114279			
Dissolved Magnesium (Mg)	mg/L	5.80	36.3	0.050	9114279			
Dissolved Potassium (K)	mg/L	1.07	5.31	0.050	9114279			
Dissolved Sodium (Na)	mg/L	3.15	4.62	0.050	9114279			
Dissolved Sulphur (S)	mg/L	8.9	52.6	3.0	9114279			
RDL = Reportable Detection Limit								
Lab-Dup = Laboratory Initiated Duplicate								

Maxxam Job #: B871373
Report Date: 2018/08/31

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		UD4235	UD4236	UD4237	UD4238	UD4239		
Sampling Date		2018/08/19 09:50	2018/08/18 15:10	2018/08/18 13:20	2018/08/18 16:30	2018/08/18 15:50		
COC Number		562348-01-01	562348-01-01	562348-01-01	562348-01-01	562348-01-01		
	UNITS	CC-1.5	CC-3.5	CC-4.5	CC-A	CC-B	RDL	QC Batch
Calculated Parameters								
Dissolved Hardness (CaCO3)	mg/L	159	131	79.2	53.7	164	0.50	9114275
Elements								
Dissolved Mercury (Hg)	ug/L	0.0041	0.0075	0.0044	0.0056	0.0094	0.0020	9118486
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	ug/L	77.6	54.4	87.0	110	65.6	0.50	9116745
Dissolved Antimony (Sb)	ug/L	0.126	0.104	0.116	0.107	0.118	0.020	9116745
Dissolved Arsenic (As)	ug/L	0.597	0.362	0.423	0.546	0.586	0.020	9116745
Dissolved Barium (Ba)	ug/L	41.9	50.5	44.0	20.3	42.8	0.020	9116745
Dissolved Beryllium (Be)	ug/L	0.018	0.013	0.011	0.027	0.015	0.010	9116745
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9116745
Dissolved Boron (B)	ug/L	<10	<10	<10	<10	<10	10	9116745
Dissolved Cadmium (Cd)	ug/L	<0.0050	<0.0050	0.0090	<0.0050	<0.0050	0.0050	9116745
Dissolved Chromium (Cr)	ug/L	0.36	0.32	0.41	0.46	0.31	0.10	9116745
Dissolved Cobalt (Co)	ug/L	0.0464	0.0419	0.0627	0.0524	0.0474	0.0050	9116745
Dissolved Copper (Cu)	ug/L	1.51	1.69	2.68	1.73	1.55	0.050	9116745
Dissolved Iron (Fe)	ug/L	52.2	28.7	64.2	68.2	39.9	1.0	9116745
Dissolved Lead (Pb)	ug/L	<0.0050	<0.0050	0.0053	<0.0050	<0.0050	0.0050	9116745
Dissolved Lithium (Li)	ug/L	1.90	0.69	0.74	1.12	1.55	0.50	9116745
Dissolved Manganese (Mn)	ug/L	3.88	0.308	2.69	4.52	4.96	0.050	9116745
Dissolved Molybdenum (Mo)	ug/L	0.167	0.252	0.634	0.113	0.248	0.050	9116745
Dissolved Nickel (Ni)	ug/L	0.628	0.605	1.09	0.669	0.564	0.020	9116745
Dissolved Phosphorus (P)	ug/L	4.3	5.4	8.7	5.3	3.1	2.0	9116745
Dissolved Selenium (Se)	ug/L	0.094	0.073	0.087	0.048	0.076	0.040	9116745
Dissolved Silicon (Si)	ug/L	5470	4680	5080	5690	5240	50	9116745
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9116745
Dissolved Strontium (Sr)	ug/L	356	252	106	93.7	379	0.050	9116745
Dissolved Thallium (Tl)	ug/L	0.0034	0.0029	0.0047	0.0025	0.0032	0.0020	9116745
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	9116745
Dissolved Titanium (Ti)	ug/L	0.79	0.69	0.61	1.03	<0.50	0.50	9116745
Dissolved Uranium (U)	ug/L	8.47	5.00	2.58	2.06	8.44	0.0020	9116745
Dissolved Vanadium (V)	ug/L	0.34	0.37	0.48	0.40	0.40	0.20	9116745
RDL = Reportable Detection Limit								

Maxxam Job #: B871373
Report Date: 2018/08/31

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		UD4235	UD4236	UD4237	UD4238	UD4239		
Sampling Date		2018/08/19 09:50	2018/08/18 15:10	2018/08/18 13:20	2018/08/18 16:30	2018/08/18 15:50		
COC Number		562348-01-01	562348-01-01	562348-01-01	562348-01-01	562348-01-01		
	UNITS	CC-1.5	CC-3.5	CC-4.5	CC-A	CC-B	RDL	QC Batch
Dissolved Zinc (Zn)	ug/L	0.38	0.30	0.38	0.32	0.24	0.10	9116745
Dissolved Zirconium (Zr)	ug/L	0.65	0.64	0.66	0.90	0.57	0.10	9116745
Dissolved Calcium (Ca)	mg/L	42.0	35.0	20.3	15.1	43.9	0.050	9114279
Dissolved Magnesium (Mg)	mg/L	13.0	10.6	6.93	3.90	13.2	0.050	9114279
Dissolved Potassium (K)	mg/L	2.24	2.08	1.25	0.765	2.68	0.050	9114279
Dissolved Sodium (Na)	mg/L	3.09	3.51	3.38	2.19	3.22	0.050	9114279
Dissolved Sulphur (S)	mg/L	21.1	17.9	10.3	8.2	22.8	3.0	9114279
RDL = Reportable Detection Limit								

Maxxam Job #: B871373
Report Date: 2018/08/31

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		UD4240	UD4241	UD4245	UD4246	UD4247	UD4248		
Sampling Date		2018/08/18 13:05	2018/08/20 08:45	2018/08/18 14:00	2018/08/19 11:40	2018/08/19 13:40	2018/08/19 13:20		
COC Number		562348-01-01	562348-01-01	562348-02-01	562348-02-01	562348-02-01	562348-02-01		
	UNITS	CC-X	Coffee Mix	LATTE MIX	HC-2.5	HC-5.0	HC-A	RDL	QC Batch

Calculated Parameters

Dissolved Hardness (CaCO3)	mg/L	77.9	94.7	72.7	96.0	102	100	0.50	9114275
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Elements

Dissolved Mercury (Hg)	ug/L	0.0085	<0.0020	0.0046	0.0037	0.0059	0.0026	0.0020	9118619
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Dissolved Metals by ICPMS

Dissolved Aluminum (Al)	ug/L	85.0	35.5	98.1	76.4	51.2	50.6	0.50	9116745
Dissolved Antimony (Sb)	ug/L	0.117	0.129	0.121	0.402	0.239	0.272	0.020	9116745
Dissolved Arsenic (As)	ug/L	0.446	0.470	0.472	0.981	0.627	0.674	0.020	9116745
Dissolved Barium (Ba)	ug/L	44.2	43.8	39.0	36.5	43.8	43.1	0.020	9116745
Dissolved Beryllium (Be)	ug/L	0.012	<0.010	0.011	0.016	0.015	0.014	0.010	9116745
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9116745
Dissolved Boron (B)	ug/L	<10	<10	<10	<10	<10	<10	10	9116745
Dissolved Cadmium (Cd)	ug/L	0.0098	0.0403	0.0068	<0.0050	<0.0050	<0.0050	0.0050	9116745
Dissolved Chromium (Cr)	ug/L	0.41	<0.10	0.44	0.40	0.35	0.33	0.10	9116745
Dissolved Cobalt (Co)	ug/L	0.0628	0.0150	0.0671	0.0540	0.0517	0.0546	0.0050	9116745
Dissolved Copper (Cu)	ug/L	2.67	1.15	2.65	1.61	1.94	1.84	0.050	9116745
Dissolved Iron (Fe)	ug/L	61.2	12.4	76.6	51.4	35.6	33.9	1.0	9116745
Dissolved Lead (Pb)	ug/L	<0.0050	0.0128	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9116745
Dissolved Lithium (Li)	ug/L	0.72	1.62	0.83	1.08	0.87	0.82	0.50	9116745
Dissolved Manganese (Mn)	ug/L	2.28	0.876	3.01	1.87	0.351	0.671	0.050	9116745
Dissolved Molybdenum (Mo)	ug/L	0.633	1.24	0.676	1.27	0.632	0.703	0.050	9116745
Dissolved Nickel (Ni)	ug/L	1.09	1.26	1.17	0.693	0.945	0.772	0.020	9116745
Dissolved Phosphorus (P)	ug/L	6.8	5.8	5.7	5.2	5.0	6.5	2.0	9116745
Dissolved Selenium (Se)	ug/L	0.101	0.327	0.103	0.070	0.065	0.066	0.040	9116745
Dissolved Silicon (Si)	ug/L	5130	2710	5220	5190	4780	4940	50	9116745
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9116745
Dissolved Strontium (Sr)	ug/L	105	123	97.3	275	228	243	0.050	9116745
Dissolved Thallium (Tl)	ug/L	0.0035	0.0031	0.0043	0.0035	0.0032	0.0029	0.0020	9116745
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	9116745
Dissolved Titanium (Ti)	ug/L	0.65	<0.50	0.91	0.89	0.72	0.77	0.50	9116745
Dissolved Uranium (U)	ug/L	2.38	0.942	2.97	21.9	8.64	11.3	0.0020	9116745
Dissolved Vanadium (V)	ug/L	0.48	0.29	0.48	0.41	0.40	0.40	0.20	9116745

RDL = Reportable Detection Limit

Maxxam Job #: B871373
Report Date: 2018/08/31

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		UD4240	UD4241	UD4245	UD4246	UD4247	UD4248		
Sampling Date		2018/08/18 13:05	2018/08/20 08:45	2018/08/18 14:00	2018/08/19 11:40	2018/08/19 13:40	2018/08/19 13:20		
COC Number		562348-01-01	562348-01-01	562348-02-01	562348-02-01	562348-02-01	562348-02-01		
	UNITS	CC-X	Coffee Mix	LATTE MIX	HC-2.5	HC-5.0	HC-A	RDL	QC Batch
Dissolved Zinc (Zn)	ug/L	0.45	2.16	0.47	0.25	0.17	0.14	0.10	9116745
Dissolved Zirconium (Zr)	ug/L	0.66	<0.10	0.63	0.62	0.57	0.58	0.10	9116745
Dissolved Calcium (Ca)	mg/L	20.1	26.3	18.6	24.7	27.3	26.2	0.050	9114279
Dissolved Magnesium (Mg)	mg/L	6.69	7.07	6.35	8.31	8.15	8.40	0.050	9114279
Dissolved Potassium (K)	mg/L	1.20	1.06	1.13	1.88	2.02	1.97	0.050	9114279
Dissolved Sodium (Na)	mg/L	3.32	2.08	3.18	2.69	3.05	3.08	0.050	9114279
Dissolved Sulphur (S)	mg/L	10.2	8.0	9.3	8.3	9.4	9.7	3.0	9114279
RDL = Reportable Detection Limit									

Maxxam Job #: B871373
Report Date: 2018/08/31

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		UD4249		UD4250		UD4251	UD4252		
Sampling Date		2018/08/19 13:00		2018/08/19 12:20		2018/08/20 09:30	2018/08/19 16:35		
COC Number		562348-02-01		562348-02-01		562348-02-01	562348-02-01		
	UNITS	HC-B	QC Batch	HC-C	QC Batch	HALFWAY MIX	IC-0.5	RDL	QC Batch
Calculated Parameters									
Dissolved Hardness (CaCO3)	mg/L	102	9114275	103	9114275	95.7	82.4	0.50	9114275
Elements									
Dissolved Mercury (Hg)	ug/L	0.0062	9118619	0.0030	9118486	<0.0020	0.0043	0.0020	9118486
Dissolved Metals by ICPMS									
Dissolved Aluminum (Al)	ug/L	49.2	9116745	52.8	9116745	36.4	127	0.50	9116745
Dissolved Antimony (Sb)	ug/L	0.331	9116745	0.361	9116745	0.155	0.120	0.020	9116745
Dissolved Arsenic (As)	ug/L	0.817	9116745	0.827	9116745	0.525	0.605	0.020	9116745
Dissolved Barium (Ba)	ug/L	37.0	9116745	36.4	9116745	42.9	28.6	0.020	9116745
Dissolved Beryllium (Be)	ug/L	0.012	9116745	0.014	9116745	<0.010	0.018	0.010	9116745
Dissolved Bismuth (Bi)	ug/L	<0.0050	9116745	<0.0050	9116745	<0.0050	<0.0050	0.0050	9116745
Dissolved Boron (B)	ug/L	<10	9116745	<10	9116745	<10	<10	10	9116745
Dissolved Cadmium (Cd)	ug/L	<0.0050	9116745	<0.0050	9116745	0.0395	0.0417	0.0050	9116745
Dissolved Chromium (Cr)	ug/L	0.35	9116745	0.35	9116745	0.17	0.58	0.10	9116745
Dissolved Cobalt (Co)	ug/L	0.0476	9116745	0.0423	9116745	0.0319	0.133	0.0050	9116745
Dissolved Copper (Cu)	ug/L	1.57	9116745	1.53	9116745	1.47	3.50	0.050	9116745
Dissolved Iron (Fe)	ug/L	30.8	9116745	30.4	9116745	18.9	87.4	1.0	9116745
Dissolved Lead (Pb)	ug/L	<0.0050	9116745	<0.0050	9116745	0.0091	0.0061	0.0050	9116745
Dissolved Lithium (Li)	ug/L	0.92	9116745	1.02	9116745	1.42	1.84	0.50	9116745
Dissolved Manganese (Mn)	ug/L	1.52	9116745	2.62	9116745	1.50	8.72	0.050	9116745
Dissolved Molybdenum (Mo)	ug/L	0.871	9116745	0.973	9116745	0.985	0.353	0.050	9116745
Dissolved Nickel (Ni)	ug/L	0.653	9116745	0.644	9116745	1.21	2.65	0.020	9116745
Dissolved Phosphorus (P)	ug/L	3.7	9126080	4.5	9126080	4.1	5.6	2.0	9116745
Dissolved Selenium (Se)	ug/L	0.056	9116745	0.055	9116745	0.266	0.218	0.040	9116745
Dissolved Silicon (Si)	ug/L	5000	9116745	5070	9116745	3590	5640	50	9116745
Dissolved Silver (Ag)	ug/L	<0.0050	9116745	<0.0050	9116745	<0.0050	<0.0050	0.0050	9116745
Dissolved Strontium (Sr)	ug/L	244	9116745	250	9116745	151	66.4	0.050	9116745
Dissolved Thallium (Tl)	ug/L	0.0024	9116745	0.0022	9116745	0.0033	0.0053	0.0020	9116745
Dissolved Tin (Sn)	ug/L	<0.20	9116745	<0.20	9116745	<0.20	<0.20	0.20	9116745
Dissolved Titanium (Ti)	ug/L	<0.50	9116745	0.93	9116745	<0.50	1.15	0.50	9116745
Dissolved Uranium (U)	ug/L	16.2	9116745	18.0	9116745	3.19	0.915	0.0020	9116745
Dissolved Vanadium (V)	ug/L	0.38	9116745	0.34	9116745	0.31	0.52	0.20	9116745
RDL = Reportable Detection Limit									

Maxxam Job #: B871373
Report Date: 2018/08/31

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		UD4249		UD4250		UD4251	UD4252		
Sampling Date		2018/08/19 13:00		2018/08/19 12:20		2018/08/20 09:30	2018/08/19 16:35		
COC Number		562348-02-01		562348-02-01		562348-02-01	562348-02-01		
	UNITS	HC-B	QC Batch	HC-C	QC Batch	HALFWAY MIX	IC-0.5	RDL	QC Batch
Dissolved Zinc (Zn)	ug/L	0.15	9116745	0.25	9116745	1.54	3.04	0.10	9116745
Dissolved Zirconium (Zr)	ug/L	0.52	9116745	0.53	9116745	0.18	0.89	0.10	9116745
Dissolved Calcium (Ca)	mg/L	26.3	9114279	26.3	9114279	26.1	20.0	0.050	9114279
Dissolved Magnesium (Mg)	mg/L	8.85	9114279	9.00	9114279	7.43	7.86	0.050	9114279
Dissolved Potassium (K)	mg/L	1.64	9114279	1.66	9114279	1.12	0.903	0.050	9114279
Dissolved Sodium (Na)	mg/L	3.10	9114279	3.04	9114279	2.74	2.67	0.050	9114279
Dissolved Sulphur (S)	mg/L	9.5	9114279	10.1	9114279	10.1	15.0	3.0	9114279
RDL = Reportable Detection Limit									

Maxxam Job #: B871373
Report Date: 2018/08/31

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		UD4253	UD4254	UD4257		UD4258	UD4259		
Sampling Date		2018/08/19 16:10	2018/08/19 16:50	2018/08/19 17:15		2018/08/19 17:35	2018/08/19 15:20		
COC Number		562348-02-01	562348-02-01	562348-03-01		562348-03-01	562348-03-01		
	UNITS	IC-1.5	IC-2.5	IC-3.0	QC Batch	IC-4.5	ML-A	RDL	QC Batch
Calculated Parameters									
Dissolved Hardness (CaCO3)	mg/L	56.3	17.5	97.1	9114275	66.4	94.5	0.50	9114275
Elements									
Dissolved Mercury (Hg)	ug/L	0.0054	0.0043	0.0098	9118486	0.0044	0.0040	0.0020	9118486
Dissolved Metals by ICPMS									
Dissolved Aluminum (Al)	ug/L	85.0	175	64.5	9116745	84.4	48.8	0.50	9116755
Dissolved Antimony (Sb)	ug/L	0.128	0.131	0.377	9116745	0.123	0.260	0.020	9116755
Dissolved Arsenic (As)	ug/L	0.308	1.09	1.23	9116745	0.487	0.658	0.020	9116755
Dissolved Barium (Ba)	ug/L	31.0	14.3	30.6	9116745	34.7	51.6	0.020	9116755
Dissolved Beryllium (Be)	ug/L	0.018	0.028	0.025	9116745	0.021	0.016	0.010	9116755
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	9116745	<0.0050	<0.0050	0.0050	9116755
Dissolved Boron (B)	ug/L	<10	<10	<10	9116745	<10	<10	10	9116755
Dissolved Cadmium (Cd)	ug/L	0.0084	<0.0050	<0.0050	9116745	0.0111	<0.0050	0.0050	9116755
Dissolved Chromium (Cr)	ug/L	0.41	0.69	0.41	9116745	0.44	0.38	0.10	9116755
Dissolved Cobalt (Co)	ug/L	0.0463	0.105	0.0664	9116745	0.0616	0.113	0.0050	9116755
Dissolved Copper (Cu)	ug/L	1.93	2.00	2.27	9116745	2.39	1.90	0.050	9116755
Dissolved Iron (Fe)	ug/L	52.5	258	42.4	9116745	65.5	99.8	1.0	9116755
Dissolved Lead (Pb)	ug/L	0.0092	0.0213	0.0084	9116745	0.0053	0.0200	0.0050	9116755
Dissolved Lithium (Li)	ug/L	2.28	0.70	<0.50	9116745	1.26	<0.50	0.50	9116755
Dissolved Manganese (Mn)	ug/L	0.791	4.25	3.04	9116745	3.64	10.1	0.050	9116755
Dissolved Molybdenum (Mo)	ug/L	0.281	0.099	0.501	9116745	0.287	0.557	0.050	9116755
Dissolved Nickel (Ni)	ug/L	0.889	1.08	0.864	9116745	1.29	0.779	0.020	9116755
Dissolved Phosphorus (P)	ug/L	5.9	7.5	2.3	9116745	<2.0	5.1	2.0	9116755
Dissolved Selenium (Se)	ug/L	0.069	0.058	0.070	9116745	0.073	0.068	0.040	9116755
Dissolved Silicon (Si)	ug/L	5540	5870	5080	9116745	5130	4230	50	9116755
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	9116745	<0.0050	<0.0050	0.0050	9116755
Dissolved Strontium (Sr)	ug/L	93.2	23.0	162	9116745	96.0	156	0.050	9116755
Dissolved Thallium (Tl)	ug/L	0.0036	<0.0020	0.0059	9116745	0.0033	<0.0020	0.0020	9116755
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	<0.20	9116745	<0.20	<0.20	0.20	9116755
Dissolved Titanium (Ti)	ug/L	0.98	1.97	0.76	9116745	0.92	0.88	0.50	9116755
Dissolved Uranium (U)	ug/L	1.89	0.760	4.37	9116745	1.13	4.28	0.0020	9116755
Dissolved Vanadium (V)	ug/L	0.41	0.68	0.40	9116745	0.44	0.72	0.20	9116755
RDL = Reportable Detection Limit									

Maxxam Job #: B871373
Report Date: 2018/08/31

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		UD4253	UD4254	UD4257		UD4258	UD4259		
Sampling Date		2018/08/19 16:10	2018/08/19 16:50	2018/08/19 17:15		2018/08/19 17:35	2018/08/19 15:20		
COC Number		562348-02-01	562348-02-01	562348-03-01		562348-03-01	562348-03-01		
	UNITS	IC-1.5	IC-2.5	IC-3.0	QC Batch	IC-4.5	ML-A	RDL	QC Batch
Dissolved Zinc (Zn)	ug/L	0.30	0.64	0.15	9116745	0.45	0.13	0.10	9116755
Dissolved Zirconium (Zr)	ug/L	0.84	1.41	0.76	9116745	0.87	0.75	0.10	9116755
Dissolved Calcium (Ca)	mg/L	15.0	4.75	30.1	9114279	18.2	25.3	0.050	9114279
Dissolved Magnesium (Mg)	mg/L	4.56	1.36	5.31	9114279	5.11	7.60	0.050	9114279
Dissolved Potassium (K)	mg/L	0.910	0.171	1.90	9114279	1.08	1.14	0.050	9114279
Dissolved Sodium (Na)	mg/L	3.25	1.34	3.09	9114279	2.83	2.63	0.050	9114279
Dissolved Sulphur (S)	mg/L	4.3	<3.0	10.8	9114279	7.3	11.5	3.0	9114279
RDL = Reportable Detection Limit									

Maxxam Job #: B871373
Report Date: 2018/08/31

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		UD4260		UD4261	UD4262	UD4263	UD4264		
Sampling Date		2018/08/19 15:35		2018/08/19 14:40	2018/08/20 10:50	2018/08/18 12:50	2018/08/21 10:20		
COC Number		562348-03-01		562348-03-01	562348-03-01	562348-03-01	562348-03-01		
	UNITS	ML-B	QC Batch	ML-1.0 (OR YT-24-1)	YT-24 MIX	YUK-2.0	YUK-5.0	RDL	QC Batch

Calculated Parameters

Dissolved Hardness (CaCO3)	mg/L	60.1	9114275	105	94.3	100	95.1	0.50	9114275
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Elements

Dissolved Mercury (Hg)	ug/L	0.0047	9118486	0.0055	0.0048	<0.0020	0.0071	0.0020	9118619
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Dissolved Metals by ICPMS

Dissolved Aluminum (Al)	ug/L	56.8	9116755	49.3	36.3	35.9	37.7	0.50	9116755
Dissolved Antimony (Sb)	ug/L	0.346	9116755	0.220	0.120	0.115	0.119	0.020	9116755
Dissolved Arsenic (As)	ug/L	0.808	9116755	0.489	0.459	0.470	0.494	0.020	9116755
Dissolved Barium (Ba)	ug/L	43.1	9116755	53.9	44.2	45.8	44.1	0.020	9116755
Dissolved Beryllium (Be)	ug/L	0.027	9116755	0.021	<0.010	<0.010	<0.010	0.010	9116755
Dissolved Bismuth (Bi)	ug/L	<0.0050	9116755	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9116755
Dissolved Boron (B)	ug/L	<10	9116755	<10	<10	<10	<10	10	9116755
Dissolved Cadmium (Cd)	ug/L	<0.0050	9116755	0.0055	0.0368	0.0390	0.0395	0.0050	9116755
Dissolved Chromium (Cr)	ug/L	0.44	9116755	0.33	<0.10	<0.10	<0.10	0.10	9116755
Dissolved Cobalt (Co)	ug/L	0.151	9116755	0.0741	0.0175	0.0168	0.0160	0.0050	9116755
Dissolved Copper (Cu)	ug/L	1.94	9116755	2.07	1.09	1.04	1.01	0.050	9116755
Dissolved Iron (Fe)	ug/L	137	9116755	34.3	12.8	14.2	12.7	1.0	9116755
Dissolved Lead (Pb)	ug/L	0.0253	9116755	<0.0050	0.0114	0.0174	0.0136	0.0050	9116755
Dissolved Lithium (Li)	ug/L	<0.50	9116755	<0.50	1.57	1.89	1.65	0.50	9116755
Dissolved Manganese (Mn)	ug/L	16.6	9116755	1.15	1.39	1.11	1.24	0.050	9116755
Dissolved Molybdenum (Mo)	ug/L	0.339	9116755	0.537	1.25	1.19	1.23	0.050	9116755
Dissolved Nickel (Ni)	ug/L	0.842	9116755	0.840	1.27	1.45	1.25	0.020	9116755
Dissolved Phosphorus (P)	ug/L	6.8	9116755	7.4	3.7	2.9	5.2	2.0	9116755
Dissolved Selenium (Se)	ug/L	0.054	9116755	0.076	0.328	0.414	0.359	0.040	9116755
Dissolved Silicon (Si)	ug/L	4500	9116755	4120	2760	2740	2810	50	9116755
Dissolved Silver (Ag)	ug/L	<0.0050	9116755	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9116755
Dissolved Strontium (Sr)	ug/L	75.1	9116755	174	127	130	127	0.050	9116755
Dissolved Thallium (Tl)	ug/L	0.0025	9116755	0.0023	0.0024	0.0027	<0.0020	0.0020	9116755
Dissolved Tin (Sn)	ug/L	<0.20	9116755	<0.20	<0.20	<0.20	<0.20	0.20	9116755
Dissolved Titanium (Ti)	ug/L	1.14	9116755	<0.50	<0.50	<0.50	<0.50	0.50	9116755
Dissolved Uranium (U)	ug/L	2.14	9116755	2.61	1.08	0.909	0.976	0.0020	9116755
Dissolved Vanadium (V)	ug/L	1.16	9116755	0.35	0.28	0.31	0.28	0.20	9116755

RDL = Reportable Detection Limit

Maxxam Job #: B871373
Report Date: 2018/08/31

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		UD4260		UD4261	UD4262	UD4263	UD4264		
Sampling Date		2018/08/19 15:35		2018/08/19 14:40	2018/08/20 10:50	2018/08/18 12:50	2018/08/21 10:20		
COC Number		562348-03-01		562348-03-01	562348-03-01	562348-03-01	562348-03-01		
	UNITS	ML-B	QC Batch	ML-1.0 (OR YT-24-1)	YT-24 MIX	YUK-2.0	YUK-5.0	RDL	QC Batch
Dissolved Zinc (Zn)	ug/L	0.16	9116755	0.19	1.40	1.79	1.31	0.10	9116755
Dissolved Zirconium (Zr)	ug/L	0.80	9116755	0.66	<0.10	<0.10	<0.10	0.10	9116755
Dissolved Calcium (Ca)	mg/L	17.9	9114279	29.2	25.8	27.5	26.1	0.050	9114279
Dissolved Magnesium (Mg)	mg/L	3.76	9114279	7.82	7.26	7.72	7.29	0.050	9114279
Dissolved Potassium (K)	mg/L	0.824	9114279	1.66	0.799	0.764	0.775	0.050	9114279
Dissolved Sodium (Na)	mg/L	1.72	9114279	2.94	2.05	1.91	1.98	0.050	9114279
Dissolved Sulphur (S)	mg/L	6.0	9114279	14.0	8.4	9.7	8.4	3.0	9114279
RDL = Reportable Detection Limit									

Maxxam Job #: B871373
Report Date: 2018/08/31

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		UD4278			UD4278			UD4279		
Sampling Date										
COC Number		562348-03-01			562348-03-01			562348-04-01		
	UNITS	SAMPLE A	RDL	QC Batch	SAMPLE A Lab-Dup	RDL	QC Batch	SAMPLE B	RDL	QC Batch
Calculated Parameters										
Dissolved Hardness (CaCO3)	mg/L	397	0.50	9114275				103	0.50	9114275
Elements										
Dissolved Mercury (Hg)	ug/L	<0.0020	0.0020	9118619				0.0061	0.0020	9125730
Dissolved Metals by ICPMS										
Dissolved Aluminum (Al)	ug/L	8.29	0.50	9116755	8.46	0.50	9116755	48.1	0.50	9116755
Dissolved Antimony (Sb)	ug/L	0.168	0.020	9116755	0.162	0.020	9116755	0.205	0.020	9116755
Dissolved Arsenic (As)	ug/L	0.919	0.020	9116755	0.901	0.020	9116755	0.468	0.020	9116755
Dissolved Barium (Ba)	ug/L	88.9	0.020	9116755	89.7	0.020	9116755	52.9	0.020	9116755
Dissolved Beryllium (Be)	ug/L	<0.010	0.010	9116755	<0.010	0.010	9116755	0.018	0.010	9116755
Dissolved Bismuth (Bi)	ug/L	<0.0050	0.0050	9116755	<0.0050	0.0050	9116755	<0.0050	0.0050	9116755
Dissolved Boron (B)	ug/L	<10	10	9116755	<10	10	9116755	<10	10	9116755
Dissolved Cadmium (Cd)	ug/L	<0.0050	0.0050	9116755	<0.0050	0.0050	9116755	<0.0050	0.0050	9116755
Dissolved Chromium (Cr)	ug/L	0.12	0.10	9116755	<0.10	0.10	9116755	0.35	0.10	9116755
Dissolved Cobalt (Co)	ug/L	0.0264	0.0050	9116755	0.0259	0.0050	9116755	0.0731	0.0050	9116755
Dissolved Copper (Cu)	ug/L	0.776	0.050	9116755	0.810	0.050	9116755	2.03	0.050	9116755
Dissolved Iron (Fe)	ug/L	4.2	1.0	9116755	4.2	1.0	9116755	34.2	1.0	9116755
Dissolved Lead (Pb)	ug/L	<0.0050	0.0050	9116755	<0.0050	0.0050	9116755	<0.0050	0.0050	9116755
Dissolved Lithium (Li)	ug/L	4.77	0.50	9116755	4.73	0.50	9116755	<0.50	0.50	9116755
Dissolved Manganese (Mn)	ug/L	0.850	0.050	9116755	0.832	0.050	9116755	1.00	0.050	9116755
Dissolved Molybdenum (Mo)	ug/L	0.296	0.050	9116755	0.285	0.050	9116755	0.471	0.050	9116755
Dissolved Nickel (Ni)	ug/L	0.431	0.020	9116755	0.460	0.020	9116755	0.768	0.020	9116755
Dissolved Phosphorus (P)	ug/L	3.9	2.0	9116755	<2.0	2.0	9116755	5.4	2.0	9116755
Dissolved Selenium (Se)	ug/L	0.295	0.040	9116755	0.293	0.040	9116755	0.076	0.040	9116755
Dissolved Silicon (Si)	ug/L	5250	50	9116755	5180	50	9116755	4220	50	9116755
Dissolved Silver (Ag)	ug/L	<0.0050	0.0050	9116755	<0.0050	0.0050	9116755	<0.0050	0.0050	9116755
Dissolved Strontium (Sr)	ug/L	1080	0.050	9116755	1080	0.050	9116755	169	0.050	9116755
Dissolved Thallium (Tl)	ug/L	0.0021	0.0020	9116755	0.0026	0.0020	9116755	0.0023	0.0020	9116755
Dissolved Tin (Sn)	ug/L	<0.20	0.20	9116755	<0.20	0.20	9116755	<0.20	0.20	9116755
Dissolved Titanium (Ti)	ug/L	<0.50	0.50	9116755	<0.50	0.50	9116755	0.78	0.50	9116755
Dissolved Uranium (U)	ug/L	25.8	0.0020	9116755	25.6	0.0020	9116755	2.56	0.0020	9116755
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B871373
Report Date: 2018/08/31

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		UD4278			UD4278			UD4279		
Sampling Date										
COC Number		562348-03-01			562348-03-01			562348-04-01		
	UNITS	SAMPLE A	RDL	QC Batch	SAMPLE A Lab-Dup	RDL	QC Batch	SAMPLE B	RDL	QC Batch
Dissolved Vanadium (V)	ug/L	0.21	0.20	9116755	0.21	0.20	9116755	0.34	0.20	9116755
Dissolved Zinc (Zn)	ug/L	0.15	0.10	9116755	0.16	0.10	9116755	0.18	0.10	9116755
Dissolved Zirconium (Zr)	ug/L	0.10	0.10	9116755	0.11	0.10	9116755	0.60	0.10	9116755
Dissolved Calcium (Ca)	mg/L	100	0.050	9114279				28.9	0.050	9114279
Dissolved Magnesium (Mg)	mg/L	35.4	0.050	9114279				7.63	0.050	9114279
Dissolved Potassium (K)	mg/L	5.21	0.050	9114279				1.64	0.050	9114279
Dissolved Sodium (Na)	mg/L	4.46	0.050	9114279				2.87	0.050	9114279
Dissolved Sulphur (S)	mg/L	53.0	3.0	9114279				14.1	3.0	9114279
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B871373
Report Date: 2018/08/31

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		UD4280	UD4281			UD4281		
Sampling Date			2018/08/18 21:00			2018/08/18 21:00		
COC Number		562348-04-01	562348-04-01			562348-04-01		
	UNITS	SAMPLE C	FIELD BLANK	RDL	QC Batch	FIELD BLANK Lab-Dup	RDL	QC Batch
Calculated Parameters								
Dissolved Hardness (CaCO3)	mg/L	92.4	<0.50	0.50	9114275			
Elements								
Dissolved Mercury (Hg)	ug/L	0.0036	0.0028	0.0020	9118619			
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	ug/L	36.9	<0.50	0.50	9116755	0.54	0.50	9116755
Dissolved Antimony (Sb)	ug/L	0.133	<0.020	0.020	9116755	<0.020	0.020	9116755
Dissolved Arsenic (As)	ug/L	0.485	<0.020	0.020	9116755	<0.020	0.020	9116755
Dissolved Barium (Ba)	ug/L	43.2	<0.020	0.020	9116755	<0.020	0.020	9116755
Dissolved Beryllium (Be)	ug/L	<0.010	<0.010	0.010	9116755	<0.010	0.010	9116755
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	0.0050	9116755	<0.0050	0.0050	9116755
Dissolved Boron (B)	ug/L	<10	<10	10	9116755	<10	10	9116755
Dissolved Cadmium (Cd)	ug/L	0.0408	<0.0050	0.0050	9116755	<0.0050	0.0050	9116755
Dissolved Chromium (Cr)	ug/L	0.11	<0.10	0.10	9116755	<0.10	0.10	9116755
Dissolved Cobalt (Co)	ug/L	0.0215	<0.0050	0.0050	9116755	<0.0050	0.0050	9116755
Dissolved Copper (Cu)	ug/L	1.18	<0.050	0.050	9116755	<0.050	0.050	9116755
Dissolved Iron (Fe)	ug/L	15.9	<1.0	1.0	9116755	<1.0	1.0	9116755
Dissolved Lead (Pb)	ug/L	0.0128	<0.0050	0.0050	9116755	<0.0050	0.0050	9116755
Dissolved Lithium (Li)	ug/L	1.51	<0.50	0.50	9116755	<0.50	0.50	9116755
Dissolved Manganese (Mn)	ug/L	1.51	<0.050	0.050	9116755	<0.050	0.050	9116755
Dissolved Molybdenum (Mo)	ug/L	1.15	<0.050	0.050	9116755	<0.050	0.050	9116755
Dissolved Nickel (Ni)	ug/L	1.23	<0.020	0.020	9116755	<0.020	0.020	9116755
Dissolved Phosphorus (P)	ug/L	2.8	4.4	2.0	9116755	4.2	2.0	9116755
Dissolved Selenium (Se)	ug/L	0.306	<0.040	0.040	9116755	<0.040	0.040	9116755
Dissolved Silicon (Si)	ug/L	2950	<50	50	9116755	<50	50	9116755
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	0.0050	9116755	<0.0050	0.0050	9116755
Dissolved Strontium (Sr)	ug/L	134	<0.050	0.050	9116755	<0.050	0.050	9116755
Dissolved Thallium (Tl)	ug/L	0.0034	<0.0020	0.0020	9116755	<0.0020	0.0020	9116755
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	0.20	9116755	<0.20	0.20	9116755
Dissolved Titanium (Ti)	ug/L	<0.50	<0.50	0.50	9116755	<0.50	0.50	9116755
Dissolved Uranium (U)	ug/L	1.83	<0.0020	0.0020	9116755	<0.0020	0.0020	9116755
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate								

Maxxam Job #: B871373
Report Date: 2018/08/31

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		UD4280	UD4281			UD4281		
Sampling Date			2018/08/18 21:00			2018/08/18 21:00		
COC Number		562348-04-01	562348-04-01			562348-04-01		
	UNITS	SAMPLE C	FIELD BLANK	RDL	QC Batch	FIELD BLANK Lab-Dup	RDL	QC Batch
Dissolved Vanadium (V)	ug/L	0.34	<0.20	0.20	9116755	<0.20	0.20	9116755
Dissolved Zinc (Zn)	ug/L	1.50	<0.10	0.10	9116755	<0.10	0.10	9116755
Dissolved Zirconium (Zr)	ug/L	0.11	<0.10	0.10	9116755	<0.10	0.10	9116755
Dissolved Calcium (Ca)	mg/L	25.3	<0.050	0.050	9114279			
Dissolved Magnesium (Mg)	mg/L	7.11	<0.050	0.050	9114279			
Dissolved Potassium (K)	mg/L	0.904	<0.050	0.050	9114279			
Dissolved Sodium (Na)	mg/L	2.15	<0.050	0.050	9114279			
Dissolved Sulphur (S)	mg/L	8.3	<3.0	3.0	9114279			
RDL = Reportable Detection Limit								
Lab-Dup = Laboratory Initiated Duplicate								

Maxxam Job #: B871373
Report Date: 2018/08/31

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		UD4359			UD4359		
Sampling Date		2018/08/22 09:00			2018/08/22 09:00		
COC Number		562348-04-01			562348-04-01		
	UNITS	TRIP BLANK	RDL	QC Batch	TRIP BLANK Lab-Dup	RDL	QC Batch
Calculated Parameters							
Dissolved Hardness (CaCO3)	mg/L	<0.50	0.50	9114275			
Elements							
Dissolved Mercury (Hg)	ug/L	0.0031	0.0020	9118619	0.0028	0.0020	9118619
Dissolved Metals by ICPMS							
Dissolved Aluminum (Al)	ug/L	<0.50	0.50	9116755	<0.50	0.50	9116755
Dissolved Antimony (Sb)	ug/L	<0.020	0.020	9116755	<0.020	0.020	9116755
Dissolved Arsenic (As)	ug/L	<0.020	0.020	9116755	<0.020	0.020	9116755
Dissolved Barium (Ba)	ug/L	<0.020	0.020	9116755	<0.020	0.020	9116755
Dissolved Beryllium (Be)	ug/L	<0.010	0.010	9116755	<0.010	0.010	9116755
Dissolved Bismuth (Bi)	ug/L	<0.0050	0.0050	9116755	<0.0050	0.0050	9116755
Dissolved Boron (B)	ug/L	<10	10	9116755	<10	10	9116755
Dissolved Cadmium (Cd)	ug/L	<0.0050	0.0050	9116755	<0.0050	0.0050	9116755
Dissolved Chromium (Cr)	ug/L	<0.10	0.10	9116755	<0.10	0.10	9116755
Dissolved Cobalt (Co)	ug/L	<0.0050	0.0050	9116755	<0.0050	0.0050	9116755
Dissolved Copper (Cu)	ug/L	<0.050	0.050	9116755	<0.050	0.050	9116755
Dissolved Iron (Fe)	ug/L	<1.0	1.0	9116755	<1.0	1.0	9116755
Dissolved Lead (Pb)	ug/L	<0.0050	0.0050	9116755	<0.0050	0.0050	9116755
Dissolved Lithium (Li)	ug/L	<0.50	0.50	9116755	<0.50	0.50	9116755
Dissolved Manganese (Mn)	ug/L	<0.050	0.050	9116755	<0.050	0.050	9116755
Dissolved Molybdenum (Mo)	ug/L	<0.050	0.050	9116755	<0.050	0.050	9116755
Dissolved Nickel (Ni)	ug/L	<0.020	0.020	9116755	<0.020	0.020	9116755
Dissolved Phosphorus (P)	ug/L	<2.0	2.0	9116755	<2.0	2.0	9116755
Dissolved Selenium (Se)	ug/L	<0.040	0.040	9116755	<0.040	0.040	9116755
Dissolved Silicon (Si)	ug/L	<50	50	9116755	<50	50	9116755
Dissolved Silver (Ag)	ug/L	<0.0050	0.0050	9116755	<0.0050	0.0050	9116755
Dissolved Strontium (Sr)	ug/L	<0.050	0.050	9116755	<0.050	0.050	9116755
Dissolved Thallium (Tl)	ug/L	<0.0020	0.0020	9116755	<0.0020	0.0020	9116755
Dissolved Tin (Sn)	ug/L	<0.20	0.20	9116755	<0.20	0.20	9116755
Dissolved Titanium (Ti)	ug/L	<0.50	0.50	9116755	<0.50	0.50	9116755
Dissolved Uranium (U)	ug/L	<0.0020	0.0020	9116755	<0.0020	0.0020	9116755
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate							

Maxxam Job #: B871373
Report Date: 2018/08/31

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

Maxxam ID		UD4359			UD4359		
Sampling Date		2018/08/22 09:00			2018/08/22 09:00		
COC Number		562348-04-01			562348-04-01		
	UNITS	TRIP BLANK	RDL	QC Batch	TRIP BLANK Lab-Dup	RDL	QC Batch
Dissolved Vanadium (V)	ug/L	<0.20	0.20	9116755	<0.20	0.20	9116755
Dissolved Zinc (Zn)	ug/L	<0.10	0.10	9116755	<0.10	0.10	9116755
Dissolved Zirconium (Zr)	ug/L	<0.10	0.10	9116755	<0.10	0.10	9116755
Dissolved Calcium (Ca)	mg/L	<0.050	0.050	9114279			
Dissolved Magnesium (Mg)	mg/L	<0.050	0.050	9114279			
Dissolved Potassium (K)	mg/L	<0.050	0.050	9114279			
Dissolved Sodium (Na)	mg/L	<0.050	0.050	9114279			
Dissolved Sulphur (S)	mg/L	<3.0	3.0	9114279			
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate							

Maxxam Job #: B871373
Report Date: 2018/08/31

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		UD4233			UD4233			UD4234		
Sampling Date		2018/08/18 14:25			2018/08/18 14:25			2018/08/19 09:30		
COC Number		562348-01-01			562348-01-01			562348-01-01		
	UNITS	CC-0.5	RDL	QC Batch	CC-0.5 Lab-Dup	RDL	QC Batch	CC-1.0	RDL	QC Batch

Calculated Parameters

Total Hardness (CaCO3)	mg/L	62.1	0.50	9114271				383	0.50	9114271
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Elements

Total Mercury (Hg)	ug/L	0.0069	0.0020	9118589				<0.0020	0.0020	9118589
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Total Metals by ICPMS

Total Aluminum (Al)	ug/L	132	0.50	9116053	132	0.50	9116053	22.8	0.50	9116053
Total Antimony (Sb)	ug/L	0.120	0.020	9116053	0.121	0.020	9116053	0.166	0.020	9116053
Total Arsenic (As)	ug/L	0.563	0.020	9116053	0.510	0.020	9116053	0.971	0.020	9116053
Total Barium (Ba)	ug/L	37.4	0.020	9116053	36.8	0.020	9116053	88.0	0.020	9116053
Total Beryllium (Be)	ug/L	0.015	0.010	9116053	0.013	0.010	9116053	<0.010	0.010	9116053
Total Bismuth (Bi)	ug/L	<0.0050	0.0050	9116053	<0.0050	0.0050	9116053	<0.0050	0.0050	9116053
Total Boron (B)	ug/L	<10	10	9116053	<10	10	9116053	<10	10	9116053
Total Cadmium (Cd)	ug/L	0.0109	0.0050	9116053	0.0122	0.0050	9116053	<0.0050	0.0050	9116053
Total Chromium (Cr)	ug/L	0.51	0.10	9116053	0.49	0.10	9116053	0.18	0.10	9116053
Total Cobalt (Co)	ug/L	0.0876	0.0050	9116053	0.0914	0.0050	9116053	0.0454	0.0050	9116053
Total Copper (Cu)	ug/L	2.68	0.050	9116053	2.71	0.050	9116053	0.782	0.050	9116053
Total Iron (Fe)	ug/L	125	1.0	9116053	125	1.0	9116053	23.6	1.0	9116053
Total Lead (Pb)	ug/L	0.0651	0.0050	9116053	0.0625	0.0050	9116053	0.0135	0.0050	9116053
Total Lithium (Li)	ug/L	0.94	0.50	9116053	0.91	0.50	9116053	4.79	0.50	9116053
Total Manganese (Mn)	ug/L	5.84	0.050	9116053	5.59	0.050	9116053	1.96	0.050	9116053
Total Molybdenum (Mo)	ug/L	0.690	0.050	9116053	0.701	0.050	9116053	0.294	0.050	9116053
Total Nickel (Ni)	ug/L	1.24	0.020	9116053	1.20	0.020	9116053	0.493	0.020	9116053
Total Phosphorus (P)	ug/L	8.4	2.0	9116053	7.8	2.0	9116053	<2.0	2.0	9116053
Total Selenium (Se)	ug/L	0.100	0.040	9116053	0.095	0.040	9116053	0.309	0.040	9116053
Total Silicon (Si)	ug/L	5100	50	9116053	4970	50	9116053	5110	50	9116053
Total Silver (Ag)	ug/L	<0.0050	0.0050	9116053	0.0053	0.0050	9116053	<0.0050	0.0050	9116053
Total Strontium (Sr)	ug/L	80.5	0.050	9116053	77.5	0.050	9116053	1020	0.050	9116053
Total Thallium (Tl)	ug/L	0.0053	0.0020	9116053	0.0048	0.0020	9116053	0.0034	0.0020	9116053
Total Tin (Sn)	ug/L	<0.20	0.20	9116053	<0.20	0.20	9116053	<0.20	0.20	9116053
Total Titanium (Ti)	ug/L	3.57	0.50	9116053	3.38	0.50	9116053	1.29	0.50	9116053
Total Uranium (U)	ug/L	3.00	0.0020	9116053	3.03	0.0020	9116053	27.7	0.0020	9116053

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Maxxam Job #: B871373
Report Date: 2018/08/31

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		UD4233			UD4233			UD4234		
Sampling Date		2018/08/18 14:25			2018/08/18 14:25			2018/08/19 09:30		
COC Number		562348-01-01			562348-01-01			562348-01-01		
	UNITS	CC-0.5	RDL	QC Batch	CC-0.5 Lab-Dup	RDL	QC Batch	CC-1.0	RDL	QC Batch
Total Vanadium (V)	ug/L	0.71	0.20	9116053	0.77	0.20	9116053	0.32	0.20	9116053
Total Zinc (Zn)	ug/L	0.68	0.10	9116053	0.64	0.10	9116053	0.19	0.10	9116053
Total Zirconium (Zr)	ug/L	0.59	0.10	9116053	0.55	0.10	9116053	<0.10	0.10	9116053
Total Calcium (Ca)	mg/L	15.6	0.050	9114282				96.3	0.050	9114282
Total Magnesium (Mg)	mg/L	5.60	0.050	9114282				34.6	0.050	9114282
Total Potassium (K)	mg/L	1.03	0.050	9114282				5.03	0.050	9114282
Total Sodium (Na)	mg/L	3.04	0.050	9114282				4.41	0.050	9114282
Total Sulphur (S)	mg/L	9.5	3.0	9114282				53.6	3.0	9114282
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B871373
Report Date: 2018/08/31

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		UD4235	UD4236	UD4237	UD4238	UD4239		
Sampling Date		2018/08/19 09:50	2018/08/18 15:10	2018/08/18 13:20	2018/08/18 16:30	2018/08/18 15:50		
COC Number		562348-01-01	562348-01-01	562348-01-01	562348-01-01	562348-01-01		
	UNITS	CC-1.5	CC-3.5	CC-4.5	CC-A	CC-B	RDL	QC Batch
Calculated Parameters								
Total Hardness (CaCO3)	mg/L	142	121	70.4	48.1	149	0.50	9114271
Elements								
Total Mercury (Hg)	ug/L	0.0069	0.0066	0.0110	0.0084	0.0062	0.0020	9118589
Total Metals by ICPMS								
Total Aluminum (Al)	ug/L	90.5	59.4	100	126	70.2	0.50	9116053
Total Antimony (Sb)	ug/L	0.119	0.106	0.115	0.097	0.120	0.020	9116053
Total Arsenic (As)	ug/L	0.649	0.373	0.455	0.584	0.589	0.020	9116053
Total Barium (Ba)	ug/L	40.9	48.8	42.8	19.6	42.5	0.020	9116053
Total Beryllium (Be)	ug/L	0.025	0.014	0.013	0.024	0.015	0.010	9116053
Total Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9116053
Total Boron (B)	ug/L	<10	<10	<10	<10	<10	10	9116053
Total Cadmium (Cd)	ug/L	0.0064	0.0059	0.0105	0.0074	0.0060	0.0050	9116053
Total Chromium (Cr)	ug/L	0.38	0.32	0.43	0.48	0.33	0.10	9116053
Total Cobalt (Co)	ug/L	0.0575	0.0530	0.0719	0.0674	0.0473	0.0050	9116053
Total Copper (Cu)	ug/L	1.50	1.53	2.42	1.62	1.50	0.050	9116053
Total Iron (Fe)	ug/L	74.2	36.2	90.3	107	48.6	1.0	9116053
Total Lead (Pb)	ug/L	0.0186	0.0094	0.0173	0.0199	0.0104	0.0050	9116053
Total Lithium (Li)	ug/L	1.92	0.70	0.73	1.10	1.46	0.50	9116053
Total Manganese (Mn)	ug/L	5.38	1.58	4.62	6.14	6.32	0.050	9116053
Total Molybdenum (Mo)	ug/L	0.176	0.248	0.618	0.097	0.248	0.050	9116053
Total Nickel (Ni)	ug/L	0.551	0.592	0.996	0.662	0.494	0.020	9116053
Total Phosphorus (P)	ug/L	4.4	2.0	2.8	3.7	<2.0	2.0	9116053
Total Selenium (Se)	ug/L	0.109	0.080	0.099	0.064	0.085	0.040	9116053
Total Silicon (Si)	ug/L	5350	4700	4820	5310	5030	50	9116053
Total Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9116053
Total Strontium (Sr)	ug/L	327	240	101	88.4	353	0.050	9116053
Total Thallium (Tl)	ug/L	0.0035	0.0023	0.0046	0.0030	0.0030	0.0020	9116053
Total Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	9116053
Total Titanium (Ti)	ug/L	1.65	1.19	1.82	1.90	1.42	0.50	9116053
Total Uranium (U)	ug/L	8.57	5.17	2.73	2.22	8.76	0.0020	9116053
Total Vanadium (V)	ug/L	0.43	0.39	0.63	0.52	0.43	0.20	9116053
RDL = Reportable Detection Limit								

Maxxam Job #: B871373
Report Date: 2018/08/31

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		UD4235	UD4236	UD4237	UD4238	UD4239		
Sampling Date		2018/08/19 09:50	2018/08/18 15:10	2018/08/18 13:20	2018/08/18 16:30	2018/08/18 15:50		
COC Number		562348-01-01	562348-01-01	562348-01-01	562348-01-01	562348-01-01		
	UNITS	CC-1.5	CC-3.5	CC-4.5	CC-A	CC-B	RDL	QC Batch
Total Zinc (Zn)	ug/L	0.35	0.20	0.44	0.37	0.24	0.10	9116053
Total Zirconium (Zr)	ug/L	0.54	0.53	0.60	0.77	0.50	0.10	9116053
Total Calcium (Ca)	mg/L	37.1	32.4	18.0	13.5	39.4	0.050	9114282
Total Magnesium (Mg)	mg/L	12.0	9.64	6.17	3.50	12.3	0.050	9114282
Total Potassium (K)	mg/L	2.09	1.95	1.12	0.707	2.57	0.050	9114282
Total Sodium (Na)	mg/L	3.00	3.27	3.06	1.97	3.02	0.050	9114282
Total Sulphur (S)	mg/L	21.4	18.3	9.9	7.3	22.6	3.0	9114282
RDL = Reportable Detection Limit								

Maxxam Job #: B871373
Report Date: 2018/08/31

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		UD4247	UD4248	UD4249	UD4250	UD4252		
Sampling Date		2018/08/19 13:40	2018/08/19 13:20	2018/08/19 13:00	2018/08/19 12:20	2018/08/19 16:35		
COC Number		562348-02-01	562348-02-01	562348-02-01	562348-02-01	562348-02-01		
	UNITS	HC-5.0	HC-A	HC-B	HC-C	IC-0.5	RDL	QC Batch
Calculated Parameters								
Total Hardness (CaCO3)	mg/L	90.0	88.3	90.3	92.1	78.9	0.50	9114271
Elements								
Total Mercury (Hg)	ug/L	0.0056	<0.0020	0.0059	0.0068	0.0035	0.0020	9118673
Total Metals by ICPMS								
Total Aluminum (Al)	ug/L	56.2	58.7	57.6	62.7	136	0.50	9116053
Total Antimony (Sb)	ug/L	0.230	0.259	0.334	0.343	0.115	0.020	9116053
Total Arsenic (As)	ug/L	0.642	0.730	0.818	0.856	0.636	0.020	9116053
Total Barium (Ba)	ug/L	41.1	40.5	35.4	35.4	28.2	0.020	9116053
Total Beryllium (Be)	ug/L	0.014	0.015	0.014	0.012	0.022	0.010	9116053
Total Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9116053
Total Boron (B)	ug/L	<10	<10	<10	<10	<10	10	9116053
Total Cadmium (Cd)	ug/L	<0.0050	0.0054	<0.0050	<0.0050	0.0378	0.0050	9116053
Total Chromium (Cr)	ug/L	0.36	0.37	0.31	0.35	0.56	0.10	9116053
Total Cobalt (Co)	ug/L	0.0619	0.0608	0.0553	0.0600	0.145	0.0050	9116053
Total Copper (Cu)	ug/L	1.82	1.68	1.46	1.42	3.29	0.050	9116053
Total Iron (Fe)	ug/L	44.1	47.2	41.3	40.7	106	1.0	9116053
Total Lead (Pb)	ug/L	0.0097	0.0149	0.0109	0.0148	0.0221	0.0050	9116053
Total Lithium (Li)	ug/L	0.86	0.79	0.88	1.02	1.80	0.50	9116053
Total Manganese (Mn)	ug/L	0.946	1.55	2.74	3.77	9.97	0.050	9116053
Total Molybdenum (Mo)	ug/L	0.615	0.675	0.853	0.932	0.340	0.050	9116053
Total Nickel (Ni)	ug/L	0.825	0.646	0.613	0.560	2.51	0.020	9116053
Total Phosphorus (P)	ug/L	<2.0	3.4	2.8	2.4	5.5	2.0	9116053
Total Selenium (Se)	ug/L	0.064	0.058	0.061	0.058	0.234	0.040	9116053
Total Silicon (Si)	ug/L	4570	4280	4700	4860	5250	50	9116053
Total Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9116053
Total Strontium (Sr)	ug/L	211	220	231	241	65.2	0.050	9116053
Total Thallium (Tl)	ug/L	0.0032	0.0030	0.0022	<0.0020	0.0058	0.0020	9116053
Total Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	9116053
Total Titanium (Ti)	ug/L	1.40	1.32	1.16	1.44	1.75	0.50	9116053
Total Uranium (U)	ug/L	8.78	11.4	16.7	18.4	0.984	0.0020	9116053
Total Vanadium (V)	ug/L	0.45	0.49	0.44	0.46	0.62	0.20	9116053
RDL = Reportable Detection Limit								

Maxxam Job #: B871373
Report Date: 2018/08/31

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		UD4247	UD4248	UD4249	UD4250	UD4252		
Sampling Date		2018/08/19 13:40	2018/08/19 13:20	2018/08/19 13:00	2018/08/19 12:20	2018/08/19 16:35		
COC Number		562348-02-01	562348-02-01	562348-02-01	562348-02-01	562348-02-01		
	UNITS	HC-5.0	HC-A	HC-B	HC-C	IC-0.5	RDL	QC Batch
Total Zinc (Zn)	ug/L	0.19	0.19	0.19	0.16	2.89	0.10	9116053
Total Zirconium (Zr)	ug/L	0.50	0.48	0.47	0.48	0.79	0.10	9116053
Total Calcium (Ca)	mg/L	24.4	22.9	23.2	23.1	19.5	0.050	9114282
Total Magnesium (Mg)	mg/L	7.08	7.57	7.90	8.36	7.35	0.050	9114282
Total Potassium (K)	mg/L	1.83	1.80	1.54	1.57	0.891	0.050	9114282
Total Sodium (Na)	mg/L	2.71	2.69	2.77	2.80	2.52	0.050	9114282
Total Sulphur (S)	mg/L	9.2	9.5	9.5	9.9	14.1	3.0	9114282
RDL = Reportable Detection Limit								

Maxxam Job #: B871373
Report Date: 2018/08/31

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		UD4254			UD4257		UD4281		
Sampling Date		2018/08/19 16:50			2018/08/19 17:15		2018/08/18 21:00		
COC Number		562348-02-01			562348-03-01		562348-04-01		
	UNITS	IC-2.5	RDL	QC Batch	IC-3.0	QC Batch	FIELD BLANK	RDL	QC Batch
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	16.8	0.50	9114271	86.8	9114271	<0.50	0.50	9114271
Elements									
Total Mercury (Hg)	ug/L	0.0070	0.0020	9118673	0.0070	9118673	<0.0020	0.0020	9118673
Total Metals by ICPMS									
Total Aluminum (Al)	ug/L				89.1	9116053	<0.50	0.50	9116071
Total Antimony (Sb)	ug/L				0.346	9116053	<0.020	0.020	9116071
Total Arsenic (As)	ug/L				1.28	9116053	<0.020	0.020	9116071
Total Barium (Ba)	ug/L				30.0	9116053	<0.020	0.020	9116071
Total Beryllium (Be)	ug/L				0.021	9116053	<0.010	0.010	9116071
Total Bismuth (Bi)	ug/L				<0.0050	9116053	<0.0050	0.0050	9116071
Total Boron (B)	ug/L				<10	9116053	<10	10	9116071
Total Cadmium (Cd)	ug/L				0.0052	9116053	<0.0050	0.0050	9116071
Total Chromium (Cr)	ug/L				0.49	9116053	<0.10	0.10	9116071
Total Cobalt (Co)	ug/L				0.0963	9116053	<0.0050	0.0050	9116071
Total Copper (Cu)	ug/L				2.22	9116053	<0.050	0.050	9116071
Total Iron (Fe)	ug/L				82.0	9116053	<1.0	1.0	9116071
Total Lead (Pb)	ug/L				0.0301	9116053	<0.0050	0.0050	9116071
Total Lithium (Li)	ug/L				<0.50	9116053	<0.50	0.50	9116071
Total Manganese (Mn)	ug/L				5.39	9116053	<0.050	0.050	9116071
Total Molybdenum (Mo)	ug/L				0.471	9116053	<0.050	0.050	9116071
Total Nickel (Ni)	ug/L				0.807	9116053	<0.020	0.020	9116071
Total Phosphorus (P)	ug/L				3.2	9116053	<2.0	2.0	9116071
Total Selenium (Se)	ug/L				0.064	9116053	<0.040	0.040	9116071
Total Silicon (Si)	ug/L				4560	9116053	<50	50	9116071
Total Silver (Ag)	ug/L				<0.0050	9116053	<0.0050	0.0050	9116071
Total Strontium (Sr)	ug/L				156	9116053	<0.050	0.050	9116071
Total Thallium (Tl)	ug/L				0.0049	9116053	<0.0020	0.0020	9116071
Total Tin (Sn)	ug/L				<0.20	9116053	<0.20	0.20	9116071
Total Titanium (Ti)	ug/L				3.08	9116053	<0.50	0.50	9116071
Total Uranium (U)	ug/L				4.43	9116053	<0.0020	0.0020	9116071
Total Vanadium (V)	ug/L				0.57	9116053	<0.20	0.20	9116071
RDL = Reportable Detection Limit									

Maxxam Job #: B871373
Report Date: 2018/08/31

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		UD4254			UD4257		UD4281		
Sampling Date		2018/08/19 16:50			2018/08/19 17:15		2018/08/18 21:00		
COC Number		562348-02-01			562348-03-01		562348-04-01		
	UNITS	IC-2.5	RDL	QC Batch	IC-3.0	QC Batch	FIELD BLANK	RDL	QC Batch
Total Zinc (Zn)	ug/L				0.23	9116053	<0.10	0.10	9116071
Total Zirconium (Zr)	ug/L				0.68	9116053	<0.10	0.10	9116071
Total Calcium (Ca)	mg/L	4.59	0.25	9114282	26.8	9114282	<0.050	0.050	9114282
Total Magnesium (Mg)	mg/L	1.30	0.25	9114282	4.81	9114282	<0.050	0.050	9114282
Total Potassium (K)	mg/L	<0.25	0.25	9114282	1.83	9114282	<0.050	0.050	9114282
Total Sodium (Na)	mg/L	1.28	0.25	9114282	2.80	9114282	<0.050	0.050	9114282
Total Sulphur (S)	mg/L	<3.0	3.0	9114282	10.1	9114282	<3.0	3.0	9114282
RDL = Reportable Detection Limit									

Maxxam Job #: B871373
Report Date: 2018/08/31

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		UD4281			UD4359			UD4359		
Sampling Date		2018/08/18 21:00			2018/08/22 09:00			2018/08/22 09:00		
COC Number		562348-04-01			562348-04-01			562348-04-01		
	UNITS	FIELD BLANK Lab-Dup	RDL	QC Batch	TRIP BLANK	RDL	QC Batch	TRIP BLANK Lab-Dup	RDL	QC Batch

Calculated Parameters

Total Hardness (CaCO3)	mg/L				<0.50	0.50	9114271			
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Elements

Total Mercury (Hg)	ug/L	0.0026	0.0020	9118673	<0.0020	0.0020	9119817	<0.0020	0.0020	9119817
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Total Metals by ICPMS

Total Aluminum (Al)	ug/L				<0.50	0.50	9116071			
Total Antimony (Sb)	ug/L				<0.020	0.020	9116071			
Total Arsenic (As)	ug/L				<0.020	0.020	9116071			
Total Barium (Ba)	ug/L				<0.020	0.020	9116071			
Total Beryllium (Be)	ug/L				<0.010	0.010	9116071			
Total Bismuth (Bi)	ug/L				<0.0050	0.0050	9116071			
Total Boron (B)	ug/L				<10	10	9116071			
Total Cadmium (Cd)	ug/L				<0.0050	0.0050	9116071			
Total Chromium (Cr)	ug/L				<0.10	0.10	9116071			
Total Cobalt (Co)	ug/L				<0.0050	0.0050	9116071			
Total Copper (Cu)	ug/L				<0.050	0.050	9116071			
Total Iron (Fe)	ug/L				<1.0	1.0	9116071			
Total Lead (Pb)	ug/L				<0.0050	0.0050	9116071			
Total Lithium (Li)	ug/L				<0.50	0.50	9116071			
Total Manganese (Mn)	ug/L				<0.050	0.050	9116071			
Total Molybdenum (Mo)	ug/L				<0.050	0.050	9116071			
Total Nickel (Ni)	ug/L				<0.020	0.020	9116071			
Total Phosphorus (P)	ug/L				<2.0	2.0	9116071			
Total Selenium (Se)	ug/L				<0.040	0.040	9116071			
Total Silicon (Si)	ug/L				<50	50	9116071			
Total Silver (Ag)	ug/L				<0.0050	0.0050	9116071			
Total Strontium (Sr)	ug/L				<0.050	0.050	9116071			
Total Thallium (Tl)	ug/L				<0.0020	0.0020	9116071			
Total Tin (Sn)	ug/L				<0.20	0.20	9116071			
Total Titanium (Ti)	ug/L				<0.50	0.50	9116071			
Total Uranium (U)	ug/L				<0.0020	0.0020	9116071			

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Maxxam Job #: B871373
Report Date: 2018/08/31

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LOW LEVEL TOTAL METALS WITH CV HG (WATER)

Maxxam ID		UD4281			UD4359			UD4359		
Sampling Date		2018/08/18 21:00			2018/08/22 09:00			2018/08/22 09:00		
COC Number		562348-04-01			562348-04-01			562348-04-01		
	UNITS	FIELD BLANK Lab-Dup	RDL	QC Batch	TRIP BLANK	RDL	QC Batch	TRIP BLANK Lab-Dup	RDL	QC Batch
Total Vanadium (V)	ug/L				<0.20	0.20	9116071			
Total Zinc (Zn)	ug/L				<0.10	0.10	9116071			
Total Zirconium (Zr)	ug/L				<0.10	0.10	9116071			
Total Calcium (Ca)	mg/L				<0.050	0.050	9114282			
Total Magnesium (Mg)	mg/L				<0.050	0.050	9114282			
Total Potassium (K)	mg/L				<0.050	0.050	9114282			
Total Sodium (Na)	mg/L				<0.050	0.050	9114282			
Total Sulphur (S)	mg/L				<3.0	3.0	9114282			
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B871373
Report Date: 2018/08/31

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		UD4240			UD4240			UD4241		
Sampling Date		2018/08/18 13:05			2018/08/18 13:05			2018/08/20 08:45		
COC Number		562348-01-01			562348-01-01			562348-01-01		
	UNITS	CC-X	RDL	QC Batch	CC-X Lab-Dup	RDL	QC Batch	Coffee Mix	RDL	QC Batch
Calculated Parameters										
Total Hardness (CaCO3)	mg/L	73.3	0.50	9114271				88.0	0.50	9114271
Elements										
Total Mercury (Hg)	ug/L	0.0070	0.0020	9118589				<0.0020	0.0020	9118589
Total Metals by ICPMS										
Total Aluminum (Al)	ug/L	102	3.0	9116608	100	3.0	9116608	657	3.0	9116608
Total Antimony (Sb)	ug/L	0.137	0.020	9116608	0.127	0.020	9116608	0.247	0.020	9116608
Total Arsenic (As)	ug/L	0.481	0.020	9116608	0.453	0.020	9116608	1.06	0.020	9116608
Total Barium (Ba)	ug/L	43.7	0.050	9116608	43.5	0.050	9116608	72.9	0.050	9116608
Total Beryllium (Be)	ug/L	0.011	0.010	9116608	0.012	0.010	9116608	0.034	0.010	9116608
Total Bismuth (Bi)	ug/L	<0.010	0.010	9116608	<0.010	0.010	9116608	<0.010	0.010	9116608
Total Boron (B)	ug/L	<10	10	9116608	<10	10	9116608	<10	10	9116608
Total Cadmium (Cd)	ug/L	0.0093	0.0050	9116608	0.0090	0.0050	9116608	0.146	0.0050	9116608
Total Chromium (Cr)	ug/L	0.46	0.10	9116608	0.43	0.10	9116608	1.14	0.10	9116608
Total Cobalt (Co)	ug/L	0.075	0.010	9116608	0.074	0.010	9116608	0.593	0.010	9116608
Total Copper (Cu)	ug/L	2.60	0.10	9116608	2.56	0.10	9116608	2.96	0.10	9116608
Total Iron (Fe)	ug/L	90.2	5.0	9116608	89.3	5.0	9116608	950	5.0	9116608
Total Lead (Pb)	ug/L	<0.020	0.020	9116608	<0.020	0.020	9116608	0.640	0.020	9116608
Total Lithium (Li)	ug/L	0.57	0.50	9116608	0.58	0.50	9116608	1.91	0.50	9116608
Total Manganese (Mn)	ug/L	4.52	0.10	9116608	4.29	0.10	9116608	44.2	0.10	9116608
Total Molybdenum (Mo)	ug/L	0.626	0.050	9116608	0.634	0.050	9116608	1.27	0.050	9116608
Total Nickel (Ni)	ug/L	1.12	0.10	9116608	1.03	0.10	9116608	3.85	0.10	9116608
Total Phosphorus (P)	ug/L	<5.0	5.0	9116608	<5.0	5.0	9116608	55.6	5.0	9116608
Total Selenium (Se)	ug/L	0.095	0.040	9116608	0.100	0.040	9116608	0.402	0.040	9116608
Total Silicon (Si)	ug/L	4420	50	9116608	4450	50	9116608	3380	50	9116608
Total Silver (Ag)	ug/L	<0.010	0.010	9116608	<0.010	0.010	9116608	0.041	0.010	9116608
Total Strontium (Sr)	ug/L	105	0.050	9116608	104	0.050	9116608	121	0.050	9116608
Total Thallium (Tl)	ug/L	0.0040	0.0020	9116608	0.0046	0.0020	9116608	0.0142	0.0020	9116608
Total Tin (Sn)	ug/L	<0.20	0.20	9116608	<0.20	0.20	9116608	<0.20	0.20	9116608
Total Titanium (Ti)	ug/L	2.2	2.0	9116608	2.2	2.0	9116608	20.0	2.0	9116608
Total Uranium (U)	ug/L	2.49	0.0050	9116608	2.50	0.0050	9116608	1.02	0.0050	9116608
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B871373
Report Date: 2018/08/31

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		UD4240			UD4240			UD4241		
Sampling Date		2018/08/18 13:05			2018/08/18 13:05			2018/08/20 08:45		
COC Number		562348-01-01			562348-01-01			562348-01-01		
	UNITS	CC-X	RDL	QC Batch	CC-X Lab-Dup	RDL	QC Batch	Coffee Mix	RDL	QC Batch
Total Vanadium (V)	ug/L	0.54	0.20	9116608	0.49	0.20	9116608	2.76	0.20	9116608
Total Zinc (Zn)	ug/L	<1.0	1.0	9116608	<1.0	1.0	9116608	17.5	1.0	9116608
Total Zirconium (Zr)	ug/L	0.55	0.10	9116608	0.58	0.10	9116608	0.25	0.10	9116608
Total Calcium (Ca)	mg/L	19.0	0.25	9114282				24.1	0.25	9114282
Total Magnesium (Mg)	mg/L	6.29	0.25	9114282				6.76	0.25	9114282
Total Potassium (K)	mg/L	1.17	0.25	9114282				1.16	0.25	9114282
Total Sodium (Na)	mg/L	3.11	0.25	9114282				2.00	0.25	9114282
Total Sulphur (S)	mg/L	10.5	3.0	9114282				8.1	3.0	9114282
RDL = Reportable Detection Limit										
Lab-Dup = Laboratory Initiated Duplicate										

Maxxam Job #: B871373
Report Date: 2018/08/31

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		UD4245	UD4246		UD4251	UD4253		
Sampling Date		2018/08/18 14:00	2018/08/19 11:40		2018/08/20 09:30	2018/08/19 16:10		
COC Number		562348-02-01	562348-02-01		562348-02-01	562348-02-01		
	UNITS	LATTE MIX	HC-2.5	QC Batch	HALFWAY MIX	IC-1.5	RDL	QC Batch
Calculated Parameters								
Total Hardness (CaCO3)	mg/L	70.4	89.1	9114271	91.6	52.5	0.50	9114271
Elements								
Total Mercury (Hg)	ug/L	0.0042	0.0033	9118589	0.0039	0.0050	0.0020	9118673
Total Metals by ICPMS								
Total Aluminum (Al)	ug/L	121	109	9116608	586	190	3.0	9116608
Total Antimony (Sb)	ug/L	0.119	0.382	9116608	0.204	0.123	0.020	9116608
Total Arsenic (As)	ug/L	0.507	1.04	9116608	0.968	0.350	0.020	9116608
Total Barium (Ba)	ug/L	39.7	35.2	9116608	67.3	30.5	0.050	9116608
Total Beryllium (Be)	ug/L	<0.010	0.015	9116608	0.036	0.016	0.010	9116608
Total Bismuth (Bi)	ug/L	<0.010	<0.010	9116608	<0.010	<0.010	0.010	9116608
Total Boron (B)	ug/L	<10	<10	9116608	<10	<10	10	9116608
Total Cadmium (Cd)	ug/L	0.0112	0.0060	9116608	0.0989	0.0070	0.0050	9116608
Total Chromium (Cr)	ug/L	0.49	0.41	9116608	1.05	0.48	0.10	9116608
Total Cobalt (Co)	ug/L	0.086	0.068	9116608	0.457	0.069	0.010	9116608
Total Copper (Cu)	ug/L	2.80	1.50	9116608	2.47	1.90	0.10	9116608
Total Iron (Fe)	ug/L	117	88.4	9116608	752	150	5.0	9116608
Total Lead (Pb)	ug/L	<0.020	<0.020	9116608	0.395	0.060	0.020	9116608
Total Lithium (Li)	ug/L	0.73	0.94	9116608	1.61	2.11	0.50	9116608
Total Manganese (Mn)	ug/L	5.05	2.90	9116608	31.6	2.99	0.10	9116608
Total Molybdenum (Mo)	ug/L	0.673	1.20	9116608	1.05	0.274	0.050	9116608
Total Nickel (Ni)	ug/L	1.14	0.69	9116608	2.95	0.87	0.10	9116608
Total Phosphorus (P)	ug/L	<5.0	<5.0	9116608	35.0	<5.0	5.0	9116608
Total Selenium (Se)	ug/L	0.104	0.068	9116608	0.321	0.059	0.040	9116608
Total Silicon (Si)	ug/L	4760	4420	9116608	3930	4810	50	9116608
Total Silver (Ag)	ug/L	<0.010	<0.010	9116608	0.013	<0.010	0.010	9116608
Total Strontium (Sr)	ug/L	97.7	272	9116608	152	87.5	0.050	9116608
Total Thallium (Tl)	ug/L	0.0048	0.0032	9116608	0.0122	0.0040	0.0020	9116608
Total Tin (Sn)	ug/L	<0.20	<0.20	9116608	<0.20	<0.20	0.20	9116608
Total Titanium (Ti)	ug/L	2.4	2.3	9116608	16.7	4.7	2.0	9116608
Total Uranium (U)	ug/L	3.18	22.6	9116608	3.32	1.91	0.0050	9116608
Total Vanadium (V)	ug/L	0.55	0.41	9116608	2.30	0.55	0.20	9116608
RDL = Reportable Detection Limit								

Maxxam Job #: B871373
Report Date: 2018/08/31

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		UD4245	UD4246		UD4251	UD4253		
Sampling Date		2018/08/18 14:00	2018/08/19 11:40		2018/08/20 09:30	2018/08/19 16:10		
COC Number		562348-02-01	562348-02-01		562348-02-01	562348-02-01		
	UNITS	LATTE MIX	HC-2.5	QC Batch	HALFWAY MIX	IC-1.5	RDL	QC Batch
Total Zinc (Zn)	ug/L	<1.0	<1.0	9116608	11.4	<1.0	1.0	9116608
Total Zirconium (Zr)	ug/L	0.60	0.61	9116608	0.47	0.82	0.10	9116608
Total Calcium (Ca)	mg/L	18.2	23.5	9114282	24.8	14.2	0.25	9114282
Total Magnesium (Mg)	mg/L	6.06	7.38	9114282	7.21	4.15	0.25	9114282
Total Potassium (K)	mg/L	1.10	1.70	9114282	1.22	0.85	0.25	9114282
Total Sodium (Na)	mg/L	3.14	2.33	9114282	2.60	2.96	0.25	9114282
Total Sulphur (S)	mg/L	9.9	8.1	9114282	8.7	3.8	3.0	9114282
RDL = Reportable Detection Limit								

Maxxam Job #: B871373
Report Date: 2018/08/31

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		UD4254			UD4258	UD4259	UD4260		
Sampling Date		2018/08/19 16:50			2018/08/19 17:35	2018/08/19 15:20	2018/08/19 15:35		
COC Number		562348-02-01			562348-03-01	562348-03-01	562348-03-01		
	UNITS	IC-2.5	RDL	QC Batch	IC-4.5	ML-A	ML-B	RDL	QC Batch
Calculated Parameters									
Total Hardness (CaCO3)	mg/L				64.0	94.1	61.4	0.50	9114271
Elements									
Total Mercury (Hg)	ug/L				0.0042	0.0071	0.0067	0.0020	9118673
Total Metals by ICPMS									
Total Aluminum (Al)	ug/L	251	3.0	9116608	126	355	990	3.0	9116608
Total Antimony (Sb)	ug/L	0.135	0.020	9116608	0.124	0.287	0.395	0.020	9116608
Total Arsenic (As)	ug/L	1.29	0.020	9116608	0.552	0.946	1.45	0.020	9116608
Total Barium (Ba)	ug/L	15.1	0.050	9116608	34.7	58.5	66.9	0.050	9116608
Total Beryllium (Be)	ug/L	0.032	0.010	9116608	0.019	0.038	0.083	0.010	9116608
Total Bismuth (Bi)	ug/L	<0.010	0.010	9116608	<0.010	<0.010	0.010	0.010	9116608
Total Boron (B)	ug/L	<10	10	9116608	<10	<10	<10	10	9116608
Total Cadmium (Cd)	ug/L	0.0073	0.0050	9116608	0.0119	0.0118	0.0478	0.0050	9116608
Total Chromium (Cr)	ug/L	0.82	0.10	9116608	0.54	0.94	2.16	0.10	9116608
Total Cobalt (Co)	ug/L	0.157	0.010	9116608	0.089	0.384	0.886	0.010	9116608
Total Copper (Cu)	ug/L	2.04	0.10	9116608	2.45	2.76	4.60	0.10	9116608
Total Iron (Fe)	ug/L	483	5.0	9116608	135	606	1570	5.0	9116608
Total Lead (Pb)	ug/L	0.077	0.020	9116608	0.035	0.253	0.794	0.020	9116608
Total Lithium (Li)	ug/L	0.73	0.50	9116608	1.18	0.59	0.74	0.50	9116608
Total Manganese (Mn)	ug/L	9.09	0.10	9116608	6.72	18.6	35.0	0.10	9116608
Total Molybdenum (Mo)	ug/L	0.108	0.050	9116608	0.262	0.546	0.336	0.050	9116608
Total Nickel (Ni)	ug/L	1.10	0.10	9116608	1.30	1.51	2.79	0.10	9116608
Total Phosphorus (P)	ug/L	8.7	5.0	9116608	<5.0	13.2	34.2	5.0	9116608
Total Selenium (Se)	ug/L	0.055	0.040	9116608	0.084	0.073	0.077	0.040	9116608
Total Silicon (Si)	ug/L	5300	50	9116608	4770	4390	5200	50	9116608
Total Silver (Ag)	ug/L	<0.010	0.010	9116608	<0.010	<0.010	0.013	0.010	9116608
Total Strontium (Sr)	ug/L	23.1	0.050	9116608	92.8	165	79.1	0.050	9116608
Total Thallium (Tl)	ug/L	<0.0020	0.0020	9116608	0.0039	0.0041	0.0079	0.0020	9116608
Total Tin (Sn)	ug/L	<0.20	0.20	9116608	<0.20	<0.20	<0.20	0.20	9116608
Total Titanium (Ti)	ug/L	5.1	2.0	9116608	3.9	14.9	41.7	2.0	9116608
Total Uranium (U)	ug/L	0.822	0.0050	9116608	1.20	4.75	3.28	0.0050	9116608
Total Vanadium (V)	ug/L	0.95	0.20	9116608	0.57	1.52	3.92	0.20	9116608
RDL = Reportable Detection Limit									

Maxxam Job #: B871373
Report Date: 2018/08/31

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		UD4254			UD4258	UD4259	UD4260		
Sampling Date		2018/08/19 16:50			2018/08/19 17:35	2018/08/19 15:20	2018/08/19 15:35		
COC Number		562348-02-01			562348-03-01	562348-03-01	562348-03-01		
	UNITS	IC-2.5	RDL	QC Batch	IC-4.5	ML-A	ML-B	RDL	QC Batch
Total Zinc (Zn)	ug/L	<1.0	1.0	9116608	<1.0	1.3	3.9	1.0	9116608
Total Zirconium (Zr)	ug/L	1.43	0.10	9116608	0.81	0.64	0.85	0.10	9116608
Total Calcium (Ca)	mg/L				17.3	25.0	18.0	0.25	9114282
Total Magnesium (Mg)	mg/L				5.02	7.69	3.98	0.25	9114282
Total Potassium (K)	mg/L				1.04	1.13	0.85	0.25	9114282
Total Sodium (Na)	mg/L				2.86	2.65	1.70	0.25	9114282
Total Sulphur (S)	mg/L				8.1	12.3	6.7	3.0	9114282
RDL = Reportable Detection Limit									

Maxxam Job #: B871373
Report Date: 2018/08/31

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		UD4261	UD4262	UD4263	UD4264	UD4278		
Sampling Date		2018/08/19 14:40	2018/08/20 10:50	2018/08/18 12:50	2018/08/21 10:20			
COC Number		562348-03-01	562348-03-01	562348-03-01	562348-03-01	562348-03-01		
	UNITS	ML-1.0 (OR YT-24-1)	YT-24 MIX	YUK-2.0	YUK-5.0	SAMPLE A	RDL	QC Batch
Calculated Parameters								
Total Hardness (CaCO3)	mg/L	98.3	88.6	93.0	89.0	388	0.50	9114271
Elements								
Total Mercury (Hg)	ug/L	0.0069	0.0079	<0.0020	0.0084	<0.0020	0.0020	9118673
Total Metals by ICPMS								
Total Aluminum (Al)	ug/L	72.5	527	910	564	30.0	3.0	9116608
Total Antimony (Sb)	ug/L	0.213	0.213	0.189	0.162	0.163	0.020	9116608
Total Arsenic (As)	ug/L	0.530	0.923	1.07	0.923	0.994	0.020	9116608
Total Barium (Ba)	ug/L	53.4	67.7	81.9	68.2	90.5	0.050	9116608
Total Beryllium (Be)	ug/L	0.017	0.037	0.044	0.028	<0.010	0.010	9116608
Total Bismuth (Bi)	ug/L	<0.010	<0.010	0.011	<0.010	<0.010	0.010	9116608
Total Boron (B)	ug/L	<10	<10	<10	<10	<10	10	9116608
Total Cadmium (Cd)	ug/L	0.0061	0.124	0.171	0.120	<0.0050	0.0050	9116608
Total Chromium (Cr)	ug/L	0.41	0.88	1.55	1.03	0.16	0.10	9116608
Total Cobalt (Co)	ug/L	0.102	0.462	0.708	0.464	0.054	0.010	9116608
Total Copper (Cu)	ug/L	2.09	2.30	2.94	2.14	0.85	0.10	9116608
Total Iron (Fe)	ug/L	78.0	679	1090	708	33.1	5.0	9116608
Total Lead (Pb)	ug/L	0.033	0.427	0.672	0.403	<0.020	0.020	9116608
Total Lithium (Li)	ug/L	<0.50	1.89	2.36	1.96	4.42	0.50	9116608
Total Manganese (Mn)	ug/L	2.71	36.6	49.6	34.9	2.28	0.10	9116608
Total Molybdenum (Mo)	ug/L	0.506	1.20	1.23	1.24	0.305	0.050	9116608
Total Nickel (Ni)	ug/L	0.87	3.07	4.23	3.32	0.54	0.10	9116608
Total Phosphorus (P)	ug/L	<5.0	37.3	41.9	26.0	<5.0	5.0	9116608
Total Selenium (Se)	ug/L	0.083	0.366	0.473	0.398	0.306	0.040	9116608
Total Silicon (Si)	ug/L	3730	3280	3710	3490	4640	50	9116608
Total Silver (Ag)	ug/L	<0.010	0.029	0.021	0.015	<0.010	0.010	9116608
Total Strontium (Sr)	ug/L	164	121	123	120	1060	0.050	9116608
Total Thallium (Tl)	ug/L	0.0031	0.0101	0.0175	0.0115	0.0032	0.0020	9116608
Total Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	9116608
Total Titanium (Ti)	ug/L	2.4	14.0	24.7	20.0	<2.0	2.0	9116608
Total Uranium (U)	ug/L	2.73	1.15	0.966	1.01	27.3	0.0050	9116608
Total Vanadium (V)	ug/L	0.42	1.89	3.37	2.44	<0.20	0.20	9116608
RDL = Reportable Detection Limit								

Maxxam Job #: B871373
Report Date: 2018/08/31

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		UD4261	UD4262	UD4263	UD4264	UD4278		
Sampling Date		2018/08/19 14:40	2018/08/20 10:50	2018/08/18 12:50	2018/08/21 10:20			
COC Number		562348-03-01	562348-03-01	562348-03-01	562348-03-01	562348-03-01		
	UNITS	ML-1.0 (OR YT-24-1)	YT-24 MIX	YUK-2.0	YUK-5.0	SAMPLE A	RDL	QC Batch
Total Zinc (Zn)	ug/L	<1.0	13.2	18.3	12.6	<1.0	1.0	9116608
Total Zirconium (Zr)	ug/L	0.54	0.32	0.47	0.31	<0.10	0.10	9116608
Total Calcium (Ca)	mg/L	27.1	24.2	24.8	24.1	98.1	0.25	9114282
Total Magnesium (Mg)	mg/L	7.44	6.83	7.56	6.99	34.7	0.25	9114282
Total Potassium (K)	mg/L	1.55	0.87	0.96	0.87	4.92	0.25	9114282
Total Sodium (Na)	mg/L	2.86	1.98	1.82	1.87	4.40	0.25	9114282
Total Sulphur (S)	mg/L	14.2	8.1	9.6	8.4	53.8	3.0	9114282
RDL = Reportable Detection Limit								

Maxxam Job #: B871373
Report Date: 2018/08/31

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		UD4279	UD4280		
Sampling Date					
COC Number		562348-04-01	562348-04-01		
	UNITS	SAMPLE B	SAMPLE C	RDL	QC Batch
Calculated Parameters					
Total Hardness (CaCO3)	mg/L	97.7	91.5	0.50	9114271
Elements					
Total Mercury (Hg)	ug/L	0.0039	0.0068	0.0020	9118673
Total Metals by ICPMS					
Total Aluminum (Al)	ug/L	72.8	533	3.0	9116608
Total Antimony (Sb)	ug/L	0.221	0.187	0.020	9116608
Total Arsenic (As)	ug/L	0.502	0.986	0.020	9116608
Total Barium (Ba)	ug/L	53.5	72.7	0.050	9116608
Total Beryllium (Be)	ug/L	0.018	0.030	0.010	9116608
Total Bismuth (Bi)	ug/L	<0.010	<0.010	0.010	9116608
Total Boron (B)	ug/L	<10	<10	10	9116608
Total Cadmium (Cd)	ug/L	<0.0050	0.142	0.0050	9116608
Total Chromium (Cr)	ug/L	0.36	0.94	0.10	9116608
Total Cobalt (Co)	ug/L	0.102	0.538	0.010	9116608
Total Copper (Cu)	ug/L	2.08	2.53	0.10	9116608
Total Iron (Fe)	ug/L	74.6	824	5.0	9116608
Total Lead (Pb)	ug/L	0.032	0.501	0.020	9116608
Total Lithium (Li)	ug/L	<0.50	1.97	0.50	9116608
Total Manganese (Mn)	ug/L	2.80	41.0	0.10	9116608
Total Molybdenum (Mo)	ug/L	0.476	1.14	0.050	9116608
Total Nickel (Ni)	ug/L	0.80	3.34	0.10	9116608
Total Phosphorus (P)	ug/L	<5.0	39.4	5.0	9116608
Total Selenium (Se)	ug/L	0.083	0.344	0.040	9116608
Total Silicon (Si)	ug/L	3770	3510	50	9116608
Total Silver (Ag)	ug/L	<0.010	0.016	0.010	9116608
Total Strontium (Sr)	ug/L	165	137	0.050	9116608
Total Thallium (Tl)	ug/L	0.0022	0.0096	0.0020	9116608
Total Tin (Sn)	ug/L	<0.20	<0.20	0.20	9116608
Total Titanium (Ti)	ug/L	2.2	15.7	2.0	9116608
Total Uranium (U)	ug/L	2.70	1.95	0.0050	9116608
Total Vanadium (V)	ug/L	0.27	2.02	0.20	9116608
RDL = Reportable Detection Limit					

Maxxam Job #: B871373
Report Date: 2018/08/31

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

LL TOTAL METALS (DIGESTED) WITH CV HG

Maxxam ID		UD4279	UD4280		
Sampling Date					
COC Number		562348-04-01	562348-04-01		
	UNITS	SAMPLE B	SAMPLE C	RDL	QC Batch
Total Zinc (Zn)	ug/L	<1.0	14.4	1.0	9116608
Total Zirconium (Zr)	ug/L	0.51	0.23	0.10	9116608
Total Calcium (Ca)	mg/L	26.9	24.9	0.25	9114282
Total Magnesium (Mg)	mg/L	7.44	7.12	0.25	9114282
Total Potassium (K)	mg/L	1.54	0.99	0.25	9114282
Total Sodium (Na)	mg/L	2.83	2.14	0.25	9114282
Total Sulphur (S)	mg/L	14.1	8.4	3.0	9114282
RDL = Reportable Detection Limit					

Maxxam Job #: B871373
Report Date: 2018/08/31

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER

GENERAL COMMENTS

Sample UD4233 [CC-0.5] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate+Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level). Sample received past method specified hold time for Nitrite (N) (low level).

Sample UD4234 [CC-1.0] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample UD4235 [CC-1.5] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample UD4236 [CC-3.5] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate+Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level). Sample received past method specified hold time for Nitrite (N) (low level). Sample received past method specified hold time for Nitrite (N) (low level).

Sample UD4237 [CC-4.5] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate+Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level). Sample received past method specified hold time for Nitrite (N) (low level). Sample received past method specified hold time for Nitrite (N) (low level).

Sample UD4238 [CC-A] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate+Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level). Sample received past method specified hold time for Nitrite (N) (low level). Sample received past method specified hold time for Nitrite (N) (low level).

Sample UD4239 [CC-B] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate+Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level). Sample received past method specified hold time for Nitrite (N) (low level). Sample received past method specified hold time for Nitrite (N) (low level).

Sample UD4240 [CC-X] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate+Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level). Sample received past method specified hold time for Nitrite (N) (low level). Sample received past method specified hold time for Nitrite (N) (low level).

Sample UD4245 [LATTE MIX] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate+Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level). Sample received past method specified hold time for Nitrite (N) (low level). Sample received past method specified hold time for Nitrite (N) (low level).

Sample UD4246 [HC-2.5] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample UD4247 [HC-5.0] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample UD4248 [HC-A] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level).

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Sample UD4249 [HC-B] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample UD4250 [HC-C] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample UD4252 [IC-0.5] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample UD4253 [IC-1.5] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample UD4254 [IC-2.5] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample UD4257 [IC-3.0] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample UD4258 [IC-4.5] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample UD4259 [ML-A] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample UD4260 [ML-B] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample UD4261 [ML-1.0 (OR YT-24-1)] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level).

Sample UD4263 [YUK-2.0] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate+Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level). Sample received past method specified hold time for Nitrite (N) (low level). Sample received past method specified hold time for Nitrite (N) (low level).

Sample UD4281 [FIELD BLANK] : Sample was analyzed past method specified hold time for Nitrate+Nitrite (N) (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample received past method specified hold time for Nitrate+Nitrite (N) (low level). Sample was analyzed past method specified hold time for Nitrite (N) (low level). Sample received past method specified hold time for Nitrite (N) (low level). Sample received past method specified hold time for Nitrite (N) (low level).

Sample UD4249, Elements by ICPMS Low Level (dissolved): Test repeated.

Sample UD4250, Elements by ICPMS Low Level (dissolved): Test repeated.

Results relate only to the items tested.

Maxxam Job #: B871373
Report Date: 2018/08/31

LORAX ENVIRONMENTAL SERVICES LTD.
Client Project #: Gold Corp Coffee Creek-SW
Site Location: COFFEE CREEK - SURFACE WATER



APPENDIX B. PHOTOGRAPHS

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Photo 1. Example of a cascade habitat unit on Latte Creek, August 2018.

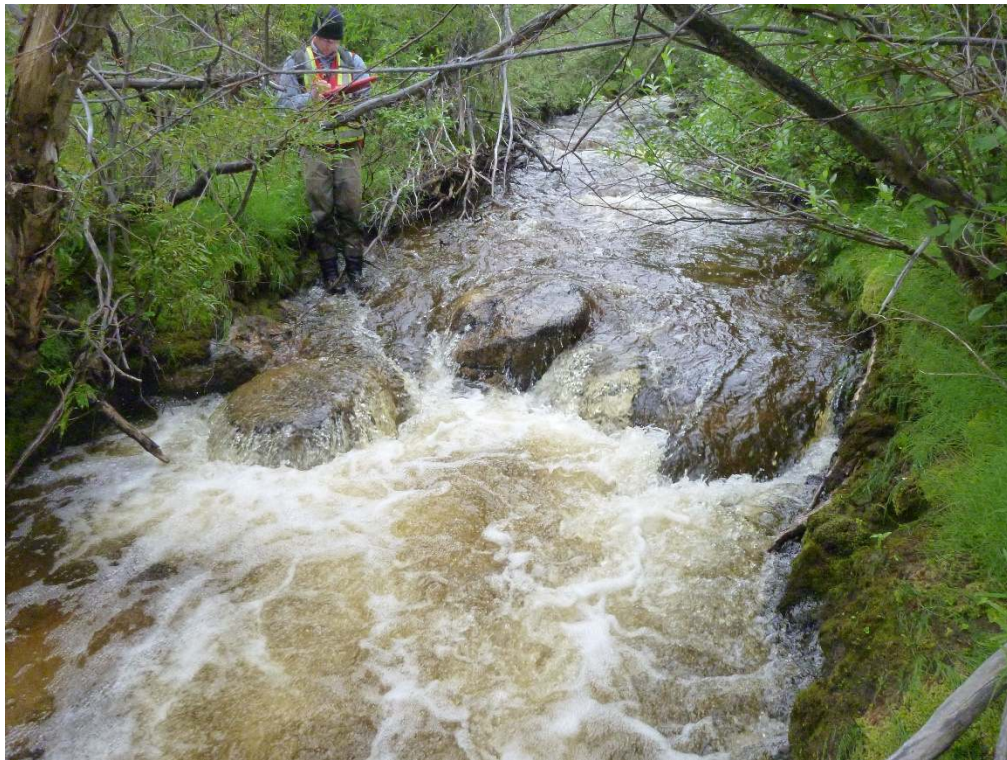


Photo 2. Example of a cascade habitat unit on Latte Creek, August 2018.



Photo 3. Example of a glide habitat unit on Latte Creek, August 2018.



Photo 4. Example of a glide habitat unit on Latte Creek, August 2018.



Photo 5. Example of a pool habitat unit on Latte Creek, August 2018.



Photo 6. Example of pool habitat unit on Latte Creek, August 2018.



Photo 7. Example of riffle habitat unit on Latte Creek, August 2018.

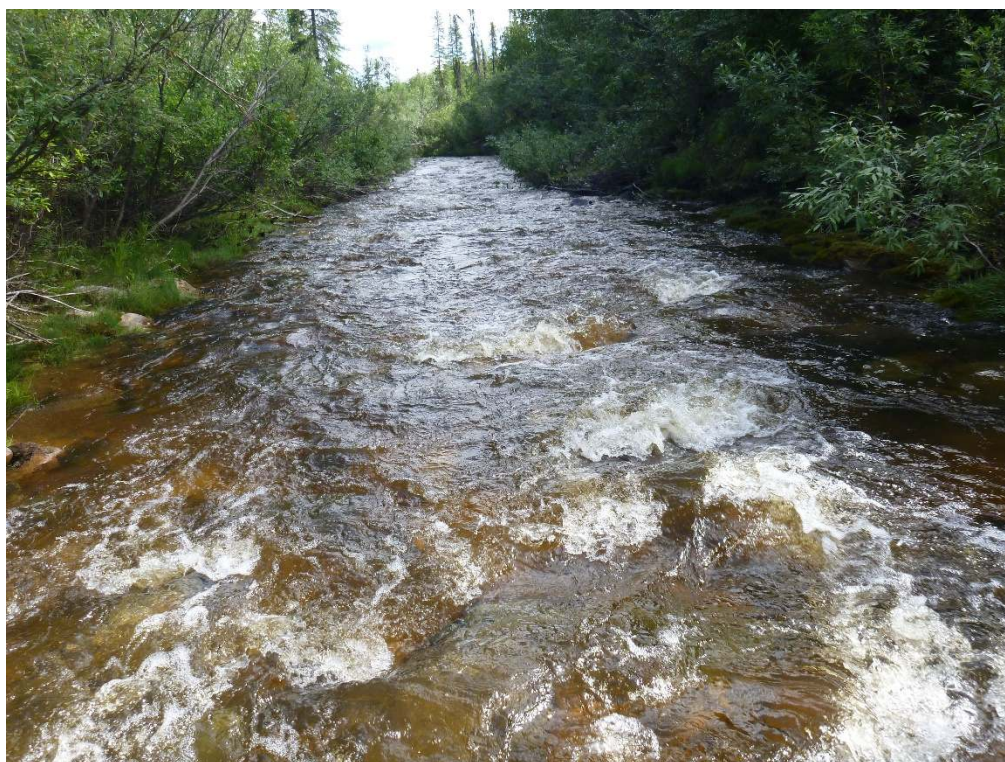


Photo 8. Example of riffle habitat unit on Latte Creek, August 2018.



Photo 9. Example of riffle plus habitat unit on Latte Creek, August 2018.

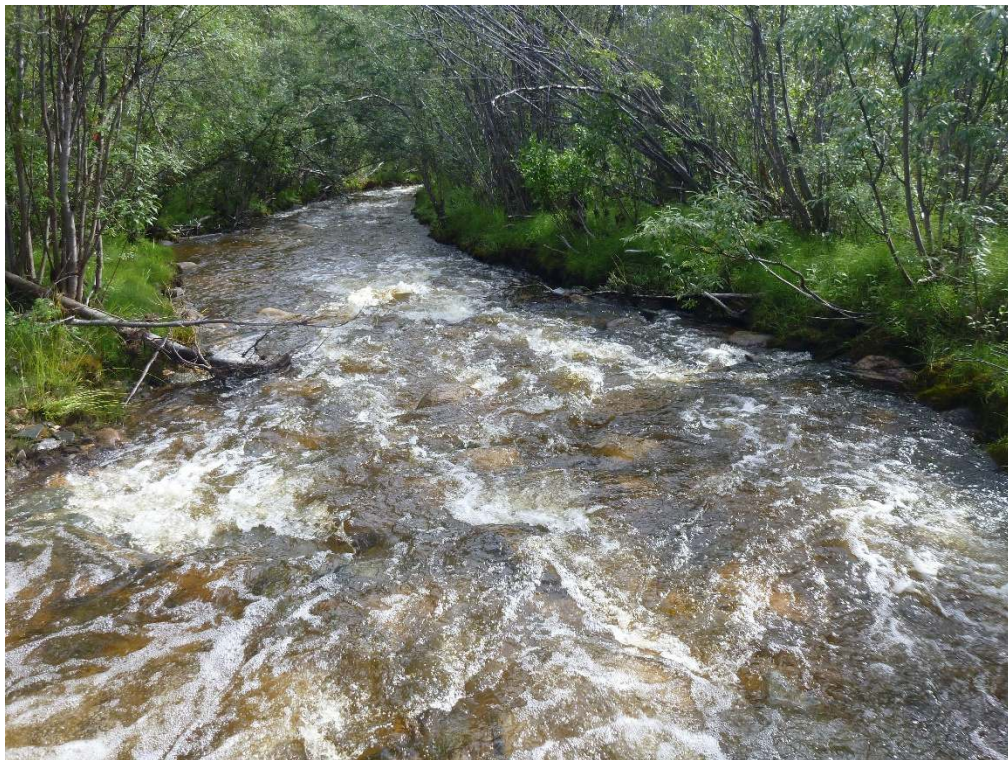


Photo 10. Example of riffle plus habitat unit on Latte Creek, August 2018.