

Yukon Observation Well Network

2017 Report



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Executive Summary

The Yukon Observation Well Network (YOWN) is a groundwater monitoring program operated by the Yukon Government, Department of Environment, Water Resources Branch ("WRB") and is used to monitor groundwater levels and groundwater quality across the territory. The monitoring results are used to help manage groundwater resources, enhance understanding of the key aquifers, evaluate the impact of human activities on groundwater and evaluate long-term groundwater trends due to climate change. The network was formed from the Yukon-wide Long-Term Groundwater Monitoring Program that started in 2001, which focused on short-term and long-term trends in groundwater in areas where infrastructure is present. Under the action items set out in the 2014 Yukon Water Strategy and Action Plan (Government of Yukon), the network was renamed and the project scope broadened to increasing our understanding of groundwater across the territory. The YOWN grew from eight wells in 2013 to 43 wells by the end of 2017. Therefore, the duration of monitoring at each observation well ranges from 16 years to less than one year. This report focuses on groundwater quality results observed in 2017 and also includes manual groundwater level measurements made in 2017.

Groundwater samples are collected from the wells periodically and tested for a variety of parameters, including: general chemistry, major ions, nutrients, total and/or dissolved metals, volatile organic compounds (VOCs) and radiological parameters. A portion of the YOWN wells were sampled for isotopic and dissolved gas analyses for a study completed by the University of Calgary and Natural Sciences and Engineering Research Council of Canada. The study aimed to develop baseline testing methods for potential environmental impacts of oil and gas development.

The groundwater quality results were assessed by comparing the values against both the Guidelines for Canadian Drinking Water Quality (GCDWQ, 2017), which are developed by the Federal-Provincial-Territorial Committee on Drinking Water and have been published by Health Canada since 1968; and the Yukon Contaminated Sites Regulation (CSR, 2002) Generic Numerical Water Standards for the protection of aquatic life (CSR-AW). Please note that the GCDWQ were used for comparison purpose only; the YOWN wells located in Yukon campgrounds provide raw water for campground users, rather than drinking water. None of the YOWN wells should be considered drinking water supply wells.

Laboratory results collected in 2017 are presented in this report.

In 2017, seven wells were observed to contain parameters (one or more of arsenic, lead, uranium and/or zinc) at concentrations that exceeded health-based drinking water guidelines (i.e.



maximum acceptable concentrations) for total metals and the operational guidance value for aluminum. In 2017, ten wells were observed to contain parameters (one or more of iron, manganese, sodium, sulphate and/or total dissolved solids) at concentrations that exceeded aesthetic objectives.

One well contained nutrients (ammonium nitrogen and nitrate nitrogen) and dissolved sulphate at concentrations exceeding the CSR-AW and one well contained fluoride at a concentration that exceeded the CSR-AW.

Radiological parameters (lead, radium and uranium) exceeding the CDWQ guidelines were reported in two wells.

The analytical results for the remaining parameters, including dissolved metals and total petroleum hydrocarbons, were within acceptable limits for both CDWQ guidelines and CSR-AW.

WRB has commenced deployment of dataloggers to monitor groundwater level, temperature, and, for select wells, electrical conductivity at a high frequency. However, the data generated from these loggers is not reported herein. WRB is currently developing a process for managing, validating, interpreting, and reporting on these data and intends to publish them in a future report.

Please direct any questions or data requests related to this report to <u>water.resources@gov.yk.ca</u>



Acknowledgements

We are indebted to the late Ric Janowicz, who created the Yukon-wide Long Term Groundwater Monitoring Program in 2001, and to John Miller, who evolved and expanded that program to become the Yukon Observation Well Network (YOWN). This report and the operation of the YOWN have benefited from the valuable input of many organizations. In particular, we gratefully acknowledge the contributions of Yukon Parks Branch. Use of their abandoned wells and their insight into the history of the wells have been immensely valuable for the expansion of the YOWN. We also gratefully acknowledge the Department of Geoscience at University of Calgary for conducting isotopic and dissolved gas analyses for the network and including our wells in an environmental baseline study. In addition, the Champagne and Aishihik First Nations (CAFN), White River First Nation (WRFN), Northern Cross and EFLO Energy Yukon Ltd., City of Whitehorse and Government of Yukon Community Services have made significant contributions to the expansion and operation of the YOWN.



List of Abbreviations

- AO Aesthetic Objective
- bgs Below Ground Surface
- BTEX Benzene, Toluene, Ethylbenzene, Xylene
- CAFN Champagne and Aishihik First Nations
- CDWQ Canadian Drinking Water Quality
- CSR Yukon Contaminated Sites Regulation
- CSR-AW Numerical Water Standards for the protection of aquatic life
- DIC Dissolved Inorganic Carbon
- DOC Dissolved Organic Carbon
- GCDWQ Guidelines for Canadian Drinking Water Quality
- MAC Maximum Acceptable Concentration
- m bTOC Meters Below Top of Casing
- NSERC Natural Sciences and Engineering Research Council
- OG Operational Guidance
- PAH Polycyclic Aromatic Hydrocarbons
- TDS Total Dissolved Solids
- TIC Total Inorganic Carbon
- TOC Top of Casing
- TOC Total Organic Carbon
- TSS Total Suspended Solids
- VH Volatile Hydrocarbons
- VPH Volatile Petroleum Hydrocarbons
- VOCs Volatile Organic Compounds
- WRB Water Resources Branch (Government of Yukon)
- WRFN White River First Nation
- YG Government of Yukon
- YOWN Yukon Observation Well Network
- YP Yukon Parks
- YWWR Yukon Water Well Registry



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1. Introduction

1.1 Overview

Groundwater is an essential source of water in the Yukon with approximately 97% of Yukoners relying on this resource for their domestic needs. Understanding the Yukon's groundwater systems and how they are likely to change over time contributes to responsible management of these resources. The Yukon Observation Well Network (YOWN) was created in response to the 2014 Yukon Water Strategy and Action Plan, which called for a formalized groundwater monitoring program and an improved understanding of groundwater across the territory.

The network was adapted from the Yukon-wide Long Term Groundwater Monitoring Program, which began in 2001 with the installation of one observation well in the Wolf Creek drainage basin. Four more observation wells were added to the program in 2008; two within the Whitehorse city limits, one in Dawson, and one in Faro. The objective of the added wells was to collect information on both short-term and long-term trends in groundwater in areas where there is pre-existing infrastructure (country residential subdivisions). The program was renamed the YOWN in 2014 when a formal groundwater program was added to the Water Resources Branch (WRB) and the network objective expanded to include the understanding of groundwater across the territory. The YOWN grew from eight wells in 2013 to 43 wells by the end of 2017.

The YOWN is operated by Government of Yukon (YG), Department of Environment, WRB and is used to monitor groundwater levels and groundwater quality across the territory. The monitoring results are used to help manage groundwater resources (i.e. drinking water), enhance understanding of the key aquifers, evaluate the impact of human activities on groundwater, and evaluate long-term groundwater trends due to climate change. This annual report presents groundwater quality results and manual measurements of groundwater level to the end of 2017.

1.2 Activities completed in 2017

Six wells were added to the YOWN in 2017 (numbers 38-43 in **Table 1.1**, page A-4). Two of the new wells were previously used for water supply at YG campgrounds and, being deemed suitable for groundwater monitoring purposes, were converted to observation wells; three wells were drilled by WRB in partnership with Champagne and Aishihik First Nations; and one well was drilled by WRB in partnership with Yukon College.



Each of the wells in the YOWN was visited on an approximate six-month basis. During these site visits, the condition of the well was visually assessed, datalogger data were downloaded, and manual water level measurements were conducted. In addition to these routine activities, water quality sampling was carried out in 2017 at the wells shown in Table 5.1.

1.3 Description of current network

As of December 31, 2017 the YOWN consisted of 43 observation wells. These wells are listed below in **Table 1.1** and the well locations are shown in **Figure 1.1**. The wells are listed in the order they were added to the YOWN.

Where applicable, observation wells in the network were named according to the campground in which they are located. All other observation wells are named after the nearest town except for the wells located in Whitehorse, which are named after the nearest street or subdivision. The majority of the wells in the YOWN were pre-existing for other purposes and were acquired by WRB for the YOWN. Consequently, there is limited information on these wells including well logs or installation dates. Therefore, wells were assigned four-digit site codes based on when they were added to the network. The first two digits of the code are based on the year the well was added to the YOWN and the final two digits are based on the order in which the well was added in that year. For example, Dawson Well (YOWN-0803) is located in Dawson City, and was the third well added to the YOWN in 2008.

YOWN-1601 was added and removed within the year. This well is located on private property and was removed due to limitations associated with accessing it.

Information on Yukon wells was retrieved from the Yukon Water Well Registry (YWWR) where applicable. The YWWR was established by YG and is a database and map of borehole logs and hydrogeological information in the territory.

A total of 32 wells in the network are instrumented with dataloggers that measure water level and temperature; twenty-eight of these loggers also measure specific conductance (see Table 5.1). Nine observation wells are actively being used to supply raw water in Yukon Parks (YP) campgrounds; therefore, they are not instrumented and are used for water quality monitoring only. One well is flowing artesian and is capped (Tagish Campground); one well is used by the Yukon College and is not instrumented by WRB.

One of the six wells added to the network in 2017 has not yet been sampled (YOWN-1706 at Yukon College).



| No. | Well code | Well name | Years |
|-----|------------|--|-----------|
| | | | monitored |
| 1 | YOWN-0101 | Wolf Creek Well | 16 |
| 2 | YOWN-0801 | Whitehorse Copper Well | 9 |
| 3 | YOWN-0802 | Faro Well | 9 |
| 4 | YOWN-0803 | Dawson Well | 9 |
| 5 | YOWN-0804 | Selkirk Well | 9 |
| 6 | YOWN-0805 | Watson Lake Well | 9 |
| 7 | YOWN-1101 | McRae Creeks Well | 5 |
| 8 | YOWN-1301 | Beaver Creek Well | 4 |
| 9 | YOWN-1401 | Eagle Plains Well | 3 |
| 10 | YOWN-1501 | Marsh Lake Recreation Site Well | 2 |
| 11 | YOWN-1502 | Marsh Lake Campground Well | 2 |
| 12 | YOWN-1503 | Champagne Well (CAFN-GW-1) | 2 |
| 13 | YOWN-1504 | Grizzly Valley Well | 2 |
| 14 | YOWN-1505 | Deep Creek Well | 2 |
| 15 | YOWN-1506 | Million Dollar Falls Campground Well | 2 |
| 16 | YOWN-1507 | Kotaneelee Gas Plant Well | 2 |
| 17 | YOWN-1508 | Nahanni Range Road Campground Well | 2 |
| 18 | YOWN-1509 | Simpson Lake Campground Well #1 | 2 |
| 19 | YOWN-1510 | Simpson Lake Campground Well #2 | 2 |
| 20 | YOWN-1511 | Watson Lake Campground Well #1 | 2 |
| 21 | YOWN-1512 | Watson Lake Campground Well #2 | 2 |
| 22 | YOWN-1513 | Big Creek Campground Well | 2 |
| 23 | YOWN-1514 | Kusawa Campground Well #1 | 2 |
| 24 | YOWN-1515 | Kusawa Campground Well #2 | 2 |
| 25 | YOWN-1602 | Faro Observation Well | 1 |
| 26 | YOWN-1603 | Johnson Lake Campground Well | 1 |
| 27 | YOWN-1604 | Pine Lake Campground Well | 1 |
| 28 | YOWN-1605 | Pine Lake Day Use Well | 1 |
| 29 | YOWN-1606 | Snag Campground Well | 1 |
| 30 | YOWN-1607 | Lake Creek Campground Well | 1 |
| 31 | YOWN-1608 | Klondike Campground Well | 1 |
| 32 | YOWN-1609 | Yukon River Campground Well | 1 |
| 33 | YOWN-1610 | Judas Creek Campground Well | 1 |
| 34 | YOWN-1611 | Tagish Campground Well | 1 |
| 35 | YOWN-1612 | Morely Lake Rec. Site Well | 1 |
| 36 | YOWN-1613 | Watson Lake Campground Well #3 | 1 |
| 37 | YOWN-1614 | Wellgreen Mill Well | 1 |
| 38 | YOWN- 1701 | Johnson Lake Campground Well #2 | 0 |
| 39 | YOWN- 1702 | Congdon Creek Campground Well #3 | 0 |
| 40 | YOWN- 1703 | Champagne & Aishihik First Nation (CAFN) MW-01 | 0 |
| 41 | YOWN- 1704 | CAFN MW-02 | 0 |
| 42 | YOWN- 1705 | CAFN MW-03 | 0 |
| 43 | YOWN- 1706 | Yukon College Well #1 | 0 |

Table 1.1: Wells included in YOWN (as of December 31, 2017).





Figure 1.1: YOWN well locations as of December 31, 2017.



2. Methods

2.1 Groundwater quality monitoring

Field methods

Groundwater samples were generally collected using a Grundfos RediFlo2 submersible pump. Exceptions include the Dawson and Eagle Plains Wells, which were sampled using Waterra tubing and D-25 foot-valves (because the well casing setup at those wells did not allow deployment of the Grundfos submersible pump) and active campground drinking water wells, which were sampled using the existing hand pump. The Hydra-sleeve sampling technique was used at the Deep Creek, Grizzly Valley, Whitehorse Copper and Marsh lake Campground wells, due to equipment (generator) failure at the time of the sampling event.

Prior to collecting the samples, each well was purged by removing three well volumes or by purging until in situ parameters became stable. Temperature, pH, electrical conductivity, oxidation reduction potential, and dissolved oxygen concentration were measured after every 20 L purged using an YSI[™] multi-parameter water quality Sonde to identify if parameters were stabilizing.

When groundwater volume allowed for sampling, samples were collected and placed in laboratory supplied bottles and stored in an ice-chilled cooler until delivered to the lab within the specified holding times. Samples were submitted to the laboratory accompanied by chains of custody. Samples for dissolved constituent analysis (i.e. dissolved metals and dissolved organic carbon) were filtered in the field. Following filtration, the samples were preserved as per laboratory specifications. Nutrient samples were preserved with sulphuric acid; total and dissolved organic carbon (TOC/DOC), and total and dissolved mercury samples were preserved with hydrochloric acid; total and dissolved metals, and radiological parameter samples were preserved with nitric acid; benzene, toluene, ethylbenzene, xylene [BTEX] and styrene, volatile hydrocarbons [VH] and volatile petroleum hydrocarbons [VPH] vials were preserved with sodium bisulphate; and polycyclic aromatic hydrocarbons [PAH] samples were preserved with sodium azide. Exova Laboratory of Surrey, BC, conducted the YOWN water quality assays.

Samples were analyzed for the following analytes:

• Conventional parameters: pH, specific conductivity, hardness, alkalinity, total dissolved solids (TDS), total suspended solids (TSS), TOC, DOC, total inorganic carbon (TIC), and dissolved inorganic carbon (DIC);



- Major ions: bicarbonate, bromide, calcium, carbonate, chloride, fluoride, hydroxide, magnesium, potassium, sodium, and sulphate;
- Nutrients: nitrate, nitrite, nitrate+nitrite, total ammonia, total Kjeldahl nitrogen, total nitrogen, total phosphorus, dissolved phosphorus, and dissolved phosphorus as phosphate;
- Total and dissolved metals;
- Volatile organic hydrocarbons: (BTEX, VH and VPH) and PAHs;
- Radiological parameters (actinium228, bismuth212, bismuth214, lead210, lead211, lead212, lead214, potassium40, radium223, radium226, radium228, radon219, thallium208, thorium227, thorium228, thorium230, thorium234, and uranium235);
- Environmental isotopes (carbon-13 in dissolved inorganic carbon, oxygen-18 in sulphate, oxygen-18 and deuterium in water, and sulphur-34 in sulphate); and
- Dissolved gases: oxygen, nitrogen, methane, ethane, propane and higher n-alkanes

Samples for isotopic and dissolved gas analysis were collected starting in March 2015. These samples were used in a Natural Sciences and Engineering Research Council of Canada (NSERC) funded study through the University of Calgary to develop baseline testing approaches for assessing potential environmental impacts of oil and gas development.

Data assessment

Results collected in 2017 are included in this report.

The groundwater quality results were assessed by comparing the values against both the Guidelines for Canadian Drinking Water Quality (GCDWQ, 2017), which are developed by the Federal-Provincial-Territorial Committee on Drinking Water and have been published by Health Canada since 1968; and the Yukon Contaminated Sites Regulation (CSR, 2002) Generic Numerical Water Standards for the protection of Aquatic Life (CSR-AW). Guidelines for chemical and physical parameters listed in the GCDWQ are health-based and listed as maximum acceptable concentrations (MAC), aesthetics-based and listed as operational guidance values (OG). Aesthetic quality guidelines address parameters which may affect consumer acceptance of drinking water, such as taste, colour and odour. Operational guidance values are outlined for aluminum only and apply to treatment plants using aluminum-based coagulants. A summary of the laboratory analytical results is presented in **Appendix A**, attached to this report, where results exceeding GDCWQ guidelines are bolded and results exceeding Yukon CSR-AW are underlined *Italic* font. Standards that are dependent on toxicity-modifying factors (such as pH, hardness, chloride content, etc.) are marked as an asterisk.



A summary of the field data measurements, including depth to groundwater, total well depth, well casing stickup (the portion of the well casing that extends above the ground surface), groundwater temperature, dissolved oxygen concentrations, specific conductance, pH, oxidation-reduction potential, and turbidity, is attached to this report in **Appendix B**.

Borehole logs are presented in **Appendix C** and laboratory certificates of analysis are included in **Appendix D**.

2.2 Groundwater level monitoring

Field methods

The wells are visited approximately every six months to visually assess the well condition and to conduct manual water level measurements. Manual water level measurements are conducted during site visits using an electronic water level meter.

WRB has commenced deployment of dataloggers to monitor groundwater level, temperature, and, for select wells, electrical conductivity at a high frequency. However, the data generated from these loggers is not reported herein. WRB is currently developing a process for managing, validating, interpreting, and reporting on these data and intends to publish them in a future report.

Groundwater level and temperature measurements are currently monitored using Solinst[™] Leveloggers. The monitoring wells are equipped with a Levelogger installed within the water column. These self-contained dataloggers use a temperature sensor and pressure transducer to record the water level and temperature at defined time intervals. Most wells have been upgraded to the Levelogger Edge 3001, which also records electrical conductivity. Efforts were made to equip all wells with loggers capable of measuring conductivity and direct-read cables. Direct-read cables are used on Leveloggers to allow for data download without removing or disturbing the data loggers, which increases both the accuracy and consistency of the data obtained.

Solinst[™] Barologgers are installed above the water surface in wells and measure atmospheric pressure to allow for the Levelogger calculations to be adjusted to account for atmospheric pressure fluctuations. One Barologger can be used to compensate all Leveloggers in a 30 km radius and/or with every 300 m change in elevation.



3. Yukon Observation Well Network Summary

3.1 YOWN-0101

| Well Name: Wolf Creek Well | UTM Zone: 8 |
|---|-------------------------------|
| Well Log Available: Yes | Easting (m): 502041 |
| Yukon Water Well Registry ID: 204100382 | Northing (m): 6719006 |
| Well Depth (m bTOC): 48.8 | Aquifer Material: Basalt |
| Well Diameter (cm): 15.24 | Year Monitoring Started: 2001 |

Well Description: The Wolf Creek well was installed on April 1, 2001 by Midnight Sun Drilling Company Limited. The well is located on Dawson Road in the Wolf Creek subdivision, approximately 14 km south of downtown Whitehorse. It is an open-hole observation well with an estimated production capacity of 0.6 L/s (Driller's Log).

The well is installed in basalt, similar to the McRae Creeks well (YOWN-1101), located approximately 2.4 km to the west, and the Whitehorse Copper well (YOWN-0801), located approximately 2.8 km to the northwest.

| Data Available: | Dates: | Comments: |
|----------------------------|---------------------|---------------------|
| Continuous Water Level and | May 2001 - Present | |
| Temperature | | |
| Continuous Conductivity | June 2015 - Present | |
| Laboratory Analytical Data | 10-Jun-2015 | Not sampled in 2017 |





3.2 YOWN-0801

| Well Name: Whitehorse Copper Well | UTM Zone: 8 |
|---|-------------------------------|
| Well Log Available: Yes | Easting (m): 499520 |
| Yukon Water Well Registry ID: 204110124 | Northing (m): 6720685 |
| Well Depth (m bTOC): 27.4 | Aquifer Material: Basalt |
| Well Diameter (cm): 15.24 | Year Monitoring Started: 2008 |

Well Description: The Whitehorse Copper well was instrumented in 2008. The well is located on Serac Court in the Whitehorse Copper subdivision, approximately 11 km from downtown Whitehorse. The well is located in close proximity to active residential groundwater wells and therefore the aquifer levels are anticipated to be influenced by local groundwater use.

The well is installed in basalt, similar to the McRae Creeks well (YOWN-1101), located approximately 1.7 km to the southwest, and the Wolf Creek well (YOWN-0101), located approximately 2.9 km to the southeast.

| Data Available: | Dates: | Comments |
|----------------------------|--------------------|--------------------------------------|
| Continuous Water Level and | Mar 2008 – Present | Gaps: Dec 2008-April 2009, Jan 2010- |
| Temperature | | Nov 2010, Mar 2011-May 2011, Dec |
| | | 2012-July 2013 |
| Continuous Conductivity | N/A | |
| Laboratory Analytical Data | 12-Jun-2015 | Not sampled in 2017 |





3.3 YOWN-0802

| Well Name: Faro Well | UTM Zone: 8 |
|-----------------------------------|-------------------------------|
| Well Log Available: No | Easting (m): 584759 |
| Yukon Water Well Registry ID: N/A | Northing (m): 6899941 |
| Well Depth (m bTOC): 9.02 | Aquifer Material: Unknown |
| Well Diameter (cm): 15.24 | Year Monitoring Started: 2008 |

Well Description: The Faro Well is located approximately six km south of the town of Faro, near the community water supply wells.

There is no stratigraphic information for this well. The closest YOWN well is Johnson Lake Campground Well-2 (YOWN-1701), which is installed in a gravel/sand unit overlaying bedrock. YOWN-1701 is located approximately 1.6 km to the south.

| Data Available: | Dates: | Comments |
|----------------------------|--------------------------|------------------------------------|
| Continuous Water Level and | Mar 2008 - Present | Gaps: Dec 2008-Feb 2009, Feb 2010- |
| Temperature | | Feb 2011, Apr 2012-Jun 2012 |
| Continuous Conductivity | May 2015 - Present | |
| Laboratory Analytical Data | 20-May-2016; 02-Oct-2017 | |





3.4 YOWN-0803

| Well Name: Dawson Well | UTM Zone: 7 |
|-----------------------------------|-------------------------------|
| Well Log Available: No | Easting (m): 576185 |
| Yukon Water Well Registry ID: N/A | Northing (m): 7104243 |
| Well Depth (m bTOC): 9.61 | Aquifer Material: Unknown |
| Well Diameter (cm): 15.24 | Year Monitoring Started: 2008 |

Well Description: The Dawson Well is located at the Dawson Waste Water Treatment Plant in Dawson City, Yukon.

There is no information on stratigraphy and well screen installation for this monitoring well.

| Data Available: | Dates: | Comments |
|----------------------------|--------------------|------------------------------------|
| Continuous Water Level and | March 2008-Present | Gaps: Dec 2008-Apr 2009, Jan 2010- |
| Temperature | | May 2011, Jul 2013-Aug 2013 |
| Continuous Conductivity | May 2015-Present | |
| Laboratory Analytical Data | 19-April-2016 | Not sampled in 2017 |





3.5 YOWN-0804

| Well Name: Selkirk Well | UTM Zone: 8 |
|---|---------------------------------|
| Well Log Available: Yes | Easting (m): 576185 |
| Yukon Water Well Registry ID: 204110174 | Northing (m): 7104243 |
| Well Depth (m bTOC): 63.1 | Aquifer Material: Gravelly Sand |
| Well Diameter (cm): 16.83 | Year Monitoring Started: 2008 |

Well Description: The Selkirk well was installed on October 10, 1997 by Midnight Sun Drilling Company Limited. The well is situated in Riverdale, near the end of Selkirk Street. The well can be found 100 m off the road, with an orange pipe extending two meters from the top in order to be identified in the foliage. The City of Whitehorse also uses this well in their groundwater monitoring program.

Stratigraphic information for other monitoring wells installed in this area is not currently available.

| Data Available: | Dates: | Comments: |
|----------------------------|--------------------|------------------------------------|
| Continuous Water Level and | June 2008- Present | Gaps: Apr 2009-Nov 2009, Mar 2011- |
| Temperature | | Jan 2012, May 2012- Jun 2012, Dec |
| | | 2015-Jan 2016, Aug 2016-Dec 2016 |
| Continuous Conductivity | N/A | |
| Laboratory Analytical Data | N/A | Not sampled in 2017 |





3.6 YOWN-0805

| Well Name: Watson Lake Well | UTM Zone: 4 |
|---|-------------------------------|
| Well Log Available: Yes | Easting (m): 516875 |
| Yukon Water Well Registry ID: 201020003 | Northing (m): 6658980 |
| Well Depth (m bTOC): 12.20 | Aquifer Material: Unknown |
| Well Diameter (cm): 11.40 | Year Monitoring Started: 2008 |

Well Description: The Watson Lake well was installed in 1963 on 6th St North in Watson Lake. The well is located near Lot 6, block 22 at Watson Lake Way.

There is no information on borehole stratigraphy, only well screen installation details. Watson Lake Campground well #2 (YOWN-1512), located approximately 7.2 km to the northwest, is installed in a clay/silt/gravel unit.

| Data Available: | Dates: | Comments: |
|----------------------------|------------------|-----------|
| Continuous Water Level and | Oct 2011-Present | |
| Temperature | | |
| Continuous Conductivity | May 2015-Present | |
| Laboratory Analytical Data | 29-Aug-2017 | |





3.7 YOWN-1101

| Well Name: McRae Creeks Well | UTM Zone: 8 |
|---|-----------------------------------|
| Well Log Available: Yes | Easting (m): 499626 |
| Yukon Water Well Registry ID: 204110124 | Northing (m): 6718968 |
| Well Depth (m bTOC): 33.5 | Aquifer Material: Till and Basalt |
| Well Diameter (cm): 15.24 | Year Monitoring Started: 2011 |

Well Description: The McRae Creeks Well is located 1 km west of the Wolf Creek subdivision. The well was originally drilled by Midnight Sun Drilling in 1977 for Golder Associates. The well has an estimated production rate of 0.75 L/s.

The well is installed in basalt, similar to the Whitehorse Copper well (YOWN-0801), located approximately 1.7 km to the northeast, and the Wolf Creek well (YOWN-0101), located approximately 2.4 km to the east.

| Data Available: | Dates: | Comments |
|----------------------------|------------------|----------|
| Continuous Water Level and | Jun 2011-Present | |
| Temperature | | |
| Continuous Conductivity | N/A | |
| Laboratory Analytical Data | 17-Oct-2017 | |





3.8 YOWN-1301

| Well Name: Beaver Creek Well | UTM Zone: 7 |
|-----------------------------------|-------------------------------|
| Well Log Available: No | Easting (m): 506153 |
| Yukon Water Well Registry ID: N/A | Northing (m): 6916405 |
| Well Depth (m bTOC): 17.15 | Aquifer Material: Unknown |
| Well Diameter (cm): 15.24 | Year Monitoring Started: 2013 |

Well Description: The Beaver Creek well is located behind the Mary Jane Blair Keteneje Wellness Center in Beaver Creek, Yukon. This well was previously used by the White River First Nation until the well was transferred to YG.

There is no information on stratigraphy and well screen installation for this monitoring well and no other YOWN wells are located in this area.

| Data Available: | Dates: | Comments: |
|----------------------------|------------------|-----------|
| Continuous Water Level and | Oct 2013-Present | |
| Temperature | | |
| Continuous Conductivity | Oct 2014-Present | |
| Laboratory Analytical Data | 11-Oct-2017 | |





3.9 YOWN-1401

| Well Name: Eagle Plains Well | UTM Zone: 8 |
|---|-------------------------------|
| Well Log Available: Yes | Easting (m): 398625 |
| Yukon Water Well Registry ID: 809030001 | Northing (m): 7335447 |
| Well Depth (m bTOC): 45.00 | Aquifer Material: Clay |
| Well Diameter (cm): 15.24 | Year Monitoring Started: 2014 |

Well Description: The Eagle Plains well was installed on October 23, 2011 in the Northern Cross Camp on the Dempster Highway, km 325.

The well is an open hole with no screen and is installed in bedrock, which was encountered at 3.9 m bgs. No other YOWN monitoring wells are located in this area.

| Data Available: | Dates: | Comments: |
|----------------------------|---------------------------|-----------|
| Continuous Water Level and | Mar 2014-Present | |
| Temperature | | |
| Continuous Conductivity | Mar 2014-Present | |
| Laboratory Analytical Data | 28-Aug-2013, 18-Mar-2016, | |
| | 22-Sep-2016; 5-Mar-2017; | |
| | 21-Sep-2017 | |





3.10 YOWN-1501

| Well Name: Marsh Lake Recreation Site Well | UTM Zone: 8 |
|--|-------------------------------|
| Well Log Available: No | Easting (m): 530165 |
| Yukon Water Well Registry ID: N/A | Northing (m): 6713778 |
| Well Depth (m bTOC): 2.46 | Aquifer Material: Unknown |
| Well Diameter (cm): 15.24 | Year Monitoring Started: 2015 |

Well Description: The Marsh Lake Recreation Site well is located in the Marsh Lake Campground day use area. The well was drilled in 1980 by Midnight Sun Drilling Company Ltd. The well was added to the YOWN program in 2015 by converting an existing water well to a groundwater monitoring well. The well appears to be silted based on the shallow depth and limited volume of groundwater.

| Data Available: | Dates: | Comments: |
|----------------------------|--------------------|---------------------|
| Continuous Water Level and | Nov 2016 – Present | |
| Temperature | | |
| Continuous Conductivity | N/A | |
| Laboratory Analytical Data | N/A | Not sampled in 2017 |





3.11 YOWN-1502

| Well Name: Marsh Lake Campground Well | UTM Zone: 8 |
|---|------------------------------------|
| Well Log Available: Yes | Easting (m): 530423 |
| Yukon Water Well Registry ID: 204090019 | Northing (m): 6713679 |
| Well Depth (m bTOC): 52.86 | Aquifer Material: Till - Clay/Silt |
| Well Diameter (cm): 15.24 | Year Monitoring Started: 2015 |

Well Description: The Marsh Lake Campground well is located in the campground across from a cooking shelter and beside a wood storage box. This well was installed on March 6, 1980 by Midnight Sun Drilling Company Limited and has an estimated production rate of 0.76 L/s.

The soil stratigraphy consist of cobbles, gravel and clay. The well appears to be installed in clay, as an open hole. Field well depth measurements (52.8 m bTOC) do not match the borehole log information (101.8 m bTOC), suggesting that the well walls have sloughed.

| Data Available: | Dates: | Comments: |
|----------------------------|--------------------|-----------|
| Continuous Water Level and | Jul 2015 – Present | |
| Temperature | | |
| Continuous Conductivity | Jul 2015 – Present | |
| Laboratory Analytical Data | 26-Oct-2017 | |





3.12 YOWN-1503

| Well Name: Champagne Well | UTM Zone: 8 |
|-----------------------------------|-------------------------------|
| Well Log Available: No | Easting (m): 419537 |
| Yukon Water Well Registry ID: N/A | Northing (m): 6739581 |
| Well Depth (m bTOC): 17.90 | Aquifer Material: Unknown |
| Well Diameter (cm): 15.24 | Year Monitoring Started: 2015 |

Well Description: The Champagne well is located in the village of Champagne near the community center and playground. This well is fitted with a custom cap due its semi-circle shape at the top of the casing.

Monitoring wells YOWN-1703, YOWN-1704 and YOWN-1705 are located approximately 1.7 km to the south and installed to similar depth; these wells are installed in a coarse sand and gravel unit.

| Data Available: | Dates: | Comments: |
|----------------------------|--------------------------|---------------------|
| Continuous Water Level and | Mar 2015-Present | |
| Temperature | | |
| Continuous Conductivity | Jul 2016-Present | |
| Laboratory Analytical Data | 17-Mar-2015, 27-Jul-2016 | Not sampled in 2017 |





3.13 YOWN-1504

| Well Name: Grizzly Valley | UTM Zone: 8 |
|---|-------------------------------|
| Well Log Available: Yes | Easting (m): 487803 |
| Yukon Water Well Registry ID: 204140384 | Northing (m): 6768194 |
| Well Depth (m bTOC): 101.50 | Aquifer Material: Bedrock |
| Well Diameter (cm): 15.24 | Year Monitoring Started: 2015 |

Well Description: The Grizzly Valley well was drilled on August 31, 2012 by Double D Drilling of Terrace, BC. The well is located at the entrance to the Grizzly Lake subdivision in the Takhini Valley region. The hydraulic conductivity was reported to be 2.8×10^{-5} m/s.

The well was drilled in an attempt to select a suitable site for a bulk truck fill station to supply residents of the Ta'an Kwäch'än Council, Horse Creek, Grizzly Valley and Deep Creak areas. The water quality at this well was deemed unsuitable for domestic purposes due to hardness and exceedances of aesthetic objectives. The well was abandoned and later acquired by Water Resource Branch of Environment Yukon.

| Data Available: | Dates: | Comments: |
|----------------------------|--------------------------|------------------------|
| Continuous Water Level and | Mar 2015-Present | Gap: Oct 2015-Nov 2015 |
| Temperature | | |
| Continuous Conductivity | July 2016-Present | |
| Laboratory Analytical Data | 20-Sep-2012; 02-Nov-2017 | |





3.14 YOWN-1505

| Well Name: Deep Creek Well | UTM Zone: 8 |
|---|-------------------------------|
| Well Log Available: Yes | Easting (m): 488393 |
| Yukon Water Well Registry ID: 204140308 | Northing (m): 6770798 |
| Well Depth (m bTOC): 101.5 | Aquifer Material: Unknown |
| Well Diameter (cm): 15.24 | Year Monitoring Started: 2015 |

Well Description: The Deep Creek Well was drilled August 26, 2012 by Double D Drilling of Terrace, BC. The well is located in the Deep Creek area of Lake Laberge subdivision.

The well was installed for a bulk truck fill station to supply citizens of the Ta'an Kwäch'än Council, in the Horse Creek, Grizzly Valley and Deep Creek areas. The water quality at this well was deemed unsuitable for domestic purposes due to hardness and exceedances of aesthetic objectives. The hydraulic conductivity was reported to be 5.6×10^{-7} m/s.

| Data Available: | Dates: | Comments: |
|----------------------------|-------------------------|-----------|
| Continuous Water Level and | July 2015-Present | |
| Temperature | | |
| Continuous Conductivity | July 2015-Present | |
| Laboratory Analytical Data | 7-Sep-2012; 02-Nov-2017 | |





3.15 YOWN-1506

| Well Name: Million Dollar Falls Campground Well | UTM Zone: 8 |
|---|---|
| Well Log Available: Yes | Easting (m): 396502 |
| Yukon Water Well Registry ID: 1010200011 | Northing (m): 6653076 |
| Well Depth (m bTOC): 16.65 | Aquifer Material: Till/ Sandstone/Conglomerates |
| Well Diameter (cm): 14.60 | Year Monitoring Started: 2015 |

Well Description: The Million Dollar Falls Campground well was drilled by Midnight Sun Drilling Company Limited.

Borehole stratigraphy indicates a silt/sand/gravel unit overlaying sandstone/conglomerates. Field well depth measurements (16.65 m bTOC) do not match the borehole log information (195 m bTOC), suggesting that the well walls have sloughed.

| Data Available: | Dates: | Comments: |
|----------------------------|------------------|-----------|
| Continuous Water Level and | Aug 2016-Present | |
| Temperature | | |
| Continuous Conductivity | Aug 2016-Present | |
| Laboratory Analytical Data | 17-Oct-2017 | |





3.16 YOWN-1507

| Well Name: Kotaneelee Gas Plant Well | UTM Zone: 10 |
|--------------------------------------|-------------------------------|
| Well Log Available: No | Easting (m): 441306 |
| Yukon Water Well Registry ID: N/A | Northing (m): 6664889 |
| Well Depth (m bTOC): 5.93 | Aquifer Material: Unknown |
| Well Diameter (cm): 15.24 | Year Monitoring Started: 2015 |

Well Description: The Kotaneelee Gas Plant well is located in the south-east Yukon at the former Kotaneelee Gas Plant. The well was used for drinking water when the plant was in operation and has since been used in the YOWN.

There is no information on soil stratigraphy and well screen installation; no other YOWN wells are located in this area.

| Data Available: | Dates: | Comments: |
|----------------------------|--------------------------|-----------|
| Continuous Water Level and | Aug 2015-Present | |
| Temperature | | |
| Continuous Conductivity | Aug 2015-Present | |
| | 5-Aug-2015; 3-Nov-2015, | |
| | 19-Aug-2016; 9-Nov-2016; | |
| | 23-Aug-2017; 08-Nov-2017 | |





3.17 YOWN-1508

| Well Name: Nahanni Range Road CG Well | UTM Zone: 9 |
|---------------------------------------|-------------------------------|
| Well Log Available: No | Easting (m): 538804 |
| Yukon Water Well Registry ID: N/A | Northing (m): 6793104 |
| Well Depth (m bTOC): 18.30 | Aquifer Material: Unknown |
| Well Diameter (cm): 15.24 | Year Monitoring Started: 2015 |

Well Description: This well is located in the Nahanni Range Road Campground in southeast Yukon.

There is no information on soil stratigraphy and well screen installation; no other YOWN wells are located in this area.

| Data Available: | Dates: | Comments: |
|----------------------------|--------------------------|---------------------|
| Continuous Water Level and | Aug 2015-Present | |
| Temperature | | |
| Continuous Conductivity | Aug 2015-Present | |
| Laboratory Analytical Data | 25-Aug-2015, 17-Aug-2016 | Not sampled in 2017 |





3.18 YOWN-1509

| Well Name: Simpson Lake Campground Well-1 | UTM Zone: 9 |
|---|-------------------------------|
| Well Log Available: No | Easting (m): 487465 |
| Yukon Water Well Registry ID: N/A | Northing (m): 6726905 |
| Well Depth (m bTOC): Unknown | Aquifer Material: Unknown |
| Well Diameter (cm): 15.24 | Year Monitoring Started: 2015 |

Well Description: This well is an active drinking water well used in the Simpson Lake Campground located on the Robert Campbell Highway. This well is not equipped with data loggers and is only used for testing water quality.

There is no information on soil stratigraphy and well screen installation. No other YOWN wells are located in this area.

| Data Available: | Dates: | Comments: |
|----------------------------|---------------------------|--------------------------|
| Continuous Water Level and | N/A | Well is not instrumented |
| Temperature | | |
| Continuous Conductivity | N/A | Well is not instrumented |
| Laboratory Analytical Data | 24-Aug-2015; 09-Oct-2015; | |
| | 07-Aug-2016; 08-May-2017; | |
| | 28-Aug-2017 | |





3.19 YOWN-1510

| Well Name: Simpson Lake Campground Well-2 | UTM Zone: 9 |
|---|-------------------------------|
| Well Log Available: No | Easting (m): 487389 |
| Yukon Water Well Registry ID: N/A | Northing (m): 6726938 |
| Well Depth (m bTOC): 21.75 | Aquifer Material: Unknown |
| Well Diameter (cm): 15.24 | Year Monitoring Started: 2015 |

Well Description: This well is located in the Simpson Lake Campground near the cook shelter and boat launch. This well was instrumented in August 2015.

There is no information on soil stratigraphy and well screen installation. No other YOWN wells are located in this area.

| Data Available: | Dates: | Comments: |
|----------------------------|--------------------------|-----------|
| Continuous Water Level and | Aug 2015 - Present | |
| Temperature | | |
| Continuous Conductivity | Aug 2015 - Present | |
| Laboratory Analytical Data | 18-Aug-2016; 29 Aug-2017 | |





3.20 YOWN-1511

| Well Name: Watson Lake Campground Well-1 | UTM Zone: 9 |
|--|-------------------------------|
| Well Log Available: No | Easting (m): 511040 |
| Yukon Water Well Registry ID: N/A | Northing (m): 6661751 |
| Well Depth (m bTOC): Unknown | Aquifer Material: Unknown |
| Well Diameter (cm): 15.24 | Year Monitoring Started: 2015 |

Well Description: This well is located in the Watson Lake Campground in a small shed previously used to fill drinking water tanks.

There is no information on soil stratigraphy. Watson Lake Campground well #2 (YOWN-1512), located approximately 0.9 km to the northwest, is installed in a clay/silt/gravel unit.

| Data Available: | Dates: | Comments: |
|----------------------------|------------------|---------------------|
| Continuous Water Level and | Aug 2015-Present | |
| Temperature | | |
| Continuous Conductivity | Aug 2015-Present | |
| Laboratory Analytical Data | 29-Aug-2015 | Not sampled in 2017 |





3.21 YOWN-1512

| Well Name: Watson Lake Campground Well-2 | UTM Zone: 9 |
|--|-------------------------------|
| Well Log Available: Yes | Easting (m): 510263 |
| Yukon Water Well Registry ID: N/A | Northing (m): 6662148 |
| Well Depth (m bTOC): Unknown | Aquifer Material: Unknown |
| Well Diameter (cm): 15.24 | Year Monitoring Started: 2015 |

Well Description: This well is an active drinking water well in the Watson Lake Campground. This well is not equipped with data loggers and is only used for testing water quality.

The well is installed in a clay/silt/gravel unit; the bottom of screen is installed at 20.1 m bTOC. No other YOWN wells with known soil stratigraphy are present in this area.

| Data Available: | Dates: | Comments: |
|----------------------------|---------------------------|------------------|
| Continuous Water Level and | N/A | Not instrumented |
| Temperature | | |
| Continuous Conductivity | N/A | Not instrumented |
| Laboratory Analytical Data | 18-Aug-2016; 09-May-2017; | |
| | 29-Aug-2017 | |




3.22 YOWN-1513

| Well Name: Big Creek Campground Well | UTM Zone: 9 |
|--------------------------------------|-------------------------------|
| Well Log Available: No | Easting (m): 460852 |
| Yukon Water Well Registry ID: N/A | Northing (m): 6669348 |
| Well Depth (m bTOC): Unknown | Aquifer Material: Unknown |
| Well Diameter (cm): 15.24 | Year Monitoring Started: 2015 |

Well Description: This well is an active drinking water well in Big Creek Campground. This well is not equipped with data loggers and is only used for testing water quality.

There is no information on soil stratigraphy. The closest YOWN well is Watson Lake Campground well #2 (YOWN-1512), located approximately 50 km to the west.

| Data Available: | Dates: | Comments: |
|----------------------------|---------------------------|------------------|
| Continuous Water Level and | N/A | Not instrumented |
| Temperature | | |
| Continuous Conductivity | N/A | Not instrumented |
| Laboratory Analytical Data | 29-Aug-2015; 09-Oct-2015; | |
| | 16-Aug-2016; 09-May-2017; | |
| | 29-Aug-2017 | |





3.23 YOWN-1514

| Well Name: Kusawa Campground Well-1 | UTM Zone: 8 |
|-------------------------------------|-------------------------------|
| Well Log Available: No | Easting (m): 437275 |
| Yukon Water Well Registry ID: N/A | Northing (m): 6717195 |
| Well Depth (m bTOC): 20.60 | Aquifer Material: Unknown |
| Well Diameter (cm): 15.24 | Year Monitoring Started: 2015 |
| | |

Well Description: This well is located in the northern region of the Kusawa Campground near the playground and beach.

There is no information on soil stratigraphy. The closest YOWN well is the Kusawa Campground Well-2 (YOWN-1515), which is located approximately 1.1 km to the south and installed in a gravel/sand unit.

| Data Available: | Dates: | Comments: |
|----------------------------|-------------------|-----------|
| Continuous Water Level and | Sept 2015-Present | |
| Temperature | | |
| Continuous Conductivity | Sept 2015-Present | |
| Laboratory Analytical Data | 17-Oct-2017 | |



Figure 3.1: Station Map



3.24 YOWN-1515

| Well Name Kusawa Campground | Well-2 | UTM Zone: 8 | |
|--|---------------------|---------------------|---|
| Well Log Available: Yes | | Easting (m): 437 | 427 |
| Yukon Water Well Registry ID: 101090001 | | Northing (m): 67 | 16054 |
| Well Depth (m bTOC): 12.55 | | Aquifer Material: | - Gravel |
| Well Diameter (cm): 15.24 | | Year Monitoring | Started: 2015 |
| Well Description: This well is located in the southern loop of the Kusawa Campground near the entrance sign. | | | |
| The well is installed in a gravel/sar | nd unit. It has a 1 | .2 m screen, with t | he bottom of the screen installed at 12.5 |
| m bTOC. | | | |
| Data Available: | Dates: | | Comments: |
| Continuous Water Level and | Nov 2016-Pres | ent | |
| Temperature | | | |

| Continuous Water Level and | Nov 2016-Present | |
|----------------------------|------------------|--|
| Temperature | | |
| Continuous Conductivity | Nov 2016-Present | |
| Laboratory Analytical Data | 17-Oct-2017 | |
| Laboratory Analytical Data | 17-Oct-2017 | |





3.25 YOWN-1602

| Well Name: Faro Observation Well | UTM Zone: 8 |
|-----------------------------------|-------------------------------|
| Well Log Available: No | Easting (m): 584769 |
| Yukon Water Well Registry ID: N/A | Northing (m): 6899944 |
| Well Depth (m bTOC): 6.25 | Aquifer Material: Unknown |
| Well Diameter (cm): 2.54 | Year Monitoring Started: 2016 |

Well Description: The Faro Observation Well is located approximately 3 m away from YOWN-0802, near the community water supply wells south of Faro.

There is no information on soil stratigraphy. The closest YOWN well is Johnson Lake Campground Well-2 (YOWN-1701), which is located approximately 1.6 km to the south and installed in a gravel/sand unit overlaying bedrock.

| Data Available: | Dates: | Comments: |
|----------------------------|------------------|-----------|
| Continuous Water Level and | May 2016-Present | |
| Temperature | | |
| Continuous Conductivity | N/A | |
| Laboratory Analytical Data | 02-Oct-2017 | |





3.26 YOWN-1603

| Well Name: Johnson Lake Campground | UTM Zone: 8 |
|---|-------------------------------|
| Well Log Available: Yes | Easting (m): 583935 |
| Yukon Water Well Registry ID: 211030014 | Northing (m): 6898287 |
| Well Depth (m bTOC): 26.30 | Aquifer Material: Sand/Gravel |
| Well Diameter (cm): 15.24 | Year Monitoring Started: 2016 |

Well Description: This well is located in Johnson Lake Campground near the boat launch, in very close proximity to active outhouses.

The borehole log indicates a sand/gravel (till) unit overlaying sandstone/ conglomerate. There is no information regarding screen installation; it is possible that the well is installed as an open hole in bedrock below 19 m bgs. The soil stratigraphy description is similar to the stratigraphy encountered at YOWN-1701, located approximately 0.3 km to the east.

| Data Available: | Dates: | Comments: |
|----------------------------|--------------------------|-----------|
| Continuous Water Level and | May 2016- Present | |
| Temperature | | |
| Continuous Conductivity | May 2016- Present | |
| Laboratory Analytical Data | 20-May-2016; 02-Oct-2017 | |





3.27 YOWN-1604

| Well Name: Pine Lake Campground | UTM Zone: 8 |
|---|----------------------------------|
| Well Log Available: Yes | Easting (m): 364623 |
| Yukon Water Well Registry ID: 101130006 | Northing (m): 6743126 |
| Well Depth (m bTOC): 112.80 | Aquifer Material: Till / Bedrock |
| Well Diameter (cm): 15.24 | Year Monitoring Started: 2016 |

Well Description: This well is located in the Pine Lake Campground near the entrance and pay-station. It is in close proximity to an active outhouse.

Soil stratigraphy consist of a sand/gravel/clay (till) unit overlaying bedrock at 13.4 m bgs. There is no information on the screen installation; the well is assumed to be installed as an open hole in bedrock to 112.8 m bTOC.

| Data Available: | Dates: | Comments |
|----------------------------|-------------------------|----------|
| Continuous Water Level and | July 2016- Present | |
| Temperature | | |
| Continuous Conductivity | July 2016- Present | |
| Laboratory Analytical Data | 5-Jul-2016; 18-Oct-2017 | |





3.28 YOWN-1605

| Well Name: Pine Lake Day Use Area | UTM Zone: 8 |
|-----------------------------------|-------------------------------|
| Well Log Available: No | Easting (m): 364792 |
| Yukon Water Well Registry ID: N/A | Northing (m): 6743226 |
| Well Depth (m bTOC): 31.5 | Aquifer Material: Unknown |
| Well Diameter (cm): 15.24 | Year Monitoring Started: 2016 |

Well Description: This well is located on the beach in the day use area of Pine Lake Campground, approximately 10 m from the lake. This well is flowing artesian (i.e. the water level exceeds the level of the ground surface); however, the water level is slow to recover and has not been observed to exceed the top of casing. A controlled cap is not currently installed.

There is no information on soil stratigraphy. The closest YOWN well is the Pine Lake Campground Well (YOWN-1604), which is located approximately 0.2 km to the southwest and is installed in a till unit overlaying bedrock.

| Data Available: | Dates: | Comments: |
|----------------------------|--------------------|---------------------|
| Continuous Water Level and | July 2016- Present | |
| Temperature | | |
| Continuous Conductivity | July 2016- Present | |
| Laboratory Analytical Data | N/A | Not sampled in 2017 |





3.29 YOWN-1606

| Well Name: Snag Campground | UTM Zone: 7 |
|--|-------------------------------|
| Well Log Available: No | Easting (m): 516516 |
| Yukon Water Well Registry ID: N/A | Northing (m): 6900970 |
| Well Depth (m bTOC): 6.68 (frozen/ permafrost) | Aquifer Material: Unknown |
| Well Diameter (cm): 15.24 | Year Monitoring Started: 2016 |
| | |

Well Description: This well is located in the Snag Campground, approximately 20 km south of Beaver Creek. The well was instrumented in Aug, 2016 when the well was believed to contain meltwater perched on top of a frozen water column. Consequently, the loggers were not installed in the true water column and continuous water level, water temperature or conductivity measurements are not usable. Additionally, no water quality samples were able to be collected, but in-situ parameters were recorded.

| Data Available: | Dates: | Comments: |
|----------------------------|--------|---------------------|
| Continuous Water Level and | N/A | Frozen |
| Temperature | | |
| Continuous Conductivity | N/A | Frozen |
| Laboratory Analytical Data | N/A | Not Sampled in 2017 |





3.30 YOWN-1607

| Well Name: Lake Creek Campground | UTM Zone: 7 |
|-----------------------------------|-------------------------------|
| Well Log Available: No | Easting (m): 544547 |
| Yukon Water Well Registry ID: N/A | Northing (m): 6858323 |
| Well Depth (m bTOC): 9.61 | Aquifer Material: Unknown |
| Well Diameter (cm): 15.24 | Year Monitoring Started: 2016 |

Well Description: This well is located in the Lake Creek Campground, approximately 20 m east of the creek and 25 m north of the campground kitchen.

There is no information on soil stratigraphy and screen installation. The closest YOWN well is Kluane Harvest Camp well (YOWN-1802), which is located approximately 0.8 km to the southeast and installed in a sand/silt/gravel unit.

| Data Available: | Dates: | Comments: |
|----------------------------|-------------------|-----------|
| Continuous Water Level and | Aug 2016- Present | |
| Temperature | | |
| Continuous Conductivity | Aug 2016- Present | |
| Laboratory Analytical Data | 11-Oct-2017 | |





3.31 YOWN-1608

| Well Name: Klondike Campground | UTM Zone: 7 |
|-----------------------------------|-------------------------------|
| Well Log Available: No | Easting (m): 592192 |
| Yukon Water Well Registry ID: N/A | Northing (m): 7104158 |
| Well Depth (m bTOC): 3.80 | Aquifer Material: Unknown |
| Well Diameter (cm): 15.24 | Year Monitoring Started: 2016 |

Well Description: This well is located in the Klondike campground near the playground area by the entrance. This well is a dug open hole well without a stickup (the top of casing is flush with the concrete pad).

Based on the shallow depth of the well, it is possible that the well is silted; no representative groundwater is observed (very limited volume, and turbid; possible rain and/or melted snow).

| Data Available: | Dates: | Comments: |
|----------------------------|-------------------|-----------|
| Continuous Water Level and | Sept 2016-Present | |
| Temperature | | |
| Continuous Conductivity | Sept 2016-Present | |
| Laboratory Analytical Data | 08-Nov-2017 | |





3.32 YOWN-1609

| Well Name: Yukon River Campground | UTM Zone: 7 |
|---|-------------------------------|
| Well Log Available: Yes | Easting (m): 576164 |
| Yukon Water Well Registry ID: 802030038 | Northing (m): 7106431 |
| Well Depth (m bTOC): 6.20 | Aquifer Material: Gravel |
| Well Diameter (cm): 15.24 | Year Monitoring Started: 2016 |

Well Description: This well is located in the Yukon River Campground approximately 50 m west of the Yukon River, across from the playground. The top of casing is flush with the concrete pad, with a well seal installed on top.

The borehole stratigraphy is described as silty sand/gravel unit (till); the screen is installed from 9.1 m bTOC to 10.6 m bTOC.

| Data Available: | Dates: | Comments: |
|----------------------------|--------------------|------------------------------|
| Continuous Water Level and | Sept 2016- Present | Gaps: Nov 2016-Dec 2016 |
| Temperature | | (Water dropped below logger) |
| Continuous Conductivity | Sept 2016- Present | Gaps: Nov 2016-Dec 2016 |
| | | (Water dropped below logger) |
| Laboratory Analytical Data | N/A | Not Sampled in 2017 |





3.33 YOWN-1610

| Well Name: Judas Creek Campground | UTM Zone: 8 |
|-----------------------------------|-------------------------------|
| Well Log Available: No | Easting (m): 548085 |
| Yukon Water Well Registry ID: N/A | Northing (m): 6695163 |
| Well Depth (m bTOC): 13.20 | Aquifer Material: Unknown |
| Well Diameter (cm): 15.24 | Year Monitoring Started: 2016 |

Well Description: This well is located in an abandoned campground near Judas Creek.

There is no information on soil stratigraphy and screen installation. The closest YOWN well with an available borehole log is the Marsh Lake Campground well (YOWN-1502), which is located approximately 25.6 km to the northwest and installed in a cobble, gravel and clay unit.

| Data Available: | Dates: | Comments: |
|----------------------------|-------------------------|-----------|
| Continuous Water Level and | August 2016-Present | |
| Temperature | | |
| Continuous Conductivity | August 2016-Present | |
| Laboratory Analytical Data | 5-Aug-2016; 26-Oct-2017 | |





3.34 YOWN-1611

| Well Name: Tagish Campground | UTM Zone: 8 |
|---|------------------------------------|
| Well Log Available: Yes | Easting (m): 540932 |
| Yukon Water Well Registry ID: 204080022 | Northing (m): 6686909 |
| Well Depth (m bTOC): 105.20 | Aquifer Material: Gravel/Sand/Silt |
| Well Diameter (cm): 15.24 | Year Monitoring Started: 2016 |

Well Description: This well is located in the Tagish Campground, approximately 0.3 km east of the Tagish River. This well is flowing artesian and is temporarily welded shut until a well cap fitted with a control valve is installed. It is not instrumented, so no water level or temperature measurements are available.

The well is installed in a gravel/sand/silt unit overlaid by a clay unit.

| - | • • | |
|----------------------------|--------|------------------|
| Data Available: | Dates: | Comments: |
| Continuous Water Level and | N/A | Not instrumented |
| Temperature | | |
| Continuous Conductivity | N/A | Not instrumented |
| Laboratory Analytical Data | N/A | Not Sampled |





3.35 YOWN-1612

| Well Name: Morely Lake Recreation Site | UTM Zone: 8 |
|--|---------------------------|
| Well Log Available: No | Easting (m): 659649 |
| Yukon Water Well Registry ID: N/A | Northing (m): 6655686 |
| Well Depth (m bTOC): Unknown | Aquifer Material: Unknown |
| Well Diameter (cm): 15.24 | Year Monitoring Started: |

Well Description: This well is located in in the Morely Lake Recreation Site approximately 100 m south of the Morely River.

This well was used as a drinking water well. The pump handle was removed to prevent water consumption due to various exceedances of the GCDWQ guidelines. The well is not instrumented, so no water level or temperature measurements are available.

There are no other YOWN monitoring wells located in this area.

| Data Available: | Dates: | Comments: |
|----------------------------|--------------------------|------------------|
| Continuous Water Level and | N/A | Not instrumented |
| Temperature | | |
| Continuous Conductivity | N/A | Not instrumented |
| Laboratory Analytical Data | 10-Nov-2016; 06-Apr-2017 | |





3.36 YOWN-1613

| Well Name: Watson Lake Campground -3 | UTM Zone: 9 |
|--------------------------------------|-------------------------------|
| Well Log Available: No | Easting (m): 510173 |
| Yukon Water Well Registry ID: N/A | Northing (m): 6662092 |
| Well Depth (m bTOC): 19.40 | Aquifer Material: Unknown |
| Well Diameter (cm): 15.24 | Year Monitoring Started: 2016 |

Well Description: This well is located in the Watson Lake Campground. The top of casing is flush with the concrete pad and capped with a well seal. This well is not instrumented.

There is no information on soil stratigraphy. The Watson Lake Campground well #2 (YOWN-1512), located approximately 100 m to the east-northeast, is installed in a clay/silt/gravel unit.

| Data Available: | Dates: | Comments: |
|----------------------------|-------------|------------------|
| Continuous Water Level and | N/A | Not instrumented |
| Temperature | | |
| Continuous Conductivity | N/A | Not instrumented |
| Laboratory Analytical Data | 29-Aug-2017 | |





3.37 YOWN-1614

| Well Name: Wellgreen | UTM Zone: 7 |
|-----------------------------------|-------------------------------|
| Well Log Available: No | Easting (m): 589530 |
| Yukon Water Well Registry ID: N/A | Northing (m): 6820455 |
| Well Depth (m bTOC): >100 | Aquifer Material: Unknown |
| Well Diameter (cm): 28 | Year Monitoring Started: 2016 |

Well Description: This well is located south of the site office and the site access road, in the southeast quadrant of the cleared area (the former Mill site).

There are no other YOWN monitoring wells located in this area. Other monitoring wells installed in this area by others are relatively shallow (14 m bTOC) and installed in a silty clay/sand/gravel unit.

| Data Available: | Dates: | Comments: |
|----------------------------|------------------|-----------|
| Continuous Water Level and | Aug 2016-Present | |
| Temperature | | |
| Continuous Conductivity | Aug 2016-Present | |
| Laboratory Analytical Data | 11-Oct-2017 | |





3.38 YOWN-1701

| Well Name: Johnson Lake CG Well-2 | UTM Zone: 8 |
|---|-------------------------------|
| Well Log Available: Yes | Easting (m): 584165 |
| Yukon Water Well Registry ID: 211030015 | Northing (m): 6898252 |
| Well Depth (m bTOC): 24.30 (?) | Aquifer Material: Sand/Gravel |
| Well Diameter (cm): 15.24 | Year Monitoring Started: 2017 |

Well Description: This well is located in Johnson Lake Campground approximately 75 m north of the shoreline. The well was used as a drinking water well but the pump handle was removed to prevent use due to metal concentrations exceeding the CSR-AW.

The borehole log indicates a sand/gravel (till) unit overlaying sandstone/ conglomerate. There is no information regarding the screen installation; it is possible the well was installed as an open hole in bedrock below 21 m bgs. The soil stratigraphy description is similar to stratigraphy encountered at YOWN-1603, located approximately 0.3 km to the west.

| Data Available: | Dates: | Comments: |
|----------------------------|------------------|-----------|
| Continuous Water Level and | Aug 2017-Present | |
| Temperature | | |
| Continuous Conductivity | Aug 2017-Present | |
| Laboratory Analytical Data | 03-May-2017 | |





3.39 YOWN-1702

| Well Name: Congdon Creek CG Well-3 | UTM Zone: 7 |
|---|--------------------------------------|
| Well Log Available: Yes | Easting (m): 631951 |
| Yukon Water Well Registry ID: 107020001 | Northing (m): 6782275 |
| Well Depth (m bTOC): 18.3 | Aquifer Material: Silty Sand/ Gravel |
| Well Diameter (cm): 15.24 | Year Monitoring Started: 2017 |
| | |

Well Description: This well is located in Congdon Creek Campground, approximately 45 m south of the campground kitchen. The well is an active drinking water well, so the well is not instrumented.

The well is installed in a sand/gravel/silt unit with the screen installed in gravel. There are no other YOWN wells in this area.

| Data Available: | Dates: | Comments: |
|----------------------------|-------------|-----------|
| Continuous Water Level and | N/A | |
| Temperature | | |
| Continuous Conductivity | N/A | |
| Laboratory Analytical Data | 18-Oct-2017 | |





3.40 YOWN-1703

| Well Name: Champagne (CAFN-MW-01) | UTM Zone: 8 |
|---|-------------------------------|
| Well Log Available: Yes | Easting (m): 419799 |
| Yukon Water Well Registry ID: 101160007 | Northing (m): 6737852 |
| Well Depth (m bTOC): 18.60 | Aquifer Material: Sand |
| Well Diameter (cm): 5 | Year Monitoring Started: 2017 |
| | • |

Well Description: This well is located south of the Village of Champagne, near Champagne Creek.

The well is installed in an unconfined aquifer. The stratigraphy consists of glacial till overlaid by alluvium and a layer of aeolian sand.

| Data Available: | Dates: | Comments: |
|----------------------------|------------------|-----------|
| Continuous Water Level and | Aug 2017-Present | |
| Temperature | | |
| Continuous Conductivity | Aug 2017-Present | |
| Laboratory Analytical Data | 7-Jun-2017 | |





3.41 YOWN-1704

| Well Name: Champagne (CAFN-MW-02) | UTM Zone: 8 |
|---|-------------------------------|
| Well Log Available: Yes | Easting (m): 419832 |
| Yukon Water Well Registry ID: 101160008 | Northing (m): 6737804 |
| Well Depth (m bTOC): 10.65 | Aquifer Material: Sand |
| Well Diameter (cm): 5 | Year Monitoring Started: 2017 |
| | |

Well Description: This well is located south of the Village of Champagne, near Champagne Creek.

The well is installed in an unconfined aquifer. The stratigraphy consists of glacial till overlaid by alluvium and a layer of aeolian sand.

| Data Available: | Dates: | Comments: |
|----------------------------|------------------|-----------|
| Continuous Water Level and | Aug 2017-Present | |
| Temperature | | |
| Continuous Conductivity | Aug 2017-Present | |
| Laboratory Analytical Data | 7-Jun-2017 | |





3.42 YOWN-1705

| Well Name: Champagne (CAFN-MW-03) | UTM Zone: 8 |
|---|------------------------------------|
| Well Log Available: Yes | Easting (m): 419765 |
| Yukon Water Well Registry ID: 101160009 | Northing (m): 6737855 |
| Well Depth (m bTOC): 9.30 | Aquifer Material: Sand/ Silty sand |
| Well Diameter (cm): 5 | Year Monitoring Started: 2017 |
| | • |

Well Description: This well is located south of the Village of Champagne, near Champagne Creek.

The well is installed in an unconfined aquifer. The stratigraphy consists of glacial till overlaid by alluvium and a layer of aeolian sand.

| Data Available: | Dates: | Comments: |
|----------------------------|------------------|-----------|
| Continuous Water Level and | Aug 2017-Present | |
| Temperature | | |
| Continuous Conductivity | Aug 2017-Present | |
| Laboratory Analytical Data | 7-Jun-2017 | |





3.43 YOWN-1706

| Well Name: Yukon College #1 | | UTM Zone: 8 | | | | | | | |
|--------------------------------------|-------------------|--------------------------|--|--|--|--|--|--|--|
| Well Log Available: Yes | | Easting (m): 494719 | | | | | | | |
| Yukon Water Well Registry ID: \top | BA | Northing (m): 6735147 | | | | | | | |
| Well Depth (m bTOC): 54.50 | | Aquifer Material: Gravel | | | | | | | |
| Well Diameter (cm): 15.24 | | Year Monitoring | Started: 2017 | | | | | | |
| Well Description: This well is loca | ated at the end o | f the College Drive | , in the parking area located north of the | | | | | | |
| Dete Assellation | Dataa | | Commenter | | | | | | |
| Data Avallable: | Dates: | | Comments: | | | | | | |
| Continuous Water Level and | Aug 2017-Pres | sent | | | | | | | |
| Temperature | | | | | | | | | |
| Continuous Conductivity | Aug 2017-Pres | sent | | | | | | | |
| Laboratory Analytical Data | N/A | | Not sampled | | | | | | |





4. Laboratory Analytical Results

A total of 30 YOWN stations were sampled in 2017.

Below is a summary of groundwater samples exceeding the Guidelines for Canadian Drinking Water Quality (GCDWQ).

<u>рН</u>

Three of the analyzed samples exceeded the GCDWQ for pH:

- YOWN-1506 (Million Dollar Falls Campground): pH 9.09 (field measured);
- YOWN-1510 (Simpson Lake Campground Well-2): pH 9.05 (field measured); and
- YOWN-1514 (Kusawa Campground Well-1): pH 9.19 (field measured).

Total Dissolved Solids

Concentrations of total solids in groundwater exceeded the GCDWQ of 500 mg/L were reported in four of the analyzed samples:

- YOWN-1401 (Eagle Plains): 7180 mg/L (March 2017) and 7400 mg/L (September 2017);
- YOWN-1504 (Grizzly Valley): 1600 mg/L;
- YOWN-1506 (Million Dollar Falls Campground): 1000 mg/L; and
- YOWN-1514 (Johnson Lake Campground Well-2): 1700 mg/L.

Dissolved Metals

None of the groundwater samples collected during the 2017 YOWN sampling event exceeded the GCDWQ for dissolved metals.

Total Metals

Parameters exceeding GCDWQ for total metals concentrations were reported in groundwater samples collected at 11 YOWN stations. A summary of total metal exceedances is presented in Table 4.1 below:



| Parameter | Units | Guidelin e | YOWN Stations |
|-----------|-------|---------------------|--|
| Aluminum | mg/L | 0.1 ^{og} | YOWN-1401 (Eagle Plains): 0.3 mg/L; YOWN-1507 (Kotaneelee Gas Plant): 0.69 mg/L (Aug. 2017); and 0.86 mg/L (Nov. 2017); YOWN-1509 (Simpson Lake Campground Well-1): 0.51 mg/L; YOWN-1701 (Johnson Lake Campground Well-2): 0.45 mg/L; YOWN-1703 (Champagne MW-01): 0.2 mg/L; YOWN-1704 (Champagne MW-02): 0.98 mg/L; YOWN-1705 (Champagne MW-03): 2.8 mg/L |
| Arsenic | mg/L | 0.010 MAC | YOWN-1509 (Simpson Lake Campground Well-1): 0.02 mg/L; YOWN-1512 (Watson Lake Campground Well-2): 0.017 mg/L; YOWN-1701 (Johnson Lake Campground Well-2): 0.22 mg/L |
| Iron | mg/L | 0.30 ⁴⁰ | YOWN-1401 (Eagle Plains): 85.4 mg/L (March 2017); and 45 mg/L (March 2017); YOWN-1507 (Kotaneelee Gas Plant): 20 mg/L (Aug. 2017); and 54 mg/L (Nov. 2017); YOWN-1509 (Simpson Lake Campground Well-1): 12 mg/L (May 2017); and 3.2 mg/L (Aug. 2017); YOWN-1512 (Watson Lake Campground Well-2): 6.6 mg/L (May 2017); and 1.9 mg/L (Aug. 2017); YOWN-1513 (Big Creek Campground Well): 6.5 mg/L (May 2017); and 4.9 mg/L (Aug. 2017); YOWN-1612 (Morely Lake Recreational Site): 10 mg/L (Apr. 2017); and 1.4 mg/L (May 2017); YOWN-1701 (Johnson Lake Campground Well-2): 29 mg/L; YOWN-1702 (Congdon Creek Campground Well-3): 0.96 mg/L; YOWN-1704 (Champagne MW-02): 0.97 mg/L; YOWN-1705 (Champagne MW-03): 2.7 mg/L |
| Manganese | mg/L | 0.05 ^{AO} | YOWN-1401 (Eagle Plains): 0.9 mg/L (March 2017); and 0.65 mg/L (Sept. 2017); YOWN-1507 (Kotaneelee Gas Plant): 0.42 mg/L (Aug. 2017); and 0.66 mg/L (Nov. 2017); YOWN-1509 (Simpson Lake Campground Well-1): 0.23 mg/L (May 2017); and 0.14 mg/L (Aug. 2017); YOWN-1512 (Watson Lake Campground Well-2): 0.42 mg/L (May 2017); and 0.32 mg/L (Aug. 2017); YOWN-1513 (Big Creek Campground Well): 0.065 mg/L (May 2017); YOWN-1612 (Morely Lake Recreational Site): 0.06 mg/L (Apr. 2017); YOWN-1701 (Johnson Lake Campground Well-2): 0.31 mg/L; YOWN-1703 (Champagne MW-01): 0.064 mg/L; YOWN-1704 (Champagne MW-02): 0.059 mg/L; YOWN-1705 (Champagne MW-03): 0.065 mg/L |
| Lead | mg/L | 0.01 ^{MAC} | YOWN-1612 (Morely Lake Recreational Site): 0.043 mg/L (Apr. 2017); and 0.014 mg/L (May 2017); YOWN-1701 (Johnson Lake Campground Well-2): 0.032 mg/L |
| Uranium | mg/L | 0.02 MAC | YOWN-1701 (Johnson Lake Campground Well-2): 0.074 mg/L |
| Zinc | mg/L | 5 ^{AO} | YOWN-1701 (Johnson Lake Campground Well-2): 6 mg/L |

| Table 4.1: GCDWQ T | otal Metal | exceedances i | in groundwa | ter samples. |
|--------------------|------------|---------------|-------------|--------------|
|--------------------|------------|---------------|-------------|--------------|

AO = Aesthetic Objective

MAC = Maximum Acceptable Concentration

OG = Operational Guidance Value



Dissolved Sulphate

Parameters exceeding dissolved sulphate GCDWQ of 500 mg/L were reported in two groundwater samples collected at YOWN-1504 (Grizzly Valley): 853 mg/L; and YOWN-1701 (Johnson Lake Campground Well-2): 900 mg/L.

<u>Isotopes</u>

The GCDWQ value of 0.2 becquerel (Bq)/L for Lead₂₁₀ was exceeded in samples YOWN-1401 (Eagle Plains): <4 Bq/L; and YOWN-1507 (Kotaneelee Gas Plant): <4 Bq/L.

The GCDWQ value of 0.5 Bq/L for Barium₂₂₆ was exceeded in samples YOWN-1401 (Eagle Plains): <5 Bq/L; and YOWN-1507 (Kotaneelee Gas Plant): <5 Bq/L.

The GCDWQ value of 0.02 Bq/L for Uranium₂₃₅ was exceeded in samples YOWN-1401 (Eagle Plains): <1 Bq/L; and YOWN-1507 (Kotaneelee Gas Plant): <1 Bq/L.

Below is a summary of groundwater samples exceeding the standards for Yukon Contaminated Sites Regulation, Generic Numerical Water Standards for the protection of Aquatic Life (CSR-AW)

Dissolved Metals

Groundwater sample collected at YOWN-1401 (Eagle Plains) had a reported concentration of dissolved selenium of <0.02 mg/L, exceeded the CSR-AW of 0.01 mg/L.

Total Metals

There are no CSR-AW standards for concentrations of total metals in groundwater.

Dissolved Sulphate

Dissolved sulphate concentrations of 4600 mg/L and 4450 mg/L were reported in YOWN-1401(Eagle Plains) during the March 2017 and September 2017 sampling events, exceeding the 1000 mg/L CSR-AW standard.

<u>Nutrients</u>

• Ammonium nitrogen concentrations of 4.12 mg/L and 4.55 mg/L were reported in YOWN-1401 (Eagle Plains) during the March 2017 and September 2017 sampling events, exceeding the 2.3 mg/L CSR-AW standard;



• Nitrate nitrogen concentration of <1 mg/L, exceeded the 0.2 mg/L CSR-AW standard (note: standard varies with chloride concentration) were reported in YOWN-1401(Eagle Plains) during the March 2017 and September 2017 sampling events.

<u>Anions</u>

• Fluoride concentrations of 31 mg/L were reported in YOWN-1506 (Million Dollar Falls Campground) exceeding the 2 mg/L CSR-AW standard.



5. Summary and Conclusions

A summary of the types of data collected from each monitoring well in the network as of December 31, 2017 is presented in **Table 5.1**, below.

| Well code | Water Level | Temperature | Specific Conductance | Water Quality |
|-----------|--------------|--------------|----------------------|---------------|
| YOWN-0101 | \checkmark | \checkmark | \checkmark | |
| YOWN-0801 | \checkmark | \checkmark | | |
| YOWN-0802 | \checkmark | \checkmark | \checkmark | \checkmark |
| YOWN-0803 | \checkmark | \checkmark | \checkmark | |
| YOWN-0804 | \checkmark | \checkmark | | |
| YOWN-0805 | \checkmark | \checkmark | \checkmark | \checkmark |
| YOWN-1101 | \checkmark | \checkmark | | \checkmark |
| YOWN-1301 | \checkmark | \checkmark | \checkmark | \checkmark |
| YOWN-1401 | \checkmark | \checkmark | \checkmark | \checkmark |
| YOWN-1501 | \checkmark | \checkmark | | |
| YOWN-1502 | \checkmark | \checkmark | \checkmark | \checkmark |
| YOWN-1503 | \checkmark | \checkmark | \checkmark | |
| YOWN-1504 | \checkmark | \checkmark | \checkmark | \checkmark |
| YOWN-1505 | \checkmark | \checkmark | \checkmark | \checkmark |
| YOWN-1506 | \checkmark | \checkmark | \checkmark | \checkmark |
| YOWN-1507 | \checkmark | \checkmark | \checkmark | \checkmark |
| YOWN-1508 | \checkmark | \checkmark | \checkmark | |
| YOWN-1509 | | | | \checkmark |
| YOWN-1510 | \checkmark | \checkmark | \checkmark | \checkmark |
| YOWN-1511 | \checkmark | \checkmark | \checkmark | |
| YOWN-1512 | | | | \checkmark |
| YOWN-1513 | | | | \checkmark |
| YOWN-1514 | \checkmark | \checkmark | \checkmark | \checkmark |
| YOWN-1515 | \checkmark | \checkmark | \checkmark | \checkmark |
| YOWN-1602 | \checkmark | \checkmark | | \checkmark |
| YOWN-1603 | \checkmark | \checkmark | \checkmark | \checkmark |
| YOWN-1604 | \checkmark | \checkmark | \checkmark | \checkmark |
| YOWN-1605 | \checkmark | \checkmark | \checkmark | |
| YOWN-1606 | | | | |
| YOWN-1607 | \checkmark | \checkmark | \checkmark | \checkmark |
| YOWN-1608 | \checkmark | \checkmark | \checkmark | \checkmark |
| YOWN-1609 | \checkmark | \checkmark | \checkmark | |
| YOWN-1610 | \checkmark | \checkmark | \checkmark | \checkmark |
| YOWN-1612 | \checkmark | \checkmark | \checkmark | \checkmark |
| YOWN-1613 | \checkmark | \checkmark | \checkmark | \checkmark |
| YOWN-1614 | \checkmark | \checkmark | \checkmark | \checkmark |
| YOWN-1701 | | | | \checkmark |
| YOWN-1702 | | | | \checkmark |
| YOWN-1703 | \checkmark | \checkmark | \checkmark | \checkmark |
| YOWN-1704 | \checkmark | \checkmark | \checkmark | \checkmark |
| YOWN-1705 | \checkmark | \checkmark | | \checkmark |
| YOWN-1706 | | | | |

Table 5.1: Types of data collected at each monitoring well.



5.1 Water Quality

A summary of the 2017 groundwater quality exceedances is presented in **Table 5.2**, below. Complete results are presented in **Appendix A** attached to this report. Of the 30 wells sampled in 2017, 13 exceeded at least one guideline (GCDWQ) or standard (Yukon CSR_{AL}). However, it should be noted that the majority of the wells that had no exceedances were only sampled for dissolved parameters and the GCDWQ are primarily set for total constituent analysis. More consistency in sampling analytes will allow for more valuable comparison.

Yukon Contaminated Sites Regulation

Eagle Plains / YOWN-1401

- Ammonium nitrogen concentrations of 4.12 mg/L and 4.55 mg/L were reported in YOWN-1401 during the March 2017 and September 2017, respectively, exceeding the 2.3 mg/L YCSR_{AL} standard;
- Dissolved sulphate concentrations of 4600 mg/L and 4450 mg/L were reported in YOWN-1401 during the March 2017 and September 2017, respectively, exceeding the 1000 mg/L YCSR_{AL} standard;
- Dissolved selenium concentration of <0.02 mg/L, exceeded the 0.01 mg/L YCSR_{AL} standard for this constituent. However, this exceedance can be attributed to the laboratory detection limit being above the YCSR standard;
- Nitrate nitrogen concentration of <1 mg/L, exceeded the 0.2 mg/L YCSR_{AL} standard (note: standard varies with chloride concentration) for this constituent. However, this exceedance can be attributed to the laboratory detection limit being above the YCSR standard.

Million Dollar Falls Campground / YOWN-1506

• Fluoride concentrations of 31 mg/L were reported in YOWN-1506 exceeding the 2 mg/L YCSR_{AL} standard.

Guidelines for Canadian Drinking Water Quality

The analytical results indicates that none of the samples collected at the observation wells in 2017 exceeded the GCDWQ for nutrients, dissolved metals and VPHs. A summary of the observation wells that had groundwater concentrations exceeding the GCDWQ is presented in **Table 5.2**, below.



| Well | Parameters exceeding GCDWQ Health-Based Guidelines | Parameters Exceeding GCDWQ Non-Health Guidelines (AO, OG) |
|--|---|--|
| YOWN-1401 (Eagle Plains) | Total Aluminum; Total Copper; Lead ₂₁₀ ; Radium ₂₂₆ ; Uranium ₂₃₅ | Total Dissolved Solids; Total Iron; Total Manganese; Total Sodium |
| YOWN-1504 (Grizzly Valley) | Dissolved Sulphate | Total Dissolved Solids |
| YOWN-1506 (Million Dollar Falls Campground) | | Total Dissolved Solids |
| YOWN-1507 (Kotaneelee Gas Plant) | Total Aluminum; Lead ₂₁₀ ; Radium ₂₂₆ ; Uranium ₂₃₅ | Total Iron; Total Manganese |
| YOWN-1509 (Simpson Lake Campground Well-1 | Total Aluminum; Total Arsenic | Total Iron; Total Manganese |
| YOWN-1512 (Watson Lake Campground Well-2 | Total Arsenic | Total Iron; Total Manganese |
| YOWN-1513 (Big Creek Campground Well | | Total Iron; Total Manganese |
| YOWN-1612 (Morely Lake Recreational Site | Total Lead | Total Iron; Total Manganese |
| YOWN-1701 (Johnson Lake Campground Well-2): | Total Aluminum; Total Arsenic; Total Lead; Total Uranium; Total Zinc; Dissolved Sulphate | Total Dissolved Solids; Total Iron; Total Manganese |
| YOWN-1703 (Champagne MW-01) | Total Aluminum; | Total Iron; Total Manganese |
| YOWN-1704 (Champagne MW-02) | Total Aluminum; | Total Iron; Total Manganese |
| YOWN-1705 (Champagne MW-03 | Total Aluminum; | Total Iron; Total Manganese |

Table 5.2: Summary of GCDWQ water quality exceedances.

Volatile Petroleum Hydrocarbons samples were collected at observation wells where the presence of hydrocarbon contamination may be suspected.

A number of the YOWN wells were sampled for isotopic and dissolved gas analyses for a study completed by the University of Calgary and Natural Sciences and Engineering Research Council of Canada. The study aimed to develop baseline testing methods for potential environmental impacts of oil and gas development. Complete results for these parameters are presented in Appendix A.



5.2 Water Levels

Manual groundwater level measurements are reported in Appendix B. As discussed above, WRB has commenced deployment of dataloggers to monitor groundwater level at a high frequency; however, the data generated from these loggers is not reported herein. WRB is currently developing a process for managing, validating, interpreting, and reporting on these data and intends to publish them in a future report.



5. References

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APPENDIX A

2017 Laboratory Analytical Results



| | - | Station Sampling | n Code ng Date | 2-Oct-17 | 2 YOWN-0805 Y 29-Aug-17 | 17-Oct-17 11-0 | -1301 YOWN-14 ct-17 5-Mar-1 | 21-Sep-17 | 7 26-Oct-17 | 2-Nov-17 | 2-Nov-17 | YOWN-1506 17-Oct-17 | 23-Aug-17 | YOWN-1507 8-Nov-17 | YOWN-1509 8-May-17 | YOWN-1509 28-Aug-17 | 29-Aug-17 | -May-17 29-A | 1512 YOWN g-17 9-Ma | -1513 YOWN-19 y-17 29-Aug-1 | 13 YOWN-15 | 14 YOWN-15 7 17-Oct-1 | 15 YOWN-1602 7 2-Oct-17 | 2-Oct-17 | YOWN-1604 18-Oct-17 | YOWN-1607 11-Oct-17 | YOWN-1608 8-Nov-17 | 26-Oct-17 | YOWN-1612 6-Apr-17 | 9-May-17 | 29-Aug-17 | YOWN-1614 11-Oct-17 | 3-May-17 | 18-Oct-17 | YOWN-1703 7-Jun-17 | 7-Jun-17 | 7-Jun-17 |
|--|---|---|---|---|--|--|---|--|---|--|--|--|--|--|---|---|---|--|--|---|--|--|--|--|--|---|---|---|--|--|---|---|--|--|---|---|---|
| | | Sample | e Code | 2017245 | 2017202 | 2017264 2017 | 201700 | 2017238 | 2017271 | 2017272 | 2017273 | 2017259 | 2017197 | 2017282 | 2017058 | 2017200 | 2017198 | 2017059 201 | 203 2017 | 060 201720 | 1 2017257 | 2017258 | 2017246 | 2017244 | 2017260 | 2017254 | 2017284 | 2017270 | 2017046 | 2017061 | 2017199 | 2017256 | 2017054 | 2017263 | 2017082 | 2017084 | 2017083 |
| Parameter | Unit | <u>CSR AW</u> | HC_DWQ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Field-measured parameters | mg/l | ns | ng | 5 75 | 4.48 | 9.77 21 | 82 2.01 | 2.7 | 15 | 3.25 | 2.42 | 1.45 | 23 | 3.7 | 3 53 | 3.83 | 4.61 | 4.83 2 | 7 0 | 91 | 1.73 | 1.75 | 3 55 | 5.1 | | 2.46 | 6.78 | 1.28 | 89 | 9.49 | 3.83 | 2.2 | 5.68 | | 4 75 | 7 11 | 10.38 |
| pH | pH units | ns | 7.0 - 10.5 | 8.44 | 7.66 | 7.82 6.9 | 93 8.43 | 8.95 | 9.0 | 7.56 | 8.18 | 9.09 | 7.55 | 7.51 | 7.93 | 7.87 | 9.05 | 7.89 7 | 7. | 75 7.37 | 9.19 | 8.85 | 8.64 | 7.51 | | 7.86 | 0.70 | 7.92 | 6.28 | 7.4 | 7.59 | 8.47 | 7.36 | | 7.3 | 7.47 | 7.5 |
| Specific Conductance | uS/cm | ns | ng | 157.8 | 432 | 835 149 | 9.9 9280 | 9102 | 700 | 2040 | 872 | 1638 | 592 | 527 | 438 | 514 | 137.6 | 586 5 | 3 55 | 0 476 | 70.1 | 30.8 | 148.1 | 757 | - | 144 | 1256 | 631 | 418 | 426 | 315.2 | 292.7 | 1826 | - | 226 | 136 | - |
| Redox | mV | ns | ng 15 | -114.9 | -109 | 154 - | -221.5 | -231 | -12.9 | -33.6 | -45.2 | 99.1 | -181 | -111.2 | -142 | -165.5 | -151 | -187 -12 | .7 -15 | .9 -50 | -299.6 | -9.9 | -37.6 | -137.8 | - | - | - 15 | -167.2 | 145 | 25.1 | -148 | - | - 22 | - | 79 6.7 | 118 | 103 |
| GW Level | m | ns | ng | 4.294 | 6.49 | 11.896 12. | 514 - | 9.876 | 1.005 | 7.64 | 4.608 | 1.969 | 1.88 | - | 1.4 | - | 1.39 | - | 5.3 | 35 - | 2.631 | 4.472 | 3.845 | 8.497 | - | 2.474 | 3.367 | 5.039 | - | 10 | 12.77 | 10.442 | 9.43 | - | 7.495 | 7.988 | 7.288 |
| Turbidity | NTU | ns | ng | 24.3 | | - 7. | 9 - | - | 22.8 | - | - | 31.3 | - | 7450 | 104 | 5.8 | - | 8.5 | 43 | .3 - | 39.5 | 43.5 | 25.4 | 37.5 | | | - | 45.6 | - | 10.8 | | 3.2 | 121.7 | | 6.9 | 43 | - |
| Volume of purged GW | L | ns | ng | 8 | 0 | 3 . | - | 100 | - | - | | 2.5 | 20 | 20 | 300 | 20 | 0 | 220 2 | 16 | 4 20 | 2.5 | 2.5 | 4 | 15 | | 2.5 | - | | | 100 | 0 | 2.5 | 240 | | 120 | 20 | 20 |
| Laboratory -measured parameters | nH units | 15 | ng 7 - 10 5 | - 8.11 | | 7.82 7.9 | - 8.09 | - 8.99 | - 85 | - 7.82 | - 8.18 | . 11 12 | - 7.61 | - 7.82 | - 7.94 | | | - 7.95 | - 7 (| - | - 9.12 | - 7.76 | - 8.29 | - 7.52 | - 7.05 | - 8 13 | - 7.13 | - 7.93 | | - 7 72 | - | - 9.23 | - 7.68 | - | - 7 37 | 6.95 | 7.69 |
| Specific Conductance | uS/cm | ns | ng 10.5 | 170 | | 242 29 | 91 8970 | 8720 | 271 | 1866 | 742 | 432 | 502 | 535 | 452 | - | | 571 | 54 | 3 - | 1603 | 70 | 218 | 715 | 29 | 130 | 283 | 407 | | 421 | | 268 | 1848 | | 220 | 128 | 293 |
| Hardness | mgCaCO3/L | ns | ng | 101 | 220 | 123 15 | 50 1080 | 1000 | 23 | 1180 | 260 | 6.3 | 220 | 230 | 280 | 250 | 47 | 320 3 |) 28 | - 0 | 15 | 9.4 | 186 | 320 | 58 | 61 | 160 | 181 | - | 210 | 134 | 32 | 1240 | 170 | 113 | 59 | 150 |
| Total Dissolved Solids | mg/L | ns | 500 | 84 | - | 160 17 | 70 7280 | 7400 | 170 | 1600 | 470 | 1000 | 260 | 300 | 270 | - | - | 350 | 33 | 0 - | 26 | <5 | 160 | 490 | 270 | 66 | 200 | 250 | - | 220 | | 150 | 1700 | - | 160 | 170 | 180 |
| Total Suspended Solids Metals, Dissolved | mg/L | ns | ng | | | | 184 | 103 | | - | | - | 78 | 141 | 199 | | | 9.5 | 1 | | | - | | | | | - | | | 3.5 | - | - | 177 | - | 4 | 16 | 197 |
| Silver, dissolved | mg/L | <u>.</u> | ng | <0.00001 | <0.00001 | <0.00001 <0.0 | 0001 <0.001 | 0.0002 | < 0.00001 | <0.00001 | <0.00001 | 0.00001 | <0.00001 | <0.00001 | <0.000010 | <0.00001 | < 0.00001 < | 0.000010 <0.0 | 001 <0.00 | - 0010 | < 0.00001 | <0.0000 | 1 <0.00001 | 0.00001 | <0.00001 | < 0.00001 | <0.00001 | 0.00003 | | <0.000010 | < 0.00001 | <0.00001 | 0.000017 | 0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Aluminum, dissolved | mg/L | ns | ng | <0.001 | <0.001 | <0.001 <0.0 | 0.1525 | <0.01 | <0.001 | 0.002 | <0.001 | 0.002 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.001 <0. | 01 0.0 | - 02 | <0.001 | 0.001 | <0.001 | <0.001 | <0.001 | 0.001 | <0.001 | <0.001 | - | 0.001 | <0.001 | 0.001 | 0.002 | <0.001 | 0.003 | 0.012 | 0.005 |
| Arsenic, dissolved | mg/L mg/l | <u>0.05</u> 10 | ng | <0.0001 | 0.0003 | 0.0002 0.0 | 263 <0.01 | <0.001 | 0.0332 | 0.0011 | 0.0022 | <0.0001 | 0.0012 | 0.0004 | 0.0125 | 0.0019 | <0.0001 | 0.0114 0.0 | 65 0.00 | 37 - | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | < 0.0001 | 0.0001 | - | 0.0002 | 0.0001 | 0.0027 | 0.005 | 0.0001 | 0.0005 | 0.0001 | 0.0005 |
| Boron, dissolved | mg/L | ns | ng | <0.002 | 0.008 | 0.004 0.1 | 48 0.4 | 0.3 | 0.038 | 0.027 | 0.024 | 18.86 | 0.212 | 0.212 | 0.005 | 0.003 | 0.003 | 0.004 0.0 | 12 0.0 | 04 - | 0.05 | 0.021 | 0.004 | 0.005 | 0.026 | 0.025 | 0.005 | 0.009 | | 0.004 | 0.006 | 0.114 | 0.022 | 0.214 | 0.005 | <0.002 | 0.013 |
| Beryllium, dissolved | mg/L | <u>0.053</u> | ng | <0.00005 | <0.00005 | <0.00005 <0.0 | 0005 <0.005 | < 0.0005 | <0.00005 | <0.00005 | <0.00005 | 0.00007 | <0.00005 | <0.00005 | <0.000050 | <0.00005 | <0.00005 < | 0.000050 <0.0 | 005 <0.00 | - 0050 | <0.00005 | < 0.0000 | 5 <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | - | <0.000050 | <0.00005 | < 0.00005 | <0.000050 | <0.00005 | <0.00005 | <0.00005 | <0.00005 |
| Bismuth, dissolved | mg/L mg/l | ns | ng | <0.0001 | <0.0001 | <0.0001 <0.0 | 001 <0.01 | <0.001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | < 0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 <0.0 | 01 <0.0 | 001 - | <0.0001 | <0.0001 | < 0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | < 0.0001 | - | < 0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 |
| Cadmium, dissolved | mg/L | * | ng | <0.00001 | <0.00001 | <0.00001 <0.0 | 0001 <0.001 | <0.0001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.000010 | <0.00001 | <0.00001 < | 0.000010 <0.0 | 001 <0.00 | 0010 - | <0.00001 | <0.0000 | 1 <0.00001 | 0.00001 | <0.00001 | <0.00001 | 0.00023 | <0.00001 | - | 0.000012 | <0.00001 | <0.00001 | 0.000057 | <0.00001 | <0.00001 | 0.00002 | 0.00003 |
| Cobalt, dissolved | mg/L | 0.009 | ng | <0.00002 | 0.00024 | <0.00002 0.00 | 012 <0.002 | <0.0002 | < 0.00002 | 0.00041 | 0.00025 | <0.00002 | 0.00008 | 0.00081 | 0.0000984 | 0.00003 | <0.00002 | 0.000032 <0.0 | 0.000 | - 228 | <0.00002 | 0.00003 | 0.00002 | 0.00007 | 0.00006 | <0.00002 | 0.00004 | 0.00004 | - | 0.000055 | 0.00045 | <0.00002 | 0.001115 | <0.00002 | 0.00009 | 0.00044 | 0.00008 |
| Chromium, dissolved | mg/L | ns | ng | <0.00005 | <0.00005 | 0.0001 0.0 | 001 <0.005 | < 0.0005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | 0.00018 | <0.000050 | <0.00005 | <0.00005 < | 0.000050 <0.0 | 005 0.000 | | <0.00005 | < 0.0000 | 5 <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | - | 0.000484 | <0.00005 | <0.00005 | <0.000050 | <0.00005 | 0.00012 | 0.00019 | < 0.00005 |
| copper, aissoivea Iron, dissolved | mg/L mg/L | <u> </u> | ng | <0.0005 | <0.0005 | <0.005 <0.0 | 0.05 0.5 | <0.005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 9.27 | <0.0005 | <0.0005 0.815 | <0.0005 2.58 | <0.005 | 3.57 0.0 | 0.00 | 13 - | <0.0005 | <0.0005 | 0.0007 | <0.0005 | <0.0005 0.74 | <0.005 | 0.00099 | 6.75 | - | 0.001 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0027 | 0.0032 | 0.0054 |
| Mercury, dissolved | mg/L | 0.001 | ng | <0.00001 | <0.00001 | <0.00001 <0.0 | 0001 <0.0000 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | - | - | <0.00001 | - | - | - | <0.00001 | < 0.0000 | 1 <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | - | - | <0.00001 | <0.00001 | - | - | <0.00001 | <0.00001 | <0.00001 |
| Potassium, dissolved | mg/L | ns | ng | 2 | 1.2 | 1.8 1 | L 9.2 | 8.6 | 0.58 | 0.82 | 0.95 | 1 | 36 | 32 | 1.6 | 1.6 | 1.9 | 1.2 1 | 1. | 1 - | 1.5 | 0.73 | 1.3 | 6.4 | 2.6 | 1.6 | 0.78 | 0.96 | - | 2 | 1.7 | 2.8 | 5.9 | 2.2 | 2.6 | 2.2 | 3.2 |
| Lithium, dissolved Magnesium, dissolved | mg/L mg/l | ns | ng | 0.0022 | 0.0027 | <0.0005 0.00 9.4 c | 2 246 | 0.132 | <0.0005 | 0.0096 | 0.0181 | 0.0156 | 0.0033 | 0.0019 | 0.0101 | 0.0084 | 0.0032 | 21 0.004 | 29 0.00 |)12 - 5 - | <0.0005 | 0.0108 | 0.0038 | 0.0321 64 | 0.0092 | 0.0064 | 0.0016 | 0.001 | - | 0.0013 | 0.0017 | 0.0035 | 0.0349 | 0.002 | 0.0009 | <0.0005 | 0.0006 |
| Manganese, dissolved | mg/L | ns | ng | 0.077 | 0.092 | <0.001 0.1 | .63 0.4 | 0.32 | 0.004 | 0.293 | 0.101 | 0.003 | 0.383 | 0.359 | 0.099 | 0.128 | 0.016 | 0.414 0. | .5 0.0 | 13 - | 0.015 | 0.011 | 0.052 | 0.112 | 0.235 | 0.005 | 0.01 | 0.234 | - | 0.007 | 0.322 | 0.004 | 0.263 | 0.021 | 0.058 | 0.044 | 0.022 |
| Molybdenum, dissolved | mg/L | <u>10</u> | ng | 0.00067 | 0.00133 | 0.00089 0.00 | 029 0.0071 | 0.0048 | 0.01531 | 0.00366 | 0.0012 | 0.00003 | 0.00351 | 0.00265 | 0.00392 | 0.00341 | 0.0078 0 | 0.001344 0.0 | 98 0.000 | - 451 | 0.00691 | 0.00262 | 0.0008 | 0.00039 | 0.00266 | 0.00079 | 0.00025 | 0.001 | - | 0.001808 | 0.0011 | 0.00371 | 0.006841 | 0.00244 | 0.00093 | 0.00186 | 0.00122 |
| Sodium, dissolved | mg/L | ns | ng | 3.7 | 3.3 | 3.7 3. | 5 2150 | 2300 | 50 | 32 | 64 | 400 | 9.7 | 7.7 | 4.2 | 5.8 | 7.7 | 2.6 2 | 8. | 8 - | 5.4 | 1.6 | 3.6 | 9.8 | 38 | 3 | 2.7 | 2.8 | | 6.2 | 2.2 | 41 | 15 | 8 | 2.6 | 2.3 | 5 |
| Nickel, dissolved | mg/L mg/L | - | ng | 0.00002 | <0.0001 | <0.0004 0.0 | 0.002 | <0.007 | < 0.0004 | 0.0008 | <0.0008 | <0.0002 | <0.0001 | 0.00001 | 0.0004 | <0.0002 | 0.0003 | 0.0002 <0.0 | 02 0.00 | 029 - | < 0.0003 | <0.0007 | 0.0002 | <0.0002 | < 0.0009 | <0.0002 | 0.00005 | <0.0028 | - | 0.0013 | < 0.0008 | 0.0002 | 0.000191 | 0.0002 | < 0.0003 | <0.00015 | 0.0007 |
| Antimony, dissolved | mg/L | 0.2 | ng | 0.00005 | 0.00009 | 0.00016 0.00 | 007 <0.0020 | 0.0006 | 0.00008 | 0.00027 | 0.00287 | 0.00013 | 0.00004 | 0.000098 | 0.000104 | 0.00004 | 0.00008 | 0.00006 0.0 | 0.00 | 013 - | 0.00006 | 0.00006 | 0.000098 | 0.00008 | 0.00009 | 0.00003 | 0.00013 | 0.00005 | - | 0.000077 | 0.00005 | 0.00004 | 0.000056 | 0.00002 | 0.00015 | 0.00007 | 0.00019 |
| Sulphur, Dissolved | mg/L | ns | ng | 12 | 3.3 | 1.1 6. | 4 1570 | 1700 | 16 | 280 | 59 | 0.08 | 8.2 | 11 | 7.9 | 6.9 | 1.2 | 1.1 1 | 2. | 6 - | 0.16 | 0.14 | 19 | 100 | 37 | 0.38 | 23 | 0.69 | - | 2.8 | 0.72 | 8.3 | 300 | 19 | 2.7 | 2.5 | 2.8 |
| Selenium, dissolved | mg/L | 0.01 | ng | <0.0002 | 0.0005 | <0.0002 <0.0 | 002 <u><0.02</u> | <0.002 | < 0.0002 | < 0.0002 | < 0.0002 | < 0.0002 | < 0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 <0.0 | 02 <0.0 | 002 - | <0.0002 | <0.0002 | 0.0004 | < 0.0002 | <0.0002 | <0.0002 | 0.0006 | < 0.0002 | - | 0.0006 | <0.0002 | <0.0002 | < 0.0002 | <0.0002 | 0.0004 | <0.0002 | 0.0005 |
| Tin. dissolved | mg/L | ns | ng | < 0.0001 | <0.0001 | 0.0001 <0.0 | 001 0.33 | <0.001 | <0.0001 | 0.0005 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | 0.0001 <0.0 | 01 0.00 | 001 - | < 0.0001 | <0.0001 | 0.0004 | <0.0001 | <0.001 | <0.0001 | 0.0018 | <0.0001 | | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | 0.0003 |
| Strontium, dissolved | mg/L | ns | ng | 0.1089 | 0.2356 | 0.161 0.1 | 523 0.06 | 0.042 | 0.0874 | 2.632 | 2.968 | 0.1365 | 0.1544 | 0.1666 | 0.5753 | 0.5911 | 0.099 | 0.268 0.2 | 72 0.18 | 315 - | 0.0302 | 0.0161 | 0.1271 | 0.1633 | 0.1709 | 0.0721 | 0.1995 | 0.1882 | - | 0.2077 | 0.1219 | 0.2044 | 0.9592 | 0.1558 | 0.0963 | 0.0679 | 0.1464 |
| Tellurium, dissolved | mg/L | ns | ng | <0.00005 | <0.00005 | <0.00005 <0.0 | 0005 <0.005 | < 0.0005 | < 0.00005 | <0.00005 | <0.00005 | <0.00005 | < 0.00005 | < 0.00005 | <0.000050 | < 0.00005 | <0.00005 | .000061 <0.0 | 005 <0.00 | - 0050 | <0.00005 | < 0.0000 | 5 <0.00005 | < 0.00005 | < 0.00005 | < 0.00005 | <0.00005 | 0.00018 | - | < 0.000050 | < 0.00005 | < 0.00005 | 0.000071 | < 0.00005 | < 0.00005 | < 0.00005 | < 0.00005 |
| Thorium, dissolved | mg/L mg/l | ns 1 | ng | 0.00006 | 0.00008 | 0.00016 <0.0 | 0005 <0.005 | <0.0032 | <0.0016 | 0.00089 | 0.00014 | <0.00243 | 0.00014 | <0.00005 | <0.000050 | 0.00011 | 0.00012 < | 0.000050 0.0 | 9 0.00 | 0050 - 15 - | <0.0005 | <0.0000 | 0.00006 | 0.00036 | <0.00005 | 0.00005 | <0.00005 | 0.00048 | - | <0.000050 | 0.00016 | <0.0005 | 0.000202 | 0.00008 | <0.00005 | <0.00005 | <0.00005 |
| Thallium, dissolved | mg/L | 0.003 | ng | <0.00001 | <0.00001 | <0.00001 <0.0 | 0001 <0.001 | < 0.0001 | < 0.00001 | <0.00001 | <0.00001 | < 0.00001 | < 0.00001 | <0.00001 | <0.000010 | <0.00001 | < 0.00001 < | 0.000010 <0.0 | 001 <0.00 | 0010 - | <0.00001 | <0.0000 | 1 <0.00001 | 0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | | <0.000010 | <0.00001 | < 0.00001 | <0.000010 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Uranium, dissolved | mg/L | 3 | ng | 0.00021 | 0.00109 | 0.00152 0.00 | 005 <0.001 | 0.0001 | 0.00049 | 0.00412 | 0.0005 | 0.00025 | 0.000099 | 0.00044 | 0.000258 | 0.00008 | <0.00001 | 0.000028 0.0 | 01 0.000 | | <0.00001 | <0.0000 | 0.00078 | 0.00011 | <0.00001 | 0.00002 | 0.00034 | < 0.00001 | - | 0.000838 | < 0.00001 | <0.00001 | 0.06116 | <0.00001 | 0.00113 | 0.00013 | 0.00393 |
| Vanadium, dissolved | mg/L mg/l | ns * | ng | <0.00005 | <0.00005 | 0.0007 <0.0 | 0005 <0.005 | <0.0005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.000050 | <0.00005 | <0.00005 < | 0.000050 <0.0 | 005 0.000 | 0127 - 805 - | <0.00005 | <0.0000 | 5 <0.00005 0.0006 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 | - | 0.000084 | <0.00005 | <0.00005 | <0.000050 | <0.00005 | 0.00014 | 0.00019 | 0.0002 |
| Zirconium, dissolved | | - | 115 | 0.001 | 0.0005 | +0.0001 +0.0 | 001 <0.01 | 0.002 | 0.0012 | 0.0125 | 0.0045 | 10.0005 | 0.0002 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 <0.0 | 01 <0.0 | 001 - | <0.0001 | <0.0001 | < 0.0001 | 0.0003 | < 0.0001 | 0.0003 | <0.0001 | 0.0002 | - | <0.0001 | <0.0001 | <0.0001 | 0.0003 | <0.0001 | < 0.00015 | <0.0001 | <0.0001 |
| | mg/L | ns | ng | < 0.0001 | < 0.0001 | <0.001 <0.0 | | | 0.0012 | 0.0005 | 0.0001 | 0.0116 | | | | | <0.0001 | <0.0001 <0. | | 001 | | | | | | | | | _ | <0.0001 | ~0.0001 | | | | | | |
| Silver, dissolved, CSR sched 3 | mg/L mg/L | ns ns | ng ng | <0.0001 0.0150 | <0.0001 0.0150 | 0.0150 0.02 | 150 0.0150 | 0.01500 | 0.0012 | 0.0005 | 0.0001 0.0150 | 0.00116 | 0.0150 | 0.0150 | 0.0150 | 0.0150 | 0.00050 | 0.0150 0.0 | 50 0.03 | 150 0.0005 | 0.00050 | 0.00050 | 0.0150 | 0.0150 | 0.00050 | 0.00050 | 0.0150 | 0.0150 | 0.0005 | 0.0150 | 0.0150 | 0.00050 | 0.01500 | 0.0150 | 0.0150 | 0.00050 | 0.0150 |
| Silver, dissolved, CSR sched 3 Cadmium, dissolved, CSR Sc3 fAL | mg/L mg/L mg/L | ns ns ns | ng ng ng | <0.0001 0.0150 0.000500 | <0.0001 0.0150 - | <0.0001 <0.0001 0.0150 0.00 0.000500 0.000 | 150 0.0150 0600 - | 0.01500 | 0.00012 | 0.0005 0.01500 - 0.00000 | 0.0001 0.0150 - 0.0000 | 0.0116 0.00050 0.00010 0.020 | 0.0150 | 0.0150 | 0.0150 | 0.0150 | 0.00050 | 0.0150 0.0 | 50 0.0 | 0.0005 | 0.00050 | 0.00050 | 0.0150 | 0.0150 | 0.00050 | 0.00050 | 0.0150 | 0.0150 | 0.0005 | 0.0150 | 0.0150 | 0.00050 | 0.01500 | 0.0150 | 0.0150 | 0.00050 | 0.0150 |
| Silver, dissolved, CSR sched 3 Cadmium, dissolved, CSR Sc3 FAL Copper, dissolved, CSR Sc3 FAL Nickel, dissolved, CSR Sc3 FAL | mg/L mg/L mg/L mg/L mg/L | ns ns ns ns | ng ng ng ng ng | <0.0001 0.0150 0.000500 0.0500 0.650 | <0.0001 0.0150 - 0.0900 1.50 | 0.0001 0.00 0.0150 0.00 0.000500 0.00 0.0500 0.00 1.10 1.1 | 150 0.01500 0600 - 700 0.09000 10 1.500 | 0.01500 - 0.09000 1.500 | 0.0012 0.00050 0.00010 0.020 0.25 | 0.0005 0.01500 - 0.09000 1.500 | 0.0001 0.0150 - 0.0900 1.50 | 0.00116 0.00050 0.00010 0.020 0.25 | 0.0150 - 0.0900 1.50 | 0.0150 - 0.0900 1.50 | 0.0150 - 0.0900 1.50 | 0.0150 - 0.0900 1.50 | 0.00050 0.00030 0.020 0.25 | 0.0150 0.0 - 0.0900 0.0 1.50 1. | 50 0.03 | 0.0005 0.0005 0.0001 000 0.02 00 0.25 | 0.00050 0.00010 0.020 0.25 | 0.00050 0.00010 0.020 0.25 | 0.0150 0.000600 0.0800 1.50 | 0.0150 | 0.00050 0.00030 0.030 0.25 | 0.00050 0.00030 0.030 0.65 | 0.0150 0.000600 0.0700 1.10 | 0.0150 0.000600 0.0800 1.50 | 0.0005 0.0001 0.02 0.25 | 0.0150 | 0.0150 0.000500 0.0600 1.10 | 0.00050 0.00030 0.020 0.25 | 0.01500 - 0.09000 1.500 | 0.0150 0.000600 0.0700 1.10 | 0.0150 0.000500 0.0500 0.650 | 0.00050 0.00030 0.030 0.25 | 0.0150 0.000600 0.0700 1.10 |
| Silver, dissolved, CSR Sca fAL Cadmium, dissolved, CSR Sca fAL Copper, dissolved, CSR Sca fAL Nickel, dissolved, CSR Sca fAL Lead, dissolved, CSR Sca fAL | mg/L mg/L mg/L mg/L mg/L mg/L | ns ns ns ns ns ns | ng ng ng ng ng ng | <0.0001 0.0150 0.000500 0.0500 0.650 0.0600 | <0.0001 0.0150 - 0.0900 1.50 0.110 | 0.0001 0.0 0.0150 0.0 0.000500 0.00 0.0500 0.0 1.10 1 0.0600 0.0 | 150 0.01500 0600 700 0.09000 10 1.500 500 0.1600 | 0.01500 - 0.09000 1.500 0.1600 | 0.0012 0.00050 0.00010 0.020 0.25 0.040 | 0.0005 0.01500 - 0.09000 1.500 0.1600 | 0.0001 0.0150 - 0.0900 1.50 0.110 | 0.0116 0.00050 0.00010 0.020 0.25 0.040 | 0.0150 - 0.0900 1.50 0.110 | 0.0150 - 0.0900 1.50 0.110 | 0.0150 - 0.0900 1.50 0.110 | 0.0150 - 0.0900 1.50 0.110 | 0.0001 0.00050 0.00030 0.020 0.25 0.040 | 0.0150 0.0 - - 0.0900 0.0 1.50 1. 0.160 - | 50 0.03 00 0.09 0 1.5 0.1 | 150 0.0005 0.0001 0.0001 000 0.02 50 0.25 10 0.04 | 0.00050 0.00010 0.020 0.25 0.040 | 0.00050 0.00010 0.020 0.25 0.040 | 0.0150 0.000600 0.0800 1.50 0.0600 | 0.0150 0.0900 1.50 0.160 | 0.00050 0.00030 0.030 0.25 0.050 | 0.00050 0.00030 0.030 0.65 0.050 | 0.0150 0.000600 0.0700 1.10 0.0600 | 0.0150 0.000600 0.0800 1.50 0.0600 | 0.0005 0.0001 0.02 0.25 0.04 | 0.0900 0.150 0.110 | 0.0150 0.000500 0.0600 1.10 0.0600 | 0.00050 0.00030 0.020 0.25 0.040 | 0.01500 - 0.09000 1.500 0.1600 | 0.0150 0.000600 0.0700 1.10 0.0600 | 0.0150 0.000500 0.0500 0.650 0.0600 | 0.00050 0.00030 0.030 0.25 0.050 | 0.0150 0.000600 0.0700 1.10 0.0600 |
| Silver, dissolved, CSR sched 3 Cadmium, dissolved, CSR Sc3 FAL Copper, dissolved, CSR Sc3 FAL Nickel, dissolved, CSR Sc3 FAL Lead, dissolved, CSR Sc3 FAL Zinc, dissolved, CSR Sc3 FAL | mg/L mg/L mg/L mg/L mg/L mg/L | ns ns ns ns ns ns ns | ng ng ng ng ng ng ng | <0.0001 0.0150 0.000500 0.0500 0.650 0.0600 0.900 2.00 | <0.0001 0.0150 - 0.0900 1.50 0.110 1.65 2.00 | <0.0001 | 150 0.01500 0600 - 700 0.09000 10 1.500 6500 0.1600 000 - 000 - | 0.01500 - 0.09000 1.500 0.1600 - | 0.0012 0.00050 0.00010 0.020 0.25 0.040 0.075 | 0.0005 0.01500 - 0.09000 1.500 0.1600 | 0.0001 0.0150 - 0.0900 1.50 0.110 1.65 2.00 | 0.0116 0.00050 0.00010 0.020 0.25 0.040 0.075 | 0.0150 - 0.0900 1.50 0.110 1.65 | 0.0150 - 0.0900 1.50 0.110 1.65 | 0.0150 - 0.0900 1.50 0.110 1.65 2.00 | 0.0150 - 0.0900 1.50 0.110 1.65 | 0.00050 0.00030 0.020 0.25 0.040 0.075 | 0.0150 0.0 - - 0.0900 0.0 1.50 1. 0.160 2.40 2.40 2. | 50 0.03 | 150 0.0005 0.0001 0.0001 000 0.02 50 0.25 10 0.04 55 0.075 | 0.00050 0.00010 0.020 0.25 0.040 0.075 | 0.00050 0.00010 0.020 0.25 0.040 0.075 | 0.0150 0.000600 0.0800 1.50 0.0600 0.900 | 0.0150 0.0900 1.50 0.160 2.40 | 0.00050 0.00030 0.25 0.050 0.075 | 0.00050 0.00030 0.030 0.65 0.050 0.075 | 0.0150 0.000600 0.0700 1.10 0.0600 0.900 | 0.0150 0.000600 0.0800 1.50 0.0600 0.900 | 0.0005 0.0001 0.02 0.25 0.04 0.075 | 0.0900 0.0900 1.50 0.110 1.65 | 0.0150 0.000500 0.0600 1.10 0.0600 0.900 | 0.00050 0.00030 0.020 0.25 0.040 0.075 | 0.01500 - 0.09000 1.500 0.1600 | 0.0150 0.000600 0.0700 1.10 0.0600 0.900 | 0.0150 0.000500 0.0500 0.650 0.0600 0.900 | 0.00050 0.00030 0.030 0.25 0.050 0.075 | 0.0150 0.000600 0.0700 1.10 0.0600 0.900 |
| Silver, dissolved, CSR sched 3 Cadmium, dissolved, CSR Sc3 fAL Copper, dissolved, CSR Sc3 fAL Nickel, dissolved, CSR Sc3 fAL Lead, dissolved, CSR Sc3 fAL Tinc, dissolved, CSR Sc3 fAL Fluoride, CSR Sc3 fAL Matals, Total | mg/L mg/L mg/L mg/L mg/L mg/L mg/L | ns ns ns ns ns ns ns ns | ng ng ng ng ng ng ng ng ng ng | <0.0001 0.0150 0.000500 0.0500 0.650 0.0600 0.900 3.00 | <0.0001 0.0150 - 0.0900 1.50 0.110 1.65 3.00 | <0.0001 | 150 0.01500 0600 - 700 0.09000 10 1.500 660 0.1600 00 - 00 3.000 | 0.01500 - 0.09000 1.500 0.1600 - 3.000 | 0.0012 0.00050 0.00010 0.25 0.040 0.075 2.0 | 0.0005 0.01500 - 0.09000 1.500 0.1600 3.000 | 0.0001 0.0150 - 0.0900 1.50 0.110 1.65 3.00 | 0.0116 0.00050 0.00010 0.020 0.25 0.040 0.075 2.0 | 0.0150 - 0.0900 1.50 0.110 1.65 3.00 | 0.0150 - 0.0900 1.50 0.110 1.65 3.00 | 0.0150 - 0.0900 1.50 0.110 1.65 3.00 | 0.0150 - 0.0900 1.50 0.110 1.65 3.00 | 0.00050 0.00030 0.020 0.25 0.040 0.075 2.0 | 0.0150 0.0 0.0900 0.0 1.50 1 0.160 2 3.00 3 | 50 0.0 00 0.09 0 1.9 0.1 0 1.0 0 3.0 | 150 0.0005 150 0.0001 100 0.025 10 0.04 155 0.075 100 2 | 0.00050 0.00010 0.020 0.25 0.040 0.075 2.0 | 0.00050 0.00010 0.25 0.040 0.075 2.0 | 0.0150 0.000600 0.0800 1.50 0.0600 0.900 3.00 | 0.0150 0.0900 1.50 0.160 2.40 3.00 | 0.00050 0.00030 0.030 0.25 0.050 0.075 3.0 | 0.00050 0.00030 0.65 0.050 0.075 3.0 | 0.0150 0.000600 1.10 0.0600 0.900 3.00 | 0.0150 0.000600 0.0800 1.50 0.0600 0.900 3.00 | 0.0005 0.0001 0.02 0.25 0.04 0.075 2 | 0.0001 0.0150 0.0900 1.50 0.110 1.65 3.00 | 0.0150 0.000500 0.0600 1.10 0.0600 0.900 3.00 | 0.00050 0.00030 0.020 0.25 0.040 0.075 2.0 | 0.01500 - 0.09000 1.500 0.1600 - 3.000 | 0.0150 0.000600 0.0700 1.10 0.0600 0.900 3.00 | 0.0150 0.000500 0.0500 0.650 0.0600 0.900 3.00 | 0.00050 0.00030 0.030 0.25 0.050 0.075 3.0 | 0.0150 0.000600 0.0700 1.10 0.0600 0.900 3.00 |
| Silver, dissolved, CSR sched 3 Cadmium, dissolved, CSR Sc3 fAL Copper, dissolved, CSR Sc3 fAL Nickel, dissolved, CSR Sc3 fAL Lead, dissolved, CSR Sc3 fAL Fluoride, CSR Sc3 fAL Fluoride, CSR Sc3 fAL Michils] rotal | mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L | ns ns ns ns ns ns ns ns ns | ng ng ng ng ng ng ng ng ng ng ng | <0.0001 0.0150 0.000500 0.0500 0.650 0.0600 0.900 3.00 | <0.0001 0.0150 - 0.0900 1.50 0.110 1.65 3.00 - | 0.0001 <0.0 | 150 0.01500 05600 - 700 0.09000 10 1.500 500 0.1600 00 - 00 3.000 - 0.001 | 0.01500 - 0.09000 1.500 0.1600 - 3.000 0.0001 | 0.0012 0.00050 0.00010 0.020 0.25 0.040 0.075 2.0 | 0.0005 0.01500 - 0.09000 1.500 0.1600 - 3.000 - | 0.0001 0.0150 - 0.0900 1.50 0.110 1.65 3.00 | 0.0116 0.00050 0.00010 0.020 0.25 0.040 0.075 2.0 | 0.0150 - 0.0900 1.50 0.110 1.65 3.00 0.00003 | 0.0150 - 0.0900 1.50 0.110 1.65 3.00 0.00004 | 0.0150 - 0.0900 1.50 0.110 1.65 3.00 <0.000010 | 0.0150 - 0.0900 1.50 0.110 1.65 3.00 <0.00001 | 0.0001 0.00050 0.00030 0.020 0.25 0.040 0.075 2.0 | 0.0150 0.0. 0.0900 0.0 1.50 1. 0.160 2.40 2.40 2 3.00 3 0.000010 <0.0 | 50 0.03 00 0.09 0 1.1 0 1.0 0 3.0 00 3.0 00 3.0 | 150 0.0005 150 0.0001 000 0.02 10 0.04 155 0.075 10 2 10 0.04 10 0.04 10 2 | 0.00050 0.00010 0.020 0.25 0.040 0.075 2.0 1 - | 0.00050 0.00010 0.020 0.25 0.040 0.075 2.0 | 0.0150 0.000600 0.0800 1.50 0.0600 0.900 3.00 | 0.0150 0.0900 1.50 0.160 2.40 3.00 | 0.00050 0.00030 0.030 0.25 0.050 0.075 3.0 | 0.00050 0.00030 0.030 0.65 0.050 0.075 3.0 | 0.0150 0.000600 0.0700 1.10 0.0600 0.900 3.00 | 0.0150 0.000600 0.0800 1.50 0.0600 0.900 3.00 | 0.0005 0.0001 0.02 0.25 0.04 0.075 2 0.000017 | 0.0000 0.0150 0.0900 1.50 0.110 1.65 3.00 <0.000010 | 0.0150 0.000500 0.0600 1.10 0.0600 0.900 3.00 | 0.00050 0.00030 0.020 0.25 0.040 0.075 2.0 | 0.01500 - 0.09000 1.500 0.1600 - - - 0.000016 | 0.0150 0.000600 0.0700 1.10 0.0600 0.900 3.00 <0.00001 | 0.0150 0.000500 0.650 0.660 0.900 3.00 0.900 3.00 | 0.00050 0.00030 0.25 0.050 0.075 3.0 0.00007 | 0.0150 0.000600 0.0700 1.10 0.0600 0.900 3.00 0.00007 |
| Silver, folsolved, CSR sched 3 Cadmium, dissolved, CSR Sc3 fAL Copper, dissolved, CSR Sc3 fAL Nickel, dissolved, CSR Sc3 fAL Lead, dissolved, CSR Sc3 fAL Fluoride, CSR Sc3 fAL Fluoride, CSR Sc3 fAL Methls, Tochl Silver, total Aluminum, total | mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L | ns ns ns ns ns ns ns ns ns ns ns | ng ng ng ng ng ng ng ng ng ng ng ng 0.1 | <0.0001 0.0150 0.000500 0.0500 0.0500 0.0600 0.900 3.00 - - | <0.0001 0.0150 - 0.0900 1.50 0.110 1.65 3.00 - - | 0.0001 <0.0 | 150 0.0150 0600 - 700 0.0900 10 1.500 500 0.1600 00 - 00 3.000 0.031 0.001 | 0.01500 - 0.09000 1.500 0.1600 - 3.000 0.0001 0.03 | 0.0012 0.00050 0.00010 0.220 0.25 0.040 0.075 2.0 | 0.0005 0.01500 | 0.0001 0.0150 - 0.0900 1.50 0.110 1.65 3.00 - - | 0.0116 0.00050 0.00010 0.22 0.25 0.040 0.075 2.0 | 0.0150 - 0.0900 1.50 0.110 1.65 3.00 0.00003 0.69 | 0.0150 - 0.0900 1.50 0.110 1.65 3.00 0.00004 0.86 | 0.0150 - 0.0900 1.50 0.110 1.65 3.00 <0.000010 | 0.0150 - 0.0900 1.50 0.110 1.65 3.00 <0.00001 0.008 | 0.0001 0.00030 0.020 0.25 0.040 0.075 2.0 - - | 0.0150 0.0. - 0.0900 0.50 1. 0.150 1. 0.160 2.40 2.40 2. 0.000010 <0.0 | 50 0.0: 00 0.09 0 1.1 0 1.4 0 1.4 0 3.0 001 <0.00 | 500 0.0005 50 0.0001 000 0.02 50 0.255 10 0.04 55 0.075 00 0 0010 <0.0000 | 0.00050 0.00010 0.020 0.25 0.040 0.075 2.0 1 - 1 - | 0.00050 0.00010 0.225 0.040 0.075 2.0 - - | 0.0150 0.000600 0.0800 1.50 0.0600 0.900 3.00 - - | 0.0150 0.0900 1.50 0.160 2.40 3.00 - - | 0.00050 0.00030 0.030 0.25 0.050 0.075 3.0 - - | 0.00050 0.00030 0.030 0.65 0.050 0.075 3.0 - | 0.0150 0.000600 0.0700 1.10 0.0600 0.900 3.00 - - | 0.0150 0.000600 0.0800 1.50 0.0600 0.900 3.00 - - | 0.0005 0.0001 0.02 0.25 0.04 0.075 2 0.000017 0.018 | <pre><</pre> | 0.0001 0.0150 0.0600 1.10 0.0600 0.900 3.00 | 0.00050 0.00030 0.25 0.040 0.075 2.0 - - | 0.01500 - 0.09000 1.500 0.1600 - 3.000 0.000016 0.45 | 0.0150 0.000600 0.0700 1.10 0.0600 0.900 3.00 <0.0001 <0.001 | 0.0150 0.000500 0.650 0.0600 0.900 3.00 0.00005 0.2 | 0.00050 0.00030 0.25 0.050 0.075 3.0 0.00007 0.988 | 0.0150 0.000600 0.0700 1.10 0.0600 0.900 3.00 0.00007 2.8 |
| Silver, dissolved, CSR sched 3 Cadmium, dissolved, CSR Sc3 fAL Copper, dissolved, CSR Sc3 fAL Nickel, dissolved, CSR Sc3 fAL Lead, dissolved, CSR Sc3 fAL Fluoride, CSR Sc3 fAL Fluoride, CSR Sc3 fAL Michils, Tochl Silver, total Aluminum, total Arsenic, total | mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L | ns ns ns ns ns ns ns ns ns ns ns ns ns n | ng ng ng ng ng ng ng ng ng 0.1 0.010 | <0.0001 0.0150 0.000500 0.0500 0.0650 0.0660 0.900 3.00 - - - | <0.0001 0.0150 - 0.0900 1.50 0.110 1.65 3.00 - - - | 0.0001 40.0 0.0150 0.0 0.00500 0.00 0.5500 0.0 1.10 1 0.6600 0.0 0.900 0.9 3.00 3.0 - - - - - - | 150 0.0150 0600 - 700 0.0900 10 1.500 500 - 000 - 000 - 000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - | 0.01500 - 0.09000 1.500 0.1600 - 3.000 0.0001 0.03 0.001 0.005 | 0.0012 0.00050 0.00010 0.020 0.25 0.040 0.075 2.0 - - | 0.0005 0.01500 - 0.09000 1.500 0.1600 - - - - - | 0.0001 0.0150 - 0.0900 1.50 0.110 1.65 3.00 | 0.0116 0.00050 0.00010 0.020 0.25 0.040 0.075 2.0 - - - | 0.0150 - 0.0900 1.50 0.110 1.65 3.00 0.00003 0.69 0.0045 0.31 | 0.0150 0.0900 1.50 0.110 1.65 3.00 0.00004 0.86 0.0065 0.35 | 0.0150 0.0900 1.50 0.110 1.65 3.00 <0.000010 0.51 0.02 0.41 | 0.0150 0.0900 1.50 0.110 1.65 3.00 | 0.0001 0.00030 0.00030 0.020 0.25 0.040 0.075 2.0 | 0.0150 0.0 - - 0.0900 0.0 1.50 1 0.160 2 2.40 2 3.00 3 0.000010 <0.0 | 50 0.0: 00 0.09 0 1.1 0 1.4 0 1.4 0 3.6 0001 <0.00 | 501 0.0005 0.0001 0.0001 0.0001 0.02 00 0.25 10 0.04 55 0.075 00010 <0.0000 | 0.00050 0.00010 0.020 0.25 0.040 0.075 2.0 1 - - | 0.00050 0.00010 0.25 0.040 0.075 2.0 - - - | 0.0150 0.000600 0.0800 1.50 0.0600 0.900 3.00 - - - | 0.0150 0.0900 1.50 0.160 2.40 3.00 | 0.00050 0.00030 0.030 0.25 0.050 0.075 3.0 - - - | 0.00050 0.00030 0.030 0.65 0.050 0.075 3.0 - - - | 0.0150 0.000600 0.0700 1.10 0.0600 0.900 3.00 - - - | 0.0150 0.000600 0.0800 1.50 0.0600 0.900 3.00 - - - - | 0.0005 0.0001 0.02 0.25 0.04 0.075 2 0.000017 0.018 0.0016 0.011 | <pre><</pre> | 0.0150 0.000500 0.0600 1.10 0.0600 0.900 0.900 - - - | 0.00050 0.00030 0.25 0.040 0.075 2.0 - - - | 0.01500 - 0.09000 1.500 0.1600 - 0.000016 0.45 0.22 0.038 | 0.0150 0.000600 0.0700 1.10 0.0600 0.900 3.00 <0.0001 <0.001 0.0002 | 0.0150 0.000500 0.0500 0.0650 0.0600 0.900 3.00 0.00005 0.2 0.0006 0.0006 | 0.00050 0.00030 0.25 0.050 0.075 3.0 0.00007 0.98 0.0003 0.003 | 0.0150 0.000600 0.0700 1.10 0.0600 0.900 3.00 0.00007 2.8 0.0012 0.055 |
| Silver, dissolved, CSR sched 3 Cadmium, dissolved, CSR Sc3 fAL Copper, dissolved, CSR Sc3 fAL Lead, dissolved, CSR Sc3 fAL Ead, dissolved, CSR Sc3 fAL Zinc, dissolved, CSR Sc3 fAL Filvoride, CSR Sc3 fAL Michiler, CSR Sc3 | mg/L | ns ns ns ns ns ns ns ns ns ns ns ns ns n | ng ng ng ng ng ng ng ng 0.1 0.010 1 ng | <0.0001 0.0150 0.000500 0.0500 0.0600 0.900 3.000 - - - - - - - | <pre><0.0001 0.0150 0.0150 0.0900 1.50 0.110 1.65 3.00 0 0.1 0.1 0.1 0.5 0.1 0.1 0.1 0.5 0.5 0.1 0.5 0.1 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5</pre> | 0.0010 0.00 0.0150 0.0 0.00500 0.00 0.0500 0.00 0.000500 0.00 0.000 0.00 0.000 0.00 0.000 0.00 0.000 0.00 0.000 0.00 0.000 0.00 0.000 0.900 0.900 0.900 - - - - - - - - | 150 0.0150 0600 - 700 0.0900 10 1.500 550 0.1600 00 - 00 - 00 - 00 - 00 - 00 - 00 - 0.001 - 0.001 - 0.001 - 0.02 - 0.02 - 0.02 - 0.025 - | 0.01500 - 0.09000 1.500 0.1600 - 3.000 0.0001 0.03 0.001 0.005 <0.0005 | 0.0012 0.00050 0.00010 0.020 0.25 0.040 0.075 2.0 - - - - - | 0.0005 0.01500 - - 0.09000 1.500 0.1600 - - - - - - - - - - | 0.0001 0.0150 - 0.0900 1.50 0.110 1.65 3.00 - - - - - - - | 0.0116 0.00050 0.00010 0.25 0.040 0.075 2.0 - - - - | 0.0150 - 0.0900 1.50 0.110 1.65 3.00 0.00003 0.69 0.0045 0.21 <0.00005 | 0.0150 - 0.0900 1.50 0.110 1.65 3.00 0.00004 0.86 0.0065 0.25 0.25 | 0.0150 0.0900 1.50 0.110 1.65 3.00 <0.000010 | 0.0150 - 0.0900 1.50 0.110 1.65 3.00 <0.00001 0.008 0.0025 0.29 <0.00005 | 0.0001 0.00030 0.00030 0.020 0.25 0.040 0.075 2.0 - | 0.0150 0.0 0.0900 0.0 1.50 1 0.160 0 2.40 2 3.00 3 0.000010 <0.0 | 50 0.0 00 0.0 0 1.1 0.1 0.1 0.0 1.4 0.0 1.4 0.0 1.4 0.1 0.1 0.1 1.4 0.1 0.0 0.2 0.1 0.05 <0.00 | 0.001 0.0005 0.0001 0.0001 000 0.02 00 0.02 00 0.02 010 0.04 055 0.075 0010 <0.0000 | 0.00050 0.00010 0.22 0.25 0.040 0.075 2.0 1 - - - 5 - | 0.00050 0.00010 0.25 0.040 0.075 2.0 - - - - - | 0.0150 0.000600 0.0800 1.50 0.0600 0.900 3.00 - - - - | 0.0150 0.0900 1.50 0.160 2.40 3.00 - - - - - - - | 0.00050 0.00030 0.030 0.25 0.050 0.075 3.0 - - - - - | 0.00050 0.00030 0.030 0.65 0.050 0.075 3.0 - - - - - - | 0.0150 0.000600 0.0700 1.10 0.0600 0.900 3.00 - - - - | 0.0150 0.000600 0.0800 1.50 0.0600 0.900 3.00 - - - - - - - - | 0.0005 0.0001 0.02 0.25 0.04 0.075 2 0.000017 0.018 0.0006 0.11 <0.00050 | <pre><</pre> | 0.0150 0.000500 0.0600 1.10 0.0600 0.900 3.00 - - - - - | 0.00050 0.00030 0.220 0.25 0.040 0.075 2.0 - - - - - - - - - | 0.01500 - 0.09000 1.500 0.1600 0.1600 0.000016 0.45 0.22 0.038 0.00023 | 0.0150 0.000600 0.0700 1.10 0.0600 0.900 3.00 <0.0001 <0.001 0.0002 0.023 <0.00005 | 0.0150 0.000500 0.650 0.0600 0.900 3.00 0.00005 0.2 0.0006 0.048 <0.00005 | 0.00050 0.0030 0.25 0.050 0.075 3.0 0.0007 0.98 0.0003 0.034 <0.0005 | 0.0150 0.000600 0.0700 1.10 0.0600 0.900 3.00 0.00007 2.8 0.0007 2.8 0.0012 0.055 0.00008 |
| Silver, dissolved, CSR sched 3 Cadmium, dissolved, CSR Sc3 fAL Copper, dissolved, CSR Sc3 fAL Lead, dissolved, CSR Sc3 fAL Ead, dissolved, CSR Sc3 fAL Zinc, dissolved, CSR Sc3 fAL Fluoride, CSR Sc3 fAL Michis, Total Silver, total Aluminum, total Arsenic, total Barlum, total Bismuth, total | mg/L | ns ns ns ns ns ns ns ns ns ns ns ns ns n | ng ng ng ng ng ng ng ng ng 0.1 0.010 1 ng ng | <0.0001 0.0150 0.000500 0.0500 0.0600 0.900 3.000 - - - - - - - - - - - - - | <pre><0.0001 0.0150 0.0150 0.0900 1.50 0.110 1.65 3.00 0.1 0.1 0.1 0.5 0.1 0.1 0.1 0.5 0.1 0.5 0.1 0.1 0.5 0.1 0.5 0.1 0.5 0.1 0.5 0.1 0.5 0.1 0.5 0.1 0.5 0.1 0.5 0.1 0.5 0.1 0.5 0.1 0.5 0.1 0.5 0.1 0.5 0.1 0.5 0.1 0.5 0.1 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5</pre> | 0.0011 60.0 0.0150 0.0 0.00500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.000 0.90 0.000 0.90 - - - - - - - - - - - - | 150 0.0150 0600 - 700 0.0900 10 1.500 560 0.1600 000 - 000 - 000 - 000 - 000 - 0.001 - 0.001 - 0.021 - 0.03 - 0.021 - 0.021 - 0.021 - 0.022 - - - - - - - - - - - - - - - - - - </td <td>0.01500 - 0.09000 1.500 0.1600 - 3.000 0.0001 0.03 0.001 0.005 <0.005 <0.001</td> <td>0.0012 0.00050 0.00010 0.25 0.040 0.075 2.0 - - - - - - -</td> <td>0.0005 0.01500 - - 0.09900 1.500 0.1600 - - - - - - - - - - - - -</td> <td>0.0001 0.0150 - 0.0900 1.50 0.110 1.65 3.00 - - - - - - - -</td> <td>0.0116 0.00050 0.00010 0.25 0.040 0.075 2.0 - - - - - - - -</td> <td>0.0150 - 0.0900 1.50 0.110 1.65 3.00 0.00003 0.69 0.0045 0.21 <0.00005 <0.0001</td> <td>0.0150 - 0.0900 1.50 0.110 1.65 3.00 0.00004 0.86 0.0065 0.25 0.00007 <0.0001</td> <td>0.0150 0.0900 1.50 0.110 1.65 3.00 0.51 0.02 0.41 0.000061 <0.0001</td> <td>0.0150 - 0.0900 1.50 0.110 1.65 3.00 <0.00001 0.008 0.0025 0.29 <0.00005 <0.0001</td> | 0.01500 - 0.09000 1.500 0.1600 - 3.000 0.0001 0.03 0.001 0.005 <0.005 <0.001 | 0.0012 0.00050 0.00010 0.25 0.040 0.075 2.0 - - - - - - - | 0.0005 0.01500 - - 0.09900 1.500 0.1600 - - - - - - - - - - - - - | 0.0001 0.0150 - 0.0900 1.50 0.110 1.65 3.00 - - - - - - - - | 0.0116 0.00050 0.00010 0.25 0.040 0.075 2.0 - - - - - - - - | 0.0150 - 0.0900 1.50 0.110 1.65 3.00 0.00003 0.69 0.0045 0.21 <0.00005 <0.0001 | 0.0150 - 0.0900 1.50 0.110 1.65 3.00 0.00004 0.86 0.0065 0.25 0.00007 <0.0001 | 0.0150 0.0900 1.50 0.110 1.65 3.00 0.51 0.02 0.41 0.000061 <0.0001 | 0.0150 - 0.0900 1.50 0.110 1.65 3.00 <0.00001 0.008 0.0025 0.29 <0.00005 <0.0001 | 0.00050 0.00050 0.020 0.22 0.25 0.040 0.075 2.0 - - - - - - - - - - - - - - - - - - - | 0.0150 0.0 - - 0.0900 0.0 1.50 1 0.160 - 2.40 2 3.00 3 0.000010 <0.0 | 50 0.0 00 0.09 0 1.3 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.2 0.2 0.05 <0.00 | 0.001 0.0005 0.0001 0.0001 0.0001 0.021 0.001 0.025 0.001 0.025 0.001 <0.0000 | 0.00050 0.00010 0.020 0.25 0.040 0.075 2.0 1 - - - 5 5 - 1 | 0.00050 0.00010 0.220 0.040 0.075 2.0 - - - - - - - - - - | 0.0150 0.000600 0.0800 1.50 0.0600 0.900 3.00 - - - - - - - - - | 0.0150 0.0900 1.50 0.160 2.40 3.00 - - - - - - - - - | 0.00050 0.00030 0.030 0.25 0.050 0.075 3.0 - - - - - - - - - - - | 0.00050 0.00030 0.030 0.65 0.050 0.075 3.0 - - - - - - | 0.0150 0.000600 0.0700 1.10 0.0600 0.900 3.00 - - - - - - - | 0.0150 0.000600 0.0800 1.50 0.0600 0.900 3.00 - - - - - - - - - - - | 0.0005 0.0001 0.02 0.25 0.04 0.075 2 0.000017 0.018 0.0006 0.11 <0.000050 <0.0001 | 0.0001 0.0150 0.0900 1.50 0.110 1.65 3.00 <0.000010 | 0.0150 0.00500 0.0600 1.10 0.0600 0.900 3.00 - - - - - - | 0.00050 0.00030 0.25 0.040 0.075 2.0 - - - - - - - - - - | 0.01500 - 0.09000 1.500 0.1600 - 0.00016 0.45 0.22 0.038 0.00023 <0.0001 | 0.0150 0.000600 0.0700 1.10 0.0600 0.900 3.00 <0.0001 <0.001 0.0023 <0.00005 <0.0001 | 0.0150 0.000500 0.650 0.660 0.900 3.00 0.00005 0.2 0.0006 0.048 <0.00005 <0.0001 | 0.00050 0.0030 0.25 0.055 0.075 3.0 0.0007 0.98 0.0003 0.034 <0.0005 \$<0.0001 | 0.0150 0.000600 0.0700 1.10 0.900 3.00 0.00007 2.8 0.0012 0.055 0.00008 <0.0001 |
| Silver, dissolved, CSR sched 3 Cadmium, dissolved, CSR Sc3 fAL Copper, dissolved, CSR Sc3 fAL Lead, dissolved, CSR Sc3 fAL Lead, dissolved, CSR Sc3 fAL Zinc, dissolved, CSR Sc3 fAL Fluoride, CSR Sc3 fAL Michais, Total Silver, total Barium, total Barium, total Beryllium, total Beryllium, total Boron, total Colcium, total | mg/L | ns ns ns ns ns ns ns ns ns ns ns ns ns n | ng ng ng ng ng ng ng ng ng 0.1 0.10 0.1 1 ng s 5 | <0.0001 0.0150 0.000500 0.0500 0.0500 0.0600 0.900 3.00 | <0.0001 0.0150 0.0150 0.0900 1.50 0.110 1.65 0.110 0.12 0.000 0.110 0.110 0.12 0.110 | 0.0011 60.0 0.0150 0.0 0.00500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.0600 0.00 0.0900 0.3 - - - - - - - - - - - - - - - - - - - - | 150 0.01500 0600 - 700 0.09000 10 1.500 500 0.1600 000 - 000 - 000 - 000 - 000 - 0.001 0.001 0.3 - 0.001 - 0.002 - 0.003 - 0.004 - 0.005 - 0.005 - 0.005 - 0.005 - 0.005 - 0.001 0.3 0.3 - | 0.01500 - 0.09000 1.500 0.1600 - 3.000 0.0001 0.03 0.001 0.005 <0.0005 <0.0001 0.27 17 | 0.0012 0.00050 0.00010 0.25 0.040 0.075 2.0 - - - - - - - | 0.0005 0.01500 - - 0.09000 1.500 0.1600 - - - - - - - - - - - - - - - | 0.0001 0.0150 - 0.0900 1.50 0.110 1.65 3.00 - - - - - - - - - - | 0.0016 0.00050 0.00010 0.020 0.25 0.040 0.075 2.0 - - - - - - - - - - | 0.0150 - 0.0900 1.50 0.110 1.65 3.00 0.00003 0.69 0.0045 0.21 <0.00005 <0.0001 0.22 67 | 0.0150 - 0.0900 1.50 0.110 1.65 3.00 0.00004 0.86 0.0065 0.25 0.25 0.00007 <0.0001 0.22 76 | 0.0150 0.0900 1.50 0.110 1.65 3.00 0.51 0.02 0.41 0.000061 <0.0001 0.005 92 | 0.0150 - 0.0900 1.50 0.110 1.65 3.00 - <0.00001 0.008 0.0025 0.29 <0.00005 <0.29 <0.00005 <0.0001 0.004 77 | 0.00050 0.00050 0.020 0.220 0.25 0.040 0.075 2.0 - | 0.0150 0.0 0.0900 0.0 1.50 1 0.160 0 2.40 2 0.000010 <0.0 | 50 0.02 000 0.050 0 1.12 0 1.13 0 1.13 0 1.01 0 1.01 0 1.01 0 1.01 0 1.01 0 1.01 0 1.01 0 1.01 0.01 0.000 0.01 0.000 2 0.0000 0.01 <0.00001 | 0000 0.0005 0.0001 0.001 000 0.025 10 0.04 55 0.075 0010 <0.0000 | 0.00050 0.00010 0.020 0.25 0.040 0.075 2.0 1 - - 5 5 - 1 - - | 0.00050 0.00010 0.25 0.040 0.075 2.0 - - - - - - - - - - - - | 0.0150 0.000600 0.0800 1.50 0.900 3.00 - - - - - | 0.0150 0.0900 1.50 0.160 2.40 3.00 - - - - - - - - - - - | 0.00050 0.00030 0.030 0.25 0.050 0.075 3.0 - - - - - - - - - - - - | 0.00050 0.00030 0.030 0.65 0.050 0.075 3.0 - - - - - - - - - - - | 0.0150 0.000600 0.0700 1.10 0.0600 0.900 3.00 - - - - - - - - - - - - | 0.0150 0.000600 0.0800 1.50 0.0600 0.900 3.00 - - - - - - - - - - - - - - | 0.0005 0.0001 0.02 0.25 0.04 0.075 2 0.000017 0.018 0.0006 0.11 <0.000050 <0.0001 0.004 64 | 0.0001 0.0150 0.0900 1.50 0.110 1.65 3.00 (0.00010 0.003 0.0005 0.097 <0.000050 <0.0001 0.0005 0.097 <0.00001 0.0001 0.0005 0.0001 0.000 0.000 0.000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.000000 0.000000 0.00000 0.00000 0.00000000 | 0.0150 0.00500 0.0600 1.10 0.0600 0.900 3.00 - - - - - - - - - - | 0.00050 0.00030 0.020 0.25 0.040 0.075 2.0 - - - - - - - - - - - - | 0.01500 - 0.09000 1.500 0.1600 0.1600 0.000016 0.45 0.22 0.038 0.00023 <0.0001 0.02 0.022 | 0.0150 0.000600 0.0700 1.10 0.0600 0.900 3.00 <0.0001 <0.001 0.0002 0.023 <0.00005 <0.0001 0.24 19 | 0.0150 0.000500 0.650 0.660 0.900 3.00 0.00005 0.2 0.0006 0.048 <0.00005 <0.0001 0.008 30 | 0.00050 0.00030 0.030 0.25 0.050 0.075 3.0 0.00007 0.98 0.0033 0.033 0.0003 0.344 <0.00005 | 0.0150 0.000600 0.0700 1.10 0.0600 0.900 3.00 2.8 0.00012 0.055 0.00008 <0.0001 0.015 5.4 |
| Silver, dissolved, CSR sched 3 Cadmium, dissolved, CSR Sc3 fAL Copper, dissolved, CSR Sc3 fAL Nickel, dissolved, CSR Sc3 fAL Lead, dissolved, CSR Sc3 fAL Euad, dissolved, CSR Sc3 fAL Fluoride, CSR Sc3 fAL Mitabls, Total Silver, total Barium, total Barium, total Beryllium, total Beryllium, total Boron, total Cadmium, total | mg/L | ns ns ns ns ns ns ns ns ns ns ns ns ns n | ng ng ng ng ng ng ng ng ng 0.1 0.010 1 1 0.010 1 5 5 0.005 | <0.0001 0.0150 0.00050 0.0500 0.0500 0.0500 0.0600 0.900 3.00 - - - - - - - - - - - - - - - - - - | <0.0001 0.0150 0.0150 0.0900 1.50 0.110 1.65 3.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0.0011 60.0 0.0150 0.0 0.00500 0.00 0.0500 0.00 1.10 1. 0.0600 0.0 0.900 0.30 3.00 3.4 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - | 150 0.01500 0600 - 700 0.09000 10 1.500 500 0.1600 000 - 000 - 000 - 000 - 000 - 000 - 000 - 0.001 - 0.001 - 0.002 - - 0.03 - 0.33 - 3.39 - - - 0.001 | 0.01500 0.09000 0.09000 0.1500 0.0600 0.0001 0.003 0.001 0.005 <0.005 <0.005 <0.005 <0.001 0.27 17 <0.001 | 0.0012 0.00050 0.00010 0.020 0.25 0.040 0.075 2.0 - - - - - - - - - - - - | 0.0005 0.01500 | 0.0001 0.0150 - - 0.0990 1.50 0.110 1.65 3.00 - - - - - - - - - - - - - - - - | 0.0016 0.00050 0.00010 0.020 0.25 0.040 0.075 2.0 - - - - - - - - - - - - - | 0.0150 - 0.0900 1.50 0.110 1.65 3.00 0.0003 0.69 0.0045 0.0005 <0.0005 <0.0005 <0.0001 0.22 67 0.00013 | 0.0150 - 0.0900 1.50 0.110 1.65 3.00 0.0004 0.86 0.0065 0.25 0.00007 <0.0001 0.22 76 0.00028 | 0.0150 0.0900 1.50 0.110 1.65 3.00 | 0.0150 - 0.0900 1.50 0.110 1.65 3.00 <0.0001 0.008 0.0025 0.29 <0.00005 <0.0001 0.004 77 0.00001 | 0.00050 0.00050 0.00030 0.020 0.25 0.040 0.75 - | 0.0150 0.0 0.0150 0.0 - - 0.0900 0.0 1.50 1 0.160 2 2.40 2 0.00010 <0.0 | 50 0.02 00 0.050 0 1.10 0.1 0.1 0.0 1.0 0.1 0.1 0.0 1.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 0.0 | 0.000 0.0005 0.0001 0.025 0.001 0.025 10 0.04 55 0.075 0010 <0.000 | 0.00050 0.00010 0.020 0.25 0.040 0.075 2.0 1 - - - - - 5 - - - - - - - - - - - - - | 0.00050 0.00010 0.020 0.025 0.040 0.075 2.0 - - - - - - - - - - - - - - - - - | 0.0150 0.000600 0.0800 1.50 0.0600 0.900 - - - - - - - - - - - - - - - - | 0.0150 0.0900 1.50 0.160 2.40 3.00 | 0.00050 0.00030 0.030 0.25 0.050 0.075 3.0 - - - - - - - - - - - - - | 0.00050 0.0030 0.030 0.030 0.050 0.075 3.0 | 0.0150 0.000600 0.0700 1.10 0.0600 0.900 3.00 - - - - - - - - - - - - | 0.0150 0.000600 0.0800 1.50 0.0600 0.900 3.00 - - - - - - - - - - - - - - - - - - | 0.0005 0.0001 0.02 0.25 0.04 0.075 2 0.000017 0.018 0.0006 0.11 0.0006 0.0115 <0.00006 <0.00015 <0.00014 0.00043 | 0.0001 0.0150 0.0900 1.50 0.110 1.65 3.00 0.0001 0.003 0.0005 0.007 <0.00005 <0.0001 0.003 <0.0001 0.003 <0.0001 <0.0001 <0.00018 | 0.0150 0.00500 0.000500 0.0600 0.900 0.900 - - - - - - - - - - - - - | 0.00050 0.00030 0.020 0.25 0.040 0.075 2.0 - - - - - - - - - - - - - - - - - - - | 0.01500 | 0.0150 0.000600 0.0700 1.10 0.0600 0.900 3.00 <0.00001 <0.0001 0.0002 0.023 <0.00005 <0.0001 0.24 18 <0.00001 | 0.0150 0.000500 0.0500 0.650 0.900 3.00 0.00005 0.2 0.0006 0.048 <0.00005 0.048 <0.00001 | 0.00050 0.00030 0.320 0.25 0.050 0.075 0.050 0.075 0.0007 0.98 0.00007 0.98 0.0003 0.034 0.034 0.034 0.0005 <0.0001 | 0.0150 0.000600 1.10 0.0600 0.900 3.00 2.8 0.00007 2.8 0.0007 2.8 0.0012 0.055 0.00008 <0.0001 0.015 54 0.00005 |
| Silver, dissolved, CSR sched 3 Cadmium, dissolved, CSR Sc3 fAL Copper, dissolved, CSR Sc3 fAL Nickel, dissolved, CSR Sc3 fAL Lead, dissolved, CSR Sc3 fAL Eud, dissolved, CSR Sc3 fAL Fluoride, CSR Sc3 fAL Matals, Total Silver, total Barvim, total Beryllium, total Beryllium, total Beryllium, total Cadmium, total Cadmium, total Cadmium, total Cadmium, total | mg/L | ns ns ns ns ns ns ns ns ns ns ns ns ns n | ng ng ng ng ng ng ng ng ng 0.1 0.010 1 1 ng 5 5 ng 0.005 ng | -0.0001 0.0150 0.00500 0.0500 0.0500 0.6600 0.900 3.00 - | <pre><0.0001 0.0150 0.0150 0.0900 1.50 0.110 1.65 0.000 0.110 1.65 0.00 0.000 0.00 0.00 0.00 0.00 0.00</pre> | 0.0011 60.0 0.0150 0.0 0.000500 0.00 0.0500 0.00 0.0500 0.00 0.0000 0.00 0.0000 0.00 0.0000 0.00 0.900 0.00 0.900 0.00 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - | 150 0.0150 0600 - 700 0.0900 10 1.500 500 0.1600 | 0.01500 0.09900 1.500 0.1600 0.001 0.003 0.001 0.003 0.001 0.005 <0.0001 0.27 17 <0.001 0.0097 | 0.0012 0.00050 0.00010 0.020 0.25 0.040 0.075 0.040 0.075 0.040 0.075 0.040 0.075 0.040 0.075 0.040 0.075 0.040 0.005 00000000 | 0.0005 0.01500 - - 0.09000 1.500 0.1600 - - - - - - - - - - - - - - - - - - | 0.0001 0.0150 | 0.00050 0.00050 0.00010 0.020 0.25 0.040 0.075 2.0 - - - - - - - - - - - - - - - - - - - | 0.0150 - 0.0900 1.50 0.110 1.65 3.00 0.0003 0.0003 0.0045 0.21 | 0.0150 0.0900 1.50 0.110 1.65 3.00 0.00004 0.866 0.0065 0.25 0.00007 | 0.0150 0.9900 1.50 0.110 1.65 3.00 0.51 0.02 0.41 0.000011 0.005 92 0.00011 0.0012 | 0.0150 - 0.0900 1.50 0.110 1.65 3.00 <0.0001 | 0.0003 0.00030 0.020 0.020 0.025 0.040 0.075 2.0 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - | 0.0150 0.0 - 0.0900 1.50 1 0.160 2 2.40 2 3.00 3 0.000010 <0.0 | 50 0.02 000 0.05 0 1.10 0 1.10 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.00 0.01 0.00 0.01 0.00 0.005 0.00005 0.01 -0.00 0.33 0.03 0.0002 0.000002 | 0.50 0.0005 0.0001 0.001 0.00 0.025 0.00 0.25 10 0.04 0.55 0.075 00 2 0010 <0.0000 | 0.00050 0.00010 0.020 0.25 0.040 0.075 2.0 - - - - - - - - - - - - - | 0.00050 0.00010 0.025 0.040 | 0.0150 0.000600 0.0800 1.50 0.0600 0.900 3.00 - - - - - - - - - - - - - - - - | 0.0150 0.0900 1.50 0.160 2.40 3.00 - - - - - - - - - - - - - | 0.00050 0.00030 0.25 0.050 0.075 0.075 0.075 0.075 - - - - - - - - - - - - - - - - - - - | 0.00050 0.00030 0.030 0.65 0.050 0.075 3.0 | 0.0150 0.00660 0.0700 1.10 0.0600 0.900 3.00 | 0.0150 0.00660 0.0800 1.50 0.0660 0.900 3.00 | 0.0005 0.0001 0.02 0.25 0.04 0.075 2 0.000017 0.018 0.0006 0.11 <0.00050 <0.00050 <0.0004 64 0.00004 0.0004 0.00004 0.00004 0.00004 0.000069 | 0.0001 0.0150 0.0500 0.900 1.50 0.110 1.65 3.00 0.0001 0.003 0.0005 0.0075 0.00075 0.00075 0.00016 0.00018 0.00015 | 0.0150 0.0150 0.0600 1.10 0.0600 0.900 3.00 - - - - - - - - - - - - - - - - - - | 0.00050 0.00030 0.020 0.25 0.040 0.075 2.0 - - - - - - - - - - - - - - - - - - - | 0.01500 | 0.0150 0.000600 0.0700 1.10 0.0600 0.900 3.00 3.00 40.00001 40.0001 0.002 0.023 40.00001 0.023 40.00001 0.24 18 8 40.00001 0.24 | 0.0150 0.000500 0.0500 0.650 0.900 0.900 0.900 0.900 0.900 0.00005 0.00005 0.0005 0.0005 0.0005 0.0005 0.0000 0.0000 0.0000 0.00001 0.000019 | 0.00050 0.00030 0.320 0.25 0.050 0.075 3.0 0.0007 0.98 0.00003 0.34 <0.00005 <0.00005 <0.0002 20 0.00005 <0.0002 20 0.00005 | 0.0150 0.000600 0.0700 0.0700 1.10 0.0600 0.900 0.900 0.900 0.900 0.00017 0.0001 0.015 54 0.00011 0.0001 |
| Silver, dissolved, CSR sched 3 Cadmium, dissolved, CSR Sc3 FAL Copper, dissolved, CSR Sc3 FAL Lead, dissolved, CSR Sc3 FAL Ead, dissolved, CSR Sc3 FAL Zinc, dissolved, CSR Sc3 FAL Fluoride, CSR Sc3 FAL Michtls, Total Aluminum, total Arsenic, total Barium, total Beryflium, total Calcium, total Calcium, total Calcium, total Cablat, Cotal Cablat, Cotal Cablat, Cotal Cablat, Cotal Cablat, Cotal Cablat, Cotal Chromium, total | mg/L | ns ns ns ns ns ns ns ns ns ns ns ns ns n | ng ng ng ng ng ng ng ng ng 0.1 0.10 1 1 ng ng 5 ng 0.05 5 | -0.0001 0.0150 0.00500 0.0500 0.0600 0.0600 0.0600 0.0600 - - - - - - - - - - - - - - - - - - | <0.0001 0.0150 | 0.0011 60.0 0.0150 0.0 0.000500 0.00 0.0500 0.00 0.0600 0.00 0.0600 0.00 0.9000 0.50 0.9000 0.50 0.9000 0.50 0.9000 0.50 0.9000 0.50 0.9000 0.50 - - - - - - - - - - - - - - - - - - - - - - - - - - - - | 150 0.0150 0600 - 0700 0.0900 100 1.500 500 0.1600 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 0.001 - 0.002 - - - 0.01 - 0.02 - - - 0.03 - 33.9 - - 0.0057 - 0.0057 | 0.01500 - 0.09000 1.500 - 3.000 - - - 3.000 - - 0.031 0.031 0.001 0.035 <0.001 0.005 <0.0001 0.077 - - - - - - - - - - - - - | 0.0012 0.00050 0.00010 0.25 0.040 0.25 0.040 0.075 - - - - - - - - - - - - - - - - - - - | 0.0005 0.01500 1.500 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.150000000000 | 0.0001 0.0150 | 0.00150 0.00050 0.00010 0.020 0.25 0.040 0.075 2.0 - - - - - - - - - - - - - - - - - - - | 0.0150 - 0.0900 1.50 0.110 1.65 3.65 0.0003 0.0905 0.21 <0.00005 <0.0005 0.22 67 0.00012 0.0005 0.0012 0.00555 0.00555 0.00555 0.00555 0.00555 0.00555 0.005555 | 0.0150 - 0.0900 1.50 0.110 1.65 3.00 - 0.00004 0.86 0.0005 0.25 0.00007 0.00004 0.86 0.005 0.25 0.0001 0.22 76 0.00028 0.00028 0.00028 0.0015 0.015 - | 0.0150 0.0900 1.50 0.110 1.65 3.00 0.51 0.021 0.41 0.000010 0.41 0.000011 0.0005 92 0.00012 0.0019 | 0.0150 - 0.0900 1.50 0.110 1.65 3.00 - 0.008 0.0025 0.29 <0.0001 0.004 77 0.0001 0.0001 0.00005 <0.00001 0.00005 | Colored Colored Colored < | 0.0150 0.0150 0.0900 0.0 1.50 1 0.0600 0.0 2.40 2 2.40 2 0.00001 <0.0 | 50 0.0: | 0.0005 0.0001 0.0001 0.0001 000 0.02 000 0.025 10 0.04 55 0.075 000 2 0010 <0.0000 | 0.00050 0.00010 0.025 0.040 0.075 2.0 1 - - 5 - 1 - 5 - 1 - | 0.00050 0.00010 0.025 0.040 0.075 2.0 - - - - - - - - - - - - - - - - - - - | 0.0150 0.000600 0.08000 1.50 0.0600 0.900 3.00 - - - - - - - - - - - - - - - - - - | 0.0150 0.0900 1.50 0.160 2.40 3.00 - - - - - - - - - - - - - | 0.00050 0.00030 0.300 0.25 0.050 0.0750 0.0750 0.0750 0.0750000000000 | 0.00050 0.00030 0.030 0.65 0.050 0.075 3.0 | 0.0150 0.000600 0.0700 1.10 0.0600 0.500 3.00 | 0.0150 0.000600 0.0800 0.0800 0.0900 0.900 | 0.0005 0.0001 0.02 0.25 0.04 0.075 2 0.000017 0.018 0.0006 0.11 <0.000050 <0.0001 64 0.00004 64 0.000043 0.00042 0.00042 | 0.0001 0.050 0.0900 1.50 0.110 1.65 3.00 0.003 0.0003 0.0005 0.097 <0.000050 0.097 <0.000050 0.0001 66 0.000018 0.00018 0.00015 | 0.0150 0.0150 0.0600 1.10 0.0600 0.9600 0.9600 - - - - - - - - - - - - - - - - - - | 0.00050 0.00030 0.020 0.25 0.040 0.075 2.0 - - - - - - - - - - - - - | 0.01500 | 0.0150 0.000600 0.000600 0.0700 1.10 0.000 0.900 3.00 | 0.0150 0.000500 0.0500 0.650 0.650 0.0000 0.900 0.0005 0.2 0.0006 0.048 <0.00005 0.048 <0.00005 0.048 39 0.0001 0.0001 0.0001 0.0001 0.0001 | 0.00050 0.0030 0.320 0.25 0.050 0.075 0.075 0.075 0.075 0.077 0.078 0.0007 0.98 0.0003 0.034 <0.0001 <0.0001 <0.0001 <0.0001 20 0.0003 0.0003 0.0003 0.0003 0.0003 0.0003 | 0.0150 0.000600 0.0700 0.0700 1.10 0.0600 0.900 3.00 0.0007 2.8 0.00012 0.055 0.00008 4.0001 0.015 54 0.0001 0.0015 0.0011 0.0058 0.0015 0.0015 0.0011 0.0058 0.0015 0.00015 0.0015 0.00015 0.0015 |
| Silver, dissolved, CSR sched 3 Cadmium, dissolved, CSR Sc3 FAL Copper, dissolved, CSR Sc3 FAL Lead, dissolved, CSR Sc3 FAL Ead, dissolved, CSR Sc3 FAL Zinc, dissolved, CSR Sc3 FAL Fluoride, CSR Sc3 FAL Munitum, total Aluminum, total Barium, total Barium, total Barium, total Bismuth, total Cadicium, total Cadicium, total Cadicium, total Cobalt, total Copper, total Copper, total | mg/L | ns ns ns ns ns ns ns ns ns ns ns ns ns n | ng ng ng ng ng ng ng ng ng 0.1 0.10 1 1 ng ng 0.1 0.10 1 0.005 1 0.05 1 0.3 | -0.0001 0.0150 0.00500 0.0500 0.0500 0.650 0.660 0.900 3.00 - | <0.0001 0.0150 0.0900 1.50 0.110 1.65 3.00 - - - - - - - - - - - - - | 0.0011 60.0 0.0150 0.0 0.00500 0.00 0.0500 0.00 0.0500 0.00 0.0000 0.00 0.0000 0.00 0.0000 0.90 0.9000 0.3 - - | 150 0.0150 1600 - 1700 0.0900 100 1.500 100 1.500 100 - 100 3.000 - 0.001 - 0.002 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.002 - 0.003 - 0.003 - 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- - - - - - - - - - - - - - - - -</td> <td>0.00050 0.00030 0.020 0.25 0.040 0.075 2.0 - - - - - - - - - - - - -</td> <td>0.01500 0.09000 1.500 0.1500 0.000016 0.45 0.22 0.0001 0.00023 0.00023 0.00023 0.00022 210 0.00097 0.00016 0.00097 0.00058 0.00024 0.00058 0.00024 0.00058 0.00024 0.00058 0.00024 0.00058</td> <td>0.0150 0.000600 0.0700 1.10 0.0600 0.900 0.900 3.00 3.00 3.00 3.00 3.00</td> <td>0.0150 0.000500 0.0500 0.650 0.0600 0.900 0.900 0.900 0.900 0.0005 0.2 0.0005 0.2 0.0005 0.2 0.0005 0.048 <0.0001 0.0005 39 0.0001 0.0005 0.0001 0.0005 0.0001 0.0005 0.0001 0.0005 0.005 0.0</td> <td>0.00050 0.0030 0.320 0.25 0.050 0.075 0.0000 0.0003 0.034 0.0001 -0.0005 -0.0001 -0.0005 -0.0001 0.024 0.034 0.003 0.034 0.000 0.034 0.0005 0.034 0.0001 -0.000 0.034 0.0001 -0.0000 0.0001 -0.0000 0.0001 -0.0000 0.0001 -0.0000 0.0000 0.0001 -0.0000 0.0003 0.0004 0.0007 0.0005 0.005 0.05</td> <td>0.0150 0.000600 0.0700 1.10 0.0600 0.900 3.00 3.00 0.0007 2.8 0.0012 0.055 0.0008 <0.0012 0.055 54 0.0005 54 0.0005 0.0005 0.0005 2.7 2.7</td> | 0.0150 0.0150 0.0600 1.10 0.0600 0.900 3.00 - 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| Silver, dissolved, CSR sched 3 Cadmium, dissolved, CSR Sc3 FAL Copper, dissolved, CSR Sc3 FAL Lead, dissolved, CSR Sc3 FAL Lead, dissolved, CSR Sc3 FAL Eua, dissolved, CSR Sc3 FAL Fluoride, CSR Sc3 FAL Michis, Total Silver, total Barlum, total Barlum, total Barlum, total Barlum, total Cadmium, total Cadmium, total Cadmium, total Cadmium, total Cobalt, total | mg/L | ns ns ns ns ns ns ns ns ns ns ns ns ns n | ng ng ng 0.010 1 0.010 5 ng 0.005 ng 0.005 1 0.31 0.005 | -0.0001 0.0150 0.00500 0.5500 0.550 0.550 0.550 0.550 - - - - - - - - - - - - - - - - - - | <0.0001 0.0150 0.0150 0.0900 1.50 0.110 1.65 3.00 0 0.11 0 0.110 1.65 0.11 0 0.11 0 0.11 0 0.11 0 0 0 0 0 0 0 | 0.0011 60.0 0.0150 0.0 0.00500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - | 150 0.0150 0600 - 0700 0.0900 10 1.500 500 0.1600 00 - 00 - 00 - 00 - 00 - 00 - 00 - 0.001 0.03 0.002 - 0.02 - 0.02 - 0.03 - 0.02 - - 0.011 0.03 - - 0.021 - - - 0.021 - - - - - - - - - - - - - - - - - - - - - - - | 0.01500 0.09000 1.500 0.09000 0.03 0.03 0.0001 0.03 0.0001 0.005 <0.0005 <0.0005 <0.0005 0.00097 <0.0005 0.00097 <0.0005 0.00097 <0.0000 0.00097 <0.0000 0.00097 <0.0000 0.00097 <0.0000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000000 | 0.0012 0.00050 0.00010 0.25 0.040 0.025 2.0 - - - - - - - - - - - - - - - - - - - | 0.0005 0.01500 1.500 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.150000000000 | 0.0001 0.0150 | 0.00150 0.00050 0.00010 0.020 0.25 0.040 0.075 - - - - - - - - - - - - - - - - - - - | 0.0150 - 0.0900 1.50 1.65 3.00 0.00003 0.69 0.0045 0.21 0.0005 0.21 0.0001 0.22 67 0.00013 0.0012 0.0012 0.0012 0.002 0.002 0.002 0.0001 0.002 0.00001 0.002 0.00001 0.002 0.00001 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.000000 0.00000000 | 0.0150 0.0900 1.50 0.110 1.65 0.00004 0.0065 0.25 0.00007 0.0005 0.22 76 0.00028 0.0045 0.0045 0.0045 0.0045 0.0045 0.0049 54 | 0.0150 0.09900 1.50 1.65 1.65 3.00 0.51 0.022 0.41 0.00051 2.000011 0.005 92 0.00011 0.0012 0.0012 0.0012 0.0012 1.2 | 0.0150 0.0950 0.0900 1.50 0.110 1.65 3.00 0.0025 0.29 <0.0005 <0.0001 0.004 77 0.00001 0.00005 <0.00005 <0.00005 0.0004 3.2 - | C.0003 0.00030 0.00030 0.020 0.25 0.240 0.25 0.440 0.075 2.0 - - - - - - - - - - - - - - - - - - - | 0.00001 0.0 0.0150 0.0 0.0900 0.0 1.50 1 0.160 2 2.40 2 3.00 3 0.000010 <0.0 | 50 0.0: - - 00 0.000 00 1.1: 0.1 0.1 0 1.1: | 0.50 0.0005 0.0001 0.0001 000 0.02 00 0.25 10 0.04 0010 <0.005 | 0.00050 0.00010 0.020 0.25 0.040 0.075 2.0 - - - - - - - - - - - - - | 0.00050 0.00010 0.020 0.25 0.040 0.075 2.0 | 0.0150 0.00660 0.0800 0.0600 0.0600 0.0600 0.0600 - - - - - - - - - - - - - - - - - - | 0.0150 0.0900 1.50 0.160 2.40 3.00 - - - - - - - - - - - - - | 0.00050 0.00030 0.030 0.25 0.055 0.075 3.0 - - - - - - - - - - - - - - - - - - - | 0.00050 0.00030 0.030 0.65 0.050 0.075 3.0 - - - - - - - - - - - - - - - - - - - | 0.0150 0.000600 0.0700 0.0700 0.000 0.900 0.900 0.900 | 0.0150 0.00660 0.0800 0.0800 0.0900 0.900 0 | 0.0005 0.0001 0.02 0.25 0.075 2 0.00017 0.018 0.0006 0.11 <0.00050 <0.0004 64 0.000043 0.00069 0.00043 0.00069 10 | 0.0001 0.0150 0.0900 1.50 0.110 1.65 3.00 0.0030 0.0005 0.003 0.0005 0.0005 0.000016 0.00015 0.00015 0.0015 0.0025 1.4 | 0.0150 0.0150 0.0600 1.10 0.0600 0.900 3.00 - - - - - - - - - - - - - - - - - - | 0.00050 0.00030 0.020 0.25 0.040 0.075 2.0 - - - - - - - - - - - - - | 0.01500 0.09000 1.500 1.500 3.000 0.00016 0.45 0.22 0.038 0.00023 -0.0001 0.02 210 0.00097 0.0016 0.0024 0.00097 0.0016 0.0024 0.00097 0.00058 29 -0.00058 | 0.0150 0.000660 0.0700 1.10 0.0600 0.9900 3.00 | 0.0150 0.000500 0.0500 0.0500 0.0500 0.900 0.900 0.900 0.900 0.900 0.900 0.0005 0.00005 0.00005 0.00005 0.00005 0.00005 0.00005 0.00005 0.00005 0.00005 0.00005 0.00005 0.00005 0.0005 | 0.00050 0.0030 0.030 0.25 0.050 0.075 3.0 0.0007 0.98 0.00007 0.98 0.00007 0.98 0.0003 0.034 <0.0001 <0.0002 20 0.0003 0.0003 0.0003 0.0003 0.0003 0.0003 0.0003 0.00049 0.0004 0.0005 0.0005 0.0005 0.0005 0.0005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.0007 0.0005 0.005 | 0.0150 0.000600 0.0700 1.10 0.0600 0.900 3.00 3.00 7 2.8 0.00017 0.055 0.0001 0.055 0.0001 0.015 54 0.0001 0.0015 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0001 0.0005 0.00000 0.0000 0.0000 0.0000 0.0000 0.000000 |
| Silver, dissolved, CSR sched 3 Cadmium, dissolved, CSR Sc3 fAL Copper, dissolved, CSR Sc3 fAL Lead, dissolved, CSR Sc3 fAL Lead, dissolved, CSR Sc3 fAL Lead, dissolved, CSR Sc3 fAL Fluoride, CSR Sc3 fAL Muchain, CSR Sc3 fAL Muchain, Total Barium, total Barium, total Barium, total Barium, total Barium, total Calcium, total Calcium, total Calcium, total Cobalt, total Cobalt, total Cobalt, total Coper, total Coper, total Mercury, total Mercury, total | mg/L | ns ns ns ns ns ns ns ns ns ns ns ns ns n | ng 0.1 1 ng ng ng ng 0.010 1 ng 0.005 ng 0.005 1 0.3 ng 0.001 | | <pre><0.0001 0.0150 0.0150 0.0900 1.50 0.110 1.65 3.00 </pre> | 0.0011 60.0 0.0150 0.0 0.00500 0.00 0.0500 0.00 1.10 1. 0.6060 0.0 0.900 0.30 3.00 3.1 - - | 150 0.0150 0600 - 700 0.0900 10 1.500 500 0.1600 00 - 00 - 00 - 00 - 00 - 00 - 00 - 00 - 00 - 0.001 - 0.002 - 0.003 - 0.004 - 0.033 - 0.033 - 0.033 - 0.033 - 0.033 - 0.0055 - - - - - - - - - - - - - - - - - - - - - - | 0.01500 0.09000 1.500 0.0001 0.03 0.0001 0.03 0.001 0.03 0.001 0.03 0.001 0.03 0.001 0.027 17 <0.0001 0.27 17 <0.0000 0.00097 <0.0000 0.0000 0.0000 0.27 17 <0.0000 0.0000 0.0000 0.27 17 <0.0000 0.0000 0.0000 0.27 17 <0.0000 0.0000 0.0000 0.0000 0.000 0.00000 0.0000 0.0000 0.0000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000000 | 0.0012 0.00012 0.00010 0.25 0.040 0.75 2.0 - - - - - - - - - - - - - - - - - - - | 0.0005 0.03500 1.500 0.5000 0.1600 - - - - - - - - - - - - - - - - - - | 0.0001 0.0150 0.9000 1.50 0.110 1.55 3.00 - - - - - - - - - - - - - - - - - - | 0.0115 0.00050 0.00010 0.020 0.25 0.040 0.025 - - - - - - - - - - - - - - - - - - - | 0.0150 - 0.0900 1.50 0.110 1.65 3.00 0.0003 0.69 0.0005 0.21 0.00005 0.22 67 0.00012 0.00012 0.0012 0.0012 0.0012 0.0012 0.0012 0.0012 0.0012 0.0012 0.0012 0.0012 0.0012 0.0012 0.0012 0.00005 0.0012 0.00005 0.0012 0.00005 0.0012 0.00005 0.0012 0.00005 0.0012 0.00005 0.0012 0.00005 0.0012 0.00005 0.0012 0.00005 0.0012 0.00005 0.0012 0.00005 0.0012 0.00005 0.0012 0.00005 0.0012 0.00005 0.0012 0.00005 0.0012 0.00005 0.0012 0.00005 0.0012 0.00005 0.0012 0.0005 0.0012 0.0005 0.0012 0.0005 0.0012 0.0005 0.0012 0.0005 0.0012 0.0005 0.0012 0.0005 0.0012 0.0005 0.0012 0.0005 0.0012 | 0.0150 0.0900 1.50 1.50 1.65 3.00 0.0004 0.86 0.0065 0.25 0.0007 0.22 76 0.0007 0.001 0.22 76 0.0005 0.25 0.0007 0.001 0.22 76 0.0000 0.005 0.005 0.015 0.005 0.05 0.005 | 0.0150 0.09900 1.50 1.50 3.00 0.51 0.025 0.41 0.00051 0.005 92 0.0011 0.0012 0.0012 0.0012 1.0012 0.0026 1.0012 0.0026 1.0012 0.0012 0.0012 0.0012 0.0012 1.0012 0.0012 1.0012 0.0012 1.0026 1.0026 1.0012 1.0026 1 | 0.0150 0.0900 1.50 1.50 1.50 1.65 3.00 0.0001 0.008 0.025 0.29 <0.00005 <0.0005 <0.0005 <0.0005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.00005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0. | Calcold 0.00030 0.02030 0.25 0.25 0.040 0.27 2.0 - - - - - - - - - - - - - - - - - - - | 0.0150 0.0 - 0.0900 1.50 1 0.160 2 2.40 2 3.00 3 0.000010 <0.0 | 50 0.0: 0 0.0:00 0 0.0:00 0 1.1:0 0 1.1:0 0 1.1:0 0 1.1:0 0 1.1:0 0 1.1:0 0 1.1:0 0 1.1:0 0 1.1:0 0 1.1:0 0 1.1:0 0.0005 <0.00005 | 0.50 0.0005 0.0001 0.001 000 0.025 10 0.04 0.55 0.075 00 2 0010 <0.000 | 0.00050 0.00010 0.025 0.040 0.075 2.0 0 1 - 5 5 1 5 1 | 0.00050 0.00010 0.020 0.25 0.040 0.075 2.0 | 0.0150 0.00660 0.0800 1.50 0.0600 0.0600 0.900 3.00 - - - - - - - - - - - - - - - - - - | 0.0150 0.0900 1.50 0.160 2.40 3.00 - - - - - - - - - - - - - | 0.00050 0.00030 0.25 0.075 0.075 0.075 0.075 0.075 0.075 0.075 0.075 0.075 0.075 0.075 0.075 0.075 0.075 0.075 0.075 0.075 0.075 0.001 0.005 0.001 0.005 0.0 | 0.00050 0.00030 0.0030 0.055 0.055 0.055 0.055 | 0.0150 0.000600 0.0700 1.10 0.0600 0.900 3.00 | 0.0150 0.00660 0.0800 1.50 0.0800 0.9 | 0.0005 0.0001 0.02 0.25 0.04 0.075 2 0.0006 0.11 0.018 0.0006 0.011 <0.000050 -0.0004 64 0.0004 64 0.0004 64 0.00069 0.0004 8 0.00069 0.00042 0.00069 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.018 0.018 0.005 0.005 0.018 0.005 0.005 0.018 0.005 0.005 0.018 0.005 0.005 0.018 0.005 0.005 0.005 0.018 0.005 0.005 0.005 0.018 0.005 0.005 0.005 0.005 0.018 0.005 0.005 0.005 0.005 0.005 0.018 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.017 0.005 0.000 | (0.001) (0.0150) (0.0900) (1.50) (0.110) (1.65) (0.0001) (0.003) (0.003) (0.003) (0.0005) (0.0015) (0.0025) (1.4) (2.2) | 0.0150 0.0150 0.00000 1.10 0.0600 0.900 3.00 - - - - - - - - - - - - - - - - - - | 0.00050 0.00030 0.020 0.25 0.040 0.075 2.0 - - - - - - - - - - - - - | 0.01500 - 0.09000 1.500 1.500 0.00016 0.00016 0.45 0.022 2.10 0.00023 -0.0016 0.0023 -0.0016 0.0024 0.0005 - - - - - - - - - - - - - | 0.0150 0.000660 0.0700 1.10 0.0600 0.900 3.00 3.00 3.00 40.0001 40.001 0.023 40.0002 0.023 40.0005 40.0001 0.24 18 40.0001 0.24 19 40.0001 0.24 19 40.00001 0.24 19 40.00001 0.24 19 40.00001 0.24 19 40.00001 0.24 19 40.00001 0.24 19 40.00001 0.24 19 40.00001 0.24 19 40.00001 0.24 19 40.00001 0.25 19 40.00001 0.25 19 40.00001 0.25 19 40.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.00001 0.000001 0.000001 0.000001 0.00001 0.000001 0.000001 0.000001 0.000001 0.000001 0.000001 0.000001 0.000001 0.000001 0.000001 0.000001 0.000001 0.000001 0.00000 0.000001 0.00000 0.000001 0.000001 0.000001 0.00000 0.000001 0.000001 0.00001 0.00000 0.00001 0.00000 0.0000 0.0000 0.0000 0.00000 0.00000 0.0000 0.00000 0.00000 0.0000 0.0000 0.0000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.000000 | 0.0150 0.000500 0.0500 0.0500 0.900 0.900 0.900 0.900 0.0005 0.0005 0.0005 0.0005 0.0048 <0.00005 0.0048 <0.00005 0.0048 0.00005 0.0048 0.00005 0. | 0.00050 0.0030 0.030 0.25 0.050 0.075 0.075 0.0007 0.00007 0.030 0.034 <0.0005 <0.034 <0.0005 <0.0001 <0.0002 20 0.0003 0.00 | 0.0150 0.000600 0.000600 0.00000 0.0600 0.900 0.900 0.900 0.900 0.900 0.0012 0.055 0.0002 0.0001 0.0055 0.00008 0.00005 0.00005 0.0050 0.0000 0.00000 0.00000 0.00000 0.00000 0.000000 |
| Silver, dissolved, CSR sched 3 Cadmium, dissolved, CSR Sc3 fAL Copper, dissolved, CSR Sc3 fAL Nickel, dissolved, CSR Sc3 fAL Lead, dissolved, CSR Sc3 fAL Euad, dissolved, CSR Sc3 fAL Euad, dissolved, CSR Sc3 fAL Mutatis, Total Silver, total Barium, total Barium, total Beryllium, total Beryllium, total Beryllium, total Boron, total Cadhium, total Cabit, total Cobalt, total Copper, total Copper, total Protassium, total Deryllium, total Corper, total Corper, total Corper, total Deryllium, total Corper, total Corper, total Corper, total Deryllium, total Corper, total Deryllium, total Corper, total Deryllium, total Corper, total Deryllium, total Detassium, total Detassium, total | mg/L | ns ns ns ns ns ns ns ns ns ns ns ns ns n | ng 0.010 ng 0.005 ng 0.3 0.001 ng ng ng ng ng ng | -0.0001 0.0150 0.0560 0.6500 0.6500 0.6600 0.900 3.00 - - - - - - - - - - - - - - - - - - | <pre><0.0001 0.0150 0.0150 0.0900 1.50 0.110 1.65 0.110 0.110 1.65 0.1 0 0.1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</pre> | 0.0011 60.0 0.00150 0.0 0.000500 0.00 0.0500 0.00 0.0500 0.00 0.0000 0.00 0.0000 0.00 0.0000 0.00 0.0000 0.00 0.0000 0.00 0.0000 0.00 0.0000 0.00 0.0000 0.00 0.0000 0.00 - - | 150 0.0150 0600 - 0700 0.0900 10 1.500 500 0.1600 00 - 00 - 00 - 00 - 00 - 00 - 00 - 0.001 0.031 0.02 - 0.03 - 0.03 - 0.03 - 0.03 - 0.03 - 0.03 - 0.03 - 0.03 - 0.0057 - - - - - - - - - - - - - - - - - - - - - - - - | 0.01500 0.09000 1.500 0.09000 0.0001 0.0001 0.0001 0.0001 0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.00001 0.27 17 <0.0001 0.00097 <0.0001 0.00097 <0.00001 0.00097 <0.00001 0.00097 <0.00001 0.00097 <0.00001 0.00097 <0.00001 0.00097 <0.00001 0.00097 <0.00001 0.00097 <0.00001 0.00097 <0.00001 0.00097 <0.00001 0.00097 <0.00001 0.00097 <0.00001 0.00097 <0.00001 0.00097 <0.00001 0.00097 <0.00001 0.00097 <0.00001 0.00097 <0.00001 0.00097 <0.00001 0.00097 <0.00001 0.00097 <0.00001 0.00097 <0.00001 0.00097 <0.00001 0.00097 <0.00001 0.00097 <0.00001 0.00097 <0.00001 0.00097 <0.00001 0.00097 <0.00001 0.00097 <0.00001 0.00097 <0.00001 0.00097 <0.00001 0.00097 <0.00001 0.00097 <0.00001 0.00097 <0.00001 0.00097 <0.00001 0.00097 <0.00001 0.00097 <0.00001 0.00097 <0.00001 0.00097 <0.00001 0.00097 <0.00001 0.00097 <0.00001 0.00097 <0.00001 0.00097 <0.0001 0.00097 <0.0001 0.00097 <0.0001 0.00097 <0.0001 0.00097 <0.0001 0.00097 <0.0001 0.00097 <0.0001 0.00097 <0.0001 0.00097 <0.0001 0.00097 0.00097 0.00097 0.00001 0.00097 0.00001 0.00001 0.000 | 0.0012 0.00010 0.200010 0.25 0.040 0.25 2.0 - - - - - - - - - - - - - - - - - - - | 0.0005 0.01500 1.500 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.150000000000 | 0.0001 0.0150 0.9000 1.50 0.110 1.65 0.110 1.65 0.110 1.65 0.110 1.65 0.110 1.50 0.110 0.110 0.110 0.110 0.110 0.110 0.110 0.110 0.110 0.110 0.110 0.110 0.100 0.0000 0.00000 0.0000 0.0000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000000 | 0.0115 0.00050 0.00010 0.025 0.025 0.040 0.075 2.0 - - - - - - - - - - - - - - - - - - - | 0.0150 - 0.0900 1.50 0.100 1.65 3.00 0.0003 0.69 0.0045 0.21 0.00005 0.0045 0.22 67 0.0001 0.22 67 0.0005 0.0012 20 c0.0001 36 0.0001 36 0.0001 36 0.0001 36 0.0001 36 0.0001 36 0.0001 36 0.0001 36 0.0001 36 0.0005 0.0012 0.0005 0.0005 0.0012 0.0005 0.0001 0.0012 0.0005 0.0012 0.0005 0.0012 0.0005 0.0012 0.0005 0.0012 0.0005 0.0012 0.0005 0.0012 0.0005 0.0012 0.0005 0.0012 0.0005 0.0012 0.0005 0.0012 0.0005 0.0012 0.0005 0.0012 0.0005 0.0012 0.0005 0.0012 0.0005 0.0012 0.0005 0.0012 0.0005 0.0012 0.0005 0.0012 0.0005 0.0012 0.002 0 | 0.0150 0.0900 1.50 0.110 1.65 3.00 0.00004 0.86 0.0065 0.25 0.00007 0.22 76 0.00007 0.0029 0.0001 0.22 76 0.0001 0.22 76 0.0001 0.22 76 0.0001 0.005 0.0001 0.000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.000000 0.00000000 | 0.0150 0.0900 1.50 0.110 1.65 3.00 0.51 0.011 0.05 92 0.41 0.00051 0.0011 0.0012 0.0011 0.0012 0.00011 0.0025 12 1.8 0.020 | 0.0150 0.0900 1.50 1.50 1.50 1.50 3.00 0.0025 0.0025 0.0025 0.0005 0.0004 0.0005 0.0004 0.0005 0.0001 0.00005 0.0001 0.00005 0.0001 0.00005 0.0005 | Calcold Cal | 0.0150 0.0150 0.0150 0.0 1.50 1 0.160 1 2.40 2 3.00 3 0.00010 <0.0 | 50 0.0: 0 0.000 0 0.000 0 1.1 0 1.1 0 1.1 0 1.1 0 1.1 0 1.1 0 1.1 0 1.1 0 1.1 0 1.1 0 1.1 0 1.1 0 1.1 0 1.1 0.001 <0.002 | 0.50 0.0005 0.0001 0.001 0.000 0.025 0.001 0.025 10 0.04 0.075 0 2 0 0010 <0.0000 | 0.00050 0.00010 0.025 0.040 0.75 2.0 - < | 0.00050 0.00010 0.020 0.25 0.040 0.075 2.0 | 0.0150 0.00660 0.0800 1.50 0.0600 0.0600 0.900 3.00 - - - - - - - - - - - - - - - - - - | 0.0150 0.0900 1.50 0.160 2.40 - - - - - - - - - - - - - | 0.00050 0.00030 0.25 0.055 0.055 0.075 3.0 - - - - - - - - - - - - - - - - - - - | 0.00050 0.00030 0.0030 0.055 0.055 0.055 | 0.0150 0.000600 0.0700 1.10 0.0600 0.900 3.00 | 0.0150 0.000600 0.0800 0.0800 0.900 0 | 0.0005 0.001 0.02 0.25 0.04 0.075 2 0.00017 0.018 0.0006 0.11 0.0006 0.11 0.0006 0.01 0.0006 0.001 0.0005 0.0001 0.0005 0.0001 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.005 0 | (0.0001 (0.0150 (0.0900 (1.50) (0.0100 (0.0001) (0.0001) | 0.0150 0.0150 0.00000 1.10 0.0600 1.10 0.900 3.00 - - - - - - - - - - - - - - - - - - | 0.00050 0.00030 0.020 0.25 0.040 0.075 2.0 - - - - - - - - - - - - - | 0.01500 - 0.09000 1.500 0.1500 - 0.00016 0.45 0.22 0.031 0.00023 -0.0001 0.022 210 0.0002 210 0.00024 - 0.00016 0.00024 - 0.00016 0.0002 - 0.0001 0.00024 - 0.0001 0.00024 - 0.0001 0.00024 - 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| Silver, dissolved, CSR sched 3 Cadmium, dissolved, CSR Sc3 FAL Copper, dissolved, CSR Sc3 FAL Lead, dissolved, CSR Sc3 FAL Ead, dissolved, CSR Sc3 FAL Ead, dissolved, CSR Sc3 FAL Fluoride, CSR Sc3 FAL Michael State Content Silver, total Auminum, total Arsenic, total Barium, total Bernyllium, total Cadmium, total Cadmium, total Cadmium, total Cobalt, total Cobalt, total Cobalt, total Cobalt, total Cobalt, total Cobalt, total Chromium, total Mercury, total Potassium, total Child Chromium, total Chromium, total Mercury, total Potassium, total Child Chromium, total Chromium, total Chromium, total Chromium, total Chromium, total Chromium, total Chromium, total Chromium, total | mg/L | ns ns ns ns ns ns ns ns ns ns ns ns ns n | ng ng | -0.0001 0.0150 0.0550 0.0550 0.0550 0.0600 0.0600 0.0600 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0500 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.000 0.000 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.000000 | <0.0001 0.0150 0.0150 0.0900 1.50 0.110 1.65 3.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0.0011 60.0 0.0150 0.0 0.00500 0.00 0.0500 0.00 0.0500 0.00 0.0000 0.00 0.0000 0.00 0.0000 0.00 0.9000 0.00 0.9000 0.00 0.9000 0.00 0.9000 0.00 0.9000 0.00 0.9000 0.00 - - | 150 0.0150 0600 - 700 0.0900 10 1.500 500 0.1600 - 0.0150 00 - 00 - 00 - 00 - 00 - 00 - 0.001 - 0.002 - 0.0037 - - 0.0011 0.033 - - - 0.0057 - - - - - 0.0057 - - - - - - - - - - - - - - - - - - - - - - - - - - | 0.01500 0.09000 1.500 0.0001 0.0001 0.0001 0.0001 0.0005 <0.0001 0.0007 <0.0001 0.00097 <0.0000 0.00097 <0.0000 0.00097 <0.00000 0.00097 <0.00000 0.00097 <0.00000 0.00097 <0.00000 0.00097 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.00007 <0.0 | 0.0012 0.00010 0.200010 0.22 0.040 0.75 2.0 - 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| Silver, dissolved, CSR sched 3 Cadmium, dissolved, CSR Sc3 FAL Copper, dissolved, CSR Sc3 FAL Lead, dissolved, CSR Sc3 FAL Ead, dissolved, CSR Sc3 FAL Ead, dissolved, CSR Sc3 FAL Elad, dissolved, CSR Sc3 FAL Michiler, CSR Sc3 FAL Michiler, Coll Silver, total Aluminum, total Barium, total Barium, total Bismuth, total Bismuth, total Cadmium, total Cadmium, total Cabalt, total Copper, total Corpor, total Corpor, total Chromium, total Mercury, total Mercury, total Magnaese, total Manganese, total Manganese, total | mg/L | ns ns ns ns ns ns ns ns ns ns ns ns ns n | ng 0.005 ng 0.005 1 0.005 1 0.005 ng 0.005 ng 0.001 ng | -0.0001 0.0150 0.00500 0.0500 0.650 0.650 0.650 0.0600 0.900 3.00 - - - - - - - - - - - - - - - - - - | <0.0001 0.0150 0.0150 0.0900 1.50 0.110 1.65 0.10 0.10 0.10 0.10 0.00 0 0 0 0 0 0 0 | 0.0011 60.0 0.0150 0.0 0.00500 0.00 0.0500 0.00 0.0600 0.0 0.0600 0.0 0.0600 0.0 0.9000 0.3 - - | 150 0.0150 0600 - 700 0.0900 10 1.500 500 0.1600 - - 00 - 00 - 00 - 00 - 00 - 00 - 0.001 - 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| Silver, dissolved, CSR sched 3 Cadmium, dissolved, CSR Sc3 FAL Copper, dissolved, CSR Sc3 FAL Lead, dissolved, CSR Sc3 FAL Ead, dissolved, CSR Sc3 FAL Ead, dissolved, CSR Sc3 FAL Filoride, CSR Sc3 FAL Michies, Total Aluminum, total Arsenic, total Barium, total Barium, total Barunth, total Barunth, total Cadmium, total Cadmium, total Cadmium, total Cadmium, total Cobalt, total | mg/L mg/L | ns ns ns ns ns ns ns ns ns ns ns ns ns n | ng 0.005 ng 0.005 1 0.001 ng | -0.0001 0.0150 0.00500 0.0500 0.0600 0.900 3.00 - <t< td=""><td><0.0001 0.0150 0.0150 0.150 0.10 1.50 0.110 1.65 3.00 0.1 0 0.1 0 0.1 0 0.1 0 0.1 0 0.1 0 0 0 0</td><td>0.0011 60.0 0.0150 0.0 0.00500 0.00 0.0500 0.00 0.0500 0.00 0.00500 0.00 0.00500 0.00 0.00500 0.00 0.00500 0.00 0.00500 0.00 0.00500 0.00 0.00500 0.00 0.00500 0.00 0.00500 0.00 0.00500 0.00 0.00500 0.00 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -<!--</td--><td>150 0.0150 0600 - 0700 0.0900 10 1.500 500 0.1600 00 - 00 - 00 - 00 - 00 - 00 - 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1.7 0.0091 19 0.14 0.0038 6.6 2 2001</td><td>C.0003 C.00030 C.00030 C.00030 C.0020 C.25 C.004 C.25 C.004 C.20 C.2 C.20 C.20 C.20 C.20 C.20 C.20</td><td>0.00001 0.0 0.0150 0.0 0.0900 0.0 1.50 1 0.160 2 2.40 2 3.00 3 0.000010 <0.0</td> 0.004 0.0001 <0.0</td> 0.035 0.00001 <0.0</t<> | <0.0001 0.0150 0.0150 0.150 0.10 1.50 0.110 1.65 3.00 0.1 0 0.1 0 0.1 0 0.1 0 0.1 0 0.1 0 0 0 0 | 0.0011 60.0 0.0150 0.0 0.00500 0.00 0.0500 0.00 0.0500 0.00 0.00500 0.00 0.00500 0.00 0.00500 0.00 0.00500 0.00 0.00500 0.00 0.00500 0.00 0.00500 0.00 0.00500 0.00 0.00500 0.00 0.00500 0.00 0.00500 0.00 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - </td <td>150 0.0150 0600 - 0700 0.0900 10 1.500 500 0.1600 00 - 00 - 00 - 00 - 00 - 00 - 00 - 000 - 000 - 000 - 0001 - 0.002 - - 0.001 - 0.002 - - - 0.002 - - - 0.005 - - - - - 0.005 - - - - - - - - - - - - - - - - <tr tbody=""></tr></td> <td>0.01500 0.09000 0.09000 0.0001 0.03 0.0001 0.005 0.0005 0.0005 0.00097 0.0005 0.00097 0.0005 0.00097 0.0005 0.00097 0.0005 0.00097 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.005 0.005 0.0055 0</td> <td>0.0015 0.0005 0.00010 0.25 0.040 0.025 2.0 - 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| Silver, dissolved, CSR sched 3 Cadmium, dissolved, CSR Sc3 FAL Copper, dissolved, CSR Sc3 FAL Lead, dissolved, CSR Sc3 FAL Lead, dissolved, CSR Sc3 FAL Ead, dissolved, CSR Sc3 FAL Fluoride, CSR Sc3 FAL Michis, Total Silver, total Barium, total Barium, total Barium, total Baryllium, total Cadmium, total Cadmium, total Cadmium, total Cadmium, total Cadmium, total Cadmium, total Cadmium, total Cadmium, total Cadmium, total Cabit, total Copper, total Manganese, total Manganese, total Solium, total Cabit, total | mg/L mg/L | ns ns ns ns ns ns ns ns ns ns ns ns ns n | ng ng 0.010 1 ng ng 0.005 ng ng 0.005 ng ng ng ng 0.001 ng ng ng 0.001 ng ng ng 0.05 ng 0.05 ng 0.05 ng 0.05 ng 0.05 ng | | <0.0001 0.0150 0.0150 0.0900 1.50 0.110 1.65 3.00 0 0.11 0 0.110 1.65 0.11 0 0.11 0 0.11 0 0 0 0 0 0 0 0 0 0 | 0.0011 60.0 0.0150 0.0 0.00500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.900 0.9 3.00 3.1 - - - - - | 150 0.0150 560 - 700 0.0900 10 1.500 500 0.1600 00 - 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| Silver, dissolved, CSR sched 3 Cadmium, dissolved, CSR Sc3 FAL Copper, dissolved, CSR Sc3 FAL Lead, dissolved, CSR Sc3 FAL Lead, dissolved, CSR Sc3 FAL Lead, dissolved, CSR Sc3 FAL Fluoride, CSR Sc3 FAL Mitchis, Total Silver, total Barium, total Barium, total Baryllium, total Beryllium, total Boron, total Calcium, total Cobalt, total Magnesium, total Magnesium, total Magnesium, total Magnesium, total Magnesium, total Nickel, total Lead, total Potassium, total Nickel, total Lead, total Possphorus, total | mg/L mg/L | ns ns ns ns ns ns ns ns ns ns ns ns ns n | ng 0.005 ng ng 0.05 ng 0.05 ng 0.05 ng 0.05 ng 0.05 ng 0.05 | -0.0001 0.0150 0.0500 0.0500 0.650 0.6600 0.900 3.00 - - - - - - - - - - - - - - - - - - | <pre><0.0001 0.0150 0.0150 0.0900 1.50 0.110 1.65 3.00 0.110 1.65 3.00 0.110 0.110 1.65 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.1</pre> | 0.0011 60.0 0.0150 0.0 0.00500 0.00 0.0500 0.00 0.0500 0.00 0.0050 0.00 0.0050 0.00 0.0050 0.00 0.0050 0.00 0.000 0.00 0.900 0.90 3.00 3.1 - - | 150 0.0150 560 - 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| Silver, dissolved, CSR sched 3 Cadmium, dissolved, CSR Sc3 FAL Copper, dissolved, CSR Sc3 FAL Lead, dissolved, CSR Sc3 FAL Lead, dissolved, CSR Sc3 FAL Lead, dissolved, CSR Sc3 FAL Lead, dissolved, CSR Sc3 FAL Muchaeler, CSR Sc3 FAL Magnesium, Total Magnesium, Total | mg/L | ns ns ns ns ns ns ns ns ns ns ns ns ns n | ng | -0.0001 0.0150 0.0500 0.0500 0.0500 0.0600 0.900 3.00 - - - - - - - - - - - - - - - - - - | <pre><0.0001 0.0150 0.0150 0.0900 1.50 0.110 1.65 0.110 0.110 1.65 0.11 0 0.001 0.00 0 0 0 0 0 0 0 0 0 0 0</pre> | 0.0011 60.0 0.0150 0.0 0.00500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.000 0.00 0.900 0.00 0.900 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 <td>150 0.0150 0600 - 0700 0.0900 10 1.500 500 0.1600 00 - 00 - 00 - 00 - 00 - 00 - 00 - 0.001 - 0.001 - 0.001 - 0.01 0.02 <</td> - < | 150 0.0150 0600 - 0700 0.0900 10 1.500 500 0.1600 00 - 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| Silver, dissolved, CSR sched 3 Cadmium, dissolved, CSR Sc3 FAL Copper, dissolved, CSR Sc3 FAL Lead, dissolved, CSR Sc3 FAL Ead, dissolved, CSR Sc3 FAL Ead, dissolved, CSR Sc3 FAL Fluoride, CSR Sc3 FAL Mitchls, Toch Silver, total Auminum, total Barium, total Berryllium, total Bismuth, total Bismuth, total Cadmium, total Cadmium, total Cadmium, total Copper, total Chromium, total Copper, total Chromium, total Copper, total Chromium, total Chromium, total Copper, total Chromium, total Selenium, total Selenium, total | mg/L mg/L | ns ns ns ns ns ns ns ns ns ns ns ns ns n | ng 0.001 ng ng 0.001 ng 0.001 ng 0.001 ng 0.001 ng 0.001 | -0.0001 0.0150 0.0500 0.0500 0.0500 0.650 0.650 0.600 0.700 - <td><pre><0.0001 0.0150 0.0150 0.0150 0.150 0.10 1.50 0.110 1.65 3.00 0 0.1 0 0.0 0 0 0 0 0 0 0 0 0 0 0 0</pre></td> <td>0.0011 60.0 0.0150 0.0 0.00500 0.00 0.0500 0.00 0.0500 0.00 0.0000 0.00 0.0000 0.00 0.0000 0.00 0.0000 0.00 0.900 0.00 0.900 0.00 0.900 0.00 0.900 0.00 0.900 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00</td> <td>150 0.0150 150 0.0150 1600 - 10 1.500 10 1.500 500 0.1600 00 - 10 1.500 500 0.1600 - 0.001 0.001 - 0.001 0.001 0.002 - 0.003 - 0.001 0.002 - - 0.001 0.0057 - - 0.0057 - - 0.0011 - 0.0057 - - - - - - - 0.0057 - 0.0051 - - - - - - - - - - - - - - - -</td> <td>0.01500 0.03000 0.03000 0.03000 0.001 0.001 0.0005 0.00</td> <td>00012 0.00050 0.00010 0.25 0.040 0.25 0.040 0.75 2.0 - - - - - - - - - - - - - - - - - - -</td> <td>0.0005 0.01500 1.500 0.6000 - - - - - - - - - - - - - - - - - -</td> <td>0.0050 0.0150 0.0150 0.150 0.110 1.55 0.110 1.65 0.10 0 0.01 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td></td> <td>0.0150 0.0900 1.50 0.100 1.65 3.00 0.0003 0.69 0.0045 0.21 <0.00005 <0.0001 0.22 67 0.00012 0.0025 0.012 20 0.0005 0.012 0.0005 0.012 0.0005 0.012 0.0005 0.012 0.0005 0.0012 0.0003 0.002 0.0005 0.002 0.0003 0.0002 0.0003 0.0002 0.0003 0.0002 0.0003 0.0002 0.0003 0.0002 0.0003 0.0002 0.0003 0.0002 0.0003 0.0002 0.0003 0.0002 0.0003 0.0002 0.0003 0.0002 0.0003 0.0002 0.0003 0.0002 0.0003 0.0002 0.0003 0.0002 0.00002 0.0003 0.0002 0.0003 0.0002 0.0003 0.0002 0.0003 0.0002 0.0003 0.0002 0.0003 0.0002 0.0003 0.0002 0.0003 0.0002 0.0003 0.0002 0.0003 0.0002 0.0003 0.0003 0.0002 0.0003 0.0003 0.0002 0.0003 0.0002 0.0003 0.0002 0.0003 0.000</td> <td>0.0150 0.0900 1.50 0.0900 1.50 0.110 1.65 3.00 0.0004 0.86 0.0065 0.25 0.00001 0.22 76 0.0001 0.22 76 0.0001 0.22 76 0.0001 0.22 76 0.0001 0.22 76 0.0002 12 0.0002 12 0.0002 12 0.0002 12 0.0002 12 0.0002 0.000 1 0.0002 0.0002 0.000 0.</td> <td>0.0150 . 0.0900 1.50 0.0900 1.50 1.50 0.110 1.65 3.00 0.51 0.51 0.65 0.01 0.051 0.01 0.005 0.02 0.001 0.0005 12 . 0.001 0.000 0.002 0.000</td> <td>0.0150 - 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| Silver, dissolved, CSR sched 3 Cadmium, dissolved, CSR Sc3 FAL Copper, dissolved, CSR Sc3 FAL Lead, dissolved, CSR Sc3 FAL Ead, dissolved, CSR Sc3 FAL Ead, dissolved, CSR Sc3 FAL Fluoride, CSR Sc3 FAL Michies, Total Aluminum, total Arsenic, total Barium, total Barium, total Beryllium, total Bismuth, total Cobalt, total Calcium, total Calcium, total Calcium, total Cobalt, total Copper, total Copper, total Copper, total Copper, total Copper, total Copper, total Copper, total Copper, total Copper, total Magnesium, total Magnesium, total Sodium, total Mangenese, total Molybdenum, total Sodium, total Solicon, total Silcon, total | mg/L mg/L | ns ns ns ns ns ns ns ns ns ns ns ns ns n | ng 0.005 ng 0.005 1 0.005 ng 0.005 ng 0.001 ng ng ng 0.01 ng 0.02 ng 0.03 0.01 ng 0.02 ng | -0.0001 0.0150 0.00500 0.00500 0.0500 0.650 0.660 0.900 3.00 - <td><pre><0.001 </pre> <0.00150 </td> <td>0.0001 60.0 0.0150 0.0 0.00500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.0000<!--</td--><td>150 0.0150 560 - 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Color</td> <td>3.00001 0.0150 0.0150 0.0 1.50 1 0.160 2 2.40 2 3.00 3 0.000010 <0.0</td> 0.00011 <0.0 | <pre><0.001 </pre> <0.00150 | 0.0001 60.0 0.0150 0.0 0.00500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.0000 </td <td>150 0.0150 560 - 700 0.0900 10 1.500 500 0.1600 00 - 00 - 00 - 00 - 00 - 00 - 00 - 00 - 00 - 0.001 - 0.02 - - 0.02 - - - 0.02 - - - 0.002 - - - 0.001 0.005 -<</td> - 0.005 - - - 0.005 - - - 0.005 - - - - - 0.005 - - - 0.005 -< | 150 0.0150 560 - 700 0.0900 10 1.500 500 0.1600 00 - 00 - 00 - 00 - 00 - 00 - 00 - 00 - 00 - 0.001 - 0.02 - - 0.02 - - - 0.02 - - - 0.002 - - - 0.001 0.005 -< | 0.01500 0.09000 0.09000 0.0001 0.03 0.0001 0.000 0.0001 0.000 0.0005 0.00097 0.0007 | 0.0012 0.00010 0.00010 0.25 0.040 0.25 0.040 0.025 0.040 0.025 0.040 0.025 0.040 0.025 0.040 0.025 0.040 0.025 0.040 0.0010 0.020 0.0010 0.020 0.0010 0.00000000 | 0.0005 0.01500 1.500 0.6000 - - - - - - - - - - - - - - - - - - | | | 0.0150 0.0900 1.50 0.100 1.65 0.00003 0.699 0.0045 0.21 <0.00005 <0.0045 0.21 <0.00005 <0.0045 0.22 67 0.00013 0.0002 67 0.00013 36 0.00001 0.00001 36 0.00001 0.00001 36 0.00001 0.00001 36 0.00001 0.00001 0.00001 36 0.00001 0.000001 0.0000000000 | 0.0150 0.0900 1.50 0.165 1.65 3.00 0.00004 0.25 0.0007 4.0001 0.22 76 0.0007 4.0001 0.22 76 0.00028 0.0005 0.0045 0.0045 0.0045 0.0045 0.0002 54 0.0005 0.005 0.0 | 0.0150 0.0990 1.50 1.65 3.00 0.51 0.025 0.022 0.0011 0.0012 0.0012 0.0012 0.0012 0.0012 0.0012 0.0012 0.0026 12 0.0037 4.4 0.0068 0.0037 4.4 0.0068 0.00087 - 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- - - - - - - - - - - -</td><td>0.01500 - 0.000 1.500 1.500 0.1600 - 0.00016 0.45 0.0023 0.00025 0.00058 0</td><td>0.0150 0.000600 0.00700 1.10 0.06000 0.900 0.900 0.900 0.900 0.900 0.900 0.900 0.900 0.900 0.0001 0.0002 0.023 0.0002 0.023 0.0005 0.00001 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.000000</td><td>0.0150 0.000500 0.0500 0.0500 0.0500 0.0500 0.0600 0.0000 0.0000 0.0000 0.0000 0.0000 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 2.8 0.0001 4 4 0.0001 2.8 0.0001 4 4 0.0004 0.0002 2.6 0.0004 0.0004 0.0004 0.000098 0.000098 0.000098 0.000098 0.000098 0.000098 0.000098 0.000098 0.000008 0.000008 0.000000 0.000000000</td><td>0.00050 0.0030 0.030 0.25 0.050 0.075 0.050 0.075 0.0007 0.988 0.0007 0.988 0.0003 0.034 <0.0001 <0.0003 0.000</td><td>0.0150 0.000600 0.000600 0.00000 0.0600 0.0000 3.00 3.</td> | 0.0150 0.0150 0.0600 1.10 0.0600 1.10 0.0600 1.10 0.0600 1.10 0.000 1.10 0.000 1.10 0.000 1.10 0.000 1.10 0.000 1.10 0.000 1.10 0.000 1.10 0.000 1.10 0.000 1.10 0.000 1.10 0.0600 1.10 0.0600 1.10 0.0600 1.10 0.0600 1.10 0.0600 1.10 0.0600 1.10 0.0600 1.10 0.0600 1.10 0.0600 1.10 0.0600 1.10 0.0600 1.10 0.0600 1.10 0.0600 1.10 0.0500 1.1000 1.10000 1.10000 1.10000 1.100000 1.100000000 | 0.00050 0.00030 0.020 0.25 0.040 0.075 2.0 - 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| Silver, dissolved, CSR sched 3 Cadmium, dissolved, CSR Sc3 FAL Copper, dissolved, CSR Sc3 FAL Landinus, dissolved, CSR Sc3 FAL Eda, dissolved, CSR Sc3 FAL Eda, dissolved, CSR Sc3 FAL Filoride, CSR Sc3 FAL Michies, Total Aluminum, total Arsenic, total Barium, total Barium, total Barium, total Barium, total Cadmium, total Cadmium, total Cadmium, total Cadmium, total Cadmium, total Cobalt, total Cadmium, total Cobalt, total Sodium, total Sodium, total Sodium, total Sodium, total Sodium, total Sodium, total Silicon, total Silicon, total Silicon, total Silicon, total | mg/L mg/L | ns ns ns ns ns ns ns ns ns ns ns ns ns n | ng 0.05 1 0.05 1 0.05 ng ng ng 0.05 ng 0.01 ng 0.02 ng 0.03 ng 0.04 0.05 ng 0.05 ng 0.05 | | <pre><0.001 </pre> 0.0150 .0.0900 1.50 0.110 1.65 | 0.0011 60.0 0.0150 0.0 0.00500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.900 0.9 3.00 3.1 - - <tr tr=""></tr> | 150 0.0150 560 - 700 0.0900 10 1.500 500 0.1600 00 - 00 - 00 - 00 - 00 - 00 - 00 - 00 - 00 - 00 - 00 - 00 - 00 - 00 - 00 - 0005 0005 0005 0005 234 0005 0005 0005 0005 0005 0005 0005 0005 0005 0005 0005 | 0.01500 0.09000 0.09000 0.0001 0.03 0.001 0.03 0.005 0.0003 0.003 0.003 0.003 0.0000 0.0000 0.0000 0.000 0.000 0.000 | 0.0012 0.00050 0.00010 0.25 0.040 0.75 2.0 - - - - - - - - - - - - - - - - - - - | 0.0005 0.01500 1.500 0.1500 0.1600 - - - - - - - - - - - - - - - - - - | 0.0001 0.0150 0.0150 0.0900 1.50 0.150 0.110 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 | 0.0115 0.00059 0.00010 0.025 0.040 0.25 0.040 0.25 0.040 0.075 2.0 - - - - - - - - - - - - - - - - - - - | 0.0150 0.0900 1.50 0.100 1.65 0.00003 0.69 0.0045 0.21 c0.00005 0.22 c0.00005 0.22 c0.00013 0.67 0.0012 0.0002 0.0012 0.0002 0.0012 0.0002 0.0012 0.0002 0.0012 0.0002 0.0012 0.0002 0.0012 0.0002 0.0012 0.0002 0.0012 0.0002 0.0012 0.0002 0.0012 0.0002 0.0012 0.0002 0.0012 0.0002 0.0012 0.0002 0.0002 0.0012 0.0002 0.0002 0.0002 0.0012 0.0002 | 0.0150 0.0900 1.50 0.110 1.65 0.00004 0.0065 0.25 0.00007 0.0055 0.22 76 0.00028 0.0045 0.0045 0.0045 0.0045 0.0045 0.0045 0.0045 0.0045 0.0045 0.0045 0.0045 0.0045 0.0045 0.0045 0.0029 54 0.0029 12 0.0666 0.0029 12 0.0029 12 0.005 0.0029 12 0.0002 0.0029 12 0.005 0. | 0.0150 0.0990 1.50 1.50 1.50 3.00 0.51 0.022 0.41 0.0005 92 0.0011 0.005 92 0.00011 0.0012 0.0012 0.0012 0.0012 0.0012 0.0012 0.0026 1.8 0.0026 1.8 0.0026 1.8 0.0026 1.8 0.0026 1.8 0.0026 1.8 0.0026 1.8 0.0026 1.8 0.0026 1.8 0.0027 1.8 0.0057 0.0057 0.0057 0.0057 0.0057 0.0057 0.0057 0.0057 | 0.0150 0.0950 0.09900 1.50 0.150 1.65 3.00 0.0025 0.29 0.0025 0.29 0.0005 0.0005 0.0005 0.0005 0.0001 0.0005 0.0001 0.00005 0.0001 0.00005 0.0004 3.2 - 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5 1 - 5 1 - 5 - 1 - 5 - < | 0.00050 0.00010 0.020 0.25 0.040 0.075 2.0 - - - - - - - - - - - - - | 0.0150 0.00660 0.0800 1.50 0.0600 0.9600 | 0.0150 0.0900 1.50 0.160 2.40 3.00 - - - - - - - - - - - - - | 0.00050 0.00030 0.030 0.25 0.055 0.075 3.0 - - - - - - - - - - - - - - - - - - - | 0.00050 0.00050 0.00030 0.030 0.65 0.055 0.055 0.055 | 0.0150 0.000600 0.0700 0.0700 0.0900 3.00 | 0.0150 0.00660 0.0800 1.50 0.0600 0.900 - - - - - - - - - - - - - - - - - - | 0.0005 0.0001 0.02 0.25 0.04 0.075 2 0.00017 0.018 0.0005 0.011 0.0006 0.011 0.0004 64 0.000643 0.000643 0.000643 0.000643 0.00058 10 10 10 11 13 13 0.06 10 11 13 0.06 10 11 0.013 13 0.005 10 0.001 10 0.001 10 0.001 10 0.002 10 0.005 10 0.005 10 0.005 10 0.005 10 0.005 10 0.005 10 0.005 10 0.005 10 0.005 10 0.005 10 0.005 10 0.005 10 0.005 10 0.005 10 0.005 10 0.005 10 0.005 10 0.005 10 0.0005 10 0.0005 10 0.0005 10 0.0005 10 0.0005 10 0.0005 10 0.0005 10 0.0005 10 0.0005 10 0.0005 10 0.0004 3 0.0005 10 0.0004 3 0.0005 10 0.0004 3 0.0005 10 0.0004 3 0.0005 10 0.0005 10 0.0004 10 0.0005 10 0.0005 10 0.0005 10 0.0005 10 0.0005 10 0.0005 10 0.0005 10 0.0005 10 0.0005 10 0.0005 10 0.0005 10 0.0005 10 0.0005 10 0.0005 10 0.0005 10 0.0005 10 0.0005 10 0.0005 10 0.0005 10 0.0005 10 0.0005 10 0.0005 10 0.0005 10 0.0005 10 0.0005 10 0.0005 10 0.0005 10 0.0005 10 0.0005 10 0.0005 10 0.0005 10 0.0005 10 0.0005 10 0.0005 10 0.0005 10 0.0001 10 0.0001 10 0.0001 10 0.0001 10 0.0001 10 0.0001 10 0.0001 10 0.0001 10 0.0001 10 0.0001 10 0.0001 10 0.0001 10 0.0001 10 0.0001 10 0.0001 10 0.0001 10 0.0001 10 0.0001 10 0.0001 10 0.0001 10 0.0001 10 0.0001 10 0.0001 10 0.0001 10 0.0001 10 0.0001 10 0.0001 10 0.0001 10 10 10 10 10 10 10 | (0.001) (0.0150) (0.0150) (0.0900) (1.50) (0.150) (0.0001) (0.003) (0.004) (0.004) (0.005) (0.005) (0.001) (0.021) (0.021) | 0.0150 0.0150 0.00500 1.10 0.0600 1.10 0.6000 1.10 0.900 1.10000 1.10000 1.10000 1.10000 1.10000 1.10000 1.10000 1.10000 1.100000000 | 0.00050 0.00030 0.020 0.25 0.040 0.075 2.0 - 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| Silver, dissolved, CSR sched 3 Cadmium, dissolved, CSR Sc3 FAL Copper, dissolved, CSR Sc3 FAL Lead, dissolved, CSR Sc3 FAL Lead, dissolved, CSR Sc3 FAL Lead, dissolved, CSR Sc3 FAL Fluoride, CSR Sc3 FAL Mitchis, Total Silver, total Barlum, total Barlum, total Barlum, total Barlum, total Barlum, total Cadmium, total Coper, total Coper, total Potassium, total Magnesium, total Magnesium, total Decasium, total Decasium, total Cadmium, total Coper, total Potassium, total Decasium, total Decasium, total Solium, total Solium, total Solium, total Selenium, total Selenium, total Silton, total | mg/L mg/L | ns ns ns ns ns ns ns ns ns ns ns ns ns n | ng 0.1 ng ng ng ng 0.005 ng 0.01 ng 0.05 ng 0.06 0.07 ng ng ng ng ng ng ng ng | -0.0001 0.0150 0.0500 0.0500 0.0500 0.0600 0.900 3.00 - - - - - - - - - - - - - - - - - - | <0.0001 | 0.0001 60.0 0.0150 0.0 0.00500 0.00 0.0500 0.00 0.0500 0.00 0.0000 0.00 1.10 1. 0.0600 0.0 0.900 0.90 3.00 3.1 - - - - | 150 0.0150 560 - 700 0.0900 10 1.500 500 0.1600 00 - 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- | <pre><c.0001 <="" pre=""> .0.0010 </c.0001></pre> | 0.0011 60.0 0.0015 0.0 0.00150 0.0 0.00000 0.00 0.00000 0.00 0.00000 0.00 0.00000 0.00 0.00000 0.00 0.00000 0.00 0.0000 0.00 0.0000 0.00 0.0000 0.00 0.0000 0.00 0.0000 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 | 150 0.0150 150 0.0150 1600 - 100 1.500 100 1.500 100 1.500 100 1.500 100 3.000 100 - 100 - 100 - 100 - 100 - 000 - 000 - 000 - 0.001 - 0.002 - 0.003 - - 0.0051 - 0.04 0.0051 - 0.0051 - 0.0051 - 0.0051 - 0.0051 - 0.0051 - 0.0051 - 0.0051 - 0.0051 - 0.0051 - 0.0051 - 0.0051 - <td< td=""><td>0.01500 0.03500 1.500 0.03000 0.03 0.001 0.03 0.001 0.03 0.001 0.005 <0.001 0.27 17 <0.0001 0.0007 <0.0001 0.0000 40.0001 0.0007 <0.0001 0.0067 0.0007</td><td>0.0012 0.00010 0.00010 0.25 0.040 0.25 0.040 0.75 2.0 - - - - - - - - - - - - - - - - - - -</td><td>0.0005 0.01500 1.500 1.500 0.1600 - - - - - - - - - - - - - - - - - -</td><td></td><td></td><td>0.0150 0.0900 1.50 0.0900 1.50 0.0000 1.50 0.0003 0.69 0.004 0.21 0.0005 0.012 0.001 0.22 67 0.0001 0.22 67 0.0001 0.02 20 0.0012 20 0.0012 36 0.0002 36 0.0042 13 0.0021 0.002 0.0021 - 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| Silver, dissolved, CSR sched 3 Cadmium, dissolved, CSR Sc3 FAL Copper, dissolved, CSR Sc3 FAL Ladmium, dissolved, CSR Sc3 FAL Lad, dissolved, CSR Sc3 FAL Lad, dissolved, CSR Sc3 FAL Filvoride, CSR Sc3 FAL Mitchls, Total Aluminum, total Arsenic, total Barium, total Berryllium, total Bismuth, total Bismuth, total Cadmium, total Calcium, total Cabalt, total Chromium, total Chromium, total Copper, total Chromium, total Copper, total Chromium, total Sodium, total Sodium, total Sodium, total Sodium, total Silicon, total Silicon, total Silicon, total Strontium, total Eventian Strontium, total Tellurium, total Tellurium, total Tellurium, total Tellurium, total | mg/L mg/L | ns ns ns ns ns ns ns ns ns ns ns ns ns n | ng | -0.0001 0.0150 0.0500 0.0500 0.0500 0.0500 0.0500 0.0500 0.0500 0.0500 0.0500 0.0500 0.0500 0.0500 0.0500 0.0500 0.0500 0.0500 - | <pre><0.001 </pre> 0.0150 0.050 0.0900 1.50 0.110 1.65 3.00 | 0.0011 60.0 0.0150 0.0 0.00500 0.00 0.0500 0.00 0.0500 0.00 0.0000 0.00 0.0000 0.00 0.0000 0.00 0.0000 0.00 0.0000 0.00 0.0000 0.00 0.000 0.00 0.000 0.00 0.000 0.00 - 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- - - - - - - - - - - - | 0.01500 - 0.09000 1.500 0.000016 0.450 0.022 0.082 0.0023 - 0.0021 0.0022 210 0.0022 210 0.0022 210 0.0022 210 0.0023 - 0.0024 0.0024 0.00050 0.00024 0.0000024 0.00000000000000000000000000000000000 | 0.0150 0.000600 0.00000 0.0700 1.10 0.0600 0.900 0.900 0.900 0.900 0.0001 0.0001 0.0002 0.023 0.0001 0.0002 0.0003 0.00003 0.00003 0.00002 0.00028 0.000028 0.00008 0.00008 0.00008 0.00008 0.00008 0.000808 0.000808 0.00080 | 0.0150 0.000500 0.0500 0.0500 0.0500 0.0500 0.0600 0.0000 0.000 0.0005 0.048 0.00005 0.048 0.00005 0.048 0.0001 0.0048 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.00001 0.00005 0.0001 0.00005 0.0001 0.00005 0.0001 0.00002 0.0001 0.00005 0.0001 0.00002 0.0001 0.00005 0.0001 0.00005 0.0001 0.00005 0.0005 0.0000 0.00005 0.0005 00 | 0.00050 0.0030 0.030 0.25 0.050 0.075 3.0 0.0007 0.98 0.0003 0.034 <0.0003 0.034 <0.0001 <0.0002 20 0.0003 0. | 0.0150 0.000600 0.000600 0.00000 0.0600 0.0000 3.00 3. |
| Silver, dissolved, CSR sched 3 Cadmium, dissolved, CSR Sc3 FAL Copper, dissolved, CSR Sc3 FAL Ladmium, dissolved, CSR Sc3 FAL Ead, dissolved, CSR Sc3 FAL Ead, dissolved, CSR Sc3 FAL Fluoride, CSR Sc3 FAL Mitchig, Total Aluminum, total Arsenic, total Barium, total Barium, total Bismuth, total Bismuth, total Cobalt, total Calcium, total Calcium, total Cobalt, total Cobalt, total Cobalt, total Copper, total Cobalt, total Cobalt, total Cobalt, total Cobalt, total Copper, total Cobalt, total Copper, total Cobalt, total Copper, total Copper, total Cobalt, total | mg/L mg/L | ns ns ns ns ns ns ns ns ns ns ns ns ns n | ng 0.01 ng ng ng 0.05 1 0.001 ng | <0.0011 | <pre><c.0001 <="" pre=""> <.0.00150 </c.0001></pre> | 0.0011 60.0 0.0150 0.0 0.00500 0.00 0.0500 0.00 0.500 0.00 0.500 0.00 0.500 0.00 0.500 0.00 0.500 0.00 0.500 0.00 0.500 0.00 3.00 3.0 - - <td< td=""><td>150 0.0150 560 - 700 0.0900 10 1.500 500 0.1600 00 - 00 - 00 - 00 - 00 - 00 - 00 - 00 - 00 - 0.001 - 0.011 0.03 - 0.001 - - - - - 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- - <td>0.0005 0.01500 1.500 0.6000 - - - - - - - - - - - - - - - - - -</td><td></td><td>0.0105 0.00050 0.00010 0.025 0.025 0.040 0.025 2.0 - - - - - - - - - - - - - - - - - - -</td><td>0.0150 0.0900 1.50 0.100 1.65 0.00003 0.69 0.0003 0.0045 0.21 <0.00005 0.21 <0.00013 0.0045 0.0013 0.0005 0.012 0.00013 0.0002 0.00013 0.0002 0.00013 0.0002 0.00013 0.0002 0.0003 0.0003 0.0005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0.005 0</td><td>0.0150 0.0900 1.50 0.165 1.65 3.00 0.0005 0.25 0.0007 4.0001 0.22 76 0.0005 0.0005 0.0005 0.0005 0.0005 12 0.0005 0.0005 0.00025 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0</td><td>0.0150 0.0990 1.50 1.65 3.00 0.51 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.001 0.005 92 0.0001 0.002 0.001 0.002 12 0.002 12 0.0037 4.4 0.00048 0.00048 0.00048 0.00048 0.00048 0.00057 0.038 0.00057 0.0005</td><td>0.0150 0.0950 0.09900 1.50 0.110 1.65 3.00 0.0025 0.29 <0.00001 0.008 0.0025 0.29 <0.00001 0.0004 77 0.00001 0.0004 3.2 - 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| Silver, dissolved, CSR sched 3 Cadmium, dissolved, CSR Sc3 FAL Copper, dissolved, CSR Sc3 FAL Lead, dissolved, CSR Sc3 FAL Lead, dissolved, CSR Sc3 FAL Eud, dissolved, CSR Sc3 FAL Fluoride, CSR Sc3 FAL Michies, Total Aluminum, total Arsenic, total Barium, total Barium, total Barium, total Cobalt, total Calcium, total Calcium, total Cobalt, total Soldium, total Soldium, total Silicon, total Silicon, total Thonium, total Cobalt, total | mg/L mg/L | ns ns ns ns ns ns ns ns ns ns ns ns ns n | ng 0.051 ng ng ng 0.051 ng | <0.0011 | <pre><c.0001 <="" pre=""> .0.00150 .0.0900 .1.50 .1.50 .1.50 .1.10 .1.65 </c.0001></pre> | 0.0011 60.0 0.0150 0.0 0.00500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.900 0.90 0.900 0.90 - - <tr td=""> - <td< td=""><td>150 0.0150 150 0.0150 1600 - 1700 0.0900 10 1.500 500 0.1600 10 1.500 500 0.000 0 - 00 - 00 - 00 - 000 - 000 - 000 - 0.001 0.002 <0.002</td> <0.002</td<></tr> | 150 0.0150 150 0.0150 1600 - 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- - - - - - - - - - | 0.01500 0.09000 1.500 0.1600 0.000016 0.45 0.022 0.038 0.00023 0.00023 0.00017 0.0016 0.002 220 0.00037 0.0016 0.0058 29 - 6.5 0.038 190 0.331 0.0031 0.0031 0.0031 0.0031 101 0.0031 0.0019 0.00019 0.00021 0.00021 0.00021 0.00021 0.00021 0.00021 0.00021 0.00021 0.00021 0.00021 0.00021 0.00021 0.00021 0.00021 0.00021 0.00021 0.00021 0.00021 0.00022 0.0 | 0.0150 0.000600 0.00700 1.10 0.06000 0.900 0.900 0.900 0.900 0.900 0.900 0.0002 0.023 0.023 0.0001 0.24 18 0.00001 0.24 18 0.00001 0.00005 0.900 0.900 0.900 0.0005 0.900 0.0005 0.0005 0.0002 0.0000 0.0002 0.0000 0.0000 0.0000 0.00000 0.00000 0.00000 0.000000 | 0.0150 0.000500 0.0500 0.0500 0.0500 0.0500 0.0500 0.0500 0.0005 0.020 0.0005 0.048 0.00005 0.048 0.00005 0.048 0.0001 0.008 39 0.0001 0.0001 0.0001 0.0002 0.21 -0.00001 0.0002 0.021 -0.00004 0.0002 0.0001 0.0002 0.0001 0.111 2.5 -0.00004 | 0.00050 0.0030 0.030 0.25 0.050 0.075 3.0 0.0007 0.98 0.00007 0.98 0.00007 0.98 0.0003 0.034 <0.0001 <0.0002 0.0003 0.0033 0.0049 0.0003 0.0049 0.0003 0.0049 0.0003 0.0049 0.0003 0.0049 0.0003 0.0049 0.0003 0.0049 0.0003 0.0049 0.0003 0.0049 0.0003 0.0049 0.0003 0.0049 0.0003 0.0049 0.0003 0.0049 0.0003 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0000 | 0.0150 0.000600 0.000600 0.00000 0.0000 0.00007 2.8 0.00017 2.8 0.0012 0.0012 0.0012 0.0005 3.0 0.00018 3.0 0.0001 3.8 0.00005 0.0011 3.8 0.0001 3.8 0.0001 3.8 0.0001 3.8 0.0001 3.8 0.0005 5.5 0.00045 0.0005 1.1 0.00096 2.7 2.7 3.8 0.0002 3.0 0.0015 5.5 0.00045 0.00025 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 1.1 0.00095 0.0005 0.00005 0 |
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| Silver, dissolved, CSR sched 3 Cadmium, dissolved, CSR Sc3 FAL Copper, dissolved, CSR Sc3 FAL Lead, dissolved, CSR Sc3 FAL Ead, dissolved, CSR Sc3 FAL Ead, dissolved, CSR Sc3 FAL Fluoride, CSR Sc3 FAL Michel, Total Silver, total Barvim, total Barvim, total Barvim, total Barvim, total Cadmium, total Cadmium, total Cadmium, total Cadmium, total Cadmium, total Cobalt, total Cadmium, total Cadmium, total Cobalt, total Sodium, total Sodium, total Sodium, total Silicon, total Silicon, total Cobalt, total Co | mg/L mg/L | ns ns ns ns ns ns ns ns ns ns ns ns ns n | ng 0.01 ng 0.05 ng 0.05 ng 0.05 ng 0.05 ng 0.05 ng ng | -0.0001 -0.0150 0.0500 0.0500 0.0500 0.0500 0.0500 0.0500 0.0500 0.0500 0.0500 0.0500 0.650 0.6600 0.900 3.00 - | <0.0001 | 0.0001 60.0 0.0150 0.0 0.00500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.000 0.00 3.00 3.1 - - | 150 0.0150 150 0.0150 1600 - 100 1.500 101 1.500 100 1.500 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 0.001 - 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| Silver, dissolved, CSR sched 3 Cadmium, dissolved, CSR Sc3 FAL Capper, dissolved, CSR Sc3 FAL Ladmium, dissolved, CSR Sc3 FAL Lad, dissolved, CSR Sc3 FAL Ead, dissolved, CSR Sc3 FAL Fluoride, CSR Sc3 FAL Mickel, Total Aluminum, total Arsenic, total Barium, total Barium, total Barium, total Bismeth, total Cadmium, total Cadmium, total Cadmium, total Cadmium, total Cadmium, total Cadmium, total Cobabt, total Cobabt, total Cobabt, total Cobabt, total Cobabt, total Cobabt, total Cobabt, total Mercury, total Potassium, total Mercury, total Maganese, total Molybdenum, total Sodium, total Sodium, total Sodium, total Sodium, total Cathinum, total Silcon, total Tin, total Tin, total Tin, total Tin, total Tin, total Cathinum, total Carconium, total Cathinum, total C | mg/L mg/L | ns ns ns ns ns ns ns ns ns ns ns ns ns n | ng | -0.0001 0.0150 0.0500 | <pre><c.0001 <="" pre=""></c.0001></pre> | 0.0011 60.0 0.00150 0.0 0.00000 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 0.0500 0.00 3.00 3.4 - 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- - - - - - - - - - - - | 0.0005 0.01500 1.500 1.500 0.1600 1.5000 1.50000 1.5000 1.5000 1.5000 1.5000 1.50000 1.50000 1.50000 1.50000000000 | 0.0000 0.0150 0.0150 0.150 0.150 0.100 1.50 0.100 0.10 0.1 | 0.0115 0.00050 0.00010 0.025 0.040 0.25 0.040 0.25 0.040 0.75 2.0 - - - - - - - - - - - - - - - - - - - | 0.0150 0.0900 1.50 0.0900 1.50 0.0900 1.50 0.0003 0.69 0.004 0.21 0.0005 0.012 0.001 0.22 67 0.0001 0.22 67 0.0001 0.22 67 0.0001 0.012 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.000 0.001 0.000 0. | 0.0150 0.0900 1.50 0.110 1.65 3.00 0.0005 0.25 0.0007 0.22 76 0.0005 0.22 76 0.0005 0.22 76 0.0005 0.025 0.0005 0.0 | 0.0150 0.0900 1.50 0.110 1.65 3.00 0.51 0.020 0.41 0.005 0.012 0.001 0.0012 0.0012 0.0019 0.0024 20 0.0024 20 0.022 1.8 0.0024 20 0.0027 4.4 0.00048 0.00048 0.00048 0.00048 0.00048 0.00048 0.00048 0.00048 0.00048 0.00048 0.00048 0.00048 0.00057 0.0338 0.00051 0.0338 0.00051 0.0338 0.00051 0.0338 0.00051 0.0338 0.00051 0.0338 0.00051 0.0338 0.00051 0.0338 0.00051 0.0338 0.00051 0.0005 | 0.0150 - 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| | | Station Code | | YOWN-0802 | WN-0802 YOWN-0805 YOWN-1101 YOWN-1301 YOWN-1401 YOWN-1401 Y | | | | | YOWN-1502 | YOWN-1504 | YOWN-1505 | YOWN-1506 | YOWN-1507 | YOWN-1507 | YOWN-1509 | YOWN-1509 | 509 YOWN-1510 YOWN-1512 YOWN-1512 | | | YOWN-1513 YOWN-1513 | | YOWN-1514 | YOWN-1515 | YOWN-1602 YOWN-1603 YOWN-1604 | | | YOWN-1607 | YOWN-1608 | YOWN-1610 | YOWN-1612 | YOWN-1612 | YOWN-1614 | YOWN-1701 | YOWN-1702 | YOWN-1703 | YOWN-1704 Yf | YOWN-1705 | |
|---|--------------|---------------|-----------|---|---|---|---|---|-------------|---|---|---|-----------|--|--|-----------|-----------|---|----------|-----------|---|---------|-----------|--|--|--|--|--|--|-----------|-----------|--|--|-----------|---|-----------|---|-------------------------------|----------|
| | | Sampling Date | | 2-Oct-17 | 29-Aug-17 | 17-Oct-17 | 11-Oct-17 | 5-Mar-17 | 21-Sep-17 | 26-Oct-17 | 2-Nov-17 | 2-Nov-17 | 17-Oct-17 | 23-Aug-17 | 8-Nov-17 | 8-May-17 | 28-Aug-17 | 29-Aug-17 | 9-May-17 | 29-Aug-17 | 9-May-17 29-Aug-1 | | 17-Oct-17 | 17-Oct-17 | 2-Oct-17 | 2-Oct-17 18-Oct-17 | | 11-Oct-17 | 8-Nov-17 | 26-Oct-17 | 6-Apr-17 | 9-May-17 | 29-Aug-17 | 11-Oct-17 | 3-May-17 | 18-Oct-17 | 7-Jun-17 | 7-Jun-17 | 7-Jun-17 |
| Description | 11-14 | Sample | Code | 2017245 | 2017202 | 2017264 | 2017255 | 2017008 | 2017238 | 2017271 | 2017272 | 2017273 | 2017259 | 2017197 | 2017282 | 2017058 | 2017200 | 2017198 | 2017059 | 2017203 | 2017060 | 2017201 | 2017257 | 2017258 | 2017246 | 2017244 | 2017260 | 2017254 | 2017284 | 2017270 | 2017046 | 2017061 | 2017199 | 2017256 | 2017054 | 2017263 | 2017082 | 2017084 | 2017083 |
| Parameter | Unit mg/l | <u>CSR AW</u> | HC_DWQ | 0.0063 | 0.150 | 0.112 | 0.120 | 0.1500 | 0.1500 | 0.25 | 0.1500 | 0.150 | 0.25 | 0.150 | 0.150 | 0.150 | 0.150 | 0.25 | 0.150 | 0.150 | 0.150 | 0.25 | 0.25 | 0.25 | 0.150 | 0.150 | 0.25 | 0.066 | 0.127 | 0.150 | 0.25 | 0.150 | 0.110 | 0.25 | 0.1500 | 0.142 | 0.105 | 0.25 | 0.130 |
| Lead, total CCME | mg/L | ns | ng | 0.0020 | 0.0070 | 0.0040 | 0.0040 | 0.00700 | 0.00700 | 0.0010 | 0.00700 | 0.0070 | 0.0010 | 0.0070 | 0.0070 | 0.0070 | 0.0070 | 0.0010 | 0.0070 | 0.0070 | 0.0070 | - | 0.0010 | 0.0010 | 0.0070 | 0.0070 | 0.0010 | 0.0020 | 0.0040 | 0.0070 | - | 0.0070 | 0.0040 | 0.0010 | 0.00700 | 0.0040 | 0.0020 | 0.0010 | 0.0040 |
| Nutrients | U. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ammonium Nitrogen as N | mg/L | * | ng | 0.03 | <0.01 | <0.01 | 0.04 | <u>4.12</u> | <u>4.55</u> | 0.09 | 0.11 | 0.01 | 0.3 | 0.14 | 0.12 | 0.19 | | 0.27 | 0.06 | - | <0.01 | | 0.85 | <0.01 | 0.04 | 0.04 | 0.03 | 0.02 | 0.02 | 0.06 | - | <0.01 | 1.36 | 0.03 | 0.07 | - | <0.01 | <0.01 | <0.01 |
| Nitrite Nitrogen, as N | mg/L | * | 1 | <0.01 | - | <0.01 | <0.01 | <1 | <1 | <0.01 | <0.1 | <0.1 | <0.1 | <0.01 | <0.01 | <0.010 | - | - | <0.010 | - | <0.010 | | <0.01 | <0.01 | <0.01 | <0.1 | <0.01 | <0.01 | <0.01 | <0.01 | - | <0.010 | | <0.01 | <0.10 | - | <0.01 | <0.01 | <0.01 |
| Nitrate Nitrogen, as N | mg/L | <u>400</u> | 10 | 0.02 | - | 0.16 | 0.03 | <1 | <1 | 0.01 | <0.1 | <0.1 | 0.2 | <0.01 | 0.05 | <0.10 | - | | <0.10 | - | <0.10 | - | <0.01 | <0.01 | <0.01 | <0.1 | 0.01 | <0.01 | 0.18 | <0.01 | - | 0.19 | - | <0.01 | <0.10 | - | <0.1 | <0.1 | <0.1 |
| Total Kjeldahl Nitrogen as N | mg/L | ns | ng | - 0.47 | - 2 25 | - 2.40 | - 19.96 | - 0.72 | - 0.21 | - 0.16 | - | - 1.09 | - 0.12 | - 2.91 | - 1 29 | - 1 91 | - 1 75 | 0.45 | - 1 91 | - | - | - 5.41 | - 0.12 | - 0.24 | - 0.28 | - | - | - | - | - 1 79 | - 62.20 | - 5 20 | - | - | - | - | - | - 2.62 | - 2.14 |
| Ammonium Nitrogen as N. CSR Sc3 fAI | mg/L | ns | ng | 3.70 | 11.3 | 11.3 | 18.4 | 3.70 | 1.31 | 1.3 | 4.00 | 3.70 | 1.310 | 11.3 | 4.23 | 11.3 | 11.3 | 1.31 | 11.3 | 11 | 11.3 | 18.5 | 1.31 | 1.31 | 1.31 | 4.01 | 18.5 | 11.3 | 18.5 | 11.3 | 18.4 | 18.5 | 11.3 | 3.70 | 18.5 | 18.4 | 18.5 | 18.5 | 11.3 |
| Un-ionized ammonia calculation | mg/L | ns | ng | 0.001 | 0.000 | 0.000 | 0.000 | 0.108 | 0.415 | 0.011 | 0.000 | 0.000 | 0.044 | 0.001 | 0.001 | 0.002 | | 0.043 | 0.001 | - | 0.000 | - | 0.137 | 0.001 | 0.003 | 0.000 | | 0.000 | | 0.001 | - | 0.000 | 0.009 | 0.001 | 0.000 | - | 0.000 | 0.000 | 0.000 |
| Nitrite Nitrogen, as N, CSR Sc3 fAL | mg/L | ns | ng | 0.20 | 0.400 | 0.20 | 0.400 | 0.60 | 0.6 | 0.20 | 0.80 | 2.00 | 2.00 | 0.800 | 0.400 | 0.2 | - | 0.20 | 0.20 | - | 2.00 | - | 0.400 | 0.20 | 0.20 | 0.40 | 0.20 | 0.20 | 0.20 | 0.20 | - | 2.00 | 0.200 | 2.00 | 0.20 | 0.400 | 0.20 | 0.20 | 0.20 |
| Nitrogen, Total | mg/L | ns | ng | <0.06 | 0.52 | 0.32 | 0.08 | 5 | 4.79 | 0.1 | 0.53 | 0.33 | 0.69 | 0.34 | 0.6 | 0.26 | - | 0.45 | 0.16 | - | 0.18 | - | 1.31 | 0.34 | 0.17 | 0.11 | 0.35 | 0.34 | 3.8 | 0.67 | - | 0.43 | 1.96 | 0.09 | 0.44 | <0.06 | 0.23 | 0.28 | 0.37 |
| Phosphorus, Total Phosphate as P | mg/L | ns | ng | <0.003 | 0.012 | 0.027 | <0.003 | 0.041 | 0.019 | 0.076 | 0.012 | 0.004 | 0.021 | 0.092 | 0.08 | 0.315 | • | 0.008 | 0.089 | - | 0.024 | - | 0.008 | 0.004 | 0.062 | 0.206 | <0.003 | 0.021 | 1.31 | 0.01 | - | 0.006 | 0.029 | 0.539 | 0.015 | - | 0.016 | 0.019 | 0.207 |
| Carbon, Dissolved Organic | mg/L | ns | ng | 0.7 | 0.9 | 1.5 | 1 | 2.6 | 3.5 | <0.5 | 5 | < 0.5 | <0.5 | 1.8 | 3.7 | 0.7 | | 12.6 | 1.1 | - | 0.6 | | 1 | <0.5 | 5.1 | 1.6 | 0.9 | 4.2 | 0.9 | 2.3 | | 2.8 | 1.5 | <0.5 | 1.9 | | 2.1 | 3.2 | 3.5 |
| Carbon, Total Organic | mg/L | ns | ng | 0.7 | 1.7 | 2 | 2.1 | 3.4 | 3.5 | 1.1 | 5.6 | 1 | 0.9 | 2.6 | 28 | 1.6 | - | 14 | 1.5 | - | 1 | - | 1.4 | 0.7 | 6.2 | 1.9 | 0.8 | 5.9 | 36 | 3.2 | - | 2.7 | 4.2 | 3 | 2.4 | - | 2.7 | 3.7 | 3.6 |
| Carbon, Dissolved Inorganic | mg/L | ns | ng | 15 | 51.4 | 34.5 | 30.9 | 199 | 154 | 1.7 | 95.6 | 51.8 | 188 | 59.2 | 57.8 | 60.2 | - | 9.8 | 80.9 | - | 66.1 | - | 7.3 | 4 | 25 | 18 | 5.1 | 13.1 | 29 | 56.4 | - | 52.5 | 31.4 | 15 | 75.3 | - | 25.7 | 14.5 | 35.6 |
| Carbon, Total Inorganic | mg/L | ns | ng | 15 | 52.2 | 35.7 | 30.8 | 212 | 161 | 8.1 | 102 | 52.8 | 186 | 59.8 | 58.9 | 61.6 | - | 10 | 82 | - | 67.3 | - | 7.3 | 4 | 25 | 18 | 5.1 | 13.2 | 32 | 56.9 | - | 54.8 | 31.6 | 15 | 75.4 | - | 26.1 | 14.5 | 36.3 |
| Volatile Organic Hydrocarbons | h | | | | 0.05 | | | 0.05 | 0.05 | | | | | 0.05 | 0.05 | | | | | | | | | | | | | | | | | | | | | | 0.05 | 0.05 | 0.05 |
| Volatile Hydrocarbons (C6-10) | mg/L | <u>15</u> | ng | | <0.05 | - | - | <0.05 | <0.05 | - | - | | | <0.05 | <0.05 | | | | | - | | | - | - | | | | | | | - | - | | | | - | <0.05 | <0.05 | <0.05 |
| Penzene | ug/L | 4000 | 5 | | <0.5 | | | <0.05 | <0.03 | | | | | <0.5 | <0.5 | | | | | | | | | | | | | | | | | | | | | | <0.5 | <0.5 | <0.5 |
| Ethylbenzene | ug/L | 2000 | ng | - | <0.5 | - | - | <0.5 | <0.5 | - | - | - | - | <0.5 | <0.5 | - | | | - | - | | - | - | - | | - | - | | | | - | - | - | | | - | <0.5 | <0.5 | <0.5 |
| Methyl-tert-butyl-ether | ug/L | ns | 15 | - | <0.5 | - | - | <0.5 | <0.5 | - | - | - | - | <0.5 | <0.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.5 | <0.5 | <0.5 |
| Styrene | ug/L | 720 | ng | - | <0.5 | | - | <0.5 | <0.5 | - | | - | | <0.5 | <0.5 | | | | - | - | | - | - | - | | - | - | | | | | - | | | | - | <0.5 | <0.5 | <0.5 |
| Toluene | ug/L | <u>390</u> | 60 | - | <0.5 | - | - | 7.6 | 5.5 | - | - | - | - | <0.5 | <0.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.5 | <0.5 | <0.5 |
| Xylenes, Total (ortho, meta, and para) | ug/L | ns | 90 | | <0.5 | • | - | <0.5 | <0.5 | | | • | | <0.5 | <0.5 | | | - | | - | | | - | | - | | | | | | - | • | | | | - | <0.5 | <0.5 | <0.5 |
| Sweeteners | ng/l | ns | ng | 0 | | | -2 | | | | | | | <2 | | <2 | | <2 | <2 | | -0 | | - 2 | 0 | - 2 | 0 | 0 | <2 | | | | -2 | 0 | <2 | 0 | <2 | -2 | <2 | 0 |
| Cvclamate | ng/L | ns | ng | <3 | - | | <3 | - | | - | - | - | - | <3 | - | <3 | | <3 | <3 | - | <3 | - | <3 | <3 | <3 | <3 | <3 | <3 | | | - | <3 | <3 | <3 | <3 | <3 | <3 | <3 | <3 |
| Saccharin | ng/L | ns | ng | 95.4 | - | - | 19.5 | - | - | - | - | - | - | 12.7 | - | <2 | - | 29.5 | <2 | - | <2 | - | 7.4 | 6.6 | 215.6 | 1998.1 | 159.7 | 111.9 | - | | - | 2 | 10.3 | 35.1 | <2 | 15.5 | 8.5 | 12.5 | 31.3 |
| Sucralose | ng/L | ns | ng | <20 | | - | <20 | - | | - | | - | | <20 | - | <20 | | <20 | <20 | - | <20 | | <20 | <20 | <20 | <20 | <20 | <20 | | | - | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 |
| Alkalinity | | ns | ng | - | - | - | | - | - | - | - | | - | | - | | - | - | - | - | - | - | - | - | - | | - | | - | - | - | | - | - | | - | | | - |
| Alkalinity, Bicarbonate HCO3 | mgCaCO3/L | ns | ng | 89 | 303 | 187 | 194 | 1020 | 577 | 130 | 478 | 257 | <5 | 302 | 312 | 299 | - | 69 | 419 | - | 336 | - | 654 | 38 | 126 | 97 | 16 | 82 | 108 | 310 | - | 264 | 174 | 74 | 372 | 172 | 139 | 74 | 189 |
| Alkalinity, Carbonate CO3 | mgCaCO3/L | ns | ng | <b< td=""><td><b< td=""><td><b< td=""><td><b< td=""><td><b< td=""><td>161</td><td><b< td=""><td><b< td=""><td><b< td=""><td>18</td><td><b< td=""><td><b< td=""><td><6</td><td></td><td><b< td=""><td><6</td><td>-</td><td><b< td=""><td></td><td>194</td><td><b< td=""><td><b< td=""><td><b< td=""><td><b< td=""><td><b< td=""><td><b< td=""><td><6</td><td>-</td><td><b< td=""><td><b< td=""><td>12</td><td><b< td=""><td><6</td><td><b< td=""><td><b< td=""><td><6</td></b<></td></b<></td></b<></td></b<></td></b<></td></b<></td></b<></td></b<></td></b<></td></b<></td></b<></td></b<></td></b<></td></b<></td></b<></td></b<></td></b<></td></b<></td></b<></td></b<></td></b<></td></b<></td></b<> | <b< td=""><td><b< td=""><td><b< td=""><td><b< td=""><td>161</td><td><b< td=""><td><b< td=""><td><b< td=""><td>18</td><td><b< td=""><td><b< td=""><td><6</td><td></td><td><b< td=""><td><6</td><td>-</td><td><b< td=""><td></td><td>194</td><td><b< td=""><td><b< 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| Alkalinity, Phenolphthalein. | mgCaCO3/L | ns | ng | <5 | <5 | <5 | <5 | <5 | 134 | <5 | <5 | <5 | 111 | <5 | <5 | <5 | | <5 | <5 | - | <5 | - | 162 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | - | <5 | <5 | 10 | <5 | <5 | <5 | <5 | <5 |
| Alkalinity, Total | mgCaCO3/L | ns | ng | 73 | 249 | 153 | 159 | 833 | 742 | 106 | 392 | 211 | 126 | 248 | 256 | 245 | - | 57 | 344 | - | 275 | - | 861 | 31 | 103 | 80 | 13 | 67 | 88 | 254 | - | 216 | 142 | 81 | 305 | 141 | 114 | 61 | 155 |
| Anions | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chloride | mg/L | ns | 250 | 0.31 | 2.41 | 0.81 | 3.03 | <5.0 | <5 | 0.55 | 6.6 | 12.4 | 26.9 | 6.06 | 2.15 | 0.07 | - | 0.37 | 0.36 | - | 19.9 | - | 3.91 | 0.17 | 0.91 | 2.5 | 1.3 | 0.41 | 0.79 | 0.61 | - | 10.4 | 1.11 | 17.9 | 1.3 | 2.57 | 0.14 | 0.13 | 0.47 |
| Fluoride | mg/L | <u>*</u> | ng | 0.05 | 0.08 | 0.05 | 0.01 | | | 0.81 | 0.1 | 0.2 | <u>31</u> | - | - | 0.076 | | 0.15 | 0.142 | - | 0.057 | | 0.08 | 0.3 | 0.04 | 0.3 | 0.27 | 0.84 | 0.07 | 0.09 | - | 0.0964 | 0.12 | 0.08 | 0.25 | 0.06 | 0.09 | 0.06 | 0.22 |
| Soluble Gases | mg/L | 1000 | 500 | 19.1 | 7.0 | 1.5 | 17.8 | 4600 | 4450 | 47.8 | 853 | 189 | 1 | 21.9 | 29.8 | 15.8 | | 3.0 | <0.1 | - | 4.4 | • | <0.1 | 0.2 | 22.8 | 305 | 125 | 0.8 | /3./ | 0.1 | - | 5.7 | <0.1 | 24.9 | 900 | 01.3 | 0.1 | 0.3 | 5.8 |
| ethane, dissolved in water | mg/L | ns | ng | | · · | | | | 0.007420641 | | | | · · | | - | | | | | | | | | | | | | | | | - | | | | | | | | · · · |
| propane, dissolved in water | mg/L | ns | ng | - | - | - | - | - | 0.002838799 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| methane, dissolved in water | mg/L | ns | ng | - | - | - | - | - | 0.151810698 | - | - | - | - | - | - | - | | | - | - | - | | - | - | - | - | | | | | - | - | | | | - | - | | - |
| carbon dioxide, dissolved in water | mg/L | ns | ng | - | - | - | - | - | 6.33226937 | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | - | - | - | - | | | - | - | | - | - | - | - | - | - |
| nitrogen gas, dissolved in water | mg/L | ns | ng | - | | - | | | 44.8/0588// | - | - | - | | | - | | | | | - | | | - | - | - | - | - | | | | - | - | | | | - | - | | |
| oxygen gas, dissolved in water Bromide | mg/L | ns | ng | | <0.02 | | | <2.0 | <2 | | | | | <0.02 | <0.02 | 0.047 | | <0.02 | 0.047 | | <0.020 | | | | | | | | | | | < 0.020 | < 0.02 | | <0.20 | | 0.03 | <0.02 | 0.04 |
| Turbidity (not specified F,L) | NTU | ns | ng | - | | - | - | - | 60.2 | - | 2.5 | 9.3 | - | - | - | | - | | | - | - | - | - | - | - | | - | | - | | - | - | | - | - | - | - | - | - |
| Isotopes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Actinium228 | Bq/L | ns | ng | - | | - | - | <0.9 | - | - | - | - | | <1 | <0.3 | - | | - | - | - | - | - | - | - | - | - | - | - | | - | - | - | - | - | | - | - | - | - |
| Bismuth212 | Bq/L | ns | ng | - | - | - | - | <0.9 | - | - | - | - | - | <2 | <0.7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | | - | - | - | |
| ead210 | Bo/L Bo/I | ns ns | ng 0.2 | - | | | | <0.5 | | | | | | | 0.4 c2 | | | | | | | | | | | | | | | - | - | | | | | | - <0.1 | - <0 1 | <0.1 |
| Lead210 | Bq/L Bq/L | ns | ng | - | | | - | <4 | | | | | | <6 | <2 | | - | | | | | | | | | | | | | | - | - | | | | | -0.1 | -0.1 | |
| Lead212 | Bq/L | ns | ng | - | - | | - | 0.4 | - | | - | - | - | 0.8 | <0.1 | - | | | - | - | - | - | - | - | - | - | | - | | - | - | - | - | | | - | - | - | - |
| Lead214 | Bq/L | ns | ng | - | - | - | - | <0.5 | - | - | - | - | - | <0.6 | 0.4 | - | - | | - | - | | - | - | - | - | - | - | | - | - | - | - | - | - | | - | - | | - |
| Potassium40 | Bq/L | ns | ng | - | | - | - | 18 | - | - | - | - | | <6 | <2 | - | | - | - | - | - | - | - | - | - | - | - | - | | - | - | - | - | - | | - | <7 | <3 | <6 |
| Radium223 | Bq/L | ns | ng | - | - | - | - | <1 | - | - | - | - | - | <0.8 | <0.4 | - | - | - | - | - | - | | - | - | - | - | - | - | | | - | - | | - | - | - | - | - | - |
| Radium226 | Bq/L Bq/L | ns | 0.5 | - | | - | - | <5 | - | - | - | - | | <5 | <2 | 0.03 | - | - | 0.008 | - | 0.01 | | - | - | - | | | | | | - | 0.01 | | | 0.02 | - | <0.05 | 0.3 | 0.1 |
| Radon219 | Bq/L Bg/l | ns | ng | | | | | <0.7 | | | | | | <2 | <0.2 | | | | | | | | | | | | | | | | | | | | | | - | - | |
| Thallium208 | Bq/L | ns | ng | - | - | - | - | 0.5 | - | - | - | - | - | 0.3 | <0.1 | - | | | - | - | | - | - | - | | - | - | | | - | - | - | - | | | - | - | | |
| Thorium227 | Bq/L | ns | ng | - | - | - | - | <0.8 | - | - | - | - | - | <0.9 | <0.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Thorium228 | Bq/L | ns | ng | - | - | - | - | | - | - | - | - | - | | | - | - | - | - | - | - | | - | - | - | - | | - | - | - | - | - | - | - | | - | <0.1 | <0.1 | <0.1 |
| Thorium230 | Bq/L | ns | ng | - | - | - | | <30 | - | - | - | - | - | <20 | <6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | <0.1 | <0.1 | <0.1 |
| Thorium234 | Bq/L | ns | ng | | - | - | - | <4 | - | - | - | - | - | <4 | <1 | | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - | - | - | | - | <4 | <4 | <4 |
| VSMOW isotopic composition | BQ/L | ris | 0.02 | · · | | · · | - | <1 | - | | | | | <1 | <0.5 | | | <u> </u> | | - | - | | - | | | | - | | | | - | | | | | - | | | <u> </u> |
| Carbon-13 in dissolved inorganic C | % VSMOW | ns | ng | | · · | - | | | -9.81 | | | | · · | -12.84 | | -13.1 | | | -14.16 | - | -13.92 | | - | | | | | | | | - | -14 | | | -9.43 | | -14.3 | -15.19 | -13.88 |
| Oxygen-18 in sulphate | % VSMOW | ns | ng | - | - | - | | - | -14.4 | - | - | - | - | 1.3 | - | -10.74 | - | - | | - | -10.69 | - | - | - | - | - | - | - | - | - | - | -11.73 | - | - | -20.61 | - | -9.25 | -9.48 | -12.56 |
| Oxygen-18 in water | % VSMOW | ns | ng | -21.46 | - | - | -21.82 | - | -20.524 | - | - | - | - | -19.408 | - | -22.344 | - | -22.23 | -21.544 | - | -22.258 | - | -21.65 | -21.28 | -21.25 | -22.65 | -22.32 | -21.64 | - | - | - | -20.993 | -22.48 | -22.73 | -23.194 | -22.18 | -21.973 | -21.812 | -21.941 |
| deuterium | % VSMOW | ns | ng | -168.8 | - | - | -171.5 | - | -166.53 | - | - | - | - | -152.79 | - | -177.38 | - | -175.1 | -172.68 | - | -176.72 | - | -168.2 | -165.5 | -166.6 | -181.3 | -176.7 | -170.2 | | - | - | -165.09 | -178.6 | -179.7 | -186.32 | -174.4 | -170.13 | -168.2 | -170.03 |
| Sulphur-34 in sulphate | % VSMOW | ns | ng | - | - | - | | - | -5.52 | - | - | - | - | -1.03 | - | 7.81 | - | - | - | - | 5.58 | - | | | | | | | - | - | - | -3.21 | | | 3.54 | | 3.69 | 3.29 | 2.98 |

2

APPENDIX B

2017 Field Measurements Summary



| Well ID | Well Name | Date | Depth to Groundwater (m bTOC) | Well Depth (m bTOC) | Well Casing Stickup (m) | Groundwater Temperature (C°) | Dissolved Oxygen (mg/L) | Specific Conductance (uS/cm) | pН | Oxidation- Reduction Potential (mV) | Turbidity (NTU) | |
|------------|--------------------------------------|-----------|-------------------------------------|------------------------|----------------------------|------------------------------------|----------------------------|------------------------------------|--------------------|---|--------------------|--|
| YOWN-0101 | Wolf Creek Well | 15-Feb-17 | 16.2 | 54.7 | - | - | - | - | - | - | - | |
| YOWN-0801 | Whitehorse Copper Well | 15-Feb-17 | 6.79 | 28.17 | 0.65 | - | - | - | - | - | - | |
| YOWN-0802 | Faro Well | 31-Jan-17 | 4.94 | - | 1.32 | - | - | - | - | - | - | |
| YOWN-0802 | Faro Well | 02-Oct-17 | 4.294 | - | - | 5.1 | 5.75 | 157.8 | 8.44 | -114.9 | 24.3 | |
| YOWN-0803 | Dawson Well | 09-Nov-17 | 9.57 | 6.12 | - | | PVC c | asing bented; not | t able to access t | ne well | | |
| YOWN-0804 | Selkirk Well | 17-Feb-17 | 6.09 | 55.13 | 0.32 | - | - | - | - | - | - | |
| YOWN-0805 | Watson Lake Well | 08-Feb-17 | 6.81 | | 0.98 | - | - | - | - | - | - | |
| YOWN-0805 | Watson Lake Well | 29-Aug-17 | 6.49 | - | - | 7 | 4.48 | 432 | 7.66 | -109 | - | |
| YOWN-1101 | McRae Creeks Well | 18-Jan-17 | 11.72 | 15.92 | 0.83 | - | - | - | - | - | - | |
| YOWN-1101 | McRae Creeks Well | 24-Oct-17 | 11.896 | 15.46 | - | 2.2 | 9.77 | 835 | 7.82 | 154 | OR | |
| YOWN-1301 | Beaver Creek Well | 21-Feb-17 | 14.48 | 17.63 | 0.65 | - | - | - | - | - | - | |
| YOWN-1301 | Beaver Creek Well | 11-Oct-17 | 12.514 | | 0.68 | 2 | 2.82 | 149.9 | 6.93 | - | 7.9 | |
| YOWN-1401 | Eagle Plains Well | 05-Mar-17 | 9.906 | - | - | -0.1 | 2.01 | 9280 | 8.43 | -221.5 | - | |
| YOWN-1401 | Eagle Plains Well | 20-Sep-17 | 9.875 | - | - | 1.2 | 2.7 | 9102 | 8.95 | -231 | 60.2 | |
| YOWN-1501 | Marsh Lake Recreation Site Well | 14-Feb-17 | 2.3 | Frozen (?) | 0.62 | - | - | - | - | - | - | |
| YOWN-1501 | Marsh Lake Recreation Site Well | 26-Oct-17 | 2.308 | 2.46 | 0.62 | | Mucky | water; monitoring | g well casing like | y silted | 1 | |
| YOWN-1502 | Marsh Lake Campground Well | 14-Feb-17 | 0.89 (ice) | - | 0.59 | - | - | - | - | - | - | |
| YOWN-1502 | Marsh Lake Campground Well | 26-Oct-17 | 1.005 | 52.86 | 0.61 | 3.2 | 1.5 | 700 | 9 | -17.9 | 22.8 | |
| YOWN-1503 | Champagne Well (CAFN-GW-1) | 21-Feb-17 | 10.3 | 17.89 | 0.53 | - | - | - | - | - | - | |
| YOWN-1504 | Grizzly Valley Well | 18-Jan-17 | 7.69 | >100 | 0.59 | - | - | - | - | - | - | |
| YOWN-1504 | Grizzly Valley Well | 02-Nov-17 | 7.64 | >100 | 0.59 | 1.4 | 3.25 | 2040 | 7.56 | -33.6 | 2.5 | |
| YOWN-1505 | Deep Creek Well | 18-Jan-17 | 4.47 | >100 | 0.59 | - | - | - | - | - | - | |
| YOWN-1505 | Deep Creek Well | 02-Nov-17 | 4.608 | >100 | 0.6 | 1.9 | 2.42 | 872 | 8.18 | -45.2 | 9.3 | |
| YOWN-1506 | Million Dollar Falls Campground Well | 21-Feb-17 | 2.39 | 16.83 16.EE | 0.74 | - | - 1.4E | - | - | - | - | |
| YOWN-1506 | Million Dollar Fails Campground Well | 17-Oct-17 | 1.969 | 16.55 | 0.75 | 3.7 | 1.45 | 1638 | 9.09 | 99.1 | 31.3 | |
| YOWN-1507 | Kotaneelee Gas Plant Well | 23-Aug-17 | 1.88 | - | - | 7.9 | 2.3 | 592 | 7.55 | -181 | - | |
| YOWN-1508 | Cimerent Lake Comparented Well 1 | 30-Aug-17 | 9.87 | 18.5 | - | 6.14 | 3.21 | 232 E14 | 0.4 | -0.0 | - | |
| YOWN-1509 | Simpson Lake Campground Well-1 | 28-Aug-17 | 1.39 | n.a. | n.a. | 4.7 | 3.83 | 514 | 7.87 | -165.5 | 5.8 | |
| YOWN-1510 | Simpson Lake Campground Well-2 | 20 Aug 17 | 1.51 | - | 0.25 | 50 | - | 127.6 | 9.05 | - | - | |
| YOWN-1511 | Watson Lake Campground Well-1 | 07-Eeb-17 | 39.97 | | | 5.5 | 4.01 | 137.0 | 3.05 | -151 | - | |
| YOWN-1511 | Watson Lake Campground Well-1 | 09-May-17 | n.a. | n.a. | n.a. | 37 | 4.83 | 586 | 7.89 | -187 | 85 | |
| YOWN-1512 | Watson Lake Campground Well-1 | 29-Aug-17 | n.a. | n.a. | n.a. | 45 | 2.87 | 568 | 7.55 | -127.7 | - | |
| YOWN-1512 | Big Creek Campground Well | 09-May-17 | 5 35 | 8 | - | -4.5 | 9 | 550 | 7.5 | -15.9 | 133 | |
| YOWN-1513 | Big Creek Campground Well | 29-Aug-17 | - | - | - | 4.9 | 9.1 | 476 | 7.37 | -15.5 | - | |
| YOWN-1514 | Kusawa Camporound Well-1 | 20-Eeb-17 | 3 38 | 20.63 | 0.64 | - | | - | - | - | - | |
| YOWN-1514 | Kusawa Campground Well-1 | 17-Oct-17 | 2.631 | 19.89 | 0.635 | 2.2 | 1.73 | 70.1 | 9.19 | -299.6 | 39.5 | |
| YOWN-1515 | Kusawa Campground Well-2 | 20-Feb-17 | 5.98 | 12.6 | 0.65 | - | - | _ | - | - | - | |
| YOWN-1515 | Kusawa Campground Well-2 | 17-Oct-17 | 4.472 | 12.555 | - | 2 | 1.75 | 30.8 | 8.85 | -9.9 | 43.5 | |
| YOWN-1602 | Faro Observation Well | 31-Jan-17 | 4.55 | 6.38 | 0.66 | - | - | - | - | - | - | |
| YOWN-1602 | Faro Observation Well | 02-Oct-17 | 3.845 | 3.877 | - | 6.2 | 3.55 | 148.1 | 8.64 | 37.6 | 25.4 | |
| YOWN-1603 | Johnson Lake Campground Well | 02-Oct-17 | 8.497 | 26.1 | - | 2.4 | 5.1 | 757 | 7.51 | -137.8 | 635 | |
| YOWN-1604 | Pine Lake Campground Well | 21-Feb-17 | 2 | - | 0.54 | | | Well f | rozen | | | |
| YOWN-1604 | Pine Lake Campground Well | 18-Oct-17 | 2.102 | >100 | - | | | YSI batte | ery dead | | | |
| YOWN-1605 | Pine Lake Day Use Well | 18-Oct-17 | Artesian | | 0.47 | | | Ice cap on top | ow well casing | | | |
| YOWN-1606 | Snag Campground Well | 21-Feb-17 | DRY | 6.69 | 0.85 | Well in | stalled in permafi | rost; frozen year- | round; some silt/ | sand slush on to | p of ice | |
| YOWN-1606 | Snag Campground Well | 11-Oct-17 | DRY | 6.68 | - | Well in | stalled in permafi | rost; frozen year- | round; some silt/ | sand slush on to | p of ice | |
| YOWN-1607 | Lake Creek Campground Well | 21-Feb-17 | 2.48 | 9.82 | 0.64 | - | - | - | - | - | - | |
| YOWN-1607 | Lake Creek Campground Well | 11-Oct-17 | 2.474 | 9.617 | 0.64 | 4.2 | 2.46 | 144 | 7.86 | - | -64 | |
| YOWN-1608 | Klondike Campground Well | 08-Nov-17 | 0.59 | 3.367 | 0.59 | 1.5 | 6.78 | 1256 | Sensor no | t working; water | too turbid | |
| YOWN-1609 | Yukon River Campground Well | 16-May-17 | n.a. | n.a. | n.a. | 2 | 2.9 | 646 | 6.91 | -38.2 | 1.8 | |
| YOWN-1610 | Judas Creek Campground Well | 14-Feb-17 | 4.82 | 13.31 | 0.91 | - | - | - | - | - | - | |
| YOWN-1610 | Judas Creek Campground Well | 26-Oct-17 | 5.039 | 13.204 | 0.944 | 3.1 | 1.28 | 631 | 7.92 | -167.2 | 45.6 | |
| YOWN-1611 | Tagish Campground Well | - | - | - | - | | Ar | tesian well; well | casing welded sh | ut | | |
| YOWN-1612 | Morely Lake Rec. Site Well | 06-Apr-17 | - | - | - | 5.5 | 8.9 | 418 | 6.28 | 145 | - | |
| YOWN-1613 | Watson Lake Campground Well-3 | 07-Feb-17 | 12.73 | 19.4 | - | - | - | - | - | - | - | |
| YOWN-1614 | Wellgreen Well | 20-Feb-17 | 9.71 | >100 | 0.39 | - | - | - | - | - | - | |
| YOWN-1614 | Wellgreen Well | 11-Oct-17 | 10.442 | >100 | - | 2.2 | 2.2 | 292.7 | 8.47 | - | 3.2 | |
| YOWN- 1701 | Johnson Lake Campground Well-2 | 03-May-17 | 9.43 | 21 | - | 2.3 | 5.68 | 1862 | 7.36 | 121.7 | 9.04 | |
| YOWN- 1702 | Congdon Creek Campground Well-3 | 25-Apr-17 | 8.89 | 13.5 | - | 4.3 | 7.3 | 919 | 7.24 | -25 | 40 | |
| YOWN- 1703 | CAFN MW-01 | 07-Jun-17 | 7.495 | - | - | 6.7 | 4.75 | 226 | 7.3 | 79 | 6.9 | |
| YOWN- 1704 | CAFN MW-02 | 07-Jun-17 | 7.988 | - | - | 7 | 7.1 | 136 | 7.47 | 118 | 43 | |
| YOWN- 1705 | CAFN MW-03 | 07-Jun-17 | 7.288 | - | - | 12.9 | 10.38 | - | 7.5 | 103 | - | |
| YOWN- 1706 | Yukon College Well-1 | - | | - | - | - | - | - | - | - | - | |

*Elevations were approximated based on a handheld GPS reading and should not be held for reference.


APPENDIX C

Borehole Logs

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Environment Yukon Water Well Registry Water Resources Branch Box 1703, Whitehorse, Yukon, Y1A 2C6

WATER WELL DRILLING REPORT

Printed on 2011 Jun 24

The data contained in this report is supplied by the Driller. The Government of Yukon disclaims responsibility for its accuracy. The information contained in this "Water Well Drilling Report" has not been verified by the Water Resources Branch. If fields are empty, then no information was provided by the driller.

WELL LOCATION BH 77-4 Well Name: The well name is simply an informal name given to a well upon it's completion. **Sketch of Well Location** Address (e.g., street, lot): This sketch has been provided by the driller and should be considered as an approximation Town/Village/Hamlet/Area: WHSE - Whitehorse of well location only. 6719071 **UTM Coordinates of Well Location:** 499701 mE m N 8 NAD83 Zone Accuracy of Well Location: 4 +/- m Given that the well location may not be accurate, the above accuracy value represents the approximate error that might be associated with the actual well location. Water exploration test hole The well was drilled for the following purpose: Date the well was completed: The method used to drill the well: LOG OF OVERBURDEN AND BEDROCK MATERIALS The following section describes the geological materials (as recorded by the driller) that were encountered when the well was first drilled. Depth (m) **General Description General Colour Most Common Material Secondary Materials** From То Silty sand and GRAVEL 0 24 TILL, v. silty 2.4 4 BASALT, hard (boulder?) 6.7 TILL, sandy fine, silt 6.7 11.9 BASALT, fine, hard 11.9 29.6 BASALT, rusty silt in fract 29.6 33.5 If yes, the depth interval was: from: m to m While drilling the well, was permafrost encountered? WELL CONSTRUCTION 2041401241 Monitor ID: The following section provides information about the well construction details. For administrative purposes only In what geological material (i.e. sand and gravel or bedrock) is the water producing zone of the well completed? 152.5 cm The outside diameter of the well casing: The casing material is made out of: The casing wall thickness is: mm m The casing extends in a depth below ground surface of: Other comments that were provided by the driller regarding the casing: A surface seal provides an impermeable seal between the casing and the ground in the upper 3 metres. This seal helps prevent surface water from Surface/Environmental Seal leaking downward and into the well water. Seal Depth from: m Seal Depth to: m Seal Material Type: **Diameter of Seal:** m

Water Well Drilling Report, Yukon Department of Environment, Water Resources Branch

Well ID: 204110124

Well ID: 204110124

| Gravel Pack A gravel pack is sometimes installed by the driller around the well screen yield. | n. The purpose of a gravel pack could be to reduce sand production in the well water or to increase well |
|---|---|
| Is there a gravel pack on the well? | |
| Gravel pack details (as provided by the driller): | |
| Well Screen Infromation | Screened Interval from: 4 m to: 33.5 m |
| The outside diameter of the screen is: mm | Screen 1 Length: 29.5 m Slot Size 1: thou. inch |
| The screen is made of: | Screen 2 Length: m Slot Size 2: thou. inch |
| The type of screen is: Open Hole | Screen 3 Length: m Slot Size 3: thou. inch |
| There are many types of well screens on the market. | Other useful comments about the screen: |
| Wells with no screens or wells constructed in bedrock are called "OPEN HOLE". | Open Hole |
| WELL DEVELOPMENT AND STATUS Following well construction, the w water quality, the well status is d information about Well Developm | well is developed or clean-out until clear groundwater is produced. Depending on the well yield and tetermined (i.e. the well is put into production or the well is abandoned). The following section provides ment and Status. |
| The well was developed by: Air surging | |
| Once the well was constructed the following completion or "tie in | " was constructed: |
| The height of the well casing above ground surface construction (| (i.e. Well Stick-up) is: m AGS |
| The static water level (i.e. non pumping condition) below top of ca | asing is: m |
| The estimated yield or production rate of the well is: | 0.75 L/s |
| After constructing and developing the well, the Well Status was: | Not in use |
| If the well was abandoned, was the well properly filled (i.e. sealed | I) with bentonite grout? If YES, date: |
| Method used to estimate the well yield: | |
| PUMPING TEST RECORD AND GROUNDWATER QUALITY | Following well construction, the well may have been assessed for quality and/or tested to determine |
| Pumping Test Information Recomm | done. ended Pump |
| Pumping Test Start Date: 6/30/1977 Depth an | Id Flow Rate Well Water Level Drawdown Data |
| Static Water Level (SWL): m | oth: m Drawdown |
| Pump was set at a depth of: Pump rate | e: L/s |
| Duration of pumping test: min | |
| Final Water Level (FWL) at end of pumping test m | |
| If the well is flowing naturally under artesian pressure, the flow rate is: | L/s |
| Groundwater Quality Electrical Conductivity: uS pH: Temperature: | |
| Date Measurements Taken: | |
| Was Bacteria Testing Conducted? Date Sample Taken | Laboratory that conducted analysis: |
| Was Chemical Analysis Conducted? | Laboratory that conducted analysis: |
| Groundwater Type (i.e. salty, rotten egg smell, iron staining): | |
| Turbidity/sand content after development: | |
| Well Disinfection: | |
| Following well construction the well should be disinfected. Above brief | fly describes the method of disinfection. |
| WELL CONTRACTOR The well contractor that drilled and constructed the well. | CONSULTANT Consultants that may have been associated with the |
| Name of Contractor/Drilling Company: Midnight Sun Drilling Company I | Limited Company Name: |
| Name of Driller(s): | Company Address: |
| | Report Reference: |
| | |



WATER WELL DRILLING REPORT

Printed on 2016 Mar 22

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| WELL LOCA | TION | | | | | | |
|-----------------------|--|---------------------|--|-----------------------------|-----------------------------|---|--|
| Well Name: | TH 1-97 | | | | | | |
| | The well name is sim | oly an informal nai | me given to a well upon it's comp | oletion. | | | |
| Address (e.g. | , street, lot): | Selkirk Stree | t, Riverdale | | | Sketch of Well L | ocation |
| Town/Village/ | Hamlet/Area: | WHSE - Wh | itehorse | | Tł and | nis sketch has been pro I should be considered of well locati | ovided by the driller as an approximation on only. |
| | | | 408048 | 6720494 | | | |
| UTW Coordina | ates of well Loc | ation: | 498018 m E | 6730184 m N | | | |
| | | | NAD83 Zone 8 | | | | |
| Accuracy of | Well Location: | | | 3-10 +/- m | | | |
| | | Given the | at the well location may not be a | ccurate, | | | |
| | | error that mig | ht be associated with the actual | well location. | | | |
| The well was | drilled for the fo | llowing purp | Water exploration | test hole | | | |
| Date the well | was completed: | | | | | | |
| The method u | | | | | | | |
| | | | | | | | |
| The following section | DISCRETE A CONTRACT CONTRACTOR CONTRACT | ND BEDRO | CK MAIERIALS recorded by the driller) that were | e encountered when the well | was first drilled. | | |
| Depth (m) | | , (| | | | | |
| From To | General | Colour | Most Common Materia | Il Seconda | ry Materials | Genera | al Description |
| 0 8. | 5 | | SAND fine | | | | |
| 8.5 16. | 1 | | SAND some gravel | | | | |
| 16.1 19. | 8 | | SAND | | | | |
| 19.6 45. | <u>/</u> | | | | | | |
| 43.7 48. | <u> </u> | | | | | | |
| 52.1 58 | 5 | | Bedrock - Basalt | | | | |
| 58.5 59. | 1 | | SAND | | | | |
| 59.1 63. | 1 | | Bedrock - Basalt | | | | |
| While drilling | the well, was pe | ermafrost end | countered? | yes, the depth interv | /al was: from: | m to | m |
| WELL CONS | | about the well co | nstruction dotails | | Monit | or ID: | 2041101741 |
| The following sector | | | | | | For admi | nistrative purposes only |
| In what geolo | gical material (i. | e. sand and g | gravel or bedrock) is th | e water producing z | cone of the well com | ipleted? | |
| The outside d | liameter of the w | ell casing: | 16.83 cm | | - | | |
| The casing m | aterial is made o | out of: | | | - | | |
| The casing w | all thickness is: | | mm | | | | |
| The casing ex | ttends in a deptl | n below grou | nd surface of: | m | | | |
| Other comme | ents that were pr | ovided by the | e driller regarding the c | asing: | | | |
| Surface/Envir | onmental Seal | A surface sea | I provides an impermeable seal ward and into the well water. | between the casing and the | ground in the upper 3 metre | es. This seal helps pre | vent surface water from |
| Seal Material | Туре: | | Diameter of Seal: | m Sea | I Depth from: | m Seal I | Depth to: m |

Well ID: 204110174

| Gravel Pack A gravel pack yield. | is sometimes installed by th | ne driller around the we | Il screen. The purpo | ose of a gravel pack coul | d be to reduc | ce sand | production in the v | vell water or to ir | crease well |
|----------------------------------|---|---|---|---|-------------------------------|----------------------|---------------------------------------|---|-------------------------|
| Is there a gravel pack or | ו the well? | | | | | | | | |
| Gravel pack details (| as provided by the dr | riller): | | | | | | | |
| Well Screen Infromation | | | Scree | ened Interval from | : | 49 | .1 m to: | 51.5 | m |
| The outside diameter of | the screen is: | mm | Sci | reen 1 Length: | 2.4 | 1 m | Slot Size 1: | 100 | thou. inch |
| The screen is made of: | Steel | | Sci | reen 2 Length: | | m | Slot Size 2: | | thou. inch |
| The type of screen is: | Wire wrapped or cor | ntinuous slot | Sci | reen 3 Length: | | m | Slot Size 3: | | thou. inch |
| | There are many types of | well screens on the ma | rket. | Other useful co | omments | abou | It the screen: | | |
| | Wells with no screens or v called "OPEN HOLE". | wells constructed in bed | drock are | 100 slot S | S | | | | |
| WELL DEVELOPMEN | T AND STATUS | Following well construct vater quality, the well st nformation about Well I | tion, the well is deve tatus is determined (Development and St | loped or clean-out until c i.e. the well is put into pr atus. | lear groundw oduction or t | vater is he well | produced. Depend is abandoned). Th | ling on the well y e following secti | ield and on provides |
| The well was developed | by: Air surging | | | | | | | | |
| Once the well was const | tructed the followin | g completion or | "tie in" was co | onstructed: | | | | | |
| The height of the well ca | asing above ground | surface constru | ction (i.e. Wel | Stick-up) is: | | | m | AGS | |
| The static water level (i.e | e. non pumping con | dition) below to | p of casing is: | | <u></u> | m | | | |
| The estimated yield or p | roduction rate of th | e well is: | | L/s | | | | | |
| After constructing and d | leveloping the well, | the Well Status | was: Not | t in use | | | | | |
| If the well was abandon | ed, was the well pro | operly filled (i.e. | sealed) with b | entonite grout? | |] | If YES, date | ə: | |
| Method used to estimate | e the well yield: | | | | | | | | |
| Pumping Test Information | on 1997- | 10-31 10-31 | ecommended F | Pump Rate | following sec | tion pro | Well Water Drawdow | on if such asses • Level n Data | sment was |
| Static Water Level (SWL): | : | m Pu | Imp depth: | | m | | Drawdov | vn | |
| Pump was set at a depth | of: | m Pu | imp rate: | | L/s | | | | |
| Duration of pumping test: | | min | | | | | | | |
| Final Water Level (FWL) a | at end of pumping tes | st | m | | | | | | |
| If the well is flowing natura | ally under artesian pr | essure, the flow r | ate is: | L/s | | | | | |
| Groundwater Quality | uS pH: | Temperati | ure: C | | | | | | |
| Date Measurements Take | n: | | | | | | | | |
| Was Bacteria Testing Cor | nducted? Date | Sample Taken | | Laboratory that co | onducted | analy | sis: | | |
| Was Chemical Analysis C | onducted? Date | Sample Taken | | Laboratory that co | onducted | analy | sis: | | |
| Groundwater Type (i.e. sa | alty, rotten egg smell, | iron staining): | | | | | | | |
| Turbidity/sand content after | er development: | | | | | | | | |
| Well Disinfection: | | | | | | | | | |
| Following | well construction the well s | hould be disinfected. A | Above briefly describ | es the method of disinfe | ction. | | | | |
| WELL CONTRACTOR | The well contractor that d | rilled and constructed th | he well. | CONSULTAN | T Consultar drilling/we | nts that Il const | may have been ass ruction. | sociated with the | |
| Name of Contractor/Drill | ling Company: | Midnight Sun Drilling | Company Limited | Company Nam | e: | | | | |
| Name of Driller(s): | | | | Company Addr | ress: | | | | |
| _ | | | | Report Referer | nce: | Gartner | Lee Limited | | |



WATER WELL DRILLING REPORT

Printed on 2016 Mar 22

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| WELL LOCA | ATION | | | | | | | |
|---------------------|-------------------------|---|--|---|----------------------|------------------------|-----------------------------|--|
| Well Name: | Observation We | ell | | | | | | |
| | The well name is sim | ply an informal nan | ne given to a well upon it's | completion. | | | | |
| Address (e.g. | , street, lot): | Near Lot 6, B | lock 22, Watson Lal | ke Wye | | | Sketch | of Well Location |
| Town/Village | /Hamlet/Area: | WTSN - Wat | son Lake | | | | This sketch and should b | has been provided by the driller e considered as an approximation of well location only. |
| UTM Coordin | ates of Well Loc | ation: | 516856 m E | 66 | ⁵⁸⁹⁵³ m N | | | |
| | | I | NAD83 Zone 9 | I | | | | |
| Accuracy of | Well Location: | | | 30-100 | +/- m | | | |
| | | Given tha the above a error that migh | nt the well location may not ccuracy value represents t t be associated with the a | be accurate, he approximate ctual well locati | e ion. | | | |
| The well was | drilled for the fo | ollowing purp | Level/head - | Observation w | ell | | | |
| Date the well | was completed: | : | | | | | | |
| The method u | used to drill the | well: | | | | | | |
| LOG OF OV | | | CK MATERIALS | wore oncount | No geolo | | on was provi | ded for this record |
| Depth (m) | | gical materials (as | ecolded by the diller) that | | ered when the w | en was hist dimed. | | |
| From To | General | Colour | Most Common Ma | terial | Seco | ndary Materials | | General Description |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| While drilling | the well, was p | ermafrost enc | ountered? | If ves. the | e depth inte | rval was: fro | m: | m to m |
| | | | | j - j , | | | | |
| The following secti | on provides information | n about the well cor | struction details. | | | | Monitor ID: | 2010200031 |
| In what geolo | ogical material (i | .e. sand and g | ravel or bedrock) i | s the wate | r producing | zone of the we | II completed | ? |
| | | | | | | | | |
| The outside of | liameter of the w | vell casing: | 11.4 cm | | | | | |
| The casing m | aterial is made | out of: | | | | _ | | |
| The casing w | all thickness is: | | mm | | | | | |
| The casing ex | xtends in a dept | h below grour | nd surface of: | | m | | | |
| Other comme | ents that were pr | ovided by the | driller regarding t | he casing: | | | | |
| Surface/Envir | ronmental Seal | A surface seal leaking downw | provides an impermeable vard and into the well water | seal between t r. | he casing and th | ne ground in the upper | 3 metres. This s | eal helps prevent surface water from |
| Seal Material | Туре: | | Diameter of Se | eal: | m Se | eal Depth from: | m | Seal Depth to: m |

Well ID: 201020003

| Gravel Pack | A gravel pack is sometimes installed by the driller around the well screen. yield. | The purpose of a gravel pack could be to reduce sand production in the well water or to increase well |
|-----------------|---|---|
| Is there a grav | vel pack on the well? | |

| Is there a gravel pack on the well? | | | | | | |
|--|---|---|---|---|--|---|
| Gravel pack details (as provided by the | driller): | | | 7 | | |
| Well Screen Infromation | | Sc | reened Interval from: | 7.300000 | m to: 12. | 20000 m |
| The outside diameter of the screen is: | mm | | Screen 1 Length: | 4.9 m | Slot Size 1: | thou. inch |
| The screen is made of: | | | Screen 2 Length: | m | Slot Size 2: | thou. inch |
| The type of screen is: | | | Other useful com | monte about | 510t 512e 3: | thou. Inch |
| There are many types o Wells with no screens o called "OPEN HOLE". | f well screens on the m r wells constructed in b | arket. edrock are | | inents about | the Scieen. | |
| WELL DEVELOPMENT AND STATUS | Following well constru- water quality, the well information about Wel | ction, the well is d status is determin Il Development an | eveloped or clean-out until clear ed (i.e. the well is put into produ d Status. | groundwater is pro | oduced. Depending on t abandoned). The follow | he well yield and ing section provides |
| The well was developed by: | | | | | | |
| Once the well was constructed the following | ng completion o | r "tie in" was | constructed: | | | |
| The height of the well casing above groun | d surface constr | uction (i.e. V | /ell Stick-up) is: | | m AGS | |
| The static water level (i.e. non pumping co | ondition) below to | op of casing | is: | m | | |
| The estimated yield or production rate of t | he well is: | | L/s | | | |
| After constructing and developing the well | I, the Well Status | s was: | New, in use for intended | purpose | | |
| If the well was abandoned, was the well p | roperly filled (i.e | . sealed) with | h bentonite grout? | | If YES, date: | |
| Method used to estimate the well yield: | | | | | | |
| PUMPING TEST RECORD AND GROU | NDWATER QU | | ving well construction, the well m | ay have been asse | essed for quality and/or t | ested to determine |
| Pumping Test Information | R | done. done. | d Pump | wing section provid | | • |
| Pumping Test Start Date: 1963 | B-01-01 D | epth and Flo | w Rate | | Well Water Leve Drawdown Data | l a |
| Static Water Level (SWL): | m | ump depth: | n | ו | Drawdown | _ |
| Pump was set at a depth of: | Р Р | ump rate: | L | /s | Time (min) Level (m | |
| Duration of pumping test: | min | | | | | |
| Final Water Level (FWL) at end of pumping te | est | m | | _ | | |
| If the well is flowing naturally under artesian | pressure, the flow | rate is: | L/s | F | | |
| G1 Groundwater Quality | | | | | | |
| Electrical Conductivity: 560 uS pH: | 7.3 Tempera | ture: 5.15 | c | | | |
| Date Measurements Taken: 20 | 02-12-12 | | <u>_</u> | | | |
| Was Bacteria Testing Conducted? Dat | e Sample Taken | | Laboratory that cond | ducted analysi | 3: | |
| Was Chemical Analysis Conducted? | e Sample Taken | | Laboratory that cond | ducted analysi | s: | |
| Groundwater Type (i.e. salty, rotten egg smel | l, iron staining): | | | | I | |
| Turbidity/sand content after development: | | | | | | |
| Well Disinfection: | | | | | | |
| Following well construction the well | should be disinfected. | Above briefly des | cribes the method of disinfectio | n | | |
| WELL CONTRACTOR The well contractor that | drilled and constructed | the well. | CONSULTANT | Consultants that ma drilling/well construe | ay have been associated | with the |
| Name of Contractor/Drilling Company: | Other | | Company Name: | | ···· · | |
| Name of Driller(s): | | | Company Addres | s: | | |
| | | | Report Reference | : | | |



WATER WELL DRILLING REPORT

Printed on 2011 Jun 24

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| WELL LOC | ATION | | | | | | | | | |
|----------------------------------|-------------------------|--|--|---------------------------------------|---|------------------------|----------------|------------------------------------|---|-------------------------|
| Well Name: | BH 77-4 | | | | | | | | | |
| | The well name is simp | oly an informal nar | ne given to a well upon it's comp | letion. | | | | | | |
| Address (e.g. | , street, lot): | | | | | | SI | etch of | Well Location | |
| Town/Village | /Hamlet/Area: | WHSE - Wh | itehorse | | | | This and sł | sketch has nould be cor of w | been provided by the nsidered as an apprell location only. | ne driller oximation |
| UTM Coordin | ates of Well Loc | ation: | 499701 m E | 671 | ⁹⁰⁷¹ m N | | | | | |
| | | I | NAD83 Zone | | | | | | | |
| Accuracy of | Well Location: | | 30- | -100 | +/- m | | | | | |
| | | Given the the above a error that mig | at the well location may not be ac accuracy value represents the ap ht be associated with the actual v | ccurate, proximate well locatio | ; ;;;;;;;;;;;;;;;;;;;;;;;;;;;;;; | | | | | |
| The well was | drilled for the fo | llowing purp | ose: Water exploration | test hole | | | | | | |
| Date the well | was completed: | | | | | | | | | |
| The method u | used to drill the v | vell: | | | | | | | | |
| LOG OF OV The following secti | ERBURDEN AI | ND BEDRO | CK MATERIALS recorded by the driller) that were | encounte | red when the w | ell was first drilled. | | | | |
| Depth (m) | General (| Colour | Most Common Materia | 1 | Secon | dary Materials | | | General Descrip | otion |
| 0 2 | .4 | | Silty sand and GRAVE | L | | , | | | | |
| 2.4 | 4 | | TILL, v. silty | | | | | | | |
| 4 6 | .7 | | BASALT, hard (boulder | r?) | | | | | | |
| 6.7 11 | .9 | | TILL, sandy fine, silt | | | | | | | |
| 11.9 29 | .6 | | BASALT, fine, hard | | | | | | | |
| 29.6 33 | .5 | | BASALT, rusty silt in fra | act | | | | | | |
| | | | | | | | | | | |
| While drilling | the well, was pe | ermafrost end | countered? | yes, the | e depth inte | rval was: fro | om: | m | n to | m |
| WELL CON | STRUCTION | | | | | | Monitor | ID: | | 2041401241 |
| I he following secti | on provides information | about the well cor | nstruction details. | | | | | F | For administrative pu | irposes only |
| In what geolo | ogical material (i. | e. sand and g | gravel or bedrock) is the | e water | producing | zone of the we | ell comp | leted? | | |
| The outside of | liameter of the w | ell casing: | 15.25 cm | | | | | | | |
| The casing m | aterial is made o | out of: | | | | | | | | |
| The casing w | all thickness is: | | mm | | | | | | | |
| The casing e | xtends in a depth | below grou | nd surface of: | | m | | | | | |
| Other comme | ents that were pr | ovided by the | e driller regarding the c | asing: | | | | | | |
| Surface/Envi | ronmental Seal | A surface sea leaking down | I provides an impermeable seal b vard and into the well water. | between th | ne casing and th | ne ground in the uppe | r 3 metres. | This seal h | elps prevent surface | e water from |
| Seal Material | Туре: | | Diameter of Seal: | | m Se | eal Depth from: | | m | Seal Depth to | : m |

Well ID: 204110124

| Gravel Pack A gravel pack i vield. | s sometimes installed by | the driller around the w | ell screen. The put | pose of a gravel pack could | I be to reduce sar | nd production in the | well water or to | increase well |
|---|----------------------------|---|---|---|--|--|--------------------------------------|----------------------------|
| Is there a gravel pack on | the well? | | | | | | | |
| Gravel pack details (a | as provided by the o | driller): | | | | | | |
| Well Screen Infromation | | | Scr | eened Interval from: | | 4 m to | : 33. | 5 m |
| The outside diameter of t | the screen is: | mm | S | creen 1 Length: | 29.5 m | Slot Size 1: | | thou. inch |
| The screen is made of: | | | S | creen 2 Length: | m | Slot Size 2: | | thou. inch |
| The type of screen is: | Open Hole | | S | creen 3 Length: | m | Slot Size 3: | | thou. inch |
| | There are many types o | f well screens on the m | arket. | Other useful co | mments abo | out the screen: | | |
| | called "OPEN HOLE". | r weils constructed in d | edrock are | Open Hole | | | | |
| WELL DEVELOPMEN | T AND STATUS | Following well constru- water quality, the well information about Wel | ction, the well is dev status is determined I Development and | veloped or clean-out until cle d (i.e. the well is put into pro Status. | ear groundwater is oduction or the we | s produced. Depend Il is abandoned). Th | ding on the well he following sec | yield and tion provides |
| The well was developed | by: Air surging | | | | | | | |
| Once the well was const | ructed the followi | ng completion o | r "tie in" was | constructed: | | | | |
| The height of the well ca | sing above groun | d surface constr | uction (i.e. We | ell Stick-up) is: | | n | n AGS | |
| The static water level (i.e | . non pumping co | ndition) below to | op of casing is | s: | m | 1 | | |
| The estimated yield or pr | oduction rate of t | he well is: | | 0.75 L/s | | | | |
| After constructing and de | eveloping the well | l, the Well Status | was: N | ot in use | | | | |
| If the well was abandone | ed, was the well p | roperly filled (i.e | . sealed) with | bentonite grout? | | If YES, dat | e: | |
| Method used to estimate | the well yield: | | | | | | | |
| Pumping Test Informatio Pumping Test Start Date: | on 6/3 | 0/1977 | ecommended epth and Flov | Pump v Rate | m | Well Wate Drawdow | r Level vn Data | |
| Static Water Level (SWL): | | m P | ump deptn: | | m | Drawdov Time (min) L | wn .evel (m | |
| Pump was set at a depth o | of: | P | ump rate: | | L/s | | | |
| Duration of pumping test: | | min | | | | | | |
| Final Water Level (FWL) a | t end of pumping te | est | m | | | | | |
| If the well is flowing natura | lly under artesian p | pressure, the flow | rate is: | L/s | | | | |
| Groundwater Quality | uS pH: | Tempera | ture: | с | | | | |
| Date Measurements Taker | n: | | | | | | | |
| Was Bacteria Testing Con | ducted? 🔲 Dat | e Sample Taken | | Laboratory that co | nducted anal | ysis: | | |
| Was Chemical Analysis Co | onducted? | e Sample Taken | | Laboratory that co | nducted anal | ysis: | | |
| Groundwater Type (i.e. sal | lty, rotten egg smel | l, iron staining): | | | | | | |
| Turbidity/sand content afte | er development: | | | | | | | |
| Well Disinfection: | | | | | | | | |
| Following | well construction the well | should be disinfected. | Above briefly desc | ribes the method of disinfec | tion. | | | |
| WELL CONTRACTOR | The well contractor that | drilled and constructed | the well. | CONSULTAN | Consultants that drilling/well con | t may have been as struction. | sociated with th | e |
| Name of Contractor/Drilli | ing Company: | Midnight Sun Drilling | g Company Limited | Company Name | e : | | | |
| Name of Driller(s): | | | | Company Addre | ess: | | | |
| | | | | Report Referen | ce: | | | |

| The Ber: Plaze ca Earth | Ministry of Environment | Well Closure Rep Well Alteration R | eport a | เป็นที่จะ ดอกไม่จะการ ชื่ออา าร์ตายกละเรียกเลยี nere | esacuressi U destino, | Ministry We Ministry We Confirma | and Phate Number. | s. attached Int attached | |
|---|--|---|--|--|--|--|--|---|--|
| Red lettering | indicates minim | um mandatory informatio | on. See reverse l | lor notes & definiti | ions of abbre | viations. | | STREET, BEAL | |
| Mailing addres | \$5: | | Tov | n | | Prov. | Postal Code | | |
| () Legal desc () PID: | (see note 2): Add cription: Lot | Plan Plan Oescription of well | Street name D.L. location (atlach | Block sketch, if nec.); | Sec. | Twp. | Rg. Land O | istrict | |
| NAD 83. Zone | 68 | UTM Easting | 39.862 | 8. m @ | Lalitude (| see note 4): | Par and | | |
| (see note 3) Method of dril | ling: 10 as rotary | UTM Northing: | tool I mud rota | ny, ⊡auger ⊡dr | tving jettir | e: ng ⊡other | specify): | | |
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General

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- Requirements for well construction and well closure reports are found in Part 5 of the Water Act and the Ground Water Protection Regulation. Part 5 of the act and regulation are available at: http://www.env.gov.bc.ca/wsd/plan_protect_ sustain/groundwater/index.html#leg.
- A minimum of one of the well location descriptors must be completed (e.g. Address OR Legal OR PID) plus the description of the well location.
- The current Ministry standard datum for mapping and geodetic use is the North American Datum of 1983 (NAD 83). To determine GPS coordinates using a Global Positioning System (GPS), set the datum to NAD 83.
- 4 For latitude and longitude coordinates, provide coordinates either in degree, minutes and seconds (e.g., 50' 2' 21.037") or decimal degrees (e.g., 50.039175').
- For the method of determining ground elevation, enter: GPS, differential GPS, level, altimeter, 1:50,000 map, 1:20,000 map, 1:10,000 map or 1:5,000 map.
- 6. The classes and sub-classes of wells are shown below:

| | Class | Sub-class (if applicable) |
|---|------------------------|---------------------------|
| 4 | Water supply | Domestic; Non-domestic |
| | Monitoring | Temporary; Permanent |
| | Recharge or injection | |
| | Dewatering or drainage | Temporary: Permanent |
| | Remediation | Temporary; Permanent |
| | Geotechnical | Borehole; Test pit; |
| | and the second | Special type of hole; |
| | 建筑 计可有利 致于能 | Closed loop geothermal |

 Well reports submitted to the Deputy Comptroller, or retained by the person responsible, as required under the Water Act and the Ground Water Protection Regulation, shall be considered part of the Provincial Government records and is subject to the Freedom of Information and Protection of Privacy Act.

How to Fill Out the Lithologic Description Table

- Each row in the lithologic description table represents either a depth interval or depth in the well.
- A row could represent a depth interval (e.g., from 0 feet to 12 feet), such as for a geologic stratum or a specific depth (e.g., 120 feet), such as for a depth location of a water-bearing fracture.
- For each depth interval, indicate with a check mark (√) or X the hardness, colour, and type of surficial material or bedrock material. Only make one selection for each class.

The classification system for surficial material, bedrock material, colour and hardness has been adopted with permission from *The Gulde for Using the Hydrogeologic Classification System for Logging Water Well Boreholes* (Thomas M. Hanna, RPG, 2006).

- "Crystalline" bedrock material includes granitic rocks, such as granodiorite, or metamorphic rocks, such as gneiss or schist
- 12. For a depth interval, if the type of surficial material or bedrock material is not listed in the table indicate with a check mark (√) or X and specify the geologic material encountered in the Observation field.
- 13. If a water-bearing fracture is encountered, the depth of the fracture the estimated flow of water in the tracture should be recorded in the Observations column.

How to Fill Out the Closure Description Table and the Well Closure Information Section

- Each row in the closure description table represents either a depth interval (e.g., from 0 feet to 12 feet) or depth (e.g., 120 feet) in the well
- For a depth interval, enter the type of backfill or sealant material(s) in the Observations column.
- 16. Indicate in "Details of closure" whether casing(s) or screen(s) were pulled or left in place. If casing(s) were left in place, indicate whether it was perforated or ripped.

Casing Details

17 "Casing Material / Open hole" includes cement, plastic, steel, other, open hole, or casing pulled

If a surface seal is required, details of the casing used to create the annular space for the surface seal can be entered in the first row of the table. Enter the depth interval, casing diameter, and record "casing pulled" under "Casing Material / Open hole".

Screen Details

 "Type" includes riser pipe, K-packer, screen, screen blank, or tail pipe.

Well Driller

19. Fill in the name of the driller who constructed the well.

Registration Number of Driller Responsible

20. Fill In the registration number on the Qualified Well Driller identification card. If the work was completed by a driller who is not registered as a Qualified Well Driller, the Qualified Well Driller who is directly supervising the work should fill in their registration number on their Qualified Well Driller identification card. The Qualified Well Driller signs the form.

Definitions of Abbreviations

| asl | above sea level |
|------------------------|---|
| bgl | below ground level |
| otoc | ., below top of casing |
| Dia | Diameter |
| D.L | District Lot |
| t | . feet |
| n/s | hours |
| n | inches |
| NAD 83 | North American Datum (1983) |
| PID | . Parcel Identifier |
| 7g | Range |
| Sec | Section |
| SWL | static water level |
| ſwp | Township |
| JSgpm | US gallons per minute |
| JTM | . Universal Transverse Mercator Grid |
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Return Completed Forms to: Ground Water Data Technician Water Stewardship Division, Ministry of Environment PO Box 9362 SIn Prov Govt Victoria BC V8W 9M2



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SIGNATURES

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| · · · · · | 105 D 14 |
|-----------|---|
| | Well Record Page 1 of 2 WATER WELL |
| , | Government Department of Environment Well ID: 204/40284 DRILLERS FORM |
| | Water Kesources Section V310 Yukon Water Well Registry Box 2703 Whitehorse, Yukon Y1A 2C6 To be assigned by Dept. Of Environment Metric O Imperial |
| | INSTRUCTIONS FOR COMPLETING THE FORM 4. Please print clearly in blue or black ink. 1. Additional information is provided at the bottom of this form on page 2. 6. Completion and submission of this form is the responsibility of the drilling contractor. 3. All well construction measurements shall be reported to 0.1 m or 0.3 ft. 6. Please specify metric or imperial units for all measurements. |
| | WELL LOCATION AND OWNER'S INFORMATION A1 Well Name: () Y 1 70/1 Voll, Optional (i.e. City Well No. 2) |
| | A2 Drilled For: |
| | A3 Street Address of Well Location: CIRIZZLY WALLEY Sketch of Well Location |
| .н. х. | A4 Town / Village / Area / Lot #: |
| | A5 UTM Coordinates (using handheld GPS): NAD 8 3 Zone |
| | 0487803 6768194 |
| | A6 Elevation of Top of Casing: 741 m m th ASL |
| | A7 Accuracy of GPS: IO m +/m/ ft |
| | A8 Purpose of Wells |
| 4 | Commercial Municipal Observation - Water Level Other (please identify use) Industrial Agricultural Public/Recreational |
| | LOG OF OVERBURDEN AND BEDROCK MATERIALS (All depths are below ground surface, circle appropriate units, use descriptors provided) |
| | EXAMPLE (brown, grey, green, black, redish, beige, offwe, yetlowish) CLAY, SILT, SAND, GRAVEL, COBBLES, BOULDERS, BEDROCK "some" 10-20% (i.e. SILT (race gravel) ************************************ |
| | Depth (m (n)) B5 Meet Common Methods B5 Meet |
| | B3 From B3 To B7 General Description B5 Secondary Materials B7 General Description |
| | 16 30 GREY TILL MGD. |
| | 30 41 GREY BRKN, GOL MSD. |
| | 41 333 GY WHT BEDROCE MED. HATED. |
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| | bo Fermanost Encountered: INNO LIYES If yes, indicated depth (m/ft): from: to: |
| * | WELL CONSTRUCTION (Continues on Page 2) Date Well Completed 2012 08 31 Example: 2005 01 31 |
| | C1 Drilling Method Air Rotary (Conventional) Dug Other (please specify) C2 Well Type: In what geological material is the |
| | Reverse Air Rotary Cable Tool OVERBURDEN OVERBURDEN OVERBURDEN OVERBURDEN |
| | Casing (depth below ground surface, please circle aportoriate united |
| | C3 Outside C4 Casipg Material C5 Casing Wall Thickness C6 Casing Depth to: |
| 2 | |
| | Cther |
| | YG(5302)F2 Rev. 09/2006 Print Form |

| | WELL CONSTRUCTION (Continued from Page 1) | ** | Well Record Page 2 of 2 |
|------------|---|---|--|
| | Surface / Environmental Seal (depth below ground surface, please (| inte annrondata unite) | |
| | C8 Seal Material Type: C9 Diameter of Seal: C10 Se 200 C32007 (cm / in) | al Depth from: (m m) [1] (m m) [1] (m(ft)] | C12 Volume Placed: (m²/t²) |
| | Gravel Pack (depth beign ground surface, please circle appropriate units) | | |
| | C13 Gravel Pack: NO If yes, indicated depth (m / ft): YES Irom: to: If Indicate c | ameter of material: (mm/inches) Materia (i.e. si | I type: |
| | Well Screen Information (depth below ground surface, please circle ap | propriate units) C17 Depth from: C18 Depth to: | Slot Size / Perforation Dia: |
| | C14 Outside C15 Screen Material C16 Screen Type Diameter Cmm Steel C16 Screen Type Cmm Charles Steel C16 Screen Type Continuous Wire Diameter Charles Steel C16 Screen Type Continuous Wire Charles Steel C16 Screen Type Continuous Wire Diameter C16 Screen Type Continuous Wire C16 Screen Type Continuous Wire Diameter C16 Screen Type Continuous Wire C16 Screen Type Continuous Street Continuous Screen C16 Screen Type Continuous Street Continuous Street C16 Screen Type Continuous Street Continuous Street C16 Screen Type Continuous Street Continuous Street C16 Screen Type Continuous Street Continuous Street C16 Screen Type Continuous Street C16 Screen Type Continuous Street C16 Screen Type Continuous Street C16 Screen Type Continuous Street C16 Screen Type C16 Screen Type Continuous Street C16 Screen Type C16 Screen Type | Screen 1. [35] (m(f) [355] Vrap Screen 2. [m/th] [Screen 3. [m/th] [C19 Screen Comments: [1] THREAD | (m(f) 2010 Thou./mm/inches (m/ft) Thou./mm/inches (m/ft) Thou./mm/inches 939 CAP BOZ TOM |
| | WELL DEVELOPMENT AND STATUS | | |
| | D1 Well Developed by Surge Block Water Jetting D2 Well Head Completion Well House Water Jetting D3 Well D4 Well House D3 Well Pitless Adaptor Dopth of adaptor: (m/t) Well House D4 Well House D4 Well House D5 Well House D4 Well House D5 Well House D4 Well House D6 Matrix D4 Well House D6 Matrix D4 Well House D6 Matrix D6 Matrix D6 Matrix D6 Matrix D6 Matrix D6 Matrix D6 Matrix D7 Well House D6 Matrix D6 Matrix D6 Matrix D7 Well House D6 Matrix D6 Matrix D7 D6 Matrix D7 D6 Matrix D6 Matrix D6 Matrix D7 D6 Matrix D6 Matrix D7 D6 Matrix | Head Stick-up D4 Static Water Level (ground surface) a nogative if below grade) D7 Wolf Abandonment Status Was the well property decommission | D5 Well Yield Estimate |
| | Water Supply (in use) X Not in use | with bentonite grout? | Bailing |
| | Stand by (Back-up) Deepened Wwill was abandoned, please plus reason: | Poor Queity If YES, Indicate Date: Insufficient Yield Artisten conditions Y Y Y M M D | (it test conducted, complete (it test conducted, complete Pumping Test Record) D |
| | PUMPING TEST RECORD AND GROUNDWATER QUAL | F1 Well Water Level Drawd | |
| | (All depths below ground, circle appropriate units) E1 Pumping Test Information | Drawdown | Recovery |
| | Pumping Test Start Date: RECOMMENDATIONS | (min) (m/t) | (min) (@4t) |
| | 2012 0104 Recomm. Pump Depth: | 0 (SWL) 10.80 0 | (FWL) 54.30 |
| | | 1 1/2.23 | 1 |
| | Recomm. Pumping Rate: | (anm) <u>2 20 28</u> | 3 |
| | Pump Intake Set at: | 4 23 2 | 4 |
| | 294 (m/(t)) Il flowing, provide rate: | 5 74 79 | 5 |
| | Duration of pumping: | (gpm) 10 27.15 | 10 |
| r ! | HT his DYDin STEP TEST | 15 28, 40 | 15 |
| r is | Final Water Level (FWL) | 20 29.23 | 20 |
| | at end of Pumping lest: (m/ft) | 25 29.67 | 25 |
| | | 30 29.89 | 30 |
| | Field Data Turbidity/Sand Content | 40 30,18 | 50 |
| | Date Measurements Taken: | 60 20 40 | <u>60</u> |
| | 2012/04/10 DSlightly turbid/cloudy | Bacteria Testing | |
| | Y Y Y Y/M M/D D Moderately turbid/cloud | Was a sample taken? TYES | NO If yes, indicate the |
| | Electrical Conductivity: 2823 us | Date Sample Taken: | name of the laboratory. |
| | pH: 7.80 Trace sand present | 2012 109 10 | 6 Env. Health |
| | Temperature: 300 *C LI No sand present | Chemical Analysis of Water, | 6 |
| | Groundwater Type Well Disinfection | Was a sample taken? BYES | NO If yes, indicate the |
| | Subbury (Fag Odour of the pump installation? | Date Sample Taken: | name of the laboratory. |
| | | S INO 2012/09/04 | S LEXOVA |
| | Metallic Taste | tisintection. | |
| | Other: | Clear Form Pri | nt Form |
| | WELL CONTRACTOR | CONSULTANT (If applicable) | |
| | H1 Name of Contractor / Drilling Company: DBCE / VRIC | LING II Company Name: | ZAENGINEERING |
| | H2 Name of Driller(s): 105 STAULCE | 1 2 Company Address: | |
| | H3 Address of other: DHD-+B2ACH ST | VEFRICZI 3 Report Reference: | |
| | 1 The Ko | I 4 Report Date: | |
| | Signature of Primary Driller Y Y Y Y Date Submitted to De | A M D D Y Y | YYMMDD |
| | ADDITIONAL INSTRUCTIONS Upon completing this form, please mail or fax it to: Department of Environment, Government of Yukon Box 2703, | Personal Information contained on this form is collected und Information and Protection of Privacy (ATIPP) Act, Section 2 public database of well and ground water information. Fer Manager of Hydrology, Water Resources at (667) 667-3223. | er the authority of the Access to 9 (c) and will be used to compile a urther information contact the toli free within Yukon |
| , | Whilehorse, Yukon, Canada Y1A 2C6 Please feel free to contact us at: Phone: (867) 687-3171 Tel leng (in Million) (in contact us at: | 1-800-661-0408 Ext 3223. I have road the above clause and | |
| | riulia: (807) 667-3195 E-mail: Water,Resources@govyk.ca | understand the purpose for collection of personal information. Signa | ture of Well Owner |

| · • ` a | | | | | | | | | | | | |
|---------|---|--|--|--|--|--|--|--|--|--|--|--|
| | Well Record Page 1 of 2 WATER WELL Department of Environment Well ID: DOD 14 03 0 8 DRILLERS FORM | | | | | | | | | | | |
| | Valer Resources Section V310 Yukon Water Well Registry To be assigned by Dept. Of Environment Metric O Imperial O | | | | | | | | | | | |
| | INSTRUCTIONS FOR COMPLETING THE FORM 4. Please print clearly in blue or black ink. 1. Additional information is provided at the bottom of this form on page 2. 5. Completion and submission of this form is the responsibility of the drilling contractor. 3. All well construction measurements shall be reported to 0.1 m or 0.3 ft. 6. Please specify metric or imperial units for all measurements | | | | | | | | | | | |
| | WELL LOCATION AND OWNER'S INFORMATION A1 Well Name: Deen Week. Optional (i.e. City Well No. 2) | | | | | | | | | | | |
| | First Name Last Name Company / Department / Organization | | | | | | | | | | | |
| | A2 Drilled For: TOM REN WICE YTG | | | | | | | | | | | |
| | A3 Street Address of Well Location: Deep Creek. Sketch of Well Location In sketch, indicate distances from property line, | | | | | | | | | | | |
| | A4 Town / Village / Area / Lot #: | | | | | | | | | | | |
| | A5 UTM Coordinates (using handheld GPS): NAD 8 3 Zone | | | | | | | | | | | |
| | 6770798 Easting Northing | | | | | | | | | | | |
| | A6 Elevation of Top of Casing: 666 | | | | | | | | | | | |
| | A7 Accuracy of GPS: +/(m) ft | | | | | | | | | | | |
| | A8 Purpose of Wells | | | | | | | | | | | |
| | | | | | | | | | | | | |
| - | EXAMPLE (brown, groy, green, black, rodsh, beige, ofwa, yelkowish) COBLES, BOULDERS, BEDROCK "story" 10-20% (i.e. SILT frace gravel) *itty / sandy / gravely *20-30% (i.e. siny SAND) MOISTURE; dry / moisi / saluraled (wol) *itty / sandy / gravely *20-30% (i.e. siny SAND) MOISTURE; dry / moisi / saluraled (wol) | | | | | | | | | | | |
| | Doph (m/fi) B4 General Colour B5 Most Common Material B5 Common Material B4 Common Material | | | | | | | | | | | |
| | O IA GRN/BLK FRACTURED BEDROCK HARD/DRY | | | | | | | | | | | |
| | 17 180 WHT/B-K BEDROCK HARD/SATURATED. | | | | | | | | | | | |
| | 255 333 GFZ 7 GED ROCK | | | | | | | | | | | |
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| | B8 Permafrost Encountered: NO YES If yes, indicated depth (m / ft): from: to: | | | | | | | | | | | |
| | WELL CONSTRUCTION (Continues on Page 2) Date Well Doi 205 2.4 Example: Completed Doi 205 2.4 Zour 2005 01 31 | | | | | | | | | | | |
| | C1 Drilling Method Ar Rotary (Conventional) Dug Other (please specify) C2 Well Type: In what goological material is the | | | | | | | | | | | |
| | Reverse Air Rotary Cable Tool OVERBURDEN Backet Coverse Cable Tool OVERBURDEN Backet Coverse Cable Tool Ca | | | | | | | | | | | |
| | Casing (depth below ground surface, please circle appropriate units) | | | | | | | | | | | |
| | C3 Outside Diameter (cm(n)) C4 Casing Material C5 Casing Wall Thickness Diameter (cm(n)) C5 Casing Wall Thickness Pission Other (cm(n)) C5 Casing Wall Thickness Pission Other (cm(n)) C5 Casing Wall Thickness (cm(n)) C5 Casing Wall | | | | | | | | | | | |
| | VQ(3302)F2 Rev. 09/2008 | | | | | | | | | | | |
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| WELL CONSTRUCTION (Continue | ed from Page 1) | Well Record Page 2 of |
|--|--|--|
| Surface / Environmental Seal (| Jepth below ground surface, please circle appropriate | units) |
| C8 Seal Material Type: C9 Di C9 Di C1.8. Bontonile) | ameter of Spal: C10 Seal Depth from | : C11 Seal Depth to: C12 Volume Placed: m/ft) |
| Gravel Pack (depth below ground surfac | e, please circle appropriate units) | |
| C13 Gravel Pack: TNO II yes, ir YES from: | Idicated depth (m / ft): | erial: (mm / inches) Material type; (i.e. silica) |
| Well Screen Information (depth be | elow ground surface, please circle appropriate units) | C17 Depth from; C18 Depth to: Slot Size / Perforation D |
| C14 Outside C15 Screen Materia Diameter (cm / in) Stainless Si Steel GM Issice N/A | al C16 Screen Type Screen leel Continuous Wire Wrap Conver Screen Screen Screen Slotted C19 Scr Open Hole Co | $\begin{array}{c c} \hline \\ \hline $ |
| WELL DEVELOPMENT AND ST D1 Well Daveloped by D2 Well Hea Surge Block Well I Water Jatting Pitles Air Jetting / Air Lifting Bailing Well Status Other: D0 Final Well Status Water Supply (in use) AND in u | CATUS ad Completion D3 Well Head Stick-U Jouse (above oppoind surface) s Adaptor Depth of adaptor: (if if it)) (it) (NOT PERMITTED) (Use negative if be) (well not completed) (b) SO Hith Standards (well not completed) (b) SO Hith Standards (it) well was Dry (it) well was Dry | D4 Static Water Level D5 Well Yield Estimate (befow top of casing) (User negative if below grade) D7 Well Abandomment Status Was the well property decommissioned with bentonite grout? YES NO If YES, Indicate Date: D5 Well Yield Estimate D1 Well Abandomment Status D3 Method Used to Estimate Well Yield D3 Air Lifting D3 Jing If YES, Indicate Date: |
| Observation | abandonod, pleaso Couliny y give reason: Insufficient Yield Arteslan condition | ns Y Y Y M M D D |
| PUMPING TEST RECORD AND | GROUNDWATER QUALITY | F1 Well Water Level Drawdown/Recovery DATA Drawdown Recovery |
| E1 Pumping Test Information | RECOMMENDATIONS | Time Water Level Time Water Level (min) (m / tt) (min) (m / tt) |
| Pumping Test Start Date: | Recomm. Pump Depth: | 0 (SWL) 4 97 0 (FWL) 32.29 |
| YYYYMMDD | (m/ft) | 1 18.03 1 28.31 |
| Static Water Level (SWL): | Recomm. Pumping Rate: | 3 10.93 3 25.25 |
| Pump Intake Set at: | If flowing, provide rate: | 4 11.90 4 24.59 |
| 244 (m (t)) | (Lps / gpm) | 5 12.65 5 24.10 |
| Duration of pumping: | ST | 16 14 57 16 22.06 |
| Final Water Level (FWL) | | 20 17 79 20 21.05 |
| at end of Pumping Test: | | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ |
| | | $\frac{30}{19.86}$ $\frac{79.86}{30}$ $\frac{30}{20.83}$ |
| Field Data | Turbidity/Sand Content | 50 21.9 6 50 19.69 |
| Date Measurements Taken: | Delear | 60 22.71 60 19.22 |
| 2012/09/10 | Slightly turbid/cloudy | Bacteria Testing |
| YYYMMDD | Moderately turbid/cloudy | Was a sample taken? LIYES LINO It yes, indicate the name of the laborator |
| Electrical Conductivity: 1078 uS | Trace sand present | 2 p 12 /09/80 Enviranment |
| pH: 16-27- | No sand present | Y Y Y Y M M D D |
| emperature: العلامية U Groundwater Type | Well Disinfection | Chemical Analysis of Water |
| | Was the well disinfected upon completion | Date Sample Taken: If yes, indicate the name of the laborator |
| Sulphur / Egg Odour | of the pump installation? YES NO | 2012 109/00 EXOVA |
| Organic Taste / Odour | Briefly describe method of well disinfection. | YYYYMMDD |
| Metallic Taste | | Clear Form Print Form |
| Other: | | Anternational Constant and Constant and Constant and Constant |
| WELL CONTRACTOR | | CONSULTANT (II applicable) |
| H1 Name of Contractor / Drilling Company | PILLUS DURING | - II Company Name: EISTERACTIVEE |
| H2 Name of Driller(s): | THOUCE | 12 Company Address: |
| HIS Address of Driller: 1240 | T DEALT SI RELAT | I 4 Report Date: |
| Signature of Primary Driller | | |
| | Date Submitted to Dept. Of Enviror | ment |
| Upon completing this form, | Nater Resources Section (V-310), Information / Department of Environment, public datab | ind Protection of Privacy (ATIPP) Act, Section 29 (c) and will be used to complie a use of well and ground water information. For further information contact the |
| please mail or fax it to: | Sovernment of Yukon Box 2703, Manager of Whitehorse, Yukon, Canada Y1A 2C6 1-800-651-0 | Hydrology, Water Hesources at (867) 667-3223, foll free within Yukon 108 Ext 3223, |



FIELD REPORT

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B·ID 101020001

Feb-9/05

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Started. J.e. n.e. 23. 19.8. Completed J.e. n.e. 2.6. 19.8.

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| TITLE | | | | | • | • | • | | • | | • | | | | • | • | • | • | • | | • | | |

CLIENT.....

Fredelana Enterprises Ltd.

WATER WELL DRILLING

P.O. Box 4899 # 10 McPherson Road Whitehorse, Yukon Y1A 4N6

Phone: 633-2121

6570-5

TOP SOIL WELLS LOG GRAVEL Y.T.G. OWNER É ADDRESS Till LOCATION WATSON LAKE CAMPBROUND SAND & GRAVEL. WELL # 2. AUG 17 1982 38 CLAY, SAND 4 GRAVEZ Date Begun AUG 12,1982 .. Completed AUG 14,1987 CLAY GRAVER 50 SINT + CLAY. (COLOR BLACK) CLAY, SILT, SAND Bottom of Casing_____6 3____feet from surface GRAVUZ Stick-up above ground_______feet Water Sources of Water 5 5275 g.p.m. at 62.5 to 66 feet Sources of Water.....feet Sources of Water.....feet Sources of Water g.p.m. at feet Rig No. RECOMMENDED PUMP SET AT 64 FT. RATE GPM



B·1D 101090001 Feb 9/05 Started Na. 2.7.19.29

Completed. 1. Ya. v. 2. 7. 19 ??

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Started . Jan. 19.85

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SIGNATURES

MIDNIGHT SUN.

CLIENT..... TITLE.....

Willow Printers

B.10 101130006

Field Report



PH. 633-3070 TELEX 036-8496 P.O. BOX 4391 WHITEHORSE, YUKON

| NAME A | AND ADD | DRESS | OF CLI | ENT | DESCRIPTION OF WORK | | LOCATION | OF WORK | |
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SIGNATURES

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Field Report

PH. 633-3070 TELEX 036-8496 P.O. BOX 4391 WHITEHORSE, YUKON

| NAME | AND ADI | DRESS (| OF CLI | ENT | DESCRI | PTION OF | WORK | | LOCATION | OF WORK | |
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SIGNATURES

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Willow Printers



YWWR 802030038

Started. Oct. . 18. 19. 7.5 Completed.Oct. . . 18. 19. 7.5

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204080072 PACIFIC HYDROLOGY N 01/01; 08/23/2004 10:06 7306931 YUKON PARKS 08/25/03 MON 13:55/FAX /3936223 1002 TUNE #4, 1987 TAGISH LAKE CAMPGROND, WATER WELL LOG. 1.38 CLAY. 0-150' CLAY WITH TILL LAYERS 138-CLAY, SILT LAYERS, & THIN LAYERS OF TILL GRADEL, SAND, SOME SILT & CLAY MODELS 100-340 340 -345 DEPTH - 345' 18 SLOT EXPOSED 31/2 BCREEN -STATIC WATER LEVEL - PLUS WELL IS FLOWING @ 4.6. P.M. (US?) WELDED CAP + I" NIPPLE TO TAKE CARE OF FLOW. PPIZ NIPPLE FAX [] DATE: Alloy 23.04 AND INSTALL GATE UALUE FOR SUMMER CONTROL. PRODUCTION DEPARTMENTS LTD.







PH. 633-3070 TELEX 036-8496 P.O. BOX 4391 WHITEHORSE, YUKON

| NAME A | AND AD | DRESS | OF CLI | ENT | DESCRIPTION OF WORK | | LOCATION | OF WORK | |
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SIGNATURES

CLIENT...... TITLE.....



TITLE.....

YUNA 107020001

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| 33 | BC-" | silta G | <u>ک</u> | | | | | | | |
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| 7 | | | ent | 1 | | | | | | |
| | | | <u> </u> | ng | evern. | | | 10:50 | 11:00 | 05 |
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| | | | 7001 | 0,05 | <u> </u> | | | 1:00 | 1:30 | r S |
| | | | | ave/ | + ~ 9 | | i1 | 1:30 | 6:00 | 4.5 |
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| Pand | | ing & Di | | | | | | | | |
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| | | | STATIC | | | | Total Rig | Time / | 7.5 | hrs. |
| | | | | casing | 0 = 1 | | Iotal Sta | ndby | | hrs. |
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| | uni 501 | N | • • • • • • • • • | ••••• | | CLI | ENT | | | ••••• |
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Environment Yukon

203-1191 Front St Water Resources Branch Whitehorse, YT, Y1A 0K5 (867) 667-3104

YWWR: 101160007

MONITORING WELL DEVELOPMENT, **PURGING & SAMPLING RECORDS**

| Well ID CAFN MW-O1 | Well Diameter 2" |
|--|---|
| Project Name | Total Depth of Well 61 P+ |
| Project Number | Initial Depth to Water Time |
| Date March 30,2017 | 1 Casing Volume 40 L |
| Prepared By: Midnight Sun Drilling Inc | 3 Casing Volume 120 L |
| Sample ID Duplicate ID | Depth to Water After Purging Time |
| Sample Depth | Method of Purging <u>Circundfos</u> Rediflow (2") |
| Activity Performed at Well: | Method of Sampling |
| 🛛 Development 🗌 Purging 🗌 Sampling | Method of Development <u>GLUNDFOS</u> 2" REDIFLO |

| time | intake depth | pumping rate | cumulative volume | temp. | pH | specific conductance | comments |
|-------|-----------------|-----------------|----------------------|-------|---------|----------------------|---|
| (| feet) metres | gpm (Lpm | (litres) gallons | F(C) | (units) | (µmhos/cm)) | odour, colour, sediment load, well condition, presence of product |
| 12:22 | 56 | 2.22 | 20 | 4.4 | 8.39 | 404.5 | grey in colour, turbic (choc. milk), no |
| 12:42 | 56 | 1.82 | 60 | 39 | 7,6 | 347 | grey, less turbid, can't see bottom of bucket |
| 13:31 | 56 | 3.33 | 220 | 3.7 | 7.4 | 241 | light grey, turbid |
| 14:01 | 56 | 5.0 | 326 | 3.7 | 7.1 | 224 | light brown/grey isee bottom of bucket |
| 14:27 | 56 | 4.6 | 420 | 3.7 | 7.1 | 220 | |
| 14:40 | 56 | 3.33 | 460 | 3.6 | 7.0 | 210 | , |
| 14:52 | 56 | 3.33 | 500 | 3.6 | 7.0 | 209 | |
| 15:03 | 56 | 4.0 | 540 | 3.6 | 7.6 | 209 | |
| 15:16 | 56 | 3.33 | 580 | 3.6 | 7.0 | 207 | NTU~ 19 |
| 15:35 | 56 | 2.90 | 640 | 3.5 | 7.0 | 204 | WTU~14 |

| container size and composition | preservative | number of containers | analyses | time | laboratory |
|-----------------------------------|--------------|----------------------|----------|------|------------|
| 5 | | | | | |
| | | - | | | |
| | | 2 | | | |
| | | | . * | | |

| pH cal | libration | (0 | hoose tw | o) | zero | specif | ic conductance calibration | | zero & |
|----------|---------------------------|--------|----------|---------|---------|----------|--------------------------------|------------------|----------|
| time | buffer solution | pH 4.0 | pH 7.0 | pH 10.0 | setting | time | KCI solution (µmhos/cm @ 25 C) | redline check | |
| start of | temp. (C) | | | | | start of | temp. (C) | | |
| day: | instrument reading | | | | | day: | instrument reading | | |
| | should read/calibrated to | | | | | | should read | | - |
| end of | temp. (C) | | | | | end of | temp. (C) | | |
| day: | instrument reading | | | | | day: | instrument reading | | |
| notes | | | | | | | should read | 1 | |
| U | SED / 85. GAL | DUF | ING | DALL | NG - | - PUR(| SED THIS WATEL | | <u>.</u> |
| | (320L) | | | | | | | | |





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16"

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29

28

COONSE

homag

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light

Sand

ind

51-52 is med sand, at 52 "coarse sand (2")

at 51' an inch of silt/fine sand (lense)

. COarce

203-1191 Front St **Environment Yukon** Water Resources Branch Whitehorse, YT, Y1A 0K5 (867) 667-3104

SAMPLE/CORE LOG OF BORING

4(1-41) peagravel (41-42)

, light grey, unoxidized

9

10

11

Borehole ID CAFN MWO

Project Name

Number _

Page ____ of ____

| Date | March | 28, 2017 | Project |
|-------|------------|-----------|---------|
| Recor | ded By Kat | je Pleier | |

| Recorded B | y Katie | > Aleit | er | | 15-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1- | |
|-----------------------------|-----------------------------|------------------|-------------------------------|--|---|--------|
| Sample/C (m(ft.)below gr | ore Depth round surface) | Core Recovery | Time/Hydraulic Pressure or | Sample/Core | Unified Soils | Sample |
| From | То | m/ft./ | Blows 24 cm/in) | Description | Class. | Number |
| 0 | 5 | | £, | silty, clay clamps, grey-brawn | | 1 |
| 5 | 7 | 1.5 | 56 | arey, iron oxid. staining silty. | | 2 |
| 27 | 1 Section | 100 | (11, 11, 12, 14) | * phateurleichure, fine sand | - | |
| 10 | 12 | 1.8 | 37 | plater, more maisture, Silty very fire sound | | 3 |
| 1 | × | | | Giran staining at 10 ft for 2inches | ~ | |
| 14 | | | | moist salt incuttings | | |
| 15 | 17 | 15: | 36 | >16.5 - 115 very maist silt, iron staining | $\mathbf{)}$ | 4 |
| | | | | at interface blue mist Edn at 16.5. | 1 | |
| | | | | > confining laver, mue dense at 16.5 | 7 | |
| | | | - | >17-16.5% fire sand, homogen, light | | |
| | | | | aver, dru | | |
| | | | | | | |
| | 19 | | | moist silt in cuttings | | |
| | | | _ | 0 | | |
| 20 | 22 | 13" | 20 | -2020- wet silty sand. | | 5 |
| | | | - | around 21 Ft it is more sitty | | |
| | | | | 21-22 it is ucter and sandier | | |
| | | | | | | |
| 25 | 27 | 24" | 20 | moist sand homoporeaus, area | | 6 |
| | | | | 25-26 ft is welled (saturated) | | |
| | | | |) | | |
| 30 | 32 | 17" | 33 | wethomas sand, light aven medance | | 7 |
| | | | | we we way a way a set | | , |
| 35 | 37 | 10″ | 14 | wetsand heteropen subrainded to | | 8 |
| | | | | valuded argue K (Course E fice) | | |
| | | | | The provers (New Service) | | |



Environment Yukon 203-1191 Front St Water Resources Branch Whitehorse, YT, Y1A 0K5

(867) 667-3104

SAMPLE/CORE LOG OF BORING

Borehole ID _CAFN MW-01 Date March 29, 2017 Recorded By Kabe Pteifer

Project Name

Project Number

Page 2 of 2

| Sample | Core Depth | | | | | |
|---------------------|-----------------|----------------------------|--|---|------------------|--------|
| (mft.)below From | ground surface) | Core Recovery m(ft.) | Time/Hydraulic Pressure or Blows/24 cm/m | Sample/Core Description | Unified Soils | Sample |
| EC | | | <u> </u> | | Class. | |
| 22 | | | | added 80 gal ofwater (20+20+5+20) | | |
| | | | | +15 | | - |
| 60 | 62 | 6" | 26 | 615 contact blue sand Emptix | | 15 |
| | | | 2 | fire availand matrix w lavere availables 7 | | 10 |
| | | | | area in colours and find graces, | [| 10 |
| 1. A. | | | | () () (C) (C) (C) (C) (C) (C) (C) (C) (C | | 10 |
| 70 | 72 | 21" | 129 | Proven a Proven and a statistical | 5-72 | 210 |
| | 10 | | | refuel, grey, fires w. cobbles, glacial him | | 513 |
| | | | | 10-to.3 coarse sand | | |
| | | | • | 70.3-70.5 med. Sand | | |
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YWWR: 101160008



Environment Yukon 203-1191 Front St Water Resources Branch Whitehorse, YT, Y1A 0K5 (867) 667-3104

MONITORING WELL DEVELOPMENT, PURGING & SAMPLING RECORDS

| Project Name CHAMIAGNE | Total Depth of Well |
|--|--|
| 140/4 21/12 | |
| Prepared By: JOIN MILLE / ILATIE PREIFEL | 1 Casing Volume 5.4 L 3 Casing Volume 16 L |
| Sample ID Duplicate ID Sample Depth | Depth to Water After Purging <u>9.06 mbtoc</u> Time <u>15:01</u> Method of Purging <u>2⁴ 6FWDFCs</u> REDIFLO |
| Activity Performed at Well: | Method of Sampling |

| time | intake depth | pumping rate | cumulative volume | temp. | pН | specific conductance | comments |
|-------|-----------------|-----------------|----------------------|-------|---------|----------------------|---|
| | feet (metres) | gpm (Lpm) | litres) gallons | F/C) | (units) | (µmhos/cm)) | odour, colour, sediment load, well condition, presence of product |
| 12:01 | 10.3 | 5.0 | 20 | 5.8 | 7.9 | 287 | brown/grey, extremely terribid (char milk) |
| 12:16 | 10.3 | 5.0 | 80 | 4.6 | 7.\ | 242 | ~40 NTU, less turbid |
| 12:39 | 10.3 | 5.0 | 160 | 4.6 | 7.0 | 190 | |
| 13:43 | 10.3 | 4.0 | 240 | 4.8 | 7.0 | 176 | water level = 893 mbtoc (restarted blun 12:57-13:43 |
| 14:05 | 10.3 | 4.0 | 320 | 5.3 | 7.2 | 163 | $\Sigma = 8.99$ mbtoc |
| 14:31 | 10.3 | 4.0 | 380 | 4.7 | 6.9 | 152 | Generator rain out of thel, stopped and restarted |
| 14:38 | 10.3 | 4.0 | 400 | 4.4 | 6.8 | 147 | Z=9.04 mbtoc at 14:41 |
| 14:47 | 10.3 | 4.0 | 446 | 4.3 | 6.6 | 147 | Z = 9.06 mbtoc at 14:52 |
| 15:01 | 10.3 | 4.0 | 500 | 4.2 | 6.7 | 143 | I = 9.66 mbtoc at 15:01 |
| | | | F | | | ~ | × |

| | | | international and a second sec | | | |
|-----------------------------------|--------------|----------------------|--|------|------------|--|
| container size and composition | preservative | number of containers | analyses | time | laboratory | |
| | | | | | | |
| | | | | | | |
| | | | 2.4 | | | |
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| pH calibration | | (choose two) | | zero | specific conductance calibration | | | zero & | |
|------------------|---------------------------|--------------|--------|---------|----------------------------------|-----------|--------------------------------|--------|-------|
| time | buffer solution | pH 4.0 | pH 7.0 | pH 10.0 | setting | time | KCI solution (µmhos/cm @ 25 C) | 1413 | check |
| start of day: | temp. (C) | | | | start of | temp. (C) | | | |
| | instrument reading | | | | | day: | instrument reading | | |
| | should read/calibrated to | | | | | | should read | | |
| end of day: | temp. (C) | | | | | end of | temp. (C) | | |
| | instrument reading | _ | | | | day: | instrument reading | | |
| | | | | | | il | should read | | |
| notes | | | | | | 1 | | | |

120 GALLONS USED DUGING DRILLING - PULGE 120 GALLON 1/LVS 5 CASING VOLUMES = 500 L

= 125 CALLONS



Environment Yukon 203-1191 Front St Water Resources Branch Whitehorse, YT, Y1A 0K5 (867) 667-3104

WELL CONSTRUCTION • PAGE 1




Environment Yukon 203-1191 Front St Water Resources Branch (867) 667-3104

SAMPLE/CORE LOG OF BORING

| Borehole ID Date Recorded By | CAFN-1 MALCH 30 KATIF | 1W-02 /17 PFELFER/Jan | Project Name Project Number | CHAMPAGNE | Page | . of |
|------------------------------------|--------------------------------|---|--------------------------------|----------------------------|-----------------------|------------------------------|
| Sample/Cor (mft.)eelow gro | re Depth und surface) To | ore Time/Hydraulic overy Pressure or /ftBlows/cm/ii | n. | Sample/Core Description | Unifi Soil Clas | ed Sample Number S. |

| From | 10 | ZFTS | 7 | | | |
|---------|-----|------|-----|--|---|--------------------|
| 0 | 3 | | | sample from cuttings. | 1 | 10 |
| | | | | ling arginged sand & silt silt silt shumas is coloring | | |
| | | | | The grand and sing sin champs, modare | | |
| | | | | | | $\hat{\mathbf{r}}$ |
| 20 | 22 | 1,0 | 30 | 20 - 21 FINE SAND, BROWN HOMOGENEOUS, MUIST | 0 | X |
| | | | | 21' - SILTY SAND, CLAY, GLEY BROWN, MOIST | | 3 |
| | | | | | | |
| 25 | 22. | 0 | 203 | NIA - NULLING MAR NIGGINIT INITIO | | 101 m |
| 30 | 32 | | 20 | NIT - DICIULING WAS DUPPICOUS WITH | | 1.1.1 |
| C. | | | | HEAVINDI SANDS | | |
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Environment Yukon 203-1191 Front St Water Resources Branch Whitehorse, YT, Y1A 0K5 (867) 667-3104

MONITORING WELL DEVELOPMENT, PURGING & SAMPLING RECORDS

| Well ID _ Project N Date Preparec Sample I Sample I Activity F | Well ID_CAPN-MW-05 Project Name Champacine Project Number | | | | | Well Diameter Total Depth of V Initial Depth to V 1 Casing Volum 3 Casing Volum Depth to Water Method of Purgi Method of Samp Method of Deve | 2" Vell 30.5 ft below ground Nater 7.19 mbtoc Time 16:05 Ne 1.2 gallons Ne 3.7 gallons After Purging Time and Waterra and botualle Ding 2" Grundfos Rediflow / Waterra Noterra |
|--|---|-----------------|-------------------|-------|---------|--|---|
| time | intake depth | pumping rate | cumulative volume | temp. | pН | specific conductance | comments |
| | feet / metres | gpm / Lpm | litres gallons | F/(C) | (units) | (µmhos/cm)) | odour, colour, sediment load, well condition, presence of product |
| 16:37 | | | 5 | 61 | 71 | 410 | |

| | | 3F F | Jane (gamerie | (0) | (anno) | (printiod/only) | coour, colour, sediment load, wen condition, presence of product |
|-------|---|------|----------------|-----|--------|-----------------|--|
| 16:37 | / | | 5 | 6.1 | 7.1 | 410 | well kept going dru |
| | | | | | | 6 | |
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| container size and composition | preservative | number of containers | analyses | time | laboratory |
|-----------------------------------|--------------|----------------------|----------|------|------------|
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| | | | | | |
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| pH cal | pH calibration (choose | | hoose tw | oose two) zero | | specific conductance calibration | | | | |
|---------------|------------------------------|--------------|----------|----------------|---------|----------------------------------|--------------------------------|------|------------------|--|
| time | buffer solution | pH 4.0 | pH 7.0 | pH 10.0 | setting | time | KCI solution (µmhos/cm @ 25 C) | 1413 | redline check | |
| start of | temp. (C) | | | | | start of day: | temp. (C) | | | |
| day: | instrument reading | | | | | | instrument reading | | | |
| | should read/calibrated to | | | | | | should read | | | |
| end of | temp. (C) | | | | | end of | temp. (C) | | | |
| day: | instrument reading | | | | | day: | instrument reading | | | |
| notes 47ml | 20gallons ad ust purge 25 | des Sgall | duvin | ng di | illing | <u> </u> | should read | | | |

YWWR: 101160009 203-1191 Front St **Environment Yukon** Water Resources Branch Whitehorse, YT, Y1A 0K5 WELL CONSTRUCTION • PAGE 1 (867) 667-3104 Government Well ID_CAFN-MW-03 Site Location Champagne CHAMPAGNE Project Name **Field Personnel** Miller Project Number _ Recorded By Permit Number above ground protective casing Installation Date(s) March 31, 2017 flush mount protective casing □ other. Drilling Method Open stem auger Drilling Contractor Midvidht metres/feet Driller Kyan U ground surface elevation . Drilling Fluid □ surveyed □ estimated Fluid Loss During Drilling -Litres Gallons □ surface seal backfill S surface seal grout CEMENT Materials Used metres/feet* **Riser Pipe:** Length _ _ metres/feet Diameter _____ _ cm/inches 40 _ cm/in diameter drilled hole Construction A PVC schedule □ Stainless Steel well casing _ _ cm/in diameter Galvanized Steel Slotted Area: Length . _ metres/feet Diameter _2 backfill cm/inches grout <u>MIX OF CVTTINGS</u> + 10 Construction D PVC schedule density of grout _ K Stainless Steel A Galvanized Steel Silt Trap Used □ YES D. NO 12 metres/feet* □ YES X NO Filter Sock Used Bottom End Cap:
Male Female □ bentonite slurry 1 bentonite pellets 40 PVC schedule 23 metres/feet) □ Stainless Steel Galvanized Steel metres/feet* 25 metres/feet* Top Cap: □ Male □ Female □ Slip 🖌 J Plug D PVC schedule □ Stainless Steel Galvanized Steel well screen ______ 5 . cm/in/diameter Protective Casing: Length . metres(feet slot Diameter _____ cm/inches Drescheen - Plepack Construction

Cast Aluminum Cast Steel Steel gravel pack YES (see page 2) **Casing Installation:** 🔀 sand pack □ formation collapse NO NO Sandpack: Coarse Sand: _bags of____kg/lb per bag Sand Gradation Fine Sand: bags of kg/lb per bag Sand Gradation 30 metres/feet Seal: Bentonite Pellets: _____bags of _____kg/lb per bag Type Bentonite Slurry: _____bags of _____kg/lb per bag Type_ Measuring Point is Top of Well Casing Grout: Unless Otherwise Noted Cement: bags of _kg/lb per bag Type Bentonite: ___bags of____kg/lb per bag Type *Depth Below Ground Surface



Environment Yukon 203-1191 Front St Water Resources Branch Whitehorse, YT, Y1A 0K5 (867) 667-3104

SAMPLE/CORE LOG OF BORING

| Borehole ID <u>CAFN</u> - MW-03 Date <u>MAKCH</u> 31/17 Recorded By J. MILLER | Project NameCUAUIAGN€ Project Number | Page of |
|---|---|---------------------------|
| Sample/Core Depth (m/ft. below ground surface) Recovery | aulic Sample/Core | Unified Soils Numbe |

| From | То | m/ft. | Blows/ 27 cm/in. | | Class. | Number |
|---------------|-----|-------|------------------|---------------------------------|--------|--------|
| 0 | 20 | | | - Drill straight fluengh to 20' | | |
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| | | | | -> assume similar geology | | |
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| | Da | 1.0 | 15 | HOLE CHARACT 30.51 | | |
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| Government Department of Environment Water Resources Section V-310 Yukon Water Well Registry Box 2703 Whitehorse, Yukon Y1A 2C6 | Well ID: To be assigned by Dep | NOV 10 <u>WATER R</u> ESOURC t. Of Environment | Well Record Page 1 of 2 DES BRAWATER WELL DRILLERS FORM Metric O Imperial | | | | |
|--|---|---|--|----------|--|--|--|
| INSTRUCTIONS FOR COMPL 1. Additional information is provided 2. Question can be directed to Wate 3. All well construction measureme | ETING THE FORM d at the bottom of this form on page 2. er Resources at 867 667-3171. Ints shall be reported to 0.1 m or 0.3 ft | Please print clearly in bl. Completion and submiss the drilling contractor. Please specify metric or | ue or black ink. sion of this form is the responsibility o imperial units for all measurements. | | | | |
| WELL LOCATION AND OWNE | R'S INFORMATION | A1 Well Name: | Optional (i.e. City Well No. 2) | - | | | |
| A2 Drilled For: | st Name Last N V College | Name Compan | y / Department / Organization |] | | | |
| A3 Street Address of Well Loo | cation: | | Sketch of Well Location | | | | |
| A4 Town / Village / Area / Lot # | #: | se | n, indicate distances from property line, ptic field, fuel tank(s) and building. Please include North arrow. | | | | |
| A5 UTM Coordinates (using h | andheld GPS): NAD 8 3 Z | one | | | | | |
| Easting | Northing | | | | | | |
| A6 Elevation of Top of Casing | m / ft ASL | | | | | | |
| A7 Accuracy of GPS: | +/- m / ft | | | | | | |
| A8 Purpose of Wells | Vell Irrigation pal Observation - Water L Itural Public/Recreational | Environmental (C evel Other <i>(please ide</i> | Quality) Intify use) | | | | |
| LOG OF OVERBURDEN AND | BEDROCK MATERIALS (All depths | are below ground surface, circle appro | opriate units, use descriptors provided) | • | | | |
| EXAMPLE (brown, grey, gree ONLY - brown | n, black, CLAY, SILT, SAND, GRAVEL, yellowish) COBBLES, BOULDERS, BEDROCK SAND | 'trace' <10% (i.e. SILT trace gravel) "some" 10-20% (i.e. SAND some gravel) "silty/ sandy / gravely" 20-30% (i.e. silty SANL "and sand" or "and gravel" 35-50% trace gravel some silt | D) MOISTURE: dry / moist / saturated (wet) HARDNESS: soft / hard / very hard soft and saturated | 1 | | | |
| Depth (m / ft) B2 From B3 To B4 General Col | lour B5 Most Common Material | B6 Secondary Materials | B7 General Description | | | | |
| 0 12 6100 | WN Grand | Sand | Mid-Fine | | | | |
| 16 54 bhou | WN GLANN | Sand | Coard Ghalf | | | | |
| 54 69 bho | un Grad | Sara Sara | Coarse Said | | | | |
| 67 97 bha | un Grant: | Sand | Vert hand | Wet 136 | | | |
| 155 765 6hou | u Graul | Sind. | Med Fin Sand | | | | |
| | W Coraci | LITTL Jang. | - Loose Consuction | re Graul | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| B8 Permafrost Encountered: | NO YES If yes, indicated de | pth (m / ft): from: to: | | | | | |
| | Completed | VYYMMDD | Example. 2005 01 31 | | | | |
| C1 Drilling Method Air Rotary | C1 Drilling Method Air Rotary (Conventional) Dug Other (please specify) C2 Well Type: In what geological material is the water producing zone located? | | | | | | |
| Casing (depth below ground surface, plea C3 Outside Dispate (2564) - C4 | Casing (depth below ground surface, please circle appropriate units) C3 Outside C4 Casing Material C5 Casing Wall Thickness C6 Casing Depth to: C6 Casing C4 Casing Material C5 Casing Wall Thickness C6 Casing Depth to: C7 Other Comments Regarding Casing: C7 Other Comments Regarding | | | | | | |
| | Steel Plastic Other | Ŋ <u>L\6\$</u> (m (∰ | | | | | |

.

| WELL CONSTRUCTION (Continued from Page 1) | Well Record Page 2 of 2 |
|--|---|
| Surface / Environmental Seal (depth below ground surface, please circle app | propriate units) |
| C8 Seal Material Type: C9 Diameter of Seal: (i.e. Bentonite) C9 Diameter of Seal: C10 Seal Depi C10 Seal Depi C10 Seal Depi | th from: (m/t) ($m/t)$ (m/t) (m/t |
| Gravel Pack (depth below ground surface, please circle appropriate units) | *************************************** |
| C13 Gravel Pack: VN If yes, indicated depth (m / ft): YES from: to: Indicate diamete | r of material: [] (mm / inches) Material type: [] (i.e. silica) |
| Well Screen Information (depth below ground surface, please circle appropriate | e units) C17 Depth from: C18 Depth to: Slot Size / Perforation Dia: |
| C14 Outside C15 Screen Material C16 Screen Type S Diameter | Coreen 1. Image: Coreen 1. Image: Coreen 2. Image: Coreen 3. |
| WELL DEVELOPMENT AND STATUS D1 Well Developed by D2 Well Head Completion D3 Well Head 3 Surge Block Well House Gabove ground Water Jetting Pitless Adaptor Depth of adaptor: Image: Completion of adaptor: Water Jetting Pitless Adaptor Depth of adaptor: Image: Completion of adaptor: Bailing Well Pitless Adaptor Depth of adaptor: Image: Completion of adaptor: Pumping None (well not completed) Image: Completion of adaptor: Of Final Well Status Not in use Abandoned Dry Water Supply (in use) Deepened Image: Completion of adaptor: Image: Completion of adaptor: Observation Other: Other: Image: Completion of adaptor: Dry | Stick-up I surface/ I surface/ I m Will D4 Static Water Level (below top of casing) (Use negative if below grade) D5 Well Yield Estimate I Lps / form (Lps / form) To Well Abandonment Status Was the well properly decommissioned with bentonite grout? D8 Method Used to Estimate Well Yield I Lifting Bailing NO If YES, Indicate Date: NO Y Y Y Y Y Y Y Y |
| PUMPING TEST RECORD AND GROUNDWATER QUALITY (Al depths below ground, circle appropriate units) E1 Pumping Test Information Pumping Test Information RECOMMENDATIONS Pumping Test Start Date: Recomm. Pump Depth: | F1 Well Water Level Drawdown Recovery DATA Drawdown Recovery Time Water Level (m/n) (m/n) (m/n) 0 (SWL) 0 (FWL) (m/n) (m/n) 1 1 1 1 2 2 2 1 3 3 3 1 4 4 4 4 5 5 5 10 10 10 15 15 15 20 20 20 25 25 25 30 30 30 40 40 40 50 50 50 60 60 60 8acteria Testing Was a sample taken? If yes, indicate the name of the laboratory. Y Y Y M D Y Y Y M D Y Y Y M D 0 15 10 If yes, indicate the name of the laboratory. Y Y Y Y M D |
| U Other: | CONSULTANT (If applicable) I1 Company Name: I2 Company Address: I3 Report Reference: I4 Report Date: Y Y Y Y M M D D Environment |
| ADDITIONAL INSTRUCTIONS Upon completing this form, please mail or fax it to: Please mail or fax it to: Please feel free to contact us at: Phone: (867) 667-3195 E-mail: Water.Resources@govyk.ca Please feel free to contact us at: Phone: (867) 667-3195 E-mail: Water.Resources@govyk.ca Please feel free to contact us at: Phone: (867) 667-3195 E-mail: Water.Resources@govyk.ca Please feel free to contact us at: Phone: (867) 667-3195 E-mail: Water.Resources@govyk.ca Please feel free to contact us at: Phone: (867) 667-3195 E-mail: Water.Resources@govyk.ca Please feel free to contact us to the feel feel feel feel feel feel feel fe | In a information contained on this form is collected under the authority of the Access to nation and Protection of Privacy (ATIPP) Act, Section 29 (c) and will be used to compile a database of well and ground water information. For further information contact the ger of Hydrology, Water Resources at (867) 667-3223, toll free within Yukon -661-0408 Ext 3223, eread the above clause and stand the purpose for trian of personal information. Signature of Well Owner |

APPENDIX D

Certificate of Laboratory Analysis

Report Transmission Cover Page



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1190468 |
|-------------|---------------------------|------------|-----------------------|-----------------|--------------|
| Report To: | YTG DOE - Water Resources | ID: | EPB | Control Number: | |
| | 202, 419 Range Road | Name: | Eagle Plains Baseline | Date Received: | Mar 9, 2017 |
| | Whitehorse, YT, Canada | | Survey | Date Reported: | Mar 28, 2017 |
| | Y1A 3V1 | Location: | Yukon | Report Number: | 2173962 |
| Attn: | John Miller | LSD: | | | 20002 |
| Sampled By: | John Miller | P.O.: | C00032908 | | |
| Company: | YG-Environment | Acct code: | | | |

| Contact & Affiliation | Address | Delivery Commitments | | |
|---|---|--|--|--|
| Jean Beckerton YTG DOE - Water Resources | 202, 419 Range Road Whitehorse, Yukon Territory Y1A 3V1 Phone: (867) 667-3233 Fax: (867) 667-3194 Email: jean.beckerton@gov.yk.ca | On [Report Approval] send (Test Report) by Email - Multiple Reports By Lot On [Report Approval] send (COC, Test Report) by Email - Merge Reports On [Lot Approval and Final Test Report Approval] send (Invoice) by Email - Single Report | | |
| John Miller YTG DOE - Water Resources | 202, 419 Range Road Whitehorse, Yukon Territory Y1A 3V1 Phone: (867) 667-3233 Fax: (867) 667-3194 Email: john.miller@gov.yk.ca | On [Lot Verification] send (COA) by Email - Single Report On [Lot Approval and Final Test Report Approval] send (Invoice) by Email - Single Report | | |

Notes To Clients:

• Reduction of analytical volume was necessary for suspended solids analysis due to matrix effects in sample #1190468-1. Detection limits are adjusted accordingly.

- Reduction of analytical volume was necessary for Trace Metals analysis due to matrix effects in sample #1190468-1. Detection limits are adjusted accordingly.
- Reduction of analytical volume was necessary for magnesium, sodium and sulfur analysis to bring results within the analytical range for sample #1190468-1. Detection limits are adjusted accordingly.
- Reduction of analytical volume was necessary for Trace Metals analysis due to matrix effects in sample #1190468-1. Detection limits are adjusted accordingly.
- Radiochemistry analysis was performed by a subcontract laboratory. See attached 2 page report 2017-2649.

The information contained on this and all other pages transmitted, is intended for the addressee only and is considered confidential. If the reader is not the intended recipient, you are hereby notified that any use, dissemination, distribution or copy of this transmission is strictly prohibited. If you receive this transmission by error, or if this transmission is not satisfactory, please notify us by telephone.

Analytical Report



| Bill To: Report To: | YTG DOE - Water Resources YTG DOE - Water Resources 202, 419 Range Road Whitehorse, YT, Canada | Project: ID: Name: | EPB Eagle Plains Baseline Survey Yukon | Lot ID: Control Number: Date Received: Date Reported: | 1190468 Mar 9, 2017 Mar 28, 2017 |
|----------------------------------|---|-----------------------------|---|--|---|
| Attn: Sampled By: Company: | '1A 3V1 Location: ohn Miller LSD: ohn Miller P.O.: 'G-Environment Acct code | LSD: P.O.: Acct code: | C00032908 | 00032908 | 2173962 |

| Reference Number | 1190468-1 |
|--------------------|---------------------|
| Sample Date | Mar 05, 2017 |
| Sample Time | 18:15 |
| Sample Location | |
| Sample Description | Yown-1401 / |
| | 2017008 / Northern |
| | Cross Camp Well / B |

| | | Matrix | Water | | | |
|-----------------------------|------------------------|--------------------|----------------------|---------|---------|----------------------------|
| Analyte | | Units | Results | Results | Results | Nominal Detection Limit |
| Inorganic Nonmetallic I | Parameters | | | | | |
| Nitrogen | Total | mg/L | 5.00 | | | 0.06 |
| Organic Carbon | Total Nonpurgeable | mg/L | 3.4 | | | 0.5 |
| Organic Carbon | Dissolved Nonpurgeable | mg/L | 2.6 | | | 0.5 |
| Inorganic carbon | Total | mg/L | 212 | | | 0.5 |
| Inorganic carbon | Dissolved | mg/L | 199 | | | 0.5 |
| Ammonia - N | | mg/L | 4.12 | | | 0.01 |
| Phosphorus | Total | mg/L | 0.041 | | | 0.003 |
| Metals Dissolved | | | | | | |
| Mercury | Dissolved | mg/L | <0.00001 | | | 0.00001 |
| Metals Total | | | | | | |
| Calcium | Total | mg/L | 33.9 | | | 0.01 |
| Magnesium | Total | mg/L | 234 | | | 0.02 |
| Potassium | Total | mg/L | 9.1 | | | 0.04 |
| Silicon | Total | mg/L | 1.80 | | | 0.005 |
| Sulfur | Total | mg/L | 1640 | | | 0.02 |
| Sodium | Total | mg/L | 2180 | | | 0.1 |
| Titanium | Total | mg/L | 0.008 | | | 0.002 |
| Digestion | Preparation | F | ield Pres, digest as | | | |
| | | | total Hg | | | 0.00004 |
| Mercury | Iotal | mg/L | <0.00001 | | | 0.00001 |
| Physical and Aggregate | | | 101 | | | 0 |
| Solids | Total Suspended | mg/L | 184 | | | 2 |
| Solids | I otal Dissolved | mg/L | 7280 | | | 5 |
| Routine water | | | Europe de d | | | |
| pH - Holding Time | -+ 05 %0 | | Exceeded | | | |
| pH Flastical Oscillation | at 25 °C | 0/2000 | 8.09 | | | 4 |
| Electrical Conductivity | | μ S/cm at 25 C | 8970 | | | 1 |
| Calcium | Dissolved | mg/L | 26.6 | | | 0.01 |
| Magnesium | Dissolved | mg/L | 246 | | | 0.02 |
| Potassium | Dissolved | mg/L | 9.2 | | | 0.04 |
| Silicon | Dissolved | mg/L | 1.39 | | | 0.005 |
| Sodium | Dissolved | mg/L | 2150 | | | 0.1 |
| Sulfur | Dissolved | mg/L | 1570 | | | 0.02 |
| Bicarbonate | | mg/L | 1020 | | | 5 |
| Carbonate | | mg/L | <6 | | | 6 |

Analytical Report



| Bill To: Report To: | YTG DOE - Water ResourcesProject:YTG DOE - Water ResourcesID: | EPB | Lot ID: Control Number: | 1190468 | |
|-------------------------|---|----------------------------|--|--|--|
| Attn: | 202, 419 Range Road Whitehorse, YT, Canada Y1A 3V1 John Miller | Name: Location: LSD: | Eagle Plains Baseline Survey Yukon | Date Received: Date Reported: Report Number: | Mar 9, 2017 Mar 28, 2017 2173962 |
| Sampled By: Company: | Ampled By: John Miller P.C Company: YG-Environment Acc | P.O.: Acct code: | C00032908 | | |

| | | Reference Number | 1190468-1 | | | |
|---------------------------------|---------------------|-------------------------|-----------------------------------|---------|---------|----------------------------|
| | | Sample Date | Mar 05, 2017 | | | |
| | | Sample Time | 18:15 | | | |
| | | Sample Location | | | | |
| | ; | Sample Description | Yown-1401 / | | | |
| | | | 2017008 / Northern | | | |
| | | | Cross Camp Well / B | | | |
| | | Matrix | Water | | | |
| Analyte | | Units | Results | Results | Results | Nominal Detection Limit |
| Routine Water - Continue | d | | | | | |
| Hydroxide | | mg/L | <5 | | | 5 |
| P-Alkalinity | as CaCO3 | mg/L | <5 | | | 5 |
| T-Alkalinity | as CaCO3 | mg/L | 833 | | | 5 |
| Bromide | Dissolved | mg/L | <2.0 | | | 0.02 |
| Chloride | Dissolved | mg/L | <5.0 | | | 0.05 |
| Nitrate - N | Dissolved | mg/L | <1 | | | 0.01 |
| Nitrite - N | Dissolved | mg/L | <1 | | | 0.01 |
| Sulfate (SO4) | Dissolved | mg/L | 4600 | | | 0.1 |
| Hardness | as CaCO3 (dissolved |) mg/L | 1080 | | | 5 |
| Total Dissolved Solids | Calculated Value | mg/L | 7540 | | | 1 |
| Ionic Balance | Dissolved | % | 103 | | | |
| Mono-Aromatic Hydrocar | bons - Water | | | | | |
| Benzene | | ug/L | <0.5 | | | 0.5 |
| Ethylbenzene | | ug/L | <0.5 | | | 0.5 |
| Methyl t-Butyl Ether | | ug/L | <0.5 | | | 0.5 |
| Styrene | | ug/L | <0.5 | | | 0.5 |
| Toluene | | ug/L | 7.6 | | | 0.5 |
| Total Xylenes (m,p,o) | | ug/L | <0.5 | | | 0.5 |
| Volatile Petroleum Hydro | carbons - Water | | | | | |
| VPHw (VHw6-10 minus | | ug/L | <50 | | | 50 |
| BTEX) | | | | | | |
| VHw6-10 | | ug/L | <50 | | | 50 |
| Trace Metals Dissolved | . | | | | | |
| Digestion | Dissolved | | Field filtered and Pres Dissol | | | |
| Titanium | Dissolved | mg/L | 0.004 | | | 0.002 |
| Aluminum | Dissolved | mg/L | 0.1525 | | | 0.001 |
| Antimony | Dissolved | mg/L | <0.0020 | | | 0.00002 |
| Arsenic | Dissolved | mg/L | <0.01 | | | 0.0001 |
| Barium | Dissolved | mg/L | <0.01 | | | 0.0001 |
| Beryllium | Dissolved | mg/L | <0.0050 | | | 0.00005 |
| Bismuth | Dissolved | mg/L | <0.01 | | | 0.0001 |
| Boron | Dissolved | mg/L | 0.4 | | | 0.002 |
| Cadmium | Dissolved | mg/L | <0.001 | | | 0.00001 |
| Chromium | Dissolved | mg/L | <0.0050 | | | 0.00005 |

Analytical Report



| Bill To: Report To: | YTG DOE - Water Resources Project: YTG DOE - Water Resources ID: EPB | EPB | Lot ID: Control Number: | 1190468 | |
|----------------------------------|--|---|---|--|--|
| Attn: Sampled By: Company: | 202, 419 Range Road Whitehorse, YT, Canada Y1A 3V1 John Miller John Miller YG-Environment | Name: Location: LSD: P.O.: Acct code: | Eagle Plains Baseline Survey Yukon C00032908 | Date Received: Date Reported: Report Number: | Mar 9, 2017 Mar 28, 2017 2173962 |

| Reference Number | 1190468-1 |
|--------------------|---------------------|
| | N. 05 0017 |
| Sample Date | Mar 05, 2017 |
| Sample Time | 18:15 |
| Sample Location | |
| Sample Description | Yown-1401 / |
| | 2017008 / Northern |
| | Cross Camp Well / B |
| | |

| | | Matrix | Water | | | |
|---------------------|-----------------|--------|---------|---------|---------|----------------------------|
| Analyte | | Units | Results | Results | Results | Nominal Detection Limit |
| Trace Metals Dissol | ved - Continued | | | | | |
| Cobalt | Dissolved | mg/L | <0.0020 | | | 0.00002 |
| Copper | Dissolved | mg/L | <0.05 | | | 0.0005 |
| Iron | Dissolved | mg/L | 0.5 | | | 0.002 |
| Lead | Dissolved | mg/L | 0.0027 | | | 0.00001 |
| Lithium | Dissolved | mg/L | 0.18 | | | 0.0005 |
| Manganese | Dissolved | mg/L | 0.4 | | | 0.001 |
| Molybdenum | Dissolved | mg/L | 0.0071 | | | 0.00002 |
| Nickel | Dissolved | mg/L | <0.02 | | | 0.0002 |
| Selenium | Dissolved | mg/L | <0.02 | | | 0.0002 |
| Silver | Dissolved | mg/L | <0.001 | | | 0.00001 |
| Strontium | Dissolved | mg/L | 0.06 | | | 0.0001 |
| Tellurium | Dissolved | mg/L | <0.0050 | | | 0.00005 |
| Thallium | Dissolved | mg/L | <0.001 | | | 0.00001 |
| Thorium | Dissolved | mg/L | <0.0050 | | | 0.00005 |
| Tin | Dissolved | mg/L | 0.33 | | | 0.0001 |
| Uranium | Dissolved | mg/L | <0.001 | | | 0.00001 |
| Vanadium | Dissolved | mg/L | <0.0050 | | | 0.00005 |
| Zinc | Dissolved | mg/L | 0.37 | | | 0.0005 |
| Zirconium | Dissolved | mg/L | <0.01 | | | 0.0001 |
| Trace Metals Total | | | | | | |
| Aluminum | Total | mg/L | 0.3 | | | 0.001 |
| Antimony | Total | mg/L | 0.0050 | | | 0.00002 |
| Arsenic | Total | mg/L | <0.01 | | | 0.0001 |
| Barium | Total | mg/L | 0.02 | | | 0.0001 |
| Beryllium | Total | mg/L | <0.0050 | | | 0.00005 |
| Bismuth | Total | mg/L | <0.01 | | | 0.0001 |
| Boron | Total | mg/L | 0.3 | | | 0.002 |
| Cadmium | Total | mg/L | <0.001 | | | 0.00001 |
| Chromium | Total | mg/L | <0.0050 | | | 0.00005 |
| Cobalt | Total | mg/L | 0.0057 | | | 0.00002 |
| Copper | Total | mg/L | <0.02 | | | 0.0002 |
| Iron | Total | mg/L | 85.4 | | | 0.002 |
| Lead | Total | mg/L | 0.0051 | | | 0.00001 |
| Lithium | Total | mg/L | 0.15 | | | 0.0005 |
| Manganese | Total | mg/L | 0.9 | | | 0.001 |

Exova T: +1 (604) 514-3322 #104, 19575-55 A Ave. F: +1 (604) 514-3323 E: Surrey@exova.com Surrey, British Columbia V3S 8P8, Canada W: www.exova.com

Analytical Report



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1190468 |
|-------------|---------------------------|------------|-----------------------|-----------------|--------------|
| Report To: | YTG DOE - Water Resources | ID: | EPB | Control Number: | |
| | 202, 419 Range Road | Name: | Eagle Plains Baseline | Date Received: | Mar 9, 2017 |
| | Whitehorse, YT, Canada | Leastien | Survey | Date Reported: | Mar 28, 2017 |
| | Y1A 3V1 | Location: | YUKON | Report Number: | 2173962 |
| Attn: | John Miller | LSD: | 00000000 | · | |
| Sampled By: | John Miller | P.O.: | 00032908 | | |
| Company: | YG-Environment | Acct code: | | | |

| | | Reference Number | 1190468-1 | | | |
|---------------------------|-------|--------------------|--|---------|---------|----------------------------|
| | | Sample Date | Mar 05, 2017 | | | |
| | | Sample Time | 18:15 | | | |
| | | Sample Location | | | | |
| | | Sample Description | Yown-1401 / 2017008 / Northern Cross Camp Well / B | | | |
| | | Matrix | Water | | | |
| Analyte | | Units | Results | Results | Results | Nominal Detection Limit |
| Trace Metals Total - Cont | inued | | | | | |
| Molybdenum | Total | mg/L | 0.0065 | | | 0.00002 |
| Nickel | Total | mg/L | 0.04 | | | 0.0002 |
| Selenium | Total | mg/L | <0.02 | | | 0.0002 |
| Silver | Total | mg/L | 0.0010 | | | 0.00001 |
| Strontium | Total | mg/L | 0.1 | | | 0.0001 |
| Tellurium | Total | mg/L | <0.0050 | | | 0.00005 |
| Thallium | Total | mg/L | <0.001 | | | 0.00001 |
| Thorium | Total | mg/L | <0.0050 | | | 0.00005 |
| Tin | Total | mg/L | 1.00 | | | 0.0001 |
| Uranium | Total | mg/L | 0.0035 | | | 0.00001 |
| Vanadium | Total | mg/L | <0.0050 | | | 0.00005 |
| Zinc | Total | mg/L | 0.43 | | | 0.0005 |
| Zirconium | Total | mg/L | <0.01 | | | 0.0001 |
| Subcontracted Analysis | | | | | | |
| Subcontractor Report Id | SRC | | Done | | | |

Nothiert mo ecs

Approved by:

Mathieu Simoneau **Operations Manager**

Data have been validated by Analytical Quality Control and Exova's Integrated Data Validation System (IDVS). Generation and distribution of the report, and approval by the digitized signature above, are performed through a secure and controlled automatic process.

Methodology and Notes



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1190468 |
|-------------|---------------------------|-----------------|-----------------------|-----------------|--------------|
| Report To: | YTG DOE - Water Resources | ID: | EPB | Control Number: | |
| | 202, 419 Range Road | Name: | Eagle Plains Baseline | Date Received: | Mar 9. 2017 |
| | Whitehorse, YT, Canada | | Survey | Date Reported: | Mar 28, 2017 |
| | Y1A 3V1 | Location: Yukon | Yukon | Report Number: | 2173962 |
| Attn: | John Miller | LSD: | | | |
| Sampled By: | John Miller | P.O.: | C00032908 | | |
| Company: | YG-Environment | Acct code: | | | |

Method of Analysis

| Method Name | Reference | Method | Date Analysis Started | Location |
|---|-----------|--|--------------------------|----------------------------------|
| Alk, pH, EC, Turb in water (Surrey) | APHA | * Alkalinity - Titration Method, 2320 B | 10-Mar-17 | Exova Surrey |
| Alk, pH, EC, Turb in water (Surrey) | APHA | * Conductivity, 2510 B | 10-Mar-17 | Exova Surrey |
| Alk, pH, EC, Turb in water (Surrey) | APHA | * pH - Electrometric Method, 4500-H+ B | 10-Mar-17 | Exova Surrey |
| Ammonia-N in Water (Surrey) | APHA | * Flow Injection Analysis, 4500-NH3 H | 10-Mar-17 | Exova Surrey |
| Anions by IEC in water (Surrey) | APHA | Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B | 10-Mar-17 | Exova Surrey |
| Anions by IEC in water (Surrey) | APHA | * Single-Column Ion Chromatography with Electronic Suppression, 4110 C | 10-Mar-17 | Exova Surrey |
| BTEX-VPH - Water (MS) (Surrey) | B.C.M.O.E | * Volatile Hydrocarbons in Waters by GC/FID (April, 2007), CSR | 13-Mar-17 | Exova Surrey |
| BTEX-VPH - Water (MS) (Surrey) | BCELM | Volatile Hydrocarbons in Water by GC/FID, VH Water | 13-Mar-17 | Exova Surrey |
| Carbon Inorganic (Dissolved) in water(DIC) | APHA | High-Temperature Combustion Method, 5310 B | 15-Mar-17 | Exova Edmonton |
| Carbon Inorganic (Total) in water (TIC) | APHA | High-Temperature Combustion Method, 5310 B | 15-Mar-17 | Exova Edmonton |
| Carbon Organic (Dissolved) in water (DOC) | APHA | High-Temperature Combustion Method, 5310 B | 13-Mar-17 | Exova Edmonton |
| Carbon Organic (Total) in water (TOC) | APHA | High-Temperature Combustion Method, 5310 B | 13-Mar-17 | Exova Edmonton |
| Mercury Low Level (Dissolved) in water (Surrey) | EPA | * Mercury in Water by Cold Vapor Atomic Fluorescence Spectrometry, 245.7 | 15-Mar-17 | Exova Surrey |
| Mercury Low Level (Total) in water (Surrey) | EPA | * Mercury in Water by Cold Vapor Atomic Fluorescence Spectrometry, 245.7 | 14-Mar-17 | Exova Surrey |
| Metals SemiTrace (Dissolved) in water (Surrey) | US EPA | * Metals & Trace Elements by ICP-AES, 6010C | 10-Mar-17 | Exova Surrey |
| Metals SemiTrace (Total) in Water (Surrey) | US EPA | * Metals & Trace Elements by ICP-AES, 6010C | 13-Mar-17 | Exova Surrey |
| Phosphorus - total by Smartchem (Surrey) | APHA | * Persulfate digestion method, 4500-P B5 | 10-Mar-17 | Exova Surrey |
| Solids Dissolved (Total, Fixed and Volatile) - Surrey | APHA | Total Dissolved Solids Dried at 180 C, 2540 C | 10-Mar-17 | Exova Surrey |
| Solids Suspended (Total, Fixed and Volatile) - Surrey | APHA | Total Suspended Solids Dried at 103- 105'C, 2540 D | 10-Mar-17 | Exova Surrey |
| Sublet to SRC Analytical | Ext. Lab | See attached test report, | 20-Mar-17 | Saskatchewan Research Council |
| Total and Kjeldahl Nitrogen (Total) in Water | ISO | * Water Quality - Determination of nitrogen, ISO/TR 11905-2 | 13-Mar-17 | Exova Edmonton |
| Trace Metals (dissolved) in Water (Surrey) | US EPA | Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8 | 10-Mar-17 | Exova Surrey |
| Trace Metals (Total) in Water (Surrey) | US EPA | Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8 * Reference Method Modified | 13-Mar-17 | Exova Surrey |

Methodology and Notes



1190468

Mar 9, 2017 Mar 28, 2017 2173962

| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: |
|-------------|---------------------------|------------|-----------------------|-----------------|
| Report To: | YTG DOE - Water Resources | ID: | EPB | Control Number: |
| | 202, 419 Range Road | Name: | Eagle Plains Baseline | Date Received: |
| | Whitehorse, YT, Canada | | Survey | Date Reported: |
| | Y1A 3V1 | Location: | Yukon | Report Number: |
| Attn: | John Miller | LSD: | | Report Number. |
| Sampled By: | John Miller | P.O.: | C00032908 | |
| Company: | YG-Environment | Acct code: | | |

References

| APHA | Standard Methods for the Examination of Water and Wastewater |
|-----------|--|
| B.C.M.O.E | B.C. Ministry of Environment |
| BCELM | B.C. Environmental Laboratory Manual |
| EPA | Environmental Protection Agency Test Methods - US |
| Ext. Lab | External Laboratory |
| ISO | International Organization for Standardization |
| US EPA | US Environmental Protection Agency Test Methods |
| | |

Comments:

- Reduction of analytical volume was necessary for suspended solids analysis due to matrix effects in sample #1190468-1. Detection limits are adjusted accordingly.
- Reduction of analytical volume was necessary for Trace Metals analysis due to matrix effects in sample #1190468-1. Detection limits are adjusted accordingly.
- Reduction of analytical volume was necessary for magnesium, sodium and sulfur analysis to bring results within the analytical range for sample #1190468-1. Detection limits are adjusted accordingly.
- Reduction of analytical volume was necessary for Trace Metals analysis due to matrix effects in sample #1190468-1. Detection limits are adjusted accordingly.
- Radiochemistry analysis was performed by a subcontract laboratory. See attached 2 page report 2017-2649.



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SRC Group # 2017-2649

Mar 20, 2017

EXOVA 104-19575 55A Avenue Surrey, BC V3S 8P8 Attn: Client Services

Date Samples Received: Mar-13-2017

Client P.O.: POC101427

This is a final report.

Lab Section 1 results have been authorized by Keith Gipman QP, Supervisor Lab Section 2 results have been authorized by Melissa Tackaberry-Syed QP, Supervisor Lab Section 3 results have been authorized by Pat Moser QP, Supervisor Lab Sections 4 and 5 results have been authorized by Vicky Snook QP, Supervisor Lab Section 6 results have been authorized by Marion McConnell QP, Supervisor

QP: Qualified Person in accordance with the Saskatchewan Environmental Code, Corrective Action Plan Chapter, for the purposes of certifying a laboratory analysis

* Test methods and data are validated by the laboratory's Quality Assurance Program.

* Routine methods follow recognized procedures from sources such as

- * Standard Methods for the Examination of Water and Wastewater APHA AWWA WEF
- * Environment Canada
- * US EPA
- * CANMET

* The results reported relate only to the test samples as provided by the client.

* Samples will be kept for 30 days after the final report is sent. Please contact the lab if you have any special requirements.

* Additional information is available upon request.



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www.src.sk.ca/analytical

SRC Group # 2017-2649 Mar 20, 2017

EXOVA

104-19575 55A Avenue Surrey, BC V3S 8P8 Attn: Client Services

Date Samples Received: Mar-13-2017

Client P.O.: POC101427

8182 03/05/2017 1190468-1 NORTHERN CROSS CAMP WELL B YOWN-1401 2017008 *WATER*

| Analyte | Units | 8182 | |
|-------------------------|---------|-------|--|
| Lab Section 4 (Radioche | mistry) | | |
| Radium-226 | Bq/L | <0.01 | |
| Thorium-234 | Bq/L | <4 | |
| Thorium-230 | Bq/L | <30 | |
| Radium-226 | Bq/L | <5 | |
| Lead-214 | Bq/L | <0.5 | |
| Bismuth-214 | Bq/L | <0.5 | |
| Lead-210 | Bq/L | <4 | |
| Actinium-228 | Bq/L | <0.9 | |
| Lead-212 | Bq/L | 0.4 | |
| Bismuth-212 | Bq/L | <0.9 | |
| Thallium-208 | Bq/L | 0.5 | |
| Uranium-235 | Bq/L | <1 | |
| Thorium-227 | Bq/L | <0.8 | |
| Radium-223 | Bq/L | <1 | |
| Radon-219 | Bq/L | <0.7 | |
| Lead-211 | Bq/L | <4 | |
| Potassium-40 | Bq/L | 18 | |

Symbol of "<" means "less than". This indicates that it was not detected at level stated above.

Gamma spectroscopy detection limits are influenced by several factors. "Less than" values reported above represent the lowest detection limits achievable for the sample.

Report Transmission Cover Page



| Bill To: | YTG DOE - Water Resources 202, 419 Range Road Whitehorse, YT, Canada Y1A 3V1 | Project: ID: Name: Location: | Lot ID: YOWN Control Number: Congdon Creek CG Date Received: Congdon Creek CG Date Received: | | 1199062 Apr 27, 2017 |
|----------------------------------|---|---------------------------------------|---|----------------|--------------------------------|
| Attn: Sampled By: Company: | Holly Goulding KP/DB YG-Environment | LSD: P.O.: Acct code: | C00037999 | Report Number: | 2185791 |

| Contact & Affiliation | Address | Delivery Commitments |
|---|---|---|
| John Miller YTG DOE - Water Resources | 202, 419 Range Road Whitehorse, Yukon Territory Y1A 3V1 Phone: (867) 667-3233 Fax: (867) 667-3194 Email: john.miller@gov.yk.ca | On [Lot Verification] send (COA) by Email - Single Report On [Lot Verification] send (COA) by Email - Single Report On [Report Approval] send (Test Report) by Email - Multiple Reports By Lot On [Report Approval] send (Test Report, COC) by Email - Multiple Reports By Lot On [Lot Creation] send (COR) by Email - Single Report |
| Holly Goulding YTG DOE - Water Resources | 202, 419 Range Road Whitehorse, Yukon Territory Y1A 3V1 Phone: (867) 456-6583 Fax: (867) 667-3194 Email: holly.goulding@gov.yk.ca | On [Report Approval] send (Test Report) by Email - Single Report On [Report Approval] send (Test Report, COC) by Email - Merge Reports On [Lot Approval and Final Test Report Approval] send (Invoice) by Email - Single Report |

Notes To Clients:

• Reduction of analytical volume was necessary for Trace Metals analysis to bring results within the analytical range for samples #1199062-1 through 3. Detection limits are adjusted accordingly.

• Radium analysis was performed by a subcontract laboratory. See attached 2 page report 2017-4779.

• Sample 1199062-2; 5702348 Reduction of analytical volume was necessary for anions due to matrix effects in sample 1199062-2 and 1199062-3. Detection limits are adjusted accordingly.

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Analytical Report



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1199062 |
|-------------|---------------------------|------------|------------------|-----------------|--------------|
| | 202, 419 Range Road | ID: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Name: | Congdon Creek CG | Date Received: | Apr 27, 2017 |
| | Y1A 3V1 | Location: | Congdon Creek CG | Date Reported: | May 11, 2017 |
| Attn: | Holly Goulding | LSD: | | Report Number: | 2185791 |
| Sampled By: | KP/DB | P.O.: | C00037999 | | |
| Company: | YG-Environment | Acct code: | | | |
| | | | | | |
| | | | | | |

| | | Reference Number Sample Date Sample Time Sample Location Sample Description | 1199062-1 Apr 06, 2017 14:58 YOWN-1612 / 2017046 / 3 °C / B | 1199062-2 Apr 25, 2017 14:44 2017047 / 3 °C / B | 1199062-3 Apr 25, 2017 16:05 2017048 / 3 °C / B | |
|--------------------|-------|---|---|--|--|-------------------|
| | | Matrix | Water | Water | Water | |
| Analyte | | Units | Results | Results | Results | Nominal Detection |
| Metals Total | | | | | | Lirrin |
| Calcium | Total | mg/L | 64 | 140 | 99 | 0.01 |
| Magnesium | Total | mg/L | 13 | 44 | 42 | 0.02 |
| Potassium | Total | mg/L | 2.1 | 3.0 | 3.0 | 0.04 |
| Silicon | Total | mg/L | 6.4 | 7.2 | 7.6 | 0.005 |
| Sulfur | Total | mg/L | 2.2 | 97 | 52 | 0.02 |
| Sodium | Total | mg/L | 6.3 | 17 | 10 | 0.1 |
| Titanium | Total | mg/L | 0.014 | 0.023 | 0.018 | 0.002 |
| Trace Metals Total | | - | | | | |
| Aluminum | Total | mg/L | 0.018 | 0.0096 | 0.003 | 0.001 |
| Antimony | Total | mg/L | 0.00012 | 0.00019 | 0.000038 | 0.00002 |
| Arsenic | Total | mg/L | 0.0006 | 0.0014 | 0.0061 | 0.0001 |
| Barium | Total | mg/L | 0.11 | 0.080 | 0.10 | 0.0001 |
| Beryllium | Total | mg/L | <0.000050 | <0.000050 | <0.000050 | 0.00005 |
| Bismuth | Total | mg/L | <0.0001 | <0.0001 | <0.0001 | 0.0001 |
| Boron | Total | mg/L | 0.004 | 0.42 | 0.36 | 0.002 |
| Cadmium | Total | mg/L | 0.000043 | 0.000089 | 0.000055 | 0.00001 |
| Chromium | Total | mg/L | 0.0042 | 0.0058 | 0.00075 | 0.00005 |
| Cobalt | Total | mg/L | 0.00069 | 0.00040 | 0.00013 | 0.00002 |
| Copper | Total | mg/L | 0.0058 | 0.0052 | 0.0012 | 0.0002 |
| Iron | Total | mg/L | 10 | 18 | 3.3 | 0.002 |
| Lead | Total | mg/L | 0.043 | 0.0045 | 0.00087 | 0.00001 |
| Lithium | Total | mg/L | 0.0013 | 0.0052 | 0.0021 | 0.0005 |
| Manganese | Total | mg/L | 0.060 | 0.065 | 0.32 | 0.001 |
| Molybdenum | Total | mg/L | 0.0010 | 0.0023 | 0.0015 | 0.00002 |
| Nickel | Total | mg/L | 0.0021 | 0.0063 | 0.0008 | 0.0002 |
| Selenium | Total | mg/L | 0.0005 | 0.0056 | <0.0002 | 0.0002 |
| Silver | Total | mg/L | 0.000017 | <0.000010 | <0.000010 | 0.00001 |
| Strontium | Total | mg/L | 0.22 | 0.44 | 0.40 | 0.0001 |
| Tellurium | Total | mg/L | <0.000050 | <0.000050 | <0.000050 | 0.00005 |
| Thallium | Total | mg/L | <0.000010 | <0.000010 | <0.000010 | 0.00001 |
| Thorium | Total | mg/L | 0.000059 | 0.000091 | 0.000056 | 0.00005 |
| Tin | Total | mg/L | <0.0001 | <0.0001 | <0.0001 | 0.0001 |
| Uranium | Total | mg/L | 0.00090 | 0.0023 | 0.00092 | 0.00001 |
| Vanadium | Total | mg/L | 0.0011 | 0.0023 | 0.00037 | 0.00005 |
| Zinc | Total | mg/L | 0.85 | 0.90 | 0.59 | 0.0005 |

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| V3S 8P8, Canada | W: www.exova.com |

Analytical Report



| Bill To: Attn: | YTG DOE - Water Resources 202, 419 Range Road Whitehorse, YT, Canada Y1A 3V1 Holly Goulding | Project: ID: Name: Location: LSD: | YOWN Congdon Creek CG Congdon Creek CG | Lot ID: Control Number: Date Received: Date Reported: Report Number: | 1199062 Apr 27, 2017 May 11, 2017 2185791 |
|-------------------|---|---|--|--|---|
| Sampled By: | KP/DB | P.O.: | C00037999 | | |
| Company: | YG-Environment | Acct code: | | | |

| | | Reference Number Sample Date Sample Time Sample Location Sample Description | 1199062-1 Apr 06, 2017 14:58 YOWN-1612 / 2017046 / 3 °C / B | 1199062-2 Apr 25, 2017 14:44 2017047 / 3 °C / B | 1199062-3 Apr 25, 2017 16:05 2017048 / 3 °C / B | |
|--------------------|-----------|---|---|--|--|----------------------------|
| | | Matrix | Water | Water | Water | |
| Analyte | | Units | Results | Results | Results | Nominal Detection Limit |
| Trace Metals Total | Continued | | | | | |
| Zirconium | Total | mg/L | <0.0001 | <0.0001 | <0.0001 | 0.0001 |

Analytical Report



| Bill To: | YTG DOE - Water Resources | Project: Lot ID: | | | 1199062 |
|-------------|---------------------------|------------------|------------------|-----------------|--------------|
| | 202, 419 Range Road | ID: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Name: | Congdon Creek CG | Date Received: | Apr 27, 2017 |
| | Y1A 3V1 | Location: | Congdon Creek CG | Date Reported: | May 11, 2017 |
| Attn: | Holly Goulding | LSD: | | Report Number: | 2185791 |
| Sampled By: | KP/DB | P.O.: | C00037999 | | |
| Company: | YG-Environment | Acct code: | | | |

| | Re | ference Number | 1199062-2 | 1199062-3 | | |
|----------------------------|------------------------|-----------------|-----------------------------------|-----------------------------------|---------|-------------------|
| | | Sample Date | Apr 25, 2017 | Apr 25, 2017 | | |
| | | Sample Time | 14:44 | 16:05 | | |
| | 8 | ample Location | | | | |
| | San | ple Description | 2017047 / 3 °C / B | 2017048 / 3 °C / B | | |
| | | Matrix | Water | Water | | |
| Analyte | | Units | Results | Results | Results | Nominal Detection |
| Inorganic Nonmetallic Para | ameters | | | | | Linit |
| Nitrogen | Total | mg/L | 0.32 | 0.22 | | 0.06 |
| Organic Carbon | Total Nonpurgeable | mg/L | <0.5 | 1.0 | | 0.5 |
| Organic Carbon | Dissolved Nonpurgeable | mg/L | <0.5 | <0.5 | | 0.5 |
| Inorganic carbon | Total | mg/L | 61.0 | 61.2 | | 0.5 |
| Inorganic carbon | Dissolved | ma/L | 60.2 | 60.8 | | 0.5 |
| Ammonia - N | | ma/L | 0.02 | 0.15 | | 0.01 |
| Phosphorus | Total | ma/L | 0.011 | 0.011 | | 0.003 |
| Physical and Aggregate Pr | operties | 5 | | | | |
| Solids | Total Suspended | ma/L | 20.0 | 18.5 | | 2 |
| Solids | Total Dissolved | ma/L | 650 | 390 | | 5 |
| Routine Water | | ···g/ = | | | | - |
| pH - Holding Time | | | Exceeded | Exceeded | | |
| pH | at 25 °C | | 7.54 | 7.91 | | |
| Electrical Conductivity | | µS/cm at 25 | 893 | 600 | | 1 |
| Calcium | Discolved | °C ma/l | 120 | 110 | | 0.01 |
| Magnosium | Dissolved | mg/L | 120 | 20 | | 0.01 |
| Retossium | Dissolved | mg/L | 40 | 39 | | 0.02 |
| FuldSSium | Dissolved | mg/∟ | 2.0 | 2.0 | | 0.04 |
| Silicon | Dissolved | mg/L | 5.4 | 7.6 | | 0.005 |
| Sodium | Dissolved | mg/L | 14 | 8.8 | | 0.1 |
| Sulfur | Dissolved | mg/L | 87 | 53 | | 0.02 |
| Bicarbonate | | mg/L | 316 | 265 | | 5 |
| Carbonate | | mg/L | <6 | <6 | | 6 |
| Hydroxide | 0.000 | mg/L | <5 | <5 | | 5 |
| P-Alkalinity | as CaCO3 | mg/L | <5 | <5 | | 5 |
| T-Alkalinity | as CaCO3 | mg/L | 260 | 217 | | 5 |
| Bromide | Dissolved | mg/L | <0.20 | <0.20 | | 0.02 |
| Chloride | Dissolved | mg/L | 5.01 | 4.23 | | 0.05 |
| Fluoride | Dissolved | mg/L | 0.12 | <0.10 | | 0.01 |
| Nitrate - N | Dissolved | mg/L | <0.10 | <0.10 | | 0.01 |
| Nitrite - N | Dissolved | mg/L | <0.10 | <0.10 | | 0.01 |
| Sulfate (SO4) | Dissolved | mg/L | 269 | 121 | | 0.1 |
| Hardness | as CaCO3 (dissolved) | mg/L | 480 | 430 | | 5 |
| Trace Metals Dissolved | | | | | | |
| Digestion | Dissolved | | Field filtered and Pres Dissol | Field filtered and Pres Dissol | | |
| Titanium | Dissolved | mg/L | 0.021 | 0.019 | | 0.002 |

Analytical Report



| Bill To: | YTG DOE - Water Resources 202, 419 Range Road | Project: ID: | YOWN | Lot ID: | 1199062 |
|-------------|--|--------------------|--------------------------------------|--|------------------------------|
| | Whitehorse, YT, Canada Y1A 3V1 | Name: Location: | Congdon Creek CG Congdon Creek CG | Date Received: Apr 27, 2017 Date Reported: May 11, 2017 | Apr 27, 2017 May 11, 2017 |
| Attn: | Holly Goulding | LSD: | | Report Number: | 2185791 |
| Sampled By: | KP/DB | P.O.: | C00037999 | | |
| Company: | YG-Environment | Acct code: | | | |

| | | Reference Number Sample Date Sample Time Sample Location Sample Description | 1199062-2 Apr 25, 2017 14:44 2017047 / 3 °C / B | 1199062-3 Apr 25, 2017 16:05 2017048 / 3 °C / B | | |
|------------------------|----------------|---|--|--|---------|-------------------|
| | | Motrix | Weter | Motor | | |
| Analyta | | | Beculto | Populto | Poculto | Nominal Detection |
| Trees Metals Dissely | ad Cantinuad | Units | Results | Results | Results | Limit |
| I race Metals Dissolve | ed - Continued | | 0.004 | 0.000 | | 0.004 |
| Aluminum | Dissolved | mg/L | 0.001 | 0.002 | | 0.001 |
| Antimony | Dissolved | mg/L | 0.000093 | <0.000020 | | 0.00002 |
| Arsenic | Dissolved | mg/L | 0.0002 | 0.0051 | | 0.0001 |
| Barium | Dissolved | mg/L | 0.0684 | 0.1186 | | 0.0001 |
| Beryllium | Dissolved | mg/L | <0.000050 | <0.000050 | | 0.00005 |
| Bismuth | Dissolved | mg/L | <0.0001 | <0.0001 | | 0.0001 |
| Boron | Dissolved | mg/L | 0.426 | 0.366 | | 0.002 |
| Cadmium | Dissolved | mg/L | 0.000012 | 0.000012 | | 0.00001 |
| Chromium | Dissolved | mg/L | 0.000973 | 0.000348 | | 0.00005 |
| Cobalt | Dissolved | mg/L | 0.000026 | 0.000033 | | 0.00002 |
| Copper | Dissolved | mg/L | <0.0005 | <0.0005 | | 0.0005 |
| Iron | Dissolved | mg/L | 0.182 | 1.48 | | 0.002 |
| Lead | Dissolved | mg/L | 0.000147 | 0.000439 | | 0.00001 |
| Lithium | Dissolved | mg/L | 0.0047 | 0.0019 | | 0.0005 |
| Manganese | Dissolved | mg/L | 0.016 | 0.375 | | 0.001 |
| Molybdenum | Dissolved | mg/L | 0.001563 | 0.001457 | | 0.00002 |
| Nickel | Dissolved | mg/L | 0.0030 | 0.0003 | | 0.0002 |
| Selenium | Dissolved | mg/L | 0.0054 | 0.0003 | | 0.0002 |
| Silver | Dissolved | mg/L | <0.000010 | <0.000010 | | 0.00001 |
| Strontium | Dissolved | mg/L | 0.4103 | 0.4108 | | 0.0001 |
| Tellurium | Dissolved | mg/L | <0.000050 | <0.000050 | | 0.00005 |
| Thallium | Dissolved | mg/L | <0.000010 | <0.000010 | | 0.00001 |
| Thorium | Dissolved | mg/L | <0.000050 | <0.000050 | | 0.00005 |
| Tin | Dissolved | mg/L | <0.0001 | <0.0001 | | 0.0001 |
| Uranium | Dissolved | mg/L | 0.001909 | 0.000963 | | 0.00001 |
| Vanadium | Dissolved | mg/L | 0.000236 | 0.000285 | | 0.00005 |
| Zinc | Dissolved | mg/L | 0.0733 | 0.1125 | | 0.0005 |
| Zirconium | Dissolved | mg/L | <0.0001 | 0.0001 | | 0.0001 |
| Subcontracted Analy | sis | | | | | |
| Subcontractor Report | ld SRC | | Done | Done | | |

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Analytical Report



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: 1199062 | | |
|-------------|---------------------------|------------|------------------|-----------------------------|--------------|--|
| | 202, 419 Range Road | ID: | YOWN | Control Number: | | |
| | Whitehorse, YT, Canada | Name: | Congdon Creek CG | Date Received: Apr 27, 2017 | Apr 27, 2017 | |
| | Y1A 3V1 | Location: | Congdon Creek CG | | May 11, 2017 | |
| Attn: | Holly Goulding | LSD: | | Report Number: | 2185791 | |
| Sampled By: | KP/DB | P.O.: | C00037999 | | 2.00.01 | |
| Company: | YG-Environment | Acct code: | | | | |

| | Reference Number | 1199062-3 | | | |
|---|--------------------|--------------------|---------|---------|----------------------------|
| | Sample Date | Apr 25, 2017 | | | |
| | Sample Time | 16:05 | | | |
| | Sample Location | | | | |
| | Sample Description | 2017048 / 3 °C / B | | | |
| | Matrix | Water | | | |
| Analyte | Units | Results | Results | Results | Nominal Detection Limit |
| Mono-Aromatic Hydrocarbons - Water | | | | | |
| Benzene | μg/L | <0.5 | | | 0.5 |
| Ethylbenzene | μg/L | <0.5 | | | 0.5 |
| Methyl t-Butyl Ether | μg/L | <0.5 | | | 0.5 |
| Styrene | μg/L | <0.5 | | | 0.5 |
| Toluene | μg/L | <0.5 | | | 0.5 |
| Total Xylenes (m,p,o) | μg/L | <0.5 | | | 0.5 |
| Volatile Petroleum Hydrocarbons - Water | | | | | |
| VPHw (VHw6-10 minus BTEX) | µg/L | <50 | | | 50 |
| VHw6-10 | µg/L | <50 | | | 50 |

Mathier . ech Smis

Mathieu Simoneau **Operations Manager**

Data have been validated by Analytical Quality Control and Exova's Integrated Data Validation System (IDVS). Generation and distribution of the report, and approval by the digitized signature above, are performed through a secure and controlled automatic process.

Approved by:

Exova #104, 19575-55 A Ave. Surrey, British Columbia V3S 8P8, Canada

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Quality Control



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1199062 |
|-------------|---------------------------|------------|------------------|-----------------|-------------|
| | 202, 419 Range Road | ID: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Name: | Congdon Creek CG | Date Received: | Apr 27 2017 |
| | Y1A 3V1 | Location: | Congdon Creek CG | Date Reported: | May 11 2017 |
| Attn: | Holly Goulding | LSD: | | Report Number: | 2185791 |
| Sampled By: | KP/DB | P.O.: | C00037999 | report rumber. | 2100101 |
| Company: | YG-Environment | Acct code: | | | |

Inorganic Nonmetallic Parameters

| Blanks | Units | Measured | Lower Limit | Upper Limit | | Passed QC |
|-------------------|---------------|-------------|-------------|----------------|-------------------|-----------|
| Ammonium - N | μg/L | -5.429 | -110.00 | 10.00 | | yes |
| Phosphorus | mg/L | -0.0025 | -0.003 | 0.003 | | yes |
| Date Acquired: | May 01, 2017 | | | | | |
| Nitrogen | mg/L | 0.03854 | -0.04 | 0.08 | | yes |
| Organic Carbon | mg/L | 0.02797 | -0.5 | 0.5 | | yes |
| Inorganic carbon | mg/L | 0.1836 | -0.5 | 0.5 | | yes |
| Date Acquired: | May 02, 2017 | | | | | |
| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | | Passed QC |
| Ammonium - N | μg/L | 105.33 | 85 | 115 | | yes |
| Phosphorus | mg/L | 102.66 | 90 | 110 | | yes |
| Date Acquired: | May 01, 2017 | | | | | |
| Ammonium - N | µg/L | 118.68 | 70 | 130 | | yes |
| Phosphorus | mg/L | 103.00 | 80 | 120 | | yes |
| Date Acquired: | May 01, 2017 | | | | | |
| Client Sample Rep | licates Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Nitrogen | mg/L | 0.19 | 0.18 | 10 | 0.06 | yes |
| Organic Carbon | mg/L | 276 | 277 | 10 | 1.0 | yes |
| Inorganic carbon | mg/L | 61.0 | 60.9 | 10 | 1.0 | yes |
| Date Acquired: | May 02, 2017 | | | | | |
| Ammonia - N | mg/L | 19.9 | 19.9 | 20 | 50.00 | yes |
| Date Acquired: | May 03, 2017 | | | | | |
| Control Sample | Units | Measured | Lower Limit | Upper Limit | | Passed QC |
| Organic Carbon | mg/L | <0.5 | -0.5 | 0.5 | | yes |
| Date Acquired: | May 01, 2017 | | | | | |
| Nitrogen | mg/L | 125 | 103.74 | 137.28 | | yes |
| Organic Carbon | mg/L | 127 | 109.1 | 139.7 | | yes |
| Inorganic carbon | mg/L | 46.9 | 40.5 | 55.5 | | yes |
| Date Acquired: | May 02, 2017 | | | | | |
| Nitrogen | mg/L | 15.1 | 13.27 | 16.93 | | yes |
| Organic Carbon | mg/L | 15.1 | 12.8 | 17.2 | | yes |
| Inorganic carbon | mg/L | 15.6 | 14.1 | 18.3 | | yes |
| Date Acquired: | May 02, 2017 | | | | | |
| Nitrogen | mg/L | 1.04 | 0.89 | 1.25 | | yes |
| Organic Carbon | mg/L | 3.7 | 2.4 | 4.0 | | yes |
| Inorganic carbon | mg/L | 3.4 | 2.7 | 4.1 | | yes |
| Date Acquired: | May 02, 2017 | | | | | |
| Phosphorus | mg/L | 0.469 | 0.389 | 0.503 | | yes |
| Date Acquired: | May 01, 2017 | | | | | |

Metals Total

Quality Control



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: 1199062 Control Number: | |
|-------------|---------------------------|------------|------------------|---|--------------|
| | 202, 419 Range Road | ID: | YOWN | | |
| | Whitehorse, YT, Canada | Name: | Congdon Creek CG | Date Received: | Apr 27, 2017 |
| | Y1A 3V1 | Location: | Congdon Creek CG | Date Reported: | May 11, 2017 |
| Attn: | Holly Goulding | LSD: | | Report Number: | 2185791 |
| Sampled By: | KP/DB | P.O.: | C00037999 | | 2100101 |
| Company: | YG-Environment | Acct code: | | | |

Metals Total

| Blanks | Units | Measured | Lower Limit | Upper Limit | | Passed QC |
|----------------------|----------------|-------------|-------------|----------------|-------------------|-----------|
| Calcium | mg/L | -0.00101489 | -0.010 | 0.010 | | yes |
| Magnesium | mg/L | 0.00787671 | -0.020 | 0.020 | | yes |
| Potassium | mg/L | 0.00895563 | -0.040 | 0.040 | | yes |
| Silicon | mg/L | 0.00133071 | -0.005 | 0.005 | | yes |
| Sodium | mg/L | 0.0536421 | -0.099 | 0.099 | | yes |
| Date Acquired: | April 28, 2017 | | | | | |
| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | | Passed QC |
| Calcium | mg/L | 103.21 | 90 | 110 | | yes |
| Magnesium | mg/L | 105.24 | 90 | 110 | | yes |
| Potassium | mg/L | 103.16 | 90 | 110 | | yes |
| Silicon | mg/L | 102.63 | 90 | 110 | | yes |
| Sodium | mg/L | 102.68 | 90 | 110 | | yes |
| Titanium | mg/L | 99.37 | 90 | 110 | | yes |
| Date Acquired: | April 28, 2017 | | | | | |
| Calcium | mg/L | 104.50 | 90 | 110 | | yes |
| Magnesium | mg/L | 108.56 | 90 | 110 | | yes |
| Potassium | mg/L | 102.80 | 90 | 110 | | yes |
| Silicon | mg/L | 100.10 | 90 | 110 | | yes |
| Sodium | mg/L | 104.54 | 90 | 110 | | yes |
| Titanium | mg/L | 100.72 | 90 | 110 | | yes |
| Date Acquired: | April 28, 2017 | | | | | |
| Client Sample Replic | ates Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Calcium | mg/L | 200 | 190 | 20 | 0.050 | yes |
| Magnesium | mg/L | 9.6 | 9.4 | 20 | 0.050 | yes |
| Potassium | mg/L | 4.9 | 4.6 | 20 | 0.100 | yes |
| Silicon | mg/L | 4.4 | 4.3 | 20 | 0.100 | yes |
| Sodium | mg/L | 130 | 120 | 20 | 0.100 | yes |
| Date Acquired: | April 28, 2017 | | | | | |

Mono-Aromatic Hydrocarbons - Water

| Blanks | Units | Measured | Lower Limit | Upper Limit | Passed QC |
|-----------------------|----------|------------|-------------|-------------|-----------|
| Benzene | ng | 0 | -0.5 | 0.5 | yes |
| Ethylbenzene | ng | 0 | -0.5 | 0.5 | yes |
| Methyl t-Butyl Ether | ng | 0 | -0.5 | 0.5 | yes |
| m,p-Xylene | ng | 0 | -0.5 | 0.5 | yes |
| o-Xylene | ng | 0 | -0.5 | 0.5 | yes |
| Styrene | ng | 0 | -0.5 | 0.5 | yes |
| Toluene | ng | 0 | -0.5 | 0.5 | yes |
| Total Xylenes (m,p,o) | ng | 0 | -0.5 | 0.5 | yes |
| Date Acquired: May | 01, 2017 | | | | |
| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | Passed QC |

Quality Control



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1199062 | |
|-------------|---------------------------|------------|------------------|-----------------|--------------|--|
| | 202, 419 Range Road | ID: | YOWN | Control Number: | | |
| | Whitehorse, YT, Canada | Name: | Congdon Creek CG | Date Received: | Apr 27, 2017 | |
| | Y1A 3V1 | Location: | Congdon Creek CG | Date Reported: | May 11, 2017 | |
| Attn: | Holly Goulding | LSD: | | Report Number: | 2185791 | |
| Sampled By: | KP/DB | P.O.: | C00037999 | | 2100101 | |
| Company: | YG-Environment | Acct code: | | | | |

Mono-Aromatic Hydrocarbons - Water -

| Continued | | | | | | |
|-----------------------|----------|-------------|-------------|----------------|-------------------|-----------|
| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | | Passed QC |
| Benzene | ng | 112.58 | 75 | 125 | | yes |
| Ethylbenzene | ng | 109.81 | 75 | 125 | | yes |
| Methyl t-Butyl Ether | ng | 119.92 | 75 | 125 | | yes |
| m,p-Xylene | ng | 106.92 | 75 | 125 | | yes |
| o-Xylene | ng | 114.54 | 75 | 125 | | yes |
| Styrene | ng | 108.63 | 75 | 125 | | yes |
| Toluene | ng | 113.91 | 75 | 125 | | yes |
| Total Xylenes (m,p,o) | ng | 109.46 | 75 | 125 | | yes |
| Date Acquired: May 0 | 01, 2017 | | | | | |
| Replicates | Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Benzene | µg/L | <0.5 | <0.5 | 20 | 2.5 | yes |
| Ethylbenzene | µg/L | <0.5 | <0.5 | 20 | 2.5 | yes |
| Methyl t-Butyl Ether | µg/L | <0.5 | <0.5 | 20 | 2.5 | yes |
| m,p-Xylene | µg/L | <0.5 | <0.5 | 20 | 2.5 | yes |
| o-Xylene | µg/L | <0.5 | <0.5 | 20 | 2.5 | yes |
| Styrene | µg/L | <0.5 | <0.5 | 20 | 2.5 | yes |
| Toluene | µg/L | <0.5 | <0.5 | 20 | 2.5 | yes |
| Total Xylenes (m,p,o) | µg/L | <0.5 | <0.5 | 20 | 2.5 | yes |
| Date Acquired: May 0 | 01, 2017 | | | | | |
| Matrix Spike | Units | % Recovery | Lower Limit | Upper Limit | | Passed QC |
| Benzene | µg/L | 97 | 75 | 125 | | yes |
| Ethylbenzene | µg/L | 101 | 75 | 125 | | yes |
| Methyl t-Butyl Ether | µg/L | 105 | 75 | 125 | | yes |
| m,p-Xylene | µg/L | 100 | 75 | 125 | | yes |
| o-Xylene | µg/L | 106 | 75 | 125 | | yes |
| Styrene | µg/L | 97 | 75 | 125 | | yes |
| Toluene | µg/L | 109 | 75 | 125 | | yes |
| Total Xylenes (m,p,o) | µg/L | 102 | 75 | 125 | | yes |
| Date Acquired: May 0 | 01, 2017 | | | | | |

Physical and Aggregate Properties

| Passed QC | Absolute Criteria | % RSD Criteria | Replicate 2 | Replicate 1 | licates Units | Client Sample Repl |
|-----------|-------------------|----------------|-------------|-------------|---------------|--------------------|
| yes | 10.000 | 30 | 36.5 | 36.0 | mg/L | Solids |
| | | | | | May 02, 2017 | Date Acquired: |
| Passed QC | | Upper Limit | Lower Limit | Measured | Units | Control Sample |
| yes | | 575.000 | 263.000 | 380 | mg/L | Solids |
| | | | | | May 02, 2017 | Date Acquired: |
| yes | | 30.710 | 16.490 | 25.0 | mg/L | Solids |
| | | | | | May 02, 2017 | Date Acquired: |
| yes | | 5.001 | -5.001 | <5.0 | mg/L | Solids |
| - | | | | | - | |

Quality Control



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1199062 |
|-------------|---------------------------|------------|------------------|-----------------|-------------|
| | 202, 419 Range Road | ID: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Name: | Congdon Creek CG | Date Received: | Apr 27 2017 |
| | Y1A 3V1 | Location: | Congdon Creek CG | Date Reported: | May 11 2017 |
| Attn: | Holly Goulding | LSD: | - | Bale Reported. | 2195701 |
| Sampled By: | KP/DB | P.O.: | C00037999 | Report Number. | 2103791 |
| Company: | YG-Environment | Acct code: | | | |

Physical and Aggregate Properties -

| Continued | Unite | Measured | Lower Limit | Linner Limit | Passed OC |
|-------------------|-----------------------|-------------|-------------|--------------|-----------|
| | 01115 Mov 02, 2017 | Weasureu | Lower Linit | | rasseu QC |
| Date Acquired: | way 02, 2017 | | | | |
| Solids | mg/L | <2.0 | -5.010 | 5.010 | yes |
| Date Acquired: | May 02, 2017 | | | | |
| Routine Water | | | | | |
| Blanks | Units | Measured | Lower Limit | Upper Limit | Passed QC |
| Calcium | mg/L | -0.00731801 | -0.010 | 0.010 | yes |
| Magnesium | mg/L | -0.0146193 | -0.020 | 0.020 | yes |
| Potassium | mg/L | -0.0123724 | -0.040 | 0.040 | yes |
| Silicon | mg/L | 0.00419617 | -0.005 | 0.005 | yes |
| Sodium | mg/L | -0.00425553 | -0.099 | 0.099 | yes |
| Date Acquired: | April 28, 2017 | | | | |
| Bromide | mg/L | 0 | -0.099 | 0.099 | yes |
| Chloride | mg/L | 0.0117171 | -0.201 | 0.201 | yes |
| Fluoride | mg/L | 0.00406685 | -0.099 | 0.099 | yes |
| Nitrate - N | mg/L | 0.000858979 | -0.010 | 0.010 | yes |
| Nitrite - N | mg/L | 0 | -0.099 | 0.099 | yes |
| Sulfate (SO4) | mg/L | 0 | -0.990 | 0.990 | yes |
| Date Acquired: | April 28, 2017 | | | | |
| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | Passed QC |
| Calcium | mg/L | 98.22 | 90 | 110 | yes |
| Magnesium | mg/L | 101.35 | 90 | 110 | yes |
| Potassium | mg/L | 99.05 | 90 | 110 | yes |
| Silicon | mg/L | 98.61 | 90 | 110 | yes |
| Sodium | mg/L | 99.17 | 90 | 110 | yes |
| Date Acquired: | April 28, 2017 | | | | |
| Bromide | mg/L | 98.14 | 90 | 110 | yes |
| Chloride | mg/L | 102.88 | 85 | 115 | yes |
| Fluoride | mg/L | 90.47 | 85 | 115 | yes |
| Nitrate - N | mg/L | 103.70 | 85 | 115 | yes |
| Nitrite - N | mg/L | 98.09 | 90 | 110 | yes |
| Sulfate (SO4) | mg/L | 98.61 | 85 | 115 | yes |
| Date Acquired: | April 28, 2017 | | | | |
| Bromide | mg/L | 103.74 | 90 | 110 | yes |
| Chloride | mg/L | 102.92 | 90 | 110 | yes |
| Fluoride | mg/L | 103.96 | 89 | 109 | yes |
| Nitrate - N | mg/L | 103.05 | 88 | 108 | yes |
| Nitrite - N | mg/L | 103.06 | 90 | 118 | yes |
| Sulfate (SO4) | mg/L | 100.01 | 90 | 110 | yes |
| Date Acquired: | April 28, 2017 | | | | |

Exova T #104, 19575-55 A Ave. F Surrey, British Columbia E V3S 8P8, Canada V

Quality Control

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| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1199062 |
|-------------|---------------------------|------------|------------------|-----------------|-------------|
| | 202, 419 Range Road | ID: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Name: | Congdon Creek CG | Date Received: | Apr 27 2017 |
| | Y1A 3V1 | Location: | Congdon Creek CG | Date Reported: | May 11 2017 |
| Attn: | Holly Goulding | LSD: | | Report Number: | 2185791 |
| Sampled By: | KP/DB | P.O.: | C00037999 | rteport rumber. | 2100701 |
| Company: | YG-Environment | Acct code: | | | |

Routine Water - Continued

| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | | Passed QC |
|-----------------------|--------------------|-------------|-------------|----------------|-------------------|-----------|
| Calcium | mg/L | 101.30 | 90 | 110 | | yes |
| Magnesium | mg/L | 106.02 | 90 | 110 | | yes |
| Potassium | mg/L | 100.92 | 90 | 110 | | yes |
| Sodium | mg/L | 103.39 | 90 | 110 | | yes |
| Date Acquired: A | April 28, 2017 | | | | | |
| Certified Reference | Naterial Units | Measured | Target | Lower Limit | Upper Limit | Passed QC |
| T-Alkalinity | mg/L | 10 | 10 | 8 | 12 | yes |
| Date Acquired: A | April 29, 2017 | | | | | |
| Client Sample Replic | ates Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Calcium | mg/L | 17 | 17 | 30 | 1.000 | yes |
| Magnesium | mg/L | 5.8 | 5.7 | 30 | 1.000 | yes |
| Potassium | mg/L | 8.0 | 8.0 | 30 | 1.000 | yes |
| Silicon | mg/L | 7.6 | 7.5 | 30 | 0.150 | yes |
| Sodium | mg/L | 7.1 | 7.1 | 30 | 1.000 | yes |
| Sulfur | mg/L | 53 | 52 | 30 | 3.000 | yes |
| Date Acquired: A | April 28, 2017 | | | | | |
| Hardness | mg CaCO3/L | 530 | 520 | 20 | 1.000 | yes |
| Date Acquired: A | April 28, 2017 | | | | | |
| рН | | 6.26 | 6.25 | 10 | | yes |
| Electrical Conductivi | ity dS/m at 25 °C | 0.063 | 0.062 | 10 | 0.005 | yes |
| Bicarbonate | mg/L | 39 | 39 | 10 | 10 | yes |
| Hydroxide | mg/L | <5 | <5 | 10 | 10 | yes |
| P-Alkalinity | mg/L | <5 | <5 | 10 | 5 | yes |
| T-Alkalinity | mg/L | 32 | 32 | 10 | 5 | yes |
| Chloride | mg/L | 82.5 | 82.3 | 20 | 0.250 | yes |
| Date Acquired: A | April 28, 2017 | | | | | |
| Replicates | Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Chloride | mg/L | 1.32 | 1.34 | 6 | 0.010 | yes |
| Nitrate - N | mg/L | 0.349 | 0.326 | 12 | 0.050 | yes |
| Sulfate (SO4) | mg/L | 4.4 | 4.4 | 6 | 0.010 | yes |
| Date Acquired: A | April 28, 2017 | | | | | |
| Control Sample | Units | Measured | Lower Limit | Upper Limit | | Passed QC |
| рН | | 10.19 | 9.17 | 10.81 | | yes |
| Electrical Conductivi | ity µS/cm at 25 °C | 215 | 194 | 250 | | yes |
| P-Alkalinity | mg/L | 44 | 7 | 55 | | yes |
| T-Alkalinity | mg/L | 105 | 98 | 113 | | yes |
| Date Acquired: A | April 29, 2017 | | | | | |
| Нq | | 4.02 | 3.88 | 4.12 | | ves |
| , Date Acquired: A | April 29. 2017 | - | | | | , |
| nH | 1 -7 - | 7 05 | 7 89 | Q 10 | | Voc |
| μι | | 1.95 | 1.00 | 0.12 | | yes |

Quality Control



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1199062 |
|-------------|---------------------------|------------|------------------|-----------------|--------------|
| | 202, 419 Range Road | ID: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Name: | Congdon Creek CG | Date Received: | Apr 27, 2017 |
| | Y1A 3V1 | Location: | Congdon Creek CG | Date Reported: | May 11, 2017 |
| Attn: | Holly Goulding | LSD: | | Report Number: | 2185791 |
| Sampled By: | KP/DB | P.O.: | C00037999 | | |
| Company: | YG-Environment | Acct code: | | | |

Routine Water - Continued

| Control Sample | Units | Measured | Lower Limit | Upper Limit | Passed QC |
|-------------------|-----------------------|---------------|-------------|-------------|-----------|
| Date Acquired: | April 29, 2017 | | | | |
| Electrical Conduc | tivity µS/cm at 25 °C | 1390 | 1323 | 1503 | yes |
| Date Acquired: | April 29, 2017 | | | | |
| Trace Metals Dis | solved | | | | |
| Blanks | Units | Measured | Lower Limit | Upper Limit | Passed QC |
| Aluminum | μg/L | -0.31751 | -0.990 | 0.990 | yes |
| Antimony | μg/L | 0 | -0.020 | 0.020 | yes |
| Arsenic | μg/L | 0.00148743 | -0.099 | 0.099 | yes |
| Barium | μg/L | -0.00469461 | -0.099 | 0.099 | yes |
| Beryllium | μg/L | -0.00646584 | -0.050 | 0.050 | yes |
| Bismuth | μg/L | -0.00262303 | -0.099 | 0.099 | yes |
| Boron | μg/L | 0.853327 | -2.001 | 2.001 | yes |
| Cadmium | μg/L | -0.00236334 | -0.010 | 0.010 | yes |
| Chromium | μg/L | -0.00510735 | -0.050 | 0.050 | yes |
| Cobalt | μg/L | -0.00604224 | -0.020 | 0.020 | yes |
| Copper | μg/L | -0.00593573 | -0.050 | 0.050 | yes |
| Iron | μg/L | -0.0978715 | -2.001 | 2.001 | yes |
| Lead | μg/L | -0.0023426 | -0.010 | 0.010 | yes |
| Lithium | μg/L | -7.15646e-005 | -0.500 | 0.500 | yes |
| Manganese | μg/L | -0.0510571 | -0.990 | 0.990 | yes |
| Molybdenum | μg/L | -0.0096556 | -0.020 | 0.020 | yes |
| Nickel | μg/L | -0.0140298 | -0.200 | 0.200 | yes |
| Selenium | μg/L | -0.0170068 | -0.200 | 0.200 | yes |
| Silver | μg/L | -0.00431974 | -0.009 | 0.009 | yes |
| Tellurium | μg/L | 0 | -0.050 | 0.050 | yes |
| Thallium | µg/L | -0.00265395 | -0.010 | 0.010 | yes |
| Thorium | µg/L | -0.0310951 | -0.050 | 0.050 | yes |
| Tin | μg/L | -0.0055226 | -0.099 | 0.099 | yes |
| Titanium | μg/L | -0.024874 | -0.099 | 0.099 | yes |
| Uranium | μg/L | -0.00252242 | -0.010 | 0.010 | yes |
| Vanadium | µg/L | 0.0318959 | -0.050 | 0.050 | yes |
| Zinc | μg/L | -0.361792 | -0.500 | 0.500 | yes |
| Zirconium | µg/L | -0.0135997 | -0.099 | 0.099 | yes |
| Date Acquired: | April 28, 2017 | | | | |
| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | Passed QC |
| Titanium | mg/L | 96.58 | 90 | 110 | yes |
| Date Acquired: | April 28, 2017 | | | | |
| Aluminum | µg/L | 106.68 | 80 | 120 | yes |
| Antimony | µg/L | 98.02 | 90 | 110 | yes |
| Arsenic | μg/L | 98.53 | 90 | 110 | yes |
| | | | | | |

Exova #104, 19575-55 A Ave. Surrey, British Columbia V3S 8P8, Canada

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Quality Control



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1199062 |
|-------------|---------------------------|------------|------------------|----------------|--------------|
| | 202, 419 Range Road | ID: | YOWN | Control Number | |
| | Whitehorse, YT, Canada | Name: | Congdon Creek CG | Date Received: | Apr 27 2017 |
| | Y1A 3V1 | Location: | Congdon Creek CG | Date Reported: | May 11, 2017 |
| Attn: | Holly Goulding | LSD: | | Report Number: | 2185791 |
| Sampled By: | KP/DB | P.O.: | C00037999 | Report Number. | 2103731 |
| Company: | YG-Environment | Acct code: | | | |

Trace Metals Dissolved - Continued

| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | Passed QC |
|--------------------|--------------|------------|-------------|-------------|-----------|
| Barium | µg/L | 97.90 | 90 | 110 | yes |
| Beryllium | µg/L | 108.91 | 90 | 110 | yes |
| Boron | µg/L | 104.26 | 70 | 130 | yes |
| Cadmium | µg/L | 105.02 | 90 | 110 | yes |
| Chromium | µg/L | 106.56 | 90 | 110 | yes |
| Cobalt | µg/L | 102.57 | 90 | 110 | yes |
| Copper | µg/L | 105.71 | 90 | 110 | yes |
| Lead | µg/L | 104.94 | 90 | 110 | yes |
| Lithium | µg/L | 106.12 | 90 | 110 | yes |
| Molybdenum | µg/L | 97.65 | 90 | 110 | yes |
| Nickel | µg/L | 106.86 | 90 | 110 | yes |
| Selenium | µg/L | 109.57 | 90 | 110 | yes |
| Silver | µg/L | 109.46 | 90 | 110 | yes |
| Thorium | µg/L | 100.26 | 90 | 110 | yes |
| Tin | µg/L | 107.95 | 90 | 110 | yes |
| Titanium | µg/L | 102.64 | 90 | 110 | yes |
| Uranium | µg/L | 103.08 | 90 | 110 | yes |
| Vanadium | µg/L | 106.46 | 90 | 110 | yes |
| Zinc | µg/L | 102.37 | 90 | 110 | yes |
| Date Acquired: Apr | ʻil 28, 2017 | | | | |
| Aluminum | µg/L | 102.08 | 80 | 120 | yes |
| Antimony | μg/L | 101.80 | 90 | 110 | yes |
| Arsenic | µg/L | 96.84 | 90 | 110 | yes |
| Barium | μg/L | 98.57 | 90 | 110 | yes |
| Beryllium | µg/L | 105.43 | 90 | 110 | yes |
| Boron | μg/L | 102.19 | 80 | 120 | yes |
| Cadmium | µg/L | 108.47 | 90 | 110 | yes |
| Chromium | µg/L | 101.77 | 90 | 110 | yes |
| Cobalt | µg/L | 98.93 | 90 | 110 | yes |
| Copper | µg/L | 100.93 | 90 | 110 | yes |
| Lead | µg/L | 102.77 | 90 | 110 | yes |
| Lithium | µg/L | 100.22 | 90 | 110 | yes |
| Molybdenum | µg/L | 96.97 | 90 | 110 | yes |
| Nickel | µg/L | 103.23 | 90 | 110 | yes |
| Selenium | µg/L | 106.94 | 90 | 110 | yes |
| Silver | µg/L | 102.40 | 90 | 110 | yes |
| Thallium | µg/L | 106.50 | 90 | 110 | yes |
| Thorium | µg/L | 104.61 | 86 | 122 | yes |
| Tin | µg/L | 103.54 | 90 | 110 | yes |
| Titanium | µg/L | 98.68 | 90 | 110 | yes |
| Uranium | µg/L | 102.06 | 90 | 110 | yes |
| Vanadium | µg/L | 101.81 | 90 | 110 | yes |
| | | | | | - |

Quality Control



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1199062 |
|-------------|---------------------------|------------|------------------|-----------------|--------------|
| | 202, 419 Range Road | ID: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Name: | Congdon Creek CG | Date Received: | Apr 27, 2017 |
| | Y1A 3V1 | Location: | Congdon Creek CG | Date Reported: | May 11, 2017 |
| Attn: | Holly Goulding | LSD: | | Report Number: | 2185791 |
| Sampled By: | KP/DB | P.O.: | C00037999 | roportitumbor. | 2100101 |
| Company: | YG-Environment | Acct code: | | | |

Trace Metals Dissolved - Continued

| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | | Passed QC |
|----------------------|----------------|-------------|-------------|----------------|-------------------|-----------|
| Zinc | µg/L | 102.53 | 90 | 110 | | yes |
| Date Acquired: | April 28, 2017 | | | | | |
| Client Sample Replic | cates Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Aluminum | µg/L | 1 | 1 | 20 | 20.000 | yes |
| Antimony | µg/L | 0.325 | 0.434 | 20 | 1.000 | yes |
| Arsenic | µg/L | 0.6 | 0.6 | 20 | 1.000 | yes |
| Barium | µg/L | 66.4 | 67.2 | 20 | 5.000 | yes |
| Beryllium | µg/L | <0.050 | <0.050 | 20 | 1.000 | yes |
| Boron | µg/L | 7 | 8 | 20 | 5.000 | yes |
| Cadmium | µg/L | 0.270 | 0.282 | 20 | 0.500 | yes |
| Chromium | µg/L | 0.306 | 0.382 | 20 | 5.000 | yes |
| Cobalt | µg/L | <0.020 | 0.023 | 20 | 0.500 | yes |
| Copper | µg/L | 0.95 | 0.9 | 20 | 5.000 | yes |
| Iron | µg/L | <2 | <2 | 20 | 50.000 | yes |
| Lead | µg/L | 0.024 | 0.033 | 20 | 0.500 | yes |
| Lithium | µg/L | 3.6 | 3.6 | 20 | 5.000 | yes |
| Manganese | µg/L | <1 | <1 | 20 | 0.500 | yes |
| Molybdenum | µg/L | 0.962 | 0.961 | 20 | 0.500 | yes |
| Nickel | µg/L | 1.2 | 1.2 | 20 | 5.000 | yes |
| Selenium | µg/L | 1.9 | 1.8 | 20 | 0.500 | yes |
| Silver | µg/L | <0.010 | <0.010 | 20 | 0.500 | yes |
| Tellurium | µg/L | <0.050 | 0.071 | 20 | 0.500 | yes |
| Thallium | µg/L | <0.010 | 0.010 | 20 | 0.100 | yes |
| Thorium | µg/L | 0.068 | 0.109 | 20 | 0.100 | yes |
| Tin | µg/L | <0.1 | <0.1 | 20 | 0.500 | yes |
| Titanium | µg/L | <0.1 | <0.1 | 20 | 0.500 | yes |
| Uranium | µg/L | 0.660 | 0.659 | 20 | 0.100 | yes |
| Vanadium | µg/L | 0.387 | 0.381 | 20 | 0.500 | yes |
| Zinc | µg/L | 1.6 | 1.6 | 20 | 5.000 | yes |
| Zirconium | µg/L | <0.1 | 0.1 | 20 | 0.500 | yes |
| Date Acquired: | April 28, 2017 | | | | | |
| Titanium | mg/L | 0.019 | 0.018 | 30 | 0.012 | yes |
| Date Acquired: | April 28, 2017 | | | | | |

Trace Metals Total

| Blanks | Units | Measured | Lower Limit | Upper Limit | Passed QC |
|-----------|-------|-------------|-------------|-------------|-----------|
| Aluminum | µg/L | 0 | -0.990 | 0.990 | yes |
| Antimony | µg/L | -0.00301878 | -0.020 | 0.020 | yes |
| Arsenic | µg/L | 0.00650016 | -0.099 | 0.099 | yes |
| Barium | µg/L | 0.00986129 | -0.099 | 0.099 | yes |
| Beryllium | µg/L | 0.00776095 | -0.050 | 0.050 | yes |

Quality Control



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1199062 |
|-------------|---------------------------|------------|------------------|-----------------|--------------|
| | 202, 419 Range Road | ID: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Name: | Congdon Creek CG | Date Received: | Apr 27, 2017 |
| | Y1A 3V1 | Location: | Congdon Creek CG | Date Reported: | May 11, 2017 |
| Attn: | Holly Goulding | LSD: | | Report Number: | 2185791 |
| Sampled By: | KP/DB | P.O.: | C00037999 | | 2100101 |
| Company: | YG-Environment | Acct code: | | | |

Trace Metals Total - Continued

| Blanks | Units | Measured | Lower Limit | Upper Limit | Passed QC |
|-------------------|----------------|--------------|-------------|-------------|-----------|
| Bismuth | µg/L | -0.0131509 | -0.099 | 0.099 | yes |
| Boron | µg/L | -0.241318 | -2.001 | 2.001 | yes |
| Cadmium | µg/L | -0.000980141 | -0.010 | 0.010 | yes |
| Chromium | µg/L | -0.0053658 | -0.050 | 0.050 | yes |
| Cobalt | µg/L | -0.00174559 | -0.020 | 0.020 | yes |
| Copper | μg/L | 0.00818073 | -0.501 | 0.501 | yes |
| Iron | µg/L | 1.63412 | -2.001 | 2.001 | yes |
| Lead | µg/L | 0.0043936 | -0.010 | 0.010 | yes |
| Lithium | µg/L | -0.010028 | -0.501 | 0.501 | yes |
| Manganese | µg/L | -0.0386159 | -0.990 | 0.990 | yes |
| Molybdenum | µg/L | 0 | -0.020 | 0.020 | yes |
| Nickel | µg/L | -0.015894 | -0.201 | 0.201 | yes |
| Selenium | µg/L | 0.00198798 | -0.201 | 0.201 | yes |
| Silver | µg/L | -0.00178438 | -0.010 | 0.010 | yes |
| Strontium | µg/L | -0.0172826 | -0.099 | 0.099 | yes |
| Tellurium | µg/L | 0 | -0.050 | 0.050 | yes |
| Thallium | µg/L | -0.000444936 | -0.010 | 0.010 | yes |
| Thorium | µg/L | 0 | -0.050 | 0.050 | yes |
| Tin | µg/L | 0.0871984 | -0.099 | 0.099 | yes |
| Titanium | µg/L | 0 | -0.099 | 0.099 | yes |
| Uranium | µg/L | -0.00186244 | -0.099 | 0.099 | yes |
| Vanadium | µg/L | 0.0325869 | -0.050 | 0.050 | yes |
| Zinc | µg/L | -0.0362994 | -0.501 | 0.501 | yes |
| Zirconium | µg/L | -0.0672915 | -0.099 | 0.099 | yes |
| Date Acquired: | April 28, 2017 | | | | |
| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | Passed QC |
| Aluminum | µg/L | 105.65 | 80 | 120 | yes |
| Antimony | µg/L | 100.13 | 90 | 110 | yes |
| Arsenic | µg/L | 104.02 | 90 | 110 | yes |
| Barium | µg/L | 102.84 | 90 | 110 | yes |
| Beryllium | µg/L | 104.60 | 90 | 110 | yes |
| Boron | µg/L | 114.27 | 70 | 130 | yes |
| Cadmium | µg/L | 105.07 | 90 | 110 | yes |
| Chromium | μg/L | 104.17 | 90 | 110 | yes |
| Cobalt | µg/L | 108.66 | 90 | 110 | yes |
| Copper | µg/L | 107.89 | 90 | 110 | yes |
| Lead | µg/L | 109.42 | 90 | 110 | yes |
| Lithium | µg/L | 106.72 | 90 | 110 | yes |
| Molybdenum | µg/L | 103.61 | 90 | 110 | yes |
| Nickel | µg/L | 104.09 | 90 | 110 | yes |
| Selenium | µg/L | 105.78 | 90 | 110 | yes |
| Silver | μg/L | 106.91 | 90 | 110 | yes |
| | | | | | |

Quality Control



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1199062 |
|-------------|---------------------------|------------|------------------|-----------------|-------------|
| | 202, 419 Range Road | ID: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Name: | Congdon Creek CG | Date Received: | Apr 27 2017 |
| | Y1A 3V1 | Location: | Congdon Creek CG | Date Reported: | May 11 2017 |
| Attn: | Holly Goulding | LSD: | | Report Number: | 2185791 |
| Sampled By: | KP/DB | P.O.: | C00037999 | | 2100701 |
| Company: | YG-Environment | Acct code: | | | |

Trace Metals Total - Continued

| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | | Passed QC |
|-------------------|----------------|-------------|-------------|----------------|-------------------|-----------|
| Strontium | µg/L | 95.68 | 90 | 110 | | yes |
| Thallium | µg/L | 109.59 | 90 | 110 | | yes |
| Thorium | µg/L | 109.29 | 90 | 110 | | yes |
| Tin | µg/L | 99.14 | 90 | 110 | | yes |
| Titanium | µg/L | 106.51 | 90 | 110 | | yes |
| Uranium | µg/L | 107.70 | 90 | 110 | | yes |
| Vanadium | µg/L | 105.70 | 90 | 110 | | yes |
| Zinc | µg/L | 97.00 | 90 | 110 | | yes |
| Date Acquired: | April 28, 2017 | | | | | |
| Aluminum | μg/L | 101.40 | 80 | 120 | | yes |
| Antimony | µg/L | 90.51 | 90 | 110 | | yes |
| Arsenic | µg/L | 100.07 | 90 | 110 | | yes |
| Barium | µg/L | 96.79 | 90 | 110 | | yes |
| Beryllium | µg/L | 107.00 | 90 | 110 | | yes |
| Boron | µg/L | 99.97 | 80 | 120 | | yes |
| Cadmium | µg/L | 105.04 | 90 | 110 | | yes |
| Chromium | µg/L | 102.43 | 90 | 110 | | yes |
| Cobalt | µg/L | 102.38 | 90 | 110 | | yes |
| Copper | µg/L | 102.94 | 90 | 110 | | yes |
| Lead | µg/L | 104.64 | 90 | 110 | | yes |
| Lithium | µg/L | 105.15 | 90 | 110 | | yes |
| Molybdenum | µg/L | 100.09 | 90 | 110 | | yes |
| Nickel | µg/L | 100.10 | 90 | 110 | | yes |
| Selenium | µg/L | 104.93 | 90 | 110 | | yes |
| Silver | µg/L | 105.50 | 90 | 110 | | yes |
| Strontium | µg/L | 93.91 | 90 | 110 | | yes |
| Thallium | µg/L | 105.62 | 90 | 110 | | yes |
| Thorium | µg/L | 108.67 | 90 | 110 | | yes |
| Tin | µg/L | 101.22 | 90 | 110 | | yes |
| Titanium | µg/L | 98.65 | 90 | 110 | | yes |
| Uranium | µg/L | 105.40 | 90 | 110 | | yes |
| Vanadium | µg/L | 101.06 | 90 | 110 | | yes |
| Zinc | μg/L | 106.75 | 90 | 110 | | yes |
| Date Acquired: | April 28, 2017 | | | | | |
| Client Sample Rep | licates Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Aluminum | µg/L | 1 | 1 | 20 | 100.000 | yes |
| Antimony | µg/L | 0.21 | 0.31 | 20 | 2.000 | yes |
| Arsenic | µg/L | 2.6 | 2.6 | 20 | 2.000 | yes |
| Barium | μg/L | 97 | 97 | 20 | 10.000 | yes |
| Beryllium | μg/L | <0.050 | <0.050 | 20 | 0.400 | yes |
| Boron | μg/L | 8 | 8 | 20 | 40.000 | yes |
| Cadmium | μg/L | 0.075 | 0.074 | 20 | 0.100 | yes |

Quality Control



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1199062 |
|-------------|---------------------------|------------|------------------|----------------|-------------|
| | 202, 419 Range Road | ID: | YOWN | Control Number | |
| | Whitehorse, YT, Canada | Name: | Congdon Creek CG | Date Received: | Apr 27 2017 |
| | Y1A 3V1 | Location: | Congdon Creek CG | Date Reported: | May 11 2017 |
| Attn: | Holly Goulding | LSD: | | Report Number: | 2185791 |
| Sampled By: | KP/DB | P.O.: | C00037999 | Report Number. | 2100701 |
| Company: | YG-Environment | Acct code: | | | |

Trace Metals Total - Continued

| Client Sample Replicates | Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
|---------------------------------|---------|-------------|-------------|----------------|-------------------|-----------|
| Chromium | µg/L | <0.050 | <0.050 | 20 | 6.000 | yes |
| Cobalt | µg/L | 0.15 | 0.13 | 20 | 0.200 | yes |
| Copper | µg/L | 0.2 | 0.2 | 20 | 5.000 | yes |
| Iron | µg/L | 660 | 660 | 20 | 100.000 | yes |
| Lead | µg/L | 0.015 | 0.015 | 20 | 1.000 | yes |
| Lithium | µg/L | 3.6 | 3.6 | 20 | 10.000 | yes |
| Manganese | µg/L | 730 | 730 | 20 | 1.000 | yes |
| Molybdenum | µg/L | 6.4 | 6.6 | 20 | 0.200 | yes |
| Nickel | µg/L | 1.6 | 1.6 | 20 | 10.000 | yes |
| Selenium | µg/L | <0.2 | <0.2 | 20 | 5.000 | yes |
| Silver | µg/L | <0.010 | <0.010 | 20 | 0.100 | yes |
| Strontium | µg/L | 370 | 380 | 20 | 10.000 | yes |
| Tellurium | µg/L | 0.059 | <0.050 | 20 | 0.500 | yes |
| Thallium | µg/L | <0.010 | <0.010 | 20 | 0.100 | yes |
| Thorium | µg/L | 0.16 | 0.24 | 20 | 1.000 | yes |
| Tin | µg/L | <0.1 | <0.1 | 20 | 1.000 | yes |
| Titanium | µg/L | <0.1 | <0.1 | 20 | 1.000 | yes |
| Uranium | µg/L | 1.6 | 1.6 | 20 | 1.000 | yes |
| Vanadium | µg/L | 0.23 | 0.24 | 20 | 0.400 | yes |
| Zinc | µg/L | 0.9 | 1.0 | 20 | 10.000 | yes |
| Zirconium | µg/L | 0.2 | 0.2 | 20 | 1.000 | yes |
| Date Acquired: April 2 | 8, 2017 | | | | | |

Volatile Petroleum Hydrocarbons - Water

| Blanks | Units | Measured | Lower Limit | Upper Limit | | Passed QC |
|-------------------|--------------|-------------|-------------|----------------|-------------------|-----------|
| VPHw (VHw6-10 m | ninus ng | 10.797 | -50 | 50 | | yes |
| VHw6-10 | ng | 10.797 | -50 | 50 | | yes |
| Date Acquired: | May 01, 2017 | | | | | |
| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | | Passed QC |
| VHw6-10 | ng | 102.92 | 75 | 125 | | yes |
| Date Acquired: | May 01, 2017 | | | | | |
| Replicates | Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| VPHw (VHw6-10 m | ninus µg/L | <50 | <50 | 20 | 100 | yes |
| VHw6-10 | μg/L | <50 | <50 | 20 | 100 | yes |
| Date Acquired: | May 01, 2017 | | | | | |
| Matrix Spike | Units | % Recovery | Lower Limit | Upper Limit | | Passed QC |
| VHw6-10 | μg/L | 87 | 75 | 125 | | yes |
| Date Acquired: | May 01, 2017 | | | | | |

Methodology and Notes



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1199062 |
|-------------|---------------------------|------------|------------------|-----------------|--------------|
| | 202, 419 Range Road | ID: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Name: | Congdon Creek CG | Date Received: | Apr 27, 2017 |
| | Y1A 3V1 | Location: | Congdon Creek CG | Date Reported: | May 11, 2017 |
| Attn: | Holly Goulding | LSD: | | Report Number: | 2185791 |
| Sampled By: | KP/DB | P.O.: | C00037999 | | 2100701 |
| Company: | YG-Environment | Acct code: | | | |

Method of Analysis

| Method Name | Reference | Method | Date Analysis Started | Location |
|---|-----------|---|--------------------------|----------------------------------|
| Alk, pH, EC, Turb in water (Surrey) | APHA | * Alkalinity - Titration Method, 2320 B | 29-Apr-17 | Exova Surrey |
| Alk, pH, EC, Turb in water (Surrey) | APHA | * Conductivity, 2510 B | 29-Apr-17 | Exova Surrey |
| Alk, pH, EC, Turb in water (Surrey) | APHA | * pH - Electrometric Method, 4500-H+ B | 29-Apr-17 | Exova Surrey |
| Ammonia-N in Water (Surrey) | APHA | * Flow Injection Analysis, 4500-NH3 H | 03-May-17 | Exova Surrey |
| Anions by IEC in water (Surrey) | APHA | Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B | 28-Apr-17 | Exova Surrey |
| Anions by IEC in water (Surrey) | APHA | * Single-Column Ion Chromatography with Electronic Suppression, 4110 C | 28-Apr-17 | Exova Surrey |
| BTEX-VPH - Water (MS) (Surrey) | B.C.M.O.E | Volatile Hydrocarbons in Waters by GC/FID (April, 2007), CSR | 01-May-17 | Exova Surrey |
| BTEX-VPH - Water (MS) (Surrey) | BCELM | Volatile Hydrocarbons in Water by GC/FID, VH Water | 01-May-17 | Exova Surrey |
| Carbon Inorganic (Dissolved) in water(DIC) | APHA | High-Temperature Combustion Method, 5310 B | 02-May-17 | Exova Edmonton |
| Carbon Inorganic (Total) in water (TIC) | APHA | High-Temperature Combustion Method, 5310 B | 02-May-17 | Exova Edmonton |
| Carbon Organic (Dissolved) in water (DOC) | APHA | High-Temperature Combustion Method, 5310 B | 02-May-17 | Exova Edmonton |
| Carbon Organic (Total) in water (TOC) | APHA | High-Temperature Combustion Method, 5310 B | 01-May-17 | Exova Edmonton |
| Metals SemiTrace (Dissolved) in water (Surrey) | US EPA | * Metals & Trace Elements by ICP-AES, 6010C | 28-Apr-17 | Exova Surrey |
| Metals SemiTrace (Total) in Water (Surrey) | US EPA | * Metals & Trace Elements by ICP-AES, 6010C | 28-Apr-17 | Exova Surrey |
| Phosphorus - total by Smartchem (Surrey) | APHA | * Persulfate digestion method, 4500-P B5 | 02-May-17 | Exova Surrey |
| Solids Dissolved (Total, Fixed and Volatile) - Surrey | APHA | Total Dissolved Solids Dried at 180 C, 2540 C | 02-May-17 | Exova Surrey |
| Solids Suspended (Total, Fixed and Volatile) - Surrey | APHA | Total Suspended Solids Dried at 103- 105'C, 2540 D | 02-May-17 | Exova Surrey |
| Sublet to SRC Analytical | Ext. Lab | See attached test report, | 11-May-17 | Saskatchewan Research Council |
| Total and Kjeldahl Nitrogen (Total) in Water | ISO | * Water Quality - Determination of nitrogen, ISO/TR 11905-2 | 01-May-17 | Exova Edmonton |
| Trace Metals (dissolved) in Water (Surrey) | US EPA | Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8 | 28-Apr-17 | Exova Surrey |
| Trace Metals (Total) in Water (Surrey) | US EPA | * Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8 * Reference Method Modified | 28-Apr-17 | Exova Surrey |

References

| APHA | Standard Methods for the Examination of Water and Wastewater |
|-----------|--|
| B.C.M.O.E | B.C. Ministry of Environment |
Methodology and Notes



| Bill To: | YTG DOE - Water Resources 202, 419 Range Road | Project: ID: | YOWN | Lot ID: Control Number: | 1199062 |
|-------------|--|-----------------|------------------|----------------------------|--------------|
| | Whitehorse, YT, Canada | Name: | Congdon Creek CG | Date Received: | Apr 27, 2017 |
| | Y1A 3V1 | Location: | Congdon Creek CG | Date Reported: | May 11, 2017 |
| Attn: | Holly Goulding | LSD: | | Report Number: | 2185791 |
| Sampled By: | KP/DB | P.O.: | C00037999 | | |
| Company: | YG-Environment | Acct code: | | | |

| BCELM | B.C. Environmental Laboratory Manual |
|----------|---|
| Ext. Lab | External Laboratory |
| ISO | International Organization for Standardization |
| US EPA | US Environmental Protection Agency Test Methods |

Comments:

- Reduction of analytical volume was necessary for Trace Metals analysis to bring results within the analytical range for samples #1199062-1 through 3. Detection limits are adjusted accordingly.
- Radium analysis was performed by a subcontract laboratory. See attached 2 page report 2017-4779.
- Sample 1199062-2; 5702348 Reduction of analytical volume was necessary for anions due to matrix effects in sample 1199062-2 and 1199062-3. Detection limits are adjusted accordingly.



www.src.sk.ca/analytical

SRC Group # 2017-4779

May 11, 2017

EXOVA 104-19575 55A Avenue Surrey, BC V3S 8P8 Attn: Client Services

Date Samples Received: May-01-2017

Client P.O.: POC102713

All results have been reviewed and approved by a Qualified Person in accordance with the Saskatchewan Environmental Code, Corrective Action Plan Chapter, for the purposes of certifying a laboratory analysis

Results from Lab Sections 1 and 2 have been authorized by Keith Gipman, Supervisor Results from Lab Section 3 have been authorized by Pat Moser, Supervisor Results from Lab Sections 4 and 5 have been authorized by Vicky Snook, Supervisor Results from Lab Section 6 have been authorized by Marion McConnell, Supervisor

* Test methods and data are validated by the laboratory's Quality Assurance Program.

* Routine methods follow recognized procedures from sources such as

* Standard Methods for the Examination of Water and Wastewater APHA AWWA WEF

* Environment Canada

* US EPA

* CANMET

* The results reported relate only to the test samples as provided by the client.

* Samples will be kept for 30 days after the final report is sent. Please contact the lab if you have any special requirements.

* Additional information is available upon request.

This is a final report.



www.src.sk.ca/analytical

SRC Group # 2017-4779 May 11, 2017

EXOVA

104-19575 55A Avenue Surrey, BC V3S 8P8 Attn: Client Services

Date Samples Received: May-01-2017

Client P.O.: POC102713

1532704/25/2017 1199062-2 B 2017047 *WATER*1532804/25/2017 1199062-3 B 2017048 *WATER*

| Analyte | Units | 15327 | 15328 | |
|------------------------------|-------|-------|-------|--|
| Lab Section 4 (Radiochemisti | ry) | | | |
| Radium-226 | Bq/L | 0.01 | 0.01 | |

Report Transmission Cover Page



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1200559 |
|-------------|---------------------------|------------|-----------|-----------------|--------------|
| | 202, 419 Range Road | ID: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Name: | Faro Area | Date Received: | May 5, 2017 |
| | Y1A 3V1 | Location: | Faro Area | Date Reported: | May 24, 2017 |
| Attn: | Holly Goulding | LSD: | | Report Number: | 2187867 |
| Sampled By: | Katie Pfeifer/KN | P.O.: | | | |
| Company: | YG - Environment | Acct code: | | | |

| Contact & Affiliation | Address | Delivery Commitments |
|---|---|---|
| John Miller YTG DOE - Water Resources | 202, 419 Range Road Whitehorse, Yukon Territory Y1A 3V1 Phone: (867) 667-3233 Fax: (867) 667-3194 Email: john.miller@gov.yk.ca | On [Lot Verification] send (COA) by Email - Single Report On [Report Approval] send (COC, Test Report) by Email - Multiple Reports By Lot On [Report Approval] send (Test Report) by Email - Multiple Reports By Lot On [Lot Creation] send (COR) by Email - Single Report |
| Holly Goulding YTG DOE - Water Resources | 202, 419 Range Road Whitehorse, Yukon Territory Y1A 3V1 Phone: (867) 456-6583 Fax: (867) 667-3194 Email: holly.goulding@gov.yk.ca | On [Report Approval] send (COC, Test Report) by Email - Merge Reports On [Report Approval] send (Test Report) by Email - Single Report |
| Tyler Williams YTG DOE - Water Resources | 202, 419 Range Road Whitehorse, Yukon Territory Y1A 3V1 Phone: (867) 667-3233 Fax: (867) 667-3194 Email: Tyler.Williams@gov.yk.ca | On [Report Approval] send (Test Report) by Email - Multiple Reports By Lot On [Report Approval] send (Test Report, COC) by Email - Multiple Reports By Lot |

Notes To Clients:

- Reduction of analytical volume was necessary for Trace Metals analysis to bring results within the analytical range for samples #1200559-1 through 4. Detection limits are adjusted accordingly.
- RA226 analysis was performed by a subcontract laboratory. See attached 3 page report 2017-5029.
- Sample 1200559-1; 5708512 Reduction of analytical volume was necessary for anions due to matrix effects in sample 1200559-1, and 1200559-4. Detection limits are adjusted accordingly.
- Sample 1200559-1; 5708512 Reduction of analytical volume was necessary for sulfate to bring results within the analytical range for sample 1200559-1 and 1200559-4. Detection limits are adjusted accordingly.
- Sample 1200559-2; 5708513 Reduction of analytical volume was necessary for nitrate due to matrix effects in sample 1200559-2 and 1200559-3. Detection limits are adjusted accordingly.

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Analytical Report



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1200559 |
|-------------|---------------------------|------------|-----------|-----------------|--------------|
| | 202, 419 Range Road | ID: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Name: | Faro Area | Date Received: | May 5, 2017 |
| | Y1A 3V1 | Location: | Faro Area | Date Reported: | May 24, 2017 |
| Attn: | Holly Goulding | LSD: | | Report Number: | 2187867 |
| Sampled By: | Katie Pfeifer/KN | P.O.: | | | |
| Company: | YG - Environment | Acct code: | | | |

| | Refe | erence Number Sample Date Sample Time ample Location | 1200559-1 May 03, 2017 09:35 | 1200559-2 May 03, 2017 11:50 | 1200559-3 May 03, 2017 13:20 | |
|--------------------------|------------------------|---|------------------------------------|------------------------------------|------------------------------------|----------------------------|
| | Sam | ple Description | 2017054 / B | 2017055 / B | 2017056 / B | |
| | | Matrix | Water | Water | Water | |
| Analyte | | Units | Results | Results | Results | Nominal Detection Limit |
| Inorganic Nonmetallic Pa | arameters | | | | | |
| Nitrogen | Total | mg/L | 0.44 | 0.15 | 0.31 | 0.06 |
| Organic Carbon | Total Nonpurgeable | mg/L | 2.4 | 0.7 | 1.3 | 0.5 |
| Organic Carbon | Dissolved Nonpurgeable | mg/L | 1.9 | <0.5 | 1.0 | 0.5 |
| Inorganic carbon | Total | mg/L | 75.4 | 23 | 46 | 0.5 |
| Inorganic carbon | Dissolved | mg/L | 75.3 | 23 | 46 | 0.5 |
| Ammonia - N | | mg/L | 0.07 | 0.01 | 0.02 | 0.01 |
| Phosphorus | Total | mg/L | 0.015 | 0.170 | 0.101 | 0.003 |
| Metals Total | | | | | | |
| Calcium | Total | mg/L | 210 | 31 | 69 | 0.01 |
| Magnesium | Total | mg/L | 190 | 6.5 | 10 | 0.02 |
| Potassium | Total | mg/L | 6.5 | 0.79 | 1.8 | 0.04 |
| Silicon | Total | mg/L | 11 | 4.6 | 4.6 | 0.005 |
| Sulfur | Total | mg/L | 310 | 2.4 | 8.4 | 0.02 |
| Sodium | Total | mg/L | 16 | 1.9 | 2.4 | 0.1 |
| Titanium | Total | mg/L | 0.042 | 0.026 | 0.013 | 0.002 |
| Physical and Aggregate | Properties | Ū | | | | |
| Solids | Total Suspended | mg/L | 177 | 11.0 | 10.5 | 2 |
| Solids | Total Dissolved | mg/L | 1700 | 180 | 220 | 5 |
| Routine Water | | Ū | | | | |
| pH - Holding Time | | | Exceeded | Exceeded | Exceeded | |
| рН | at 25 °C | | 7.68 | 7.82 | 7.62 | |
| Electrical Conductivity | | µS/cm at 25 °C | 1848 | 178 | 375 | 1 |
| Calcium | Dissolved | mg/L | 210 | 27 | 64 | 0.01 |
| Magnesium | Dissolved | mg/L | 170 | 5.6 | 9.2 | 0.02 |
| Potassium | Dissolved | mg/L | 5.9 | 0.62 | 1.6 | 0.04 |
| Silicon | Dissolved | mg/L | 6.1 | 3.5 | 4.2 | 0.005 |
| Sodium | Dissolved | mg/L | 15 | 1.7 | 1.7 | 0.1 |
| Sulfur | Dissolved | mg/L | 300 | 2.3 | 7.8 | 0.02 |
| Bicarbonate | | mg/L | 372 | 113 | 227 | 5 |
| Carbonate | | mg/L | <6 | <6 | <6 | 6 |
| Hydroxide | | mg/L | <5 | <5 | <5 | 5 |
| P-Alkalinity | as CaCO3 | mg/L | <5 | <5 | <5 | 5 |
| T-Alkalinity | as CaCO3 | mg/L | 305 | 92 | 186 | 5 |
| Bromide | Dissolved | mg/L | <0.20 | <0.020 | <0.020 | 0.02 |
| Chloride | Dissolved | mg/L | 1.30 | 0.072 | 2.20 | 0.05 |

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| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1200559 |
|-------------|---------------------------|------------|-----------|-----------------|--------------|
| | 202, 419 Range Road | ID: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Name: | Faro Area | Date Received: | May 5, 2017 |
| | Y1A 3V1 | Location: | Faro Area | Date Reported: | May 24, 2017 |
| Attn: | Holly Goulding | LSD: | | Report Number: | 2187867 |
| Sampled By: | Katie Pfeifer/KN | P.O.: | | | |
| Company: | YG - Environment | Acct code: | | | |

| | | Reference Number Sample Date Sample Time | 1200559-1 May 03, 2017 09:35 | 1200559-2 May 03, 2017 11:50 | 1200559-3 May 03, 2017 13:20 | |
|---------------------------|---------------------|--|------------------------------------|------------------------------------|------------------------------------|-------------------|
| | : | Sample Location Sample Description | 2017054 / B | 2017055 / B | 2017056 / B | |
| | | Matrix | Water | Water | Water | |
| Analyte | | Units | Results | Results | Results | Nominal Detection |
| Routine Water - Continued | | | | | | Lintt |
| Fluoride | Dissolved | mg/L | 0.25 | 0.054 | 0.111 | 0.01 |
| Nitrate - N | Dissolved | mg/L | <0.10 | <0.10 | 0.17 | 0.01 |
| Nitrite - N | Dissolved | mg/L | <0.10 | <0.010 | <0.010 | 0.01 |
| Sulfate (SO4) | Dissolved | mg/L | 900 | 5.9 | 23.0 | 0.1 |
| Hardness | as CaCO3 (dissolved |) mg/L | 1240 | 89 | 200 | 5 |
| Trace Metals Dissolved | , | , 0 | | | | |
| Digestion | Dissolved | | Field filtered and Pres Dissol | Field filtered and Pres Dissol | Field filtered and Pres Dissol | |
| Titanium | Dissolved | mg/L | 0.028 | 0.005 | 0.012 | 0.002 |
| Aluminum | Dissolved | mg/L | 0.002 | <0.001 | <0.001 | 0.001 |
| Antimony | Dissolved | mg/L | 0.000056 | 0.000055 | 0.000091 | 0.00002 |
| Arsenic | Dissolved | mg/L | 0.0050 | 0.0003 | 0.0003 | 0.0001 |
| Barium | Dissolved | mg/L | 0.0053 | 0.0814 | 0.0425 | 0.0001 |
| Beryllium | Dissolved | mg/L | <0.000050 | <0.000050 | <0.000050 | 0.00005 |
| Bismuth | Dissolved | mg/L | <0.0001 | <0.0001 | <0.0001 | 0.0001 |
| Boron | Dissolved | mg/L | 0.022 | <0.002 | <0.002 | 0.002 |
| Cadmium | Dissolved | mg/L | 0.000057 | <0.000010 | 0.000016 | 0.00001 |
| Chromium | Dissolved | mg/L | <0.000050 | 0.000236 | 0.000073 | 0.00005 |
| Cobalt | Dissolved | mg/L | 0.001115 | 0.000021 | 0.000069 | 0.00002 |
| Copper | Dissolved | mg/L | <0.0005 | <0.0005 | <0.0005 | 0.0005 |
| Iron | Dissolved | mg/L | 1.58 | 0.016 | 0.072 | 0.002 |
| Lead | Dissolved | mg/L | 0.000191 | 0.000053 | 0.000024 | 0.00001 |
| Lithium | Dissolved | mg/L | 0.0349 | 0.0009 | 0.0008 | 0.0005 |
| Manganese | Dissolved | mg/L | 0.263 | 0.005 | 0.012 | 0.001 |
| Molybdenum | Dissolved | mg/L | 0.006841 | 0.000640 | 0.001280 | 0.00002 |
| Nickel | Dissolved | mg/L | 0.0062 | 0.0002 | 0.0006 | 0.0002 |
| Selenium | Dissolved | mg/L | <0.0002 | <0.0002 | 0.0007 | 0.0002 |
| Silver | Dissolved | mg/L | 0.000017 | <0.000010 | <0.000010 | 0.00001 |
| Strontium | Dissolved | mg/L | 0.9592 | 0.0804 | 0.1492 | 0.0001 |
| Tellurium | Dissolved | mg/L | 0.000071 | <0.000050 | <0.000050 | 0.00005 |
| Thallium | Dissolved | mg/L | <0.000010 | <0.000010 | <0.000010 | 0.00001 |
| Thorium | Dissolved | mg/L | 0.000202 | <0.000050 | <0.000050 | 0.00005 |
| Tin | Dissolved | mg/L | <0.0001 | <0.0001 | <0.0001 | 0.0001 |
| Uranium | Dissolved | mg/L | 0.06116 | 0.000675 | 0.003402 | 0.00001 |
| Vanadium | Dissolved | mg/L | <0.000050 | 0.000140 | <0.000050 | 0.00005 |
| Zinc | Dissolved | mg/L | 1.451 | 0.0186 | 0.0250 | 0.0005 |



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1200559 |
|-------------|---------------------------|------------|-----------|-----------------|--------------|
| | 202, 419 Range Road | ID: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Name: | Faro Area | Date Received: | May 5, 2017 |
| | Y1A 3V1 | Location: | Faro Area | Date Reported: | May 24, 2017 |
| Attn: | Holly Goulding | LSD: | | Report Number: | 2187867 |
| Sampled By: | Katie Pfeifer/KN | P.O.: | | | |
| Company: | YG - Environment | Acct code: | | | |

| | | Reference Number Sample Date Sample Time Sample Location | 1200559-1 May 03, 2017 09:35 | 1200559-2 May 03, 2017 11:50 | 1200559-3 May 03, 2017 13:20 | |
|----------------------------|-----------|---|------------------------------------|------------------------------------|------------------------------------|----------------------------|
| | | Sample Description | 2017054 / B | 2017055 / B | 2017056 / B | |
| | | Matrix | Water | Water | Water | |
| Analyte | | Units | Results | Results | Results | Nominal Detection Limit |
| Trace Metals Dissolved - 0 | Continued | | | | | |
| Zirconium | Dissolved | mg/L | 0.0003 | <0.0001 | <0.0001 | 0.0001 |
| Trace Metals Total | | | | | | |
| Aluminum | Total | mg/L | 0.45 | 0.40 | 0.029 | 0.001 |
| Antimony | Total | mg/L | 0.00070 | 0.00010 | 0.00017 | 0.00002 |
| Arsenic | Total | mg/L | 0.22 | 0.0008 | 0.0008 | 0.0001 |
| Barium | Total | mg/L | 0.038 | 0.12 | 0.049 | 0.0001 |
| Beryllium | Total | mg/L | 0.00023 | 0.000051 | <0.000050 | 0.00005 |
| Bismuth | Total | mg/L | <0.0001 | <0.0001 | <0.0001 | 0.0001 |
| Boron | Total | mg/L | 0.020 | <0.002 | <0.002 | 0.002 |
| Cadmium | Total | mg/L | 0.00097 | 0.000086 | 0.000055 | 0.00001 |
| Chromium | Total | mg/L | 0.0024 | 0.0013 | 0.0022 | 0.00005 |
| Cobalt | Total | mg/L | 0.0016 | 0.00043 | 0.00033 | 0.00002 |
| Copper | Total | mg/L | 0.0058 | 0.0041 | 0.0069 | 0.0002 |
| Iron | Total | mg/L | 29 | 6.1 | 5.1 | 0.002 |
| Lead | Total | mg/L | 0.032 | 0.0026 | 0.0017 | 0.00001 |
| Lithium | Total | mg/L | 0.036 | 0.0017 | 0.0008 | 0.0005 |
| Manganese | Total | mg/L | 0.31 | 0.078 | 0.037 | 0.001 |
| Molybdenum | Total | mg/L | 0.0064 | 0.00062 | 0.0016 | 0.00002 |
| Nickel | Total | mg/L | 0.0093 | 0.0017 | 0.0033 | 0.0002 |
| Selenium | Total | mg/L | 0.0019 | <0.0002 | 0.0006 | 0.0002 |
| Silver | Total | mg/L | 0.000016 | <0.000010 | <0.000010 | 0.00001 |
| Strontium | Total | mg/L | 1.0 | 0.093 | 0.16 | 0.0001 |
| Tellurium | Total | mg/L | <0.000050 | <0.000050 | <0.000050 | 0.00005 |
| Thallium | Total | mg/L | 0.000020 | <0.000010 | <0.000010 | 0.00001 |
| Thorium | Total | mg/L | 0.00039 | 0.00020 | <0.000050 | 0.00005 |
| Tin | Total | mg/L | 0.0002 | 0.0002 | 0.0004 | 0.0001 |
| Uranium | Total | mg/L | 0.074 | 0.00076 | 0.0034 | 0.00001 |
| Vanadium | Total | mg/L | 0.0031 | 0.0016 | 0.00010 | 0.00005 |
| Zinc | Total | mg/L | 6.0 | 0.27 | 0.32 | 0.0005 |
| Zirconium | Total | mg/L | 0.0011 | 0.0008 | <0.0001 | 0.0001 |
| Subcontracted Analysis | | | | | | |
| Subcontractor Report Id | SRC | | Done | Done | Done | |



| Bill To: | YTG DOE - Water Resources 202, 419 Range Road | Project: ID: | YOWN | Lot ID: Control Number: | 1200559 |
|-------------|--|-----------------|-----------|----------------------------|--------------|
| | Whitehorse, YT, Canada | Name: | Faro Area | Date Received: | May 5, 2017 |
| | Y1A 3V1 | Location: | Faro Area | Date Reported: | May 24, 2017 |
| Attn: | Holly Goulding | LSD: | | Report Number: | 2187867 |
| Sampled By: | Katie Pfeifer/KN | P.O.: | | · · | |
| Company: | YG - Environment | Acct code: | | | |

| | R | eference Number Sample Date Sample Time Sample Location mple Description | 1200559-4 May 02, 2017 NA 2017057 / B | | | |
|--------------------------|-----------------------|--|--|---------|---------|-------------------|
| | | Matrix | Water | | | |
| Analyte | | Units | Results | Results | Results | Nominal Detection |
| Inorganic Nonmetallic Pa | arameters | | | | | Linit |
| Nitrogen | Total | mg/L | 0.19 | | | 0.06 |
| Organic Carbon | Total Nonpurgeable | mg/L | 1.4 | | | 0.5 |
| Organic Carbon | Dissolved Nonpurgeabl | e mg/L | 1.0 | | | 0.5 |
| Inorganic carbon | Total | mg/L | 36 | | | 0.5 |
| Inorganic carbon | Dissolved | mg/L | 36 | | | 0.5 |
| Ammonia - N | | mg/L | 0.09 | | | 0.01 |
| Phosphorus | Total | mg/L | 0.045 | | | 0.003 |
| Metals Total | | - | | | | |
| Calcium | Total | mg/L | 190 | | | 0.01 |
| Magnesium | Total | mg/L | 130 | | | 0.02 |
| Potassium | Total | mg/L | 3.2 | | | 0.04 |
| Silicon | Total | mg/L | 8.4 | | | 0.005 |
| Sulfur | Total | mg/L | 300 | | | 0.02 |
| Sodium | Total | mg/L | 55 | | | 0.1 |
| Titanium | Total | mg/L | 0.11 | | | 0.002 |
| Physical and Aggregate | Properties | - | | | | |
| Solids | Total Suspended | mg/L | 31.0 | | | 2 |
| Solids | Total Dissolved | mg/L | 1400 | | | 5 |
| Routine Water | | | | | | |
| pH - Holding Time | | | Exceeded | | | |
| рН | at 25 °C | | 7.50 | | | |
| Electrical Conductivity | | µS/cm at 25 ℃ | 1645 | | | 1 |
| Calcium | Dissolved | mg/L | 170 | | | 0.01 |
| Magnesium | Dissolved | mg/L | 120 | | | 0.02 |
| Potassium | Dissolved | mg/L | 2.4 | | | 0.04 |
| Silicon | Dissolved | mg/L | 3.9 | | | 0.005 |
| Sodium | Dissolved | mg/L | 49 | | | 0.1 |
| Sulfur | Dissolved | mg/L | 280 | | | 0.02 |
| Bicarbonate | | mg/L | 179 | | | 5 |
| Carbonate | | mg/L | <6 | | | 6 |
| Hydroxide | | mg/L | <5 | | | 5 |
| P-Alkalinity | as CaCO3 | mg/L | <5 | | | 5 |
| T-Alkalinity | as CaCO3 | mg/L | 147 | | | 5 |
| Bromide | Dissolved | mg/L | <0.20 | | | 0.02 |
| Chloride | Dissolved | mg/L | 4.72 | | | 0.05 |



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1200559 |
|-------------|---------------------------|------------|-----------|-----------------|--------------|
| | 202, 419 Range Road | ID: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Name: | Faro Area | Date Received: | May 5, 2017 |
| | Y1A 3V1 | Location: | Faro Area | Date Reported: | May 24, 2017 |
| Attn: | Holly Goulding | LSD: | | Report Number: | 2187867 |
| Sampled By: | Katie Pfeifer/KN | P.O.: | | | |
| Company: | YG - Environment | Acct code: | | | |

| | | Reference Number Sample Date Sample Time Sample Location Sample Description | 1200559-4 May 02, 2017 NA 2017057 / B | | | |
|---------------------------|---------------------|---|--|---------|---------|-------------------|
| | | Matrix | Water | | | |
| Analyte | | Units | Results | Results | Results | Nominal Detection |
| Routine Water - Continued | | | | | | Linit |
| Fluoride | Dissolved | mg/L | <0.10 | | | 0.01 |
| Nitrate - N | Dissolved | mg/L | <0.10 | | | 0.01 |
| Nitrite - N | Dissolved | mg/L | <0.10 | | | 0.01 |
| Sulfate (SO4) | Dissolved | mg/L | 850 | | | 0.1 |
| Hardness | as CaCO3 (dissolved | d) mg/L | 900 | | | 5 |
| Trace Metals Dissolved | , , | , 0 | | | | |
| Digestion | Dissolved | | Field filtered and Pres Dissol | | | |
| Titanium | Dissolved | mg/L | 0.024 | | | 0.002 |
| Aluminum | Dissolved | mg/L | <0.001 | | | 0.001 |
| Antimony | Dissolved | mg/L | <0.000020 | | | 0.00002 |
| Arsenic | Dissolved | mg/L | 0.0011 | | | 0.0001 |
| Barium | Dissolved | mg/L | 0.0077 | | | 0.0001 |
| Beryllium | Dissolved | mg/L | <0.000050 | | | 0.00005 |
| Bismuth | Dissolved | mg/L | <0.0001 | | | 0.0001 |
| Boron | Dissolved | mg/L | 0.024 | | | 0.002 |
| Cadmium | Dissolved | mg/L | <0.000010 | | | 0.00001 |
| Chromium | Dissolved | mg/L | 0.000089 | | | 0.00005 |
| Cobalt | Dissolved | mg/L | 0.000146 | | | 0.00002 |
| Copper | Dissolved | mg/L | <0.0005 | | | 0.0005 |
| Iron | Dissolved | mg/L | 2.95 | | | 0.002 |
| Lead | Dissolved | mg/L | <0.000010 | | | 0.00001 |
| Lithium | Dissolved | mg/L | 0.0065 | | | 0.0005 |
| Manganese | Dissolved | mg/L | 0.163 | | | 0.001 |
| Molybdenum | Dissolved | mg/L | 0.002205 | | | 0.00002 |
| Nickel | Dissolved | mg/L | 0.0004 | | | 0.0002 |
| Selenium | Dissolved | mg/L | <0.0002 | | | 0.0002 |
| Silver | Dissolved | mg/L | <0.000010 | | | 0.00001 |
| Strontium | Dissolved | mg/L | 2.166 | | | 0.0001 |
| Tellurium | Dissolved | mg/L | <0.000050 | | | 0.00005 |
| Thallium | Dissolved | mg/L | <0.000010 | | | 0.00001 |
| Thorium | Dissolved | mg/L | 0.000094 | | | 0.00005 |
| Tin | Dissolved | mg/L | <0.0001 | | | 0.0001 |
| Uranium | Dissolved | mg/L | 0.001401 | | | 0.00001 |
| Vanadium | Dissolved | mg/L | <0.000050 | | | 0.00005 |
| Zinc | Dissolved | mg/L | 0.3526 | | | 0.0005 |



| Bill To: | YTG DOE - Water Resources 202, 419 Range Road | Project: ID: | YOWN | Lot ID: Control Number: | 1200559 |
|-------------------------|--|---------------------|------------------------|----------------------------|-------------|
| | Whitehorse, YT, Canada Y1A 3V1 | Name: Location: | Faro Area Faro Area | Date Received: | May 5, 2017 |
| Attn: | Holly Goulding | LSD: | | Report Number: | 2187867 |
| Sampled By: Company: | Katie Pfeifer/KN YG - Environment | P.O.: Acct code: | | | |

| | | Reference Number Sample Date Sample Time Sample Location | 1200559-4 May 02, 2017 NA | | | |
|-------------------------|-------------|---|---------------------------------|---------|---------|----------------------------|
| | | Sample Description | 2017057 / B | | | |
| | | Matrix | Water | | | |
| Analyte | | Units | Results | Results | Results | Nominal Detection Limit |
| Trace Metals Dissolved | - Continued | | | | | |
| Zirconium | Dissolved | mg/L | <0.0001 | | | 0.0001 |
| Trace Metals Total | | | | | | |
| Aluminum | Total | mg/L | 1.4 | | | 0.001 |
| Antimony | Total | mg/L | 0.00013 | | | 0.00002 |
| Arsenic | Total | mg/L | 0.0040 | | | 0.0001 |
| Barium | Total | mg/L | 0.021 | | | 0.0001 |
| Beryllium | Total | mg/L | 0.000058 | | | 0.00005 |
| Bismuth | Total | mg/L | <0.0001 | | | 0.0001 |
| Boron | Total | mg/L | 0.030 | | | 0.002 |
| Cadmium | Total | mg/L | 0.000037 | | | 0.00001 |
| Chromium | Total | mg/L | 0.0022 | | | 0.00005 |
| Cobalt | Total | mg/L | 0.00087 | | | 0.00002 |
| Copper | Total | mg/L | 0.0072 | | | 0.0002 |
| Iron | Total | mg/L | 8.0 | | | 0.002 |
| Lead | Total | mg/L | 0.0011 | | | 0.00001 |
| Lithium | Total | mg/L | 0.0083 | | | 0.0005 |
| Manganese | Total | mg/L | 0.21 | | | 0.001 |
| Molybdenum | Total | mg/L | 0.0024 | | | 0.00002 |
| Nickel | Total | mg/L | 0.0025 | | | 0.0002 |
| Selenium | Total | mg/L | <0.0002 | | | 0.0002 |
| Silver | Total | mg/L | <0.000010 | | | 0.00001 |
| Strontium | Total | mg/L | 2.3 | | | 0.0001 |
| Tellurium | Total | mg/L | <0.000050 | | | 0.00005 |
| Thallium | Total | mg/L | 0.000011 | | | 0.00001 |
| Thorium | Total | mg/L | 0.00025 | | | 0.00005 |
| Tin | Total | mg/L | 0.0001 | | | 0.0001 |
| Uranium | Total | mg/L | 0.0016 | | | 0.00001 |
| Vanadium | Total | mg/L | 0.0034 | | | 0.00005 |
| Zinc | Total | mg/L | 0.89 | | | 0.0005 |
| Zirconium | Total | mg/L | 0.0005 | | | 0.0001 |
| Subcontracted Analysis | S | | | | | |
| Subcontractor Report Id | SRC | | Done | | | |

Exova T: +1 (604) 514-3322 #104, 19575-55 A Ave. F: +1 (604) 514-3323 E: Surrey@exova.com Surrey, British Columbia V3S 8P8, Canada W: www.exova.com

Analytical Report



Lot ID: 1200559

May 5, 2017 May 24, 2017

| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 12005 |
|-------------|---------------------------|------------|-----------|-----------------|-----------|
| | 202, 419 Range Road | ID: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Name: | Faro Area | Date Received: | May 5, 20 |
| | Y1A 3V1 | Location: | Faro Area | Date Reported: | May 24, 2 |
| Attn: | Holly Goulding | LSD: | | Report Number: | 2187867 |
| Sampled By: | Katie Pfeifer/KN | P.O.: | | | |
| Company: | YG - Environment | Acct code: | | | |
| | | | | | |

Mathier mà

Approved by:

Mathieu Simoneau **Operations Manager**

Data have been validated by Analytical Quality Control and Exova's Integrated Data Validation System (IDVS). Generation and distribution of the report, and approval by the digitized signature above, are performed through a secure and controlled automatic process.

Quality Control



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1200559 |
|-------------|---------------------------|------------|-----------|-----------------|--------------|
| | 202, 419 Range Road | ID: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Name: | Faro Area | Date Received: | May 5, 2017 |
| | Y1A 3V1 | Location: | Faro Area | Date Reported: | May 24, 2017 |
| Attn: | Holly Goulding | LSD: | | Report Number: | 2187867 |
| Sampled By: | Katie Pfeifer/KN | P.O.: | | | |
| Company: | YG - Environment | Acct code: | | | |

Inorganic Nonmetallic Parameters

| Blanks | Units | Measured | Lower Limit | Upper Limit | | Passed QC |
|-------------------|---------------|-------------|-------------|----------------|-------------------|-----------|
| Ammonium - N | μg/L | -18.619 | -110.00 | 10.00 | | yes |
| Phosphorus | mg/L | -0.0005 | -0.003 | 0.003 | | yes |
| Date Acquired: | May 05, 2017 | | | | | |
| Nitrogen | mg/L | 0.03096 | -0.04 | 0.08 | | yes |
| Organic Carbon | mg/L | -0.00993 | -0.5 | 0.5 | | yes |
| Inorganic carbon | mg/L | 0.1011 | -0.5 | 0.5 | | yes |
| Date Acquired: | May 08, 2017 | | | | | |
| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | | Passed QC |
| Ammonium - N | μg/L | 107.74 | 85 | 115 | | yes |
| Phosphorus | mg/L | 105.94 | 90 | 110 | | yes |
| Date Acquired: | May 05, 2017 | | | | | |
| Ammonium - N | µg/L | 116.45 | 70 | 130 | | yes |
| Phosphorus | mg/L | 86.00 | 80 | 120 | | yes |
| Date Acquired: | May 05, 2017 | | | | | |
| Client Sample Rep | licates Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Nitrogen | mg/L | 1.63 | 1.60 | 10 | 0.06 | yes |
| Organic Carbon | mg/L | 3.1 | 2.9 | 10 | 1.0 | yes |
| Inorganic carbon | mg/L | 75.3 | 75.8 | 10 | 1.0 | yes |
| Date Acquired: | May 08, 2017 | | | | | |
| Ammonia - N | mg/L | 52.3 | 68.5 | 20 | 50.00 | yes |
| Date Acquired: | May 09, 2017 | | | | | |
| Control Sample | Units | Measured | Lower Limit | Upper Limit | | Passed QC |
| Organic Carbon | mg/L | <0.5 | -0.5 | 0.5 | | yes |
| Date Acquired: | May 08, 2017 | | | | | |
| Nitrogen | mg/L | 117 | 103.74 | 137.28 | | yes |
| Organic Carbon | mg/L | 125 | 109.1 | 139.7 | | yes |
| Inorganic carbon | mg/L | 47.5 | 39.0 | 57.0 | | yes |
| Date Acquired: | May 08, 2017 | | | | | |
| Nitrogen | mg/L | 14.9 | 13.27 | 16.93 | | yes |
| Organic Carbon | mg/L | 14.5 | 12.8 | 17.2 | | yes |
| Inorganic carbon | mg/L | 15.9 | 13.5 | 18.3 | | yes |
| Date Acquired: | May 08, 2017 | | | | | |
| Nitrogen | mg/L | 1.10 | 0.89 | 1.25 | | yes |
| Organic Carbon | mg/L | 3.1 | 2.4 | 4.0 | | yes |
| Inorganic carbon | mg/L | 3.5 | 2.7 | 3.9 | | yes |
| Date Acquired: | May 08, 2017 | | | | | |
| Phosphorus | mg/L | 0.478 | 0.389 | 0.503 | | yes |
| Date Acquired: | May 05, 2017 | | | | | |
| | | | | | | |

Metals Total

Bill To: YTG DOE - Water Resources

Y1A 3V1

Attn: Holly Goulding

Sampled By: Katie Pfeifer/KN

Company: YG - Environment

202, 419 Range Road

Whitehorse, YT, Canada

Project:

Name:

LSD:

P.O.:

Location:

Acct code:

ID:

Quality Control



Lot ID: **1200559** YOWN Control Number: Faro Area Date Received: May 5, 2017 Faro Area Date Reported: May 24, 2017

Report Number: 2187867

| Metals Total | | | | | | |
|------------------------|------------|---------------|-------------|----------------|-------------------|-----------|
| Blanks | Units | Measured | Lower Limit | Upper Limit | | Passed QC |
| Calcium | mg/L | 0.00314789 | -0.010 | 0.010 | | yes |
| Magnesium | mg/L | 0.00520919 | -0.020 | 0.020 | | yes |
| Potassium | mg/L | -0.0139899 | -0.040 | 0.040 | | yes |
| Silicon | mg/L | -3.23338e-005 | -0.005 | 0.005 | | yes |
| Sodium | mg/L | 0.009873 | -0.099 | 0.099 | | yes |
| Date Acquired: Ma | y 08, 2017 | | | | | |
| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | | Passed QC |
| Calcium | mg/L | 102.16 | 90 | 110 | | yes |
| Magnesium | mg/L | 104.42 | 90 | 110 | | yes |
| Potassium | mg/L | 102.90 | 90 | 110 | | yes |
| Silicon | mg/L | 100.83 | 90 | 110 | | yes |
| Sodium | mg/L | 100.48 | 90 | 110 | | yes |
| Titanium | mg/L | 98.29 | 90 | 110 | | yes |
| Date Acquired: Ma | y 08, 2017 | | | | | |
| Calcium | mg/L | 99.95 | 90 | 110 | | yes |
| Magnesium | mg/L | 107.92 | 90 | 110 | | yes |
| Potassium | mg/L | 104.18 | 90 | 110 | | yes |
| Silicon | mg/L | 99.71 | 90 | 110 | | yes |
| Sodium | mg/L | 101.74 | 90 | 110 | | yes |
| Titanium | mg/L | 99.95 | 90 | 110 | | yes |
| Date Acquired: Ma | y 08, 2017 | | | | | |
| Client Sample Replicat | es Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Calcium | mg/L | 40 | 40 | 20 | 0.050 | yes |
| Magnesium | mg/L | 11 | 11 | 20 | 0.050 | yes |
| Potassium | mg/L | 3.2 | 3.1 | 20 | 0.100 | yes |
| Silicon | mg/L | 9.8 | 10 | 20 | 0.100 | yes |
| Sodium | mg/L | 30 | 29 | 20 | 0.100 | yes |
| Date Acquired: Ma | y 08, 2017 | | | | | |

Physical and Aggregate Properties

| Passed QC | Absolute Criteria | % RSD Criteria | Replicate 2 | Replicate 1 | licates Units | Client Sample Rep |
|-----------|-------------------|----------------|-------------|-------------|---------------|-------------------|
| yes | 10.000 | 30 | 63.6 | 58 | mg/L | Solids |
| | | | | | May 05, 2017 | Date Acquired: |
| Passed QC | | Upper Limit | Lower Limit | Measured | Units | Control Sample |
| yes | | 575.000 | 263.000 | 440 | mg/L | Solids |
| | | | | | May 05, 2017 | Date Acquired: |
| yes | | 30.710 | 16.490 | 22.0 | mg/L | Solids |
| | | | | | May 05, 2017 | Date Acquired: |
| yes | | 5.001 | -5.001 | <5.0 | mg/L | Solids |
| | | | | | May 08, 2017 | Date Acquired: |

Quality Control



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1200559 |
|-------------|---------------------------|------------|-----------|-----------------|--------------|
| | 202, 419 Range Road | ID: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Name: | Faro Area | Date Received: | May 5, 2017 |
| | Y1A 3V1 | Location: | Faro Area | Date Reported: | May 24, 2017 |
| Attn: | Holly Goulding | LSD: | | Report Number: | 2187867 |
| Sampled By: | Katie Pfeifer/KN | P.O.: | | | 2101001 |
| Company: | YG - Environment | Acct code: | | | |

Physical and Aggregate Properties -Continued

| Continued | | | | | |
|-------------------|--------------|-------------|-------------|-------------|-----------|
| Control Sample | Units | Measured | Lower Limit | Upper Limit | Passed QC |
| Solids | mg/L | <2.00 | -5.010 | 5.010 | yes |
| Date Acquired: | May 05, 2017 | | | | |
| Routine Water | | | | | |
| Blanks | Units | Measured | Lower Limit | Upper Limit | Passed QC |
| Calcium | mg/L | -0.00739154 | -0.010 | 0.010 | yes |
| Magnesium | mg/L | 0.00652987 | -0.020 | 0.020 | yes |
| Potassium | mg/L | 0.00413253 | -0.040 | 0.040 | yes |
| Silicon | mg/L | 0.00175575 | -0.005 | 0.005 | yes |
| Sodium | mg/L | 0.0950571 | -0.099 | 0.099 | yes |
| Date Acquired: | May 08, 2017 | | | | |
| Chloride | mg/L | 0 | -0.201 | 0.201 | yes |
| Fluoride | mg/L | 0.00339959 | -0.099 | 0.099 | yes |
| Nitrate - N | mg/L | 0.00256552 | -0.010 | 0.010 | yes |
| Nitrite - N | mg/L | 0 | -0.099 | 0.099 | yes |
| Sulfate (SO4) | mg/L | 0.00423765 | -0.990 | 0.990 | yes |
| Date Acquired: | May 05, 2017 | | | | |
| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | Passed QC |
| Calcium | mg/L | 96.78 | 90 | 110 | yes |
| Magnesium | mg/L | 98.74 | 90 | 110 | yes |
| Potassium | mg/L | 97.35 | 90 | 110 | yes |
| Silicon | mg/L | 97.38 | 90 | 110 | yes |
| Sodium | mg/L | 96.55 | 90 | 110 | yes |
| Date Acquired: | May 08, 2017 | | | | |
| Chloride | mg/L | 103.42 | 85 | 115 | yes |
| Fluoride | mg/L | 93.82 | 85 | 115 | yes |
| Nitrate - N | mg/L | 104.28 | 85 | 115 | yes |
| Nitrite - N | mg/L | 100.56 | 90 | 110 | yes |
| Sulfate (SO4) | mg/L | 99.68 | 85 | 115 | yes |
| Date Acquired: | May 05, 2017 | | | | |
| Chloride | mg/L | 98.18 | 90 | 110 | yes |
| Fluoride | mg/L | 102.78 | 89 | 109 | yes |
| Nitrate - N | mg/L | 97.76 | 88 | 108 | yes |
| Nitrite - N | mg/L | 98.82 | 90 | 118 | yes |
| Sulfate (SO4) | mg/L | 97.05 | 90 | 110 | yes |
| Date Acquired: | May 05, 2017 | | | | |
| Calcium | mg/L | 97.14 | 90 | 110 | yes |
| Magnesium | mg/L | 101.98 | 90 | 110 | yes |
| Potassium | mg/L | 108.97 | 90 | 110 | yes |
| Sodium | mg/L | 109.07 | 90 | 110 | yes |

Quality Control



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1200559 |
|-------------|---------------------------|------------|-----------|-----------------|--------------|
| | 202, 419 Range Road | ID: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Name: | Faro Area | Date Received: | May 5, 2017 |
| | Y1A 3V1 | Location: | Faro Area | Date Reported: | May 24, 2017 |
| Attn: | Holly Goulding | LSD: | | Report Number: | 2187867 |
| Sampled By: | Katie Pfeifer/KN | P.O.: | | | |
| Company: | YG - Environment | Acct code: | | | |

Routine Water - Continued

| Calibration Check | • | Units | % Recovery | Lower Limit | Upper Limit | | Passed QC |
|----------------------|-----------|----------------|-------------|-------------|----------------|-------------------|-----------|
| Date Acquired: | May 08, 2 | 2017 | | | | | |
| Certified Reference | Material | Units | Measured | Target | Lower Limit | Upper Limit | Passed QC |
| T-Alkalinity | | mg/L | 10 | 10 | 8 | 12 | yes |
| Date Acquired: | May 08, 2 | 2017 | | | | | |
| Client Sample Repli | cates | Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Calcium | | mg/L | 18 | 19 | 30 | 1.000 | yes |
| Magnesium | | mg/L | 4.0 | 4.0 | 30 | 1.000 | yes |
| Potassium | | mg/L | 5.3 | 5.3 | 30 | 1.000 | yes |
| Silicon | | mg/L | 11 | 11 | 30 | 0.150 | yes |
| Sodium | | mg/L | 7.4 | 7.4 | 30 | 1.000 | yes |
| Sulfur | | mg/L | 0.29 | 0.28 | 30 | 3.000 | yes |
| Date Acquired: | May 08, 2 | 2017 | | | | | |
| Hardness | | mg CaCO3/L | 147 | 147 | 20 | 1.000 | yes |
| Date Acquired: | May 08, 2 | 2017 | | | | | |
| рН | | | 9.44 | 9.50 | 10 | | yes |
| Chloride | | mg/L | 17.1 | 17.1 | 20 | 0.250 | yes |
| Fluoride | | mg/L | 0.017 | 0.017 | 20 | 0.050 | yes |
| Nitrate - N | | mg/L | 5.21 | 5.25 | 20 | 0.050 | yes |
| Nitrite - N | | mg/L | <0.010 | <0.010 | 20 | 0.050 | yes |
| Sulfate (SO4) | | mg/L | 13.9 | 13.9 | 20 | 0.500 | yes |
| Date Acquired: | May 05, 2 | 2017 | | | | | |
| Replicates | | Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Chloride | | mg/L | 1.36 | 1.36 | 6 | 0.010 | yes |
| Nitrate - N | | mg/L | 0.297 | 0.295 | 12 | 0.050 | yes |
| Sulfate (SO4) | | mg/L | 4.5 | 4.6 | 6 | 0.010 | yes |
| Date Acquired: | May 05, 2 | 2017 | | | | | |
| Control Sample | | Units | Measured | Lower Limit | Upper Limit | | Passed QC |
| рН | | | 9.98 | 9.17 | 10.81 | | yes |
| Electrical Conductiv | vity | µS/cm at 25 °C | 210 | 194 | 250 | | yes |
| P-Alkalinity | | mg/L | 38 | 7 | 55 | | yes |
| T-Alkalinity | | mg/L | 108 | 98 | 113 | | yes |
| Date Acquired: | May 08, 2 | 2017 | | | | | |
| рН | | | 4.04 | 3.88 | 4.12 | | yes |
| Date Acquired: | May 08, 2 | 2017 | | | | | |
| рH | | | 7.94 | 7.88 | 8.12 | | ves |
| Date Acquired: | May 08, 2 | 2017 | | | | | ,,,, |
| Electrical Conductiv | vity | µS/cm at 25 °C | 1390 | 1323 | 1503 | | ves |
| Date Acquired: | May 08, 2 | 2017 | | | | | - |

Trace Metals Dissolved

Quality Control



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1200559 |
|-------------|---------------------------|------------|-----------|-----------------|--------------|
| | 202, 419 Range Road | ID: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Name: | Faro Area | Date Received: | May 5, 2017 |
| | Y1A 3V1 | Location: | Faro Area | Date Reported: | May 24, 2017 |
| Attn: | Holly Goulding | LSD: | | Report Number: | 2187867 |
| Sampled By: | Katie Pfeifer/KN | P.O.: | | | |
| Company: | YG - Environment | Acct code: | | | |

Trace Metals Dissolved

| Blanks | Units | Measured | Lower Limit | Upper Limit | Passed QC |
|-------------------|--------------|--------------|-------------|-------------|-----------|
| Aluminum | µg/L | -0.101298 | -0.990 | 0.990 | yes |
| Antimony | μg/L | -0.0092029 | -0.020 | 0.020 | yes |
| Arsenic | μg/L | 0.0172068 | -0.099 | 0.099 | yes |
| Barium | μg/L | -0.00721371 | -0.099 | 0.099 | yes |
| Beryllium | μg/L | -0.0344065 | -0.050 | 0.050 | yes |
| Bismuth | µg/L | 0.000584517 | -0.099 | 0.099 | yes |
| Boron | μg/L | 0.279689 | -2.001 | 2.001 | yes |
| Cadmium | μg/L | -0.000937545 | -0.010 | 0.010 | yes |
| Chromium | μg/L | -0.0335319 | -0.050 | 0.050 | yes |
| Cobalt | µg/L | 0.00106031 | -0.020 | 0.020 | yes |
| Copper | μg/L | -0.0309484 | -0.050 | 0.050 | yes |
| Iron | µg/L | 0.16795 | -2.001 | 2.001 | yes |
| Lead | µg/L | 0 | -0.010 | 0.010 | yes |
| Lithium | µg/L | -0.000994052 | -0.500 | 0.500 | yes |
| Manganese | µg/L | -0.0362408 | -0.990 | 0.990 | yes |
| Molybdenum | µg/L | 0.00151403 | -0.020 | 0.020 | yes |
| Nickel | µg/L | -0.0263098 | -0.200 | 0.200 | yes |
| Selenium | µg/L | 0.0116312 | -0.200 | 0.200 | yes |
| Silver | µg/L | -0.00159588 | -0.009 | 0.009 | yes |
| Strontium | µg/L | 0.0673328 | -0.099 | 0.099 | yes |
| Tellurium | µg/L | -0.0258846 | -0.050 | 0.050 | yes |
| Thallium | µg/L | 0.000161099 | -0.010 | 0.010 | yes |
| Thorium | µg/L | 0.00129457 | -0.050 | 0.050 | yes |
| Tin | µg/L | 0.0032099 | -0.099 | 0.099 | yes |
| Titanium | µg/L | 0.00529065 | -0.099 | 0.099 | yes |
| Uranium | µg/L | 0.00140073 | -0.010 | 0.010 | yes |
| Vanadium | µg/L | 0.00319306 | -0.050 | 0.050 | yes |
| Zinc | µg/L | 0 | -0.500 | 0.500 | yes |
| Zirconium | µg/L | 0.00618069 | -0.099 | 0.099 | yes |
| Date Acquired: | May 08, 2017 | | | | |
| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | Passed QC |
| Titanium | mg/L | 93.81 | 90 | 110 | yes |
| Date Acquired: | May 08, 2017 | | | | |
| Aluminum | µg/L | 96.14 | 80 | 120 | yes |
| Antimony | µg/L | 103.92 | 90 | 110 | yes |
| Arsenic | μg/L | 96.98 | 90 | 110 | yes |
| Barium | µg/L | 92.24 | 90 | 110 | yes |
| Beryllium | µg/L | 98.23 | 90 | 110 | yes |
| Boron | µg/L | 92.55 | 70 | 130 | yes |
| Cadmium | µg/L | 101.10 | 90 | 110 | yes |
| Chromium | µg/L | 101.95 | 90 | 110 | yes |
| Cobalt | µg/L | 98.95 | 90 | 110 | yes |

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Quality Control



| Bill To: | YTG DOE - Water Resources 202, 419 Range Road | Project: ID: | YOWN | Lot ID: Control Number: | 1200559 |
|----------|--|--------------------|------------------------|----------------------------------|-----------------------------|
| | Whitehorse, YT, Canada Y1A 3V1 | Name: Location: | Faro Area Faro Area | Date Received: Date Reported: | May 5, 2017 May 24, 2017 |
| Attn: | Holly Goulding | LSD: | | Report Number: | 2187867 |
| Company: | YG - Environment | Acct code: | | | |

Trace Metals Dissolved - Continued

| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | | Passed QC |
|---------------------|--------------|-------------|-------------|----------------|-------------------|-----------|
| Copper | μg/L | 100.39 | 90 | 110 | | yes |
| Lead | μg/L | 102.89 | 90 | 110 | | yes |
| Lithium | μg/L | 104.68 | 90 | 110 | | yes |
| Molybdenum | μg/L | 101.05 | 90 | 110 | | yes |
| Nickel | μg/L | 96.16 | 90 | 110 | | yes |
| Selenium | μg/L | 104.32 | 90 | 110 | | yes |
| Silver | μg/L | 105.82 | 90 | 110 | | yes |
| Strontium | μg/L | 97.12 | 90 | 110 | | yes |
| Thorium | µg/L | 103.46 | 90 | 110 | | yes |
| Tin | µg/L | 99.44 | 90 | 110 | | yes |
| Titanium | μg/L | 93.89 | 90 | 110 | | yes |
| Uranium | μg/L | 102.31 | 90 | 110 | | yes |
| Vanadium | μg/L | 96.68 | 90 | 110 | | yes |
| Zinc | μg/L | 104.71 | 90 | 110 | | yes |
| Date Acquired: | May 08, 2017 | | | | | |
| Aluminum | µg/L | 98.38 | 80 | 120 | | yes |
| Antimony | µg/L | 91.94 | 90 | 110 | | yes |
| Arsenic | µg/L | 96.00 | 90 | 110 | | yes |
| Barium | μg/L | 92.06 | 90 | 110 | | yes |
| Beryllium | μg/L | 102.57 | 90 | 110 | | yes |
| Boron | μg/L | 103.62 | 80 | 120 | | yes |
| Cadmium | μg/L | 102.42 | 90 | 110 | | yes |
| Chromium | µg/L | 102.29 | 90 | 110 | | yes |
| Cobalt | μg/L | 100.85 | 90 | 110 | | yes |
| Copper | µg/L | 99.30 | 90 | 110 | | yes |
| Lead | μg/L | 101.85 | 90 | 110 | | yes |
| Lithium | μg/L | 104.07 | 90 | 110 | | yes |
| Molybdenum | μg/L | 99.79 | 90 | 110 | | yes |
| Nickel | μg/L | 95.78 | 90 | 110 | | yes |
| Selenium | µg/L | 102.15 | 90 | 110 | | yes |
| Silver | µg/L | 101.78 | 90 | 110 | | yes |
| Strontium | µg/L | 90.92 | 90 | 110 | | yes |
| Thallium | µg/L | 101.71 | 90 | 110 | | yes |
| Thorium | µg/L | 107.70 | 86 | 122 | | yes |
| Tin | µg/L | 94.17 | 90 | 110 | | yes |
| Titanium | µg/L | 98.67 | 90 | 110 | | yes |
| Uranium | µg/L | 104.47 | 90 | 110 | | yes |
| Vanadium | µg/L | 97.10 | 90 | 110 | | yes |
| Zinc | µg/L | 98.59 | 90 | 110 | | yes |
| Date Acquired: | May 08, 2017 | | | | | |
| Client Sample Repli | cates Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Aluminum | μg/L | 34 | 36 | 20 | 20.000 | yes |

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Quality Control



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1200559 |
|-------------|---------------------------|------------|-----------|-----------------|--------------|
| | 202, 419 Range Road | ID: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Name: | Faro Area | Date Received: | May 5, 2017 |
| | Y1A 3V1 | Location: | Faro Area | Date Reported: | May 24, 2017 |
| Attn: | Holly Goulding | LSD: | | Report Number: | 2187867 |
| Sampled By: | Katie Pfeifer/KN | P.O.: | | | |
| Company: | YG - Environment | Acct code: | | | |

Trace Metals Dissolved - Continued

| Client Sample Repli | cates Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
|---------------------|--------------|-------------|-------------|----------------|-------------------|-----------|
| Antimony | μg/L | 0.088 | 0.128 | 20 | 1.000 | yes |
| Arsenic | μg/L | 10.6 | 10.7 | 20 | 1.000 | yes |
| Barium | μg/L | 57.4 | 57.4 | 20 | 5.000 | yes |
| Beryllium | μg/L | <0.050 | <0.050 | 20 | 1.000 | yes |
| Boron | μg/L | 35 | 35 | 20 | 5.000 | yes |
| Cadmium | μg/L | 0.029 | 0.031 | 20 | 0.500 | yes |
| Chromium | μg/L | 0.842 | 0.938 | 20 | 5.000 | yes |
| Cobalt | μg/L | 7.214 | 7.119 | 20 | 0.500 | yes |
| Copper | μg/L | <0.5 | <0.5 | 20 | 5.000 | yes |
| Iron | μg/L | 39500 | 43000 | 20 | 50.000 | yes |
| Lead | μg/L | <0.010 | <0.010 | 20 | 0.500 | yes |
| Lithium | μg/L | <0.5 | <0.5 | 20 | 5.000 | yes |
| Manganese | μg/L | 2000 | 2300 | 20 | 0.500 | yes |
| Molybdenum | μg/L | 0.137 | 0.155 | 20 | 0.500 | yes |
| Nickel | μg/L | 0.6 | 0.6 | 20 | 5.000 | yes |
| Selenium | μg/L | <0.2 | <0.2 | 20 | 0.500 | yes |
| Silver | μg/L | <0.010 | <0.010 | 20 | 0.500 | yes |
| Strontium | μg/L | 90.6 | 91.6 | 20 | 0.500 | yes |
| Tellurium | μg/L | 0.066 | 0.130 | 20 | 0.500 | yes |
| Thallium | μg/L | <0.010 | <0.010 | 20 | 0.100 | yes |
| Thorium | μg/L | 0.117 | 0.169 | 20 | 0.100 | yes |
| Tin | μg/L | <0.1 | <0.1 | 20 | 0.500 | yes |
| Titanium | μg/L | 0.4 | 0.6 | 20 | 0.500 | yes |
| Uranium | μg/L | <0.010 | <0.010 | 20 | 0.100 | yes |
| Vanadium | μg/L | 3.376 | 3.404 | 20 | 0.500 | yes |
| Zinc | μg/L | 1.7 | 1.7 | 20 | 5.000 | yes |
| Zirconium | μg/L | 0.1 | 0.1 | 20 | 0.500 | yes |
| Date Acquired: | May 08, 2017 | | | | | |
| Titanium | mg/L | 0.004 | 0.004 | 30 | 0.012 | yes |
| Date Acquired: | May 08, 2017 | | | | | - |
| - | - | | | | | |

Trace Metals Total

| Blanks | Units | Measured | Lower Limit | Upper Limit | Passed QC |
|-----------|-------|--------------|-------------|-------------|-----------|
| Aluminum | μg/L | -0.483011 | -0.990 | 0.990 | yes |
| Antimony | μg/L | -0.000196138 | -0.020 | 0.020 | yes |
| Arsenic | μg/L | -0.0101129 | -0.099 | 0.099 | yes |
| Barium | μg/L | 0.00166777 | -0.099 | 0.099 | yes |
| Beryllium | μg/L | 0.0114393 | -0.050 | 0.050 | yes |
| Bismuth | μg/L | -0.00056203 | -0.099 | 0.099 | yes |
| Boron | μg/L | 1.60882 | -2.001 | 2.001 | yes |
| Cadmium | μg/L | 0.0010561 | -0.010 | 0.010 | yes |
| Chromium | µg/L | 0.010331 | -0.050 | 0.050 | yes |

Quality Control



| Bill To: | YTG DOE - Water Resources 202, 419 Range Road | Project: ID: | YOWN | Lot ID: Control Number: | 1200559 |
|-------------|--|-----------------|-----------|----------------------------|--------------|
| | Whitehorse, YT, Canada | Name: | Faro Area | Date Received: | May 5, 2017 |
| | Y1A 3V1 | Location: | Faro Area | Date Reported: | May 24, 2017 |
| Attn: | Holly Goulding | LSD: | | Report Number: | 2187867 |
| Sampled By: | Katie Pfeifer/KN | P.O.: | | | 2.0.001 |
| Company: | YG - Environment | Acct code: | | | |

Trace Metals Total - Continued

| Blanks | Units | Measured | Lower Limit | Upper Limit | Passed QC |
|--|--|---|--|--|--|
| Cobalt | μg/L | 0.00366192 | -0.020 | 0.020 | yes |
| Copper | μg/L | 0.0395127 | -0.501 | 0.501 | yes |
| Iron | μg/L | 1.39947 | -2.001 | 2.001 | yes |
| Lead | μg/L | -0.00332808 | -0.010 | 0.010 | yes |
| Lithium | μg/L | -0.0115635 | -0.501 | 0.501 | yes |
| Manganese | μg/L | 0.107623 | -0.990 | 0.990 | yes |
| Molybdenum | μg/L | -0.00500662 | -0.020 | 0.020 | yes |
| Nickel | μg/L | 0.0104295 | -0.201 | 0.201 | yes |
| Selenium | μg/L | -0.0203658 | -0.201 | 0.201 | yes |
| Silver | μg/L | -0.000951356 | -0.010 | 0.010 | yes |
| Strontium | μg/L | 0.000820965 | -0.099 | 0.099 | yes |
| Tellurium | μg/L | -0.0175011 | -0.050 | 0.050 | yes |
| Thallium | μg/L | -0.000623782 | -0.010 | 0.010 | yes |
| Thorium | μg/L | 0 | -0.050 | 0.050 | yes |
| Tin | μg/L | -0.00546832 | -0.099 | 0.099 | yes |
| Titanium | μg/L | 0 | -0.099 | 0.099 | yes |
| Uranium | μg/L | -0.000244759 | -0.099 | 0.099 | yes |
| Vanadium | μg/L | 0.0421781 | -0.050 | 0.050 | yes |
| Zinc | μg/L | -0.0290357 | -0.501 | 0.501 | yes |
| Zirconium | μg/L | -0.0452423 | -0.099 | 0.099 | yes |
| Date Acquired: | May 08, 2017 | | | | |
| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | Passed QC |
| Aluminum | μg/L | 106.71 | 80 | 120 | yes |
| Antimony | μg/L | 97.98 | 90 | 110 | yes |
| Arsenic | μg/L | 106 74 | 00 | 440 | |
| Barium | | 100.74 | 90 | 110 | yes |
| | µg/L | 100.29 | 90 90 | 110 110 | yes yes |
| Beryllium | μg/L μg/L | 100.29 106.18 | 90 90 90 | 110 110 110 | yes yes yes |
| Beryllium Boron | μg/L μg/L μg/L | 100.74 100.29 106.18 100.96 | 90 90 90 70 | 110 110 110 130 | yes yes yes yes |
| Beryllium Boron Cadmium | μg/L μg/L μg/L μg/L | 100.74 100.29 106.18 100.96 105.31 | 90 90 90 70 90 | 110 110 110 130 110 | yes yes yes yes yes |
| Beryllium Boron Cadmium Chromium | μg/L μg/L μg/L μg/L μg/L | 100.74 100.29 106.18 100.96 105.31 103.14 | 90 90 90 70 90 90 | 110 110 110 130 110 110 | yes yes yes yes yes yes |
| Beryllium Boron Cadmium Chromium Cobalt | μg/L μg/L μg/L μg/L μg/L μg/L | 100.74 100.29 106.18 100.96 105.31 103.14 99.91 | 90 90 90 70 90 90 90 | 110 110 110 130 110 110 110 | yes yes yes yes yes yes yes |
| Beryllium Boron Cadmium Chromium Cobalt Copper | μg/L μg/L μg/L μg/L μg/L μg/L | 100.74 100.29 106.18 100.96 105.31 103.14 99.91 105.04 | 90 90 90 70 90 90 90 90 | 110 110 130 110 110 110 110 110 | yes yes yes yes yes yes yes yes |
| Beryllium Boron Cadmium Chromium Cobalt Copper Lead | μg/L μg/L μg/L μg/L μg/L μg/L μg/L | 100.74 100.29 106.18 100.96 105.31 103.14 99.91 105.04 105.22 | 90 90 90 70 90 90 90 90 90 | 110 110 130 110 110 110 110 110 110 | yes yes yes yes yes yes yes yes yes |
| Beryllium Boron Cadmium Chromium Cobalt Copper Lead Lithium | μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L | 100.74 100.29 106.18 100.96 105.31 103.14 99.91 105.04 105.22 103.09 | 90 90 90 70 90 90 90 90 90 90 | 110 110 130 110 110 110 110 110 110 110 | yes yes yes yes yes yes yes yes yes yes |
| Beryllium Boron Cadmium Chromium Cobalt Copper Lead Lithium Molybdenum | μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L | 100.74 100.29 106.18 100.96 105.31 103.14 99.91 105.04 105.22 103.09 96.83 | 90 90 70 90 90 90 90 90 90 90 90 | 110 110 110 130 110 110 110 110 110 110 | yes yes yes yes yes yes yes yes yes yes |
| Beryllium Boron Cadmium Chromium Cobalt Copper Lead Lithium Molybdenum Nickel | μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L | 100.74 100.29 106.18 100.96 105.31 103.14 99.91 105.04 105.22 103.09 96.83 102.42 | 90 90 90 70 90 90 90 90 90 90 90 90 90 | 110 110 110 130 110 110 110 110 110 110 | yes yes yes yes yes yes yes yes yes yes |
| Beryllium Boron Cadmium Chromium Cobalt Copper Lead Lithium Molybdenum Nickel Selenium | μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L | 100.74 100.29 106.18 100.96 105.31 103.14 99.91 105.04 105.22 103.09 96.83 102.42 105.49 | 90 90 90 70 90 90 90 90 90 90 90 90 90 90 | 110 110 110 130 110 110 110 110 110 110 | yes yes yes yes yes yes yes yes yes yes |
| Beryllium Boron Cadmium Chromium Cobalt Copper Lead Lithium Molybdenum Nickel Selenium Silver | μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L | 100.74 100.29 106.18 100.96 105.31 103.14 99.91 105.04 105.22 103.09 96.83 102.42 105.49 104.70 | 90 90 90 90 90 90 90 90 90 90 90 90 90 9 | 110 110 110 130 110 110 110 110 110 110 | yes yes yes yes yes yes yes yes yes yes |
| Beryllium Boron Cadmium Chromium Cobalt Copper Lead Lithium Molybdenum Nickel Selenium Silver Strontium | μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L | 100.74 100.29 106.18 100.96 105.31 103.14 99.91 105.04 105.22 103.09 96.83 102.42 105.49 104.70 96.00 | 90 90 90 90 90 90 90 90 90 90 90 90 90 9 | 110 110 110 130 110 110 110 110 110 110 | yes yes yes yes yes yes yes yes yes yes |
| Beryllium Boron Cadmium Chromium Cobalt Copper Lead Lithium Molybdenum Nickel Selenium Silver Strontium Thallium | μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L | 100.74 100.29 106.18 100.96 105.31 103.14 99.91 105.04 105.22 103.09 96.83 102.42 105.49 104.70 96.00 106.38 | 90 90 90 90 90 90 90 90 90 90 90 90 90 9 | 110 110 110 130 110 110 110 110 110 110 | yes yes yes yes yes yes yes yes yes yes |
| Beryllium Boron Cadmium Chromium Cobalt Copper Lead Lithium Molybdenum Nickel Selenium Silver Strontium Thallium Thorium | μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L | 100.74 100.29 106.18 100.96 105.31 103.14 99.91 105.04 105.22 103.09 96.83 102.42 105.49 104.70 96.00 106.38 106.73 | 90 90 90 90 90 90 90 90 90 90 90 90 90 9 | 110 110 110 130 110 110 110 110 110 110 | yes yes yes yes yes yes yes yes yes yes |

Quality Control



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1200559 |
|-------------|---------------------------|------------|-----------|-----------------|--------------|
| | 202, 419 Range Road | ID: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Name: | Faro Area | Date Received: | May 5, 2017 |
| | Y1A 3V1 | Location: | Faro Area | Date Reported: | May 24, 2017 |
| Attn: | Holly Goulding | LSD: | | Report Number: | 2187867 |
| Sampled By: | Katie Pfeifer/KN | P.O.: | | | |
| Company: | YG - Environment | Acct code: | | | |

Trace Metals Total - Continued

| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | | Passed QC |
|--------------------|--------------|-------------|-------------|----------------|-------------------|-----------|
| Titanium | µg/L | 102.65 | 90 | 110 | | yes |
| Uranium | µg/L | 103.52 | 90 | 110 | | yes |
| Vanadium | µg/L | 101.48 | 90 | 110 | | yes |
| Zinc | µg/L | 91.75 | 90 | 110 | | yes |
| Date Acquired: | May 08, 2017 | | | | | |
| Aluminum | µg/L | 98.66 | 80 | 120 | | yes |
| Antimony | µg/L | 97.17 | 90 | 110 | | yes |
| Arsenic | µg/L | 106.85 | 90 | 110 | | yes |
| Barium | µg/L | 98.80 | 90 | 110 | | yes |
| Beryllium | µg/L | 100.67 | 90 | 110 | | yes |
| Boron | µg/L | 95.70 | 80 | 120 | | yes |
| Cadmium | µg/L | 105.73 | 90 | 110 | | yes |
| Chromium | µg/L | 100.66 | 90 | 110 | | yes |
| Cobalt | µg/L | 98.48 | 90 | 110 | | yes |
| Copper | µg/L | 103.01 | 90 | 110 | | yes |
| Lead | µg/L | 100.98 | 90 | 110 | | yes |
| Lithium | µg/L | 102.50 | 90 | 110 | | yes |
| Molybdenum | µg/L | 96.68 | 90 | 110 | | yes |
| Nickel | µg/L | 100.26 | 90 | 110 | | yes |
| Selenium | µg/L | 100.88 | 90 | 110 | | yes |
| Silver | µg/L | 104.77 | 90 | 110 | | yes |
| Strontium | µg/L | 98.35 | 90 | 110 | | yes |
| Thallium | µg/L | 102.55 | 90 | 110 | | yes |
| Thorium | µg/L | 103.95 | 90 | 110 | | yes |
| Tin | µg/L | 100.03 | 90 | 110 | | yes |
| Titanium | µg/L | 101.97 | 90 | 110 | | yes |
| Uranium | µg/L | 101.01 | 90 | 110 | | yes |
| Vanadium | µg/L | 98.84 | 90 | 110 | | yes |
| Zinc | µg/L | 104.68 | 90 | 110 | | yes |
| Date Acquired: | May 08, 2017 | | | | | |
| Client Sample Repl | icates Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Aluminum | µg/L | 77 | 78 | 20 | 100.000 | yes |
| Antimony | µg/L | 0.063 | 0.11 | 20 | 2.000 | yes |
| Arsenic | µg/L | 0.1 | 0.1 | 20 | 2.000 | yes |
| Barium | µg/L | 0.2 | 0.2 | 20 | 10.000 | yes |
| Boron | µg/L | 6 | 7 | 20 | 40.000 | yes |
| Cadmium | µg/L | <0.010 | <0.010 | 20 | 0.100 | yes |
| Chromium | µg/L | 0.26 | 0.27 | 20 | 6.000 | yes |
| Copper | µg/L | 0.6 | 0.6 | 20 | 5.000 | yes |
| Lead | µg/L | <0.010 | <0.010 | 20 | 1.000 | yes |
| Selenium | µg/L | <0.2 | <0.2 | 20 | 5.000 | yes |
| Uranium | µg/L | <0.010 | <0.010 | 20 | 1.000 | yes |

| Exova | T: +1 (604) 514-3322 |
|--------------------------|----------------------|
| #104, 19575-55 A Ave. | F: +1 (604) 514-3323 |
| Surrey, British Columbia | E: Surrey@exova.com |
| V3S 8P8, Canada | W: www.exova.com |

Quality Control



| Bill To: | YTG DOE - Water Resources 202, 419 Range Road Whitehorse, YT, Canada Y1A 3V1 | Project: ID: Name: Location: | YOWN Faro Area Faro Area | Lot ID: Control Number: Date Received: Date Reported: | 1200559 May 5, 2017 May 24, 2017 |
|-------------|---|---------------------------------------|--------------------------------|--|---|
| Attn: | Holly Goulding | LSD: | | Report Number: | 2187867 |
| Sampled By: | Katie Pfeifer/KN | P.O.: | | | |
| Company: | YG - Environment | Acct code: | | | |

Trace Metals Total - Continued

| Client Sample Repl | licates Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
|--------------------|---------------|-------------|-------------|----------------|-------------------|-----------|
| Zinc | μg/L | <0.5 | 0.8 | 20 | 10.000 | yes |
| Date Acquired: | May 08, 2017 | | | | | |

Methodology and Notes



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1200559 |
|-------------|---------------------------|------------|-----------|-----------------|--------------|
| | 202, 419 Range Road | ID: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Name: | Faro Area | Date Received: | May 5, 2017 |
| | Y1A 3V1 | Location: | Faro Area | Date Reported: | May 24, 2017 |
| Attn: | Holly Goulding | LSD: | | Report Number: | 2187867 |
| Sampled By: | Katie Pfeifer/KN | P.O.: | | | |
| Company: | YG - Environment | Acct code: | | | |

Method of Analysis

| Method Name | Reference | | Method | Date Analysis Started | Location |
|---|-----------|---|--|--------------------------|----------------------------------|
| Alk, pH, EC, Turb in water (Surrey) | APHA | * | Alkalinity - Titration Method, 2320 B | 08-May-17 | Exova Surrey |
| Alk, pH, EC, Turb in water (Surrey) | APHA | * | Conductivity, 2510 B | 08-May-17 | Exova Surrey |
| Alk, pH, EC, Turb in water (Surrey) | APHA | * | pH - Electrometric Method, 4500-H+ B | 08-May-17 | Exova Surrey |
| Ammonia-N in Water (Surrey) | APHA | * | Flow Injection Analysis, 4500-NH3 H | 08-May-17 | Exova Surrey |
| Anions by IEC in water (Surrey) | APHA | * | Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B | 09-May-17 | Exova Surrey |
| Anions by IEC in water (Surrey) | APHA | * | Single-Column Ion Chromatography with Electronic Suppression, 4110 C | 09-May-17 | Exova Surrey |
| Carbon Inorganic (Dissolved) in water(DIC) | APHA | | High-Temperature Combustion Method, 5310 B | 08-May-17 | Exova Edmonton |
| Carbon Inorganic (Total) in water (TIC) | APHA | | High-Temperature Combustion Method, 5310 B | 08-May-17 | Exova Edmonton |
| Carbon Organic (Dissolved) in water (DOC) | APHA | | High-Temperature Combustion Method, 5310 B | 08-May-17 | Exova Edmonton |
| Carbon Organic (Total) in water (TOC) | APHA | | High-Temperature Combustion Method, 5310 B | 08-May-17 | Exova Edmonton |
| Metals SemiTrace (Dissolved) in water (Surrey) | US EPA | * | Metals & Trace Elements by ICP-AES, 6010C | 08-May-17 | Exova Surrey |
| Metals SemiTrace (Total) in Water (Surrey) | US EPA | * | Metals & Trace Elements by ICP-AES, 6010C | 08-May-17 | Exova Surrey |
| Phosphorus - total by Smartchem (Surrey) | APHA | * | Persulfate digestion method, 4500-P B5 | 08-May-17 | Exova Surrey |
| Solids Dissolved (Total, Fixed and Volatile) - Surrey | APHA | * | Total Dissolved Solids Dried at 180 C, 2540 C | 08-May-17 | Exova Surrey |
| Solids Suspended (Total, Fixed and Volatile) - Surrey | APHA | * | Total Suspended Solids Dried at 103- 105'C, 2540 D | 05-May-17 | Exova Surrey |
| Sublet to SRC Analytical | Ext. Lab | | See attached test report, | 18-May-17 | Saskatchewan Research Council |
| Total and Kjeldahl Nitrogen (Total) in Water | ISO | * | Water Quality - Determination of nitrogen, ISO/TR 11905-2 | 08-May-17 | Exova Edmonton |
| Trace Metals (dissolved) in Water (Surrey) | US EPA | * | Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8 | 08-May-17 | Exova Surrey |
| Trace Metals (Total) in Water (Surrey) | US EPA | * | Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8 | 08-May-17 | Exova Surrey |
| | | | " Reference Method Modified | | |

References

| APHA | Standard Methods for the Examination of Water and Wastewater |
|----------|--|
| Ext. Lab | External Laboratory |
| ISO | International Organization for Standardization |
| US EPA | US Environmental Protection Agency Test Methods |

Methodology and Notes



| Bill To: Attn: Sampled By: Company: | YTG DOE - Water Resources 202, 419 Range Road Whitehorse, YT, Canada Y1A 3V1 Holly Goulding Katie Pfeifer/KN YG - Environment | Project: ID: Name: Location: LSD: P.O.: Acct code: | YOWN Faro Area Faro Area | Lot ID: Control Number: Date Received: Date Reported: Report Number: | 1200559 May 5, 2017 May 24, 2017 2187867 | |
|--|---|--|--------------------------------|--|--|--|
|--|---|--|--------------------------------|--|--|--|

Comments:

- Reduction of analytical volume was necessary for Trace Metals analysis to bring results within the analytical range for samples #1200559-1 through 4. Detection limits are adjusted accordingly.
- RA226 analysis was performed by a subcontract laboratory. See attached 3 page report 2017-5029.
- Sample 1200559-1; 5708512 Reduction of analytical volume was necessary for anions due to matrix effects in sample 1200559-1, and 1200559-4. Detection limits are adjusted accordingly.
- Sample 1200559-1; 5708512 Reduction of analytical volume was necessary for sulfate to bring results within the analytical range for sample 1200559-1 and 1200559-4. Detection limits are adjusted accordingly.
- Sample 1200559-2; 5708513 Reduction of analytical volume was necessary for nitrate due to matrix effects in sample 1200559-2 and 1200559-3. Detection limits are adjusted accordingly.



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SRC Group # 2017-5029

May 18, 2017

EXOVA 104-19575 55A Avenue Surrey, BC V3S 8P8 Attn: Client Services

Date Samples Received: May-08-2017

Client P.O.: POC102913

All results have been reviewed and approved by a Qualified Person in accordance with the Saskatchewan Environmental Code, Corrective Action Plan Chapter, for the purposes of certifying a laboratory analysis

Results from Lab Sections 1 and 2 have been authorized by Keith Gipman, Supervisor Results from Lab Section 3 have been authorized by Pat Moser, Supervisor Results from Lab Sections 4 and 5 have been authorized by Vicky Snook, Supervisor Results from Lab Section 6 have been authorized by Marion McConnell, Supervisor

* Test methods and data are validated by the laboratory's Quality Assurance Program.

* Routine methods follow recognized procedures from sources such as

* Standard Methods for the Examination of Water and Wastewater APHA AWWA WEF

* Environment Canada

* US EPA

* CANMET

* The results reported relate only to the test samples as provided by the client.

* Samples will be kept for 30 days after the final report is sent. Please contact the lab if you have any special requirements.

* Additional information is available upon request.

This is a final report.



www.src.sk.ca/analytical

SRC Group # 2017-5029 May 18, 2017

EXOVA

104-19575 55A Avenue Surrey, BC V3S 8P8 Attn: Client Services

Date Samples Received: May-08-2017

Client P.O.: POC102913

| 16999 | 05/03/2017 1200559-1 B 2017054 *WATER* |
|-------|--|
| 17000 | 05/03/2017 1200559-2 B 2017055 *WATER* |
| 17001 | 05/03/2017 1200559-3 B 2017056 *WATER* |

| Analyte | Units | 16999 | 17000 | 17001 | |
|--------------------------|---------|-------|-------|-------|--|
| Lab Section 4 (Radiocher | nistry) | | | | |
| Radium-226 | Bq/L | 0.02 | 0.01 | 0.01 | |



www.src.sk.ca/analytical

SRC Group # 2017-5029 May 18, 2017

EXOVA

17002

05/02/2017 1200559-4 B 2017057 *WATER*

| Analyte | Units | 17002 | |
|-------------------------|----------|-------|--|
| Lab Section 4 (Radioche | emistry) | | |
| Radium-226 | Bq/L | 0.008 | |

Report Transmission Cover Page



| Bill To: | YTG DOE - Water Resources | Project ID: | KBS | Lot ID: | 1273550 |
|-------------|---------------------------|-------------------|---------------------|-----------------|--------------|
| | 202, 419 Range Road | Project Name: | Kotaneelee Baseline | Control Number: | |
| | Whitehorse, YT, Canada | | Survey | Date Received: | May 25, 2018 |
| | Y1A 3V1 | Project Location: | Kotaneelee Region | Date Reported: | Jun 27, 2018 |
| Attn: | John Miller | LSD: | | Report Number: | 2290448 |
| Sampled By: | John Minder | P.O.: | | | |
| Company: | YG - Environment | Proj. Acct. code: | | | |

| Contact | Company | Address | | | | |
|--------------------------|---------------------------|---------------------------------|-------------------|--|--|--|
| Holly Goulding | YTG DOE - Water Resources | 202, 419 Range Road | | | | |
| | | Whitehorse, YT Y1A 3V1 | | | | |
| | | Phone: (867) 456-6583 Fax | x: (867) 667-3194 | | | |
| | | Email: holly.goulding@gov.yk.ca | | | | |
| Delivery | <u>Format</u> | Deliverables | | | | |
| Email - Merge Reports | PDF | COC / Test Report | | | | |
| Email - Single Report | EQWin | Test Report | | | | |
| Email - Single Report | PDF | Invoice | | | | |
| John Miller | YTG DOE - Water Resources | 202, 419 Range Road | | | | |
| | | Whitehorse, YT Y1A 3V1 | | | | |
| | | Phone: (867) 667-3104 Fax | x: (867) 667-3194 | | | |
| | | Email: john.miller@gov.yk.ca | | | | |
| Delivery | Format | Deliverables | | | | |
| Email - Multiple Reports | By Lot EQWin | Test Report | | | | |
| Email - Multiple Reports | By Lot PDF | COC / Test Report | | | | |
| Email - Single Report | PDF | COA | | | | |
| Email - Single Report | PDF | COR | | | | |
| Email - Single Report | PDF | Invoice | | | | |
| John Minder | YTG DOE - Water Resources | 202, 419 Range Road | | | | |
| | | Whitehorse, YT Y1A 3V1 | | | | |
| | | Phone: (867) 667-3102 Fax | x: (867) 667-3194 | | | |
| | | Email: john.minder@gov.yk.ca | | | | |
| Delivery | <u>Format</u> | Deliverables | | | | |
| Email - Multiple Reports | By Lot EQWin | Test Report | | | | |
| Email - Multiple Reports | By Lot PDF | COC / Test Report | | | | |
| Email - Single Report | PDF | COA | | | | |
| Email - Single Report | PDF | COR | | | | |
| Email - Single Report | PDF | Invoice | | | | |
| Tyler Williams | YTG DOE - Water Resources | 202, 419 Range Road | | | | |
| | | Whitehorse, YT Y1A 3V1 | | | | |
| | | Phone: (867) 667-3233 Fax | x: (867) 667-3194 | | | |
| | | Email: Tyler.Williams@gov.yk.ca | | | | |
| Delivery | Format | Deliverables | | | | |
| Email - Multiple Reports | By Lot EQWin | Test Report | | | | |
| Email - Multiple Reports | By Lot PDF | COC / Test Report | | | | |

Notes To Clients:

May 28, 2018 - Sample 1273550-1; 6111295: Analysis was performed on sample 1273550-1 and 1273550-2 that exceeded the recommended holding time for nitrite and nitrate analysis.

May 29, 2018 - Reduction of analytical volume was necessary for metals analysis due to matrix effects in sample #1273550-1. Detection limits are adjusted accordingly.

May 29, 2018 - Sample 1273550-1; 6111295: Reduction of analytical volume was necessary for TP analysis to bring results within the analytical range for sample # 1273550-1. Detection limits are adjusted accordingly.

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Report Transmission Cover Page



| Bill To: | YTG DOE - Water Resources | Project ID: | KBS | Lot ID: | 1273550 |
|-------------|---------------------------|-------------------|---------------------|-----------------|--------------|
| | 202, 419 Range Road | Project Name: | Kotaneelee Baseline | Control Number: | |
| | Whitehorse, YT, Canada | | Survey | Date Received: | May 25, 2018 |
| | Y1A 3V1 | Project Location: | Kotaneelee Region | Date Reported: | Jun 27, 2018 |
| Attn: | John Miller | LSD: | | Report Number: | 2290448 |
| Sampled By: | John Minder | P.U.: | | | |
| Company: | YG - Environment | Proj. Acct. code: | | | |

Notes To Clients:

• May 29, 2018 - Sample 1273550-1; 6111295: Reduction of analytical volume was necessary for anions due to matrix effects in sample 1273550-1 and 1273550-2. Detection limits are adjusted accordingly.

May 30, 2018 - Reduction of analytical volume was necessary for iron and manganese analysis to bring results within the analytical range for samples
 #1273550-1 and 2. Detection limits are adjusted accordingly.

Jun 08, 2018 - Reduction of analytical volume was necessary for total suspended solids due to matrix effects in samples 1273550-1 and 2. Detection limits are adjusted accordingly.

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Analytical Report



| Bill To: | YTG DOE - Water Resources | Project ID: | KBS | Lot ID: | 1273550 |
|-------------|---------------------------|-------------------|---------------------|-----------------|--------------|
| | 202, 419 Range Road | Project Name: | Kotaneelee Baseline | Control Number: | |
| | Whitehorse, YT, Canada | | Survey | Date Received: | May 25, 2018 |
| | Y1A 3V1 | Project Location: | Kotaneelee Region | Date Reported: | Jun 27, 2018 |
| Attn: | John Miller | LSD: | | Report Number: | 2290448 |
| Sampled By: | John Minder | P.O.: | | | |
| Company: | YG - Environment | Proj. Acct. code: | | | |

| Sample Date May 23, 2018 May 23, 2018 | |
|---|--------------------|
| Sample Time 15:15 17:48 | |
| Sample Location | |
| Sample Description YOWN-1507 (Gas LBRV-DP6 (Labiche | |
| plant well) / 2018057 River Drive Point | |
| / B Well #6) / 2018059 / | |
| D | |
| Matrix Water Water | Naminal Data dia n |
| Analyte Units Results Results Result | ts Limit |
| Inorganic Nonmetallic Parameters | |
| Nitrogen Total mg/L 0.39 1.61 | 0.06 |
| Organic Carbon Total Nonpurgeable mg/L 20 11.7 | 0.5 |
| Organic Carbon Dissolved Nonpurgeable mg/L 3.5 7.5 | 0.5 |
| Inorganic carbon Total mg/L 68.5 122 | 0.5 |
| Inorganic carbon Dissolved mg/L 67.2 114 | 0.5 |
| Ammonia - N mg/L 0.27 1.20 | 0.01 |
| Phosphorus Total mg/L 1.16 0.040 | 0.003 |
| Metals Dissolved | |
| Mercury Dissolved mg/L <0.00001 <0.00001 | 0.00001 |
| Metals Total | |
| Calcium Total mg/L 200 83 | 0.01 |
| Magnesium Total mg/L 41 15 | 0.02 |
| Potassium Total mg/L 62 4.4 | 0.04 |
| Silicon Total mg/L 140 3.8 | 0.005 |
| Sulfur Total mg/L 48 6.6 | 0.02 |
| Sodium Total mg/L 16 130 | 0.1 |
| Titanium Total mg/L 1.8 0.009 | 0.002 |
| Digestion Preparation Field Pres, digest as total Hg total Hg | |
| Mercury Total mg/L <0.00001 0.00001 | 0.00001 |
| Physical and Aggregate Properties | |
| Solids Total Suspended mg/L 550 34 | 2 |
| Solids Total Dissolved mg/L 460 580 | 5 |
| Routine Water | |
| pH - Holding Time Exceeded Exceeded | |
| pH at 25 °C 7.75 7.85 | 0.01 |
| Electrical Conductivity µS/cm at 25 793 930 °C | 1 |
| Calcium Dissolved mg/L 93 75 | 0.01 |
| Magnesium Dissolved mg/L 23 14 | 0.02 |
| Potassium Dissolved mg/L 45 4.2 | 0.04 |
| Silicon Dissolved mg/L 2.4 3.9 | 0.005 |
| Sodium Dissolved mg/L 16 130 | 0.1 |
| Sulfur Dissolved mg/L 29 6.7 | 0.02 |
| Bicarbonate mg/L 365 571 | 5 |
| Carbonate mg/L <6 <6 | 6 |
| Hydroxide mg/L <5 <5 | 5 |

ns-of-contract-short-form.pd



| Bill To: | YTG DOE - Water Resources | Project ID: | KBS | Lot ID: | 1273550 |
|-------------|---------------------------|-------------------|---------------------|-----------------|--------------|
| | 202, 419 Range Road | Project Name: | Kotaneelee Baseline | Control Number: | |
| | Whitehorse, YT, Canada | | Survey | Date Received: | May 25, 2018 |
| | Y1A 3V1 | Project Location: | Kotaneelee Region | Date Reported: | Jun 27, 2018 |
| Attn: | John Miller | LSD: | | Report Number: | 2290448 |
| Sampled By: | John Minder | P.O.: | | | |
| Company: | YG - Environment | Proj. Acct. code: | | | |

| | | Reference Number | 1273550-1 | 1273550-2 | | |
|-------------------------------------|-----------------------------|-----------------------------------|--|---|---------|-------------------|
| | | Sample Date | May 23, 2018 | May 23, 2018 | | |
| | | Sample Time | 15:15 | 17:48 | | |
| | | Sample Location | | | | |
| | : | Sample Description | YOWN-1507 (Gas plant well) / 2018057 / B | LBRV-DP6 (Labiche River Drive Point Well #6) / 2018059 / B | | |
| | | Matrix | Water | Water | | |
| Analyte | | Units | Results | Results | Results | Nominal Detection |
| Routine Water - Continued | | | | | | |
| P-Alkalinity | as CaCO3 | mg/L | <5 | <5 | | 5 |
| T-Alkalinity | as CaCO3 | mg/L | 299 | 468 | | 5 |
| Bromide | Dissolved | mg/L | <0.2 | <0.2 | | 0.02 |
| Chloride | Dissolved | mg/L | 14.7 | 3.4 | | 0.05 |
| Nitrate - N | Dissolved | ma/L | <0.1 | <0.1 | | 0.01 |
| Nitrite - N | Dissolved | ma/L | <0.1 | <0.1 | | 0.01 |
| Sulfate (SO4) | Dissolved | mg/l | 93 | 19 | | 0.1 |
| Hardness | as CaCO3 (dissolved |) mg/l | 330 | 250 | | 5 |
| Total Dissolved Solids | Calculated Value | mg/L | 470 | 540 | | 1 |
| Ionic Balance | Dissolved | % | 100 | 110 | | • |
| Mono-Aromatic Hydrocarb | ons - Water | 70 | 100 | 110 | | |
| Renzene | | uo/l | <0.5 | <0.5 | | 0.5 |
| Ethylbenzene | | µg/L | <0.5 | <0.5 | | 0.5 |
| Methyl t-Butyl Ether | | µg/L | <0.5 | <0.5 | | 0.5 |
| Styrepe | | µg/L | <0.5 | <0.5 | | 0.5 |
| Toluono | | µg/L | <0.5 | <0.5 | | 0.5 |
| Total Yylonos (m.n.o) | | µg/L | <0.5 | <0.5 | | 0.5 |
| Volatila Potroloum Hydroe | arbons - Wator | µy/L | <0.5 | <0.5 | | 0.5 |
| | arbons - water | ug/l | ~50 | ~50 | | 50 |
| BTEX) | | µy/L | <50 | <50 | | 50 |
| VHw6-10 | | µg/L | <50 | <50 | | 50 |
| Trace Metals Dissolved | | 10 | | | | |
| Digestion | Dissolved | | Field filtered and Pres Dissol | Field filtered and Pres Dissol | | |
| Titanium | Dissolved | mg/L | 0.009 | 0.008 | | 0.002 |
| Aluminum | Dissolved | mg/L | <0.001 | 0.005 | | 0.001 |
| Antimony | Dissolved | mg/L | 0.00014 | <0.00002 | | 0.00002 |
| Arsenic | Dissolved | mg/L | 0.0031 | 0.0031 | | 0.0001 |
| Barium | Dissolved | mg/L | 0.2185 | 0.3188 | | 0.0001 |
| Beryllium | Dissolved | mg/L | <0.00005 | <0.00005 | | 0.00005 |
| Bismuth | Dissolved | mg/L | <0.0001 | <0.0001 | | 0.0001 |
| Boron | Dissolved | mg/L | 0.164 | 0.086 | | 0.002 |
| Cadmium | Dissolved | mg/L | <0.00001 | <0.00001 | | 0.00001 |
| Chromium | Dissolved | mg/L | <0.00005 | <0.00005 | | 0.00005 |
| Cobalt | Dissolved | mg/L | 0.00112 | 0.00070 | | 0.00002 |
| Copper | Dissolved | mg/L | <0.0005 | <0.0005 | | 0.0005 |
| Iron | Dissolved | mg/L | 10.5 | 15.8 | | 0.002 |
| Terms and Conditions: https://www.e | exova.com/media/1232/exova- | - canada-inc-standard-conditic | ns-of-contract-short-form.pdf | | | |

Analytical Report



| Bill To: | YTG DOE - Water Resources | Project ID: | KBS | Lot ID: | 1273550 |
|-------------|---------------------------|-------------------|---------------------|-----------------|--------------|
| | 202, 419 Range Road | Project Name: | Kotaneelee Baseline | Control Number: | |
| | Whitehorse, YT, Canada | | Survey | Date Received: | May 25, 2018 |
| | Y1A 3V1 | Project Location: | Kotaneelee Region | Date Reported: | Jun 27, 2018 |
| Attn: | John Miller | LSD: | | Report Number: | 2290448 |
| Sampled By: | John Minder | P.O.: | | | |
| Company: | YG - Environment | Proj. Acct. code: | | | |

| | | Reference Number | 1273550-1 | 1273550-2 | | |
|---------------------------------|----------------|--------------------|--|---|---------|-------------------|
| | | Sample Date | May 23, 2018 | May 23, 2018 | | |
| | | Sample Time | 15:15 | 17:48 | | |
| | | Sample Location | | | | |
| | | Sample Description | YOWN-1507 (Gas plant well) / 2018057 / B | LBRV-DP6 (Labiche River Drive Point Well #6) / 2018059 / B | | |
| | | Matrix | Water | Water | | |
| Analyte | | Units | Results | Results | Results | Nominal Detection |
| Trace Metals Dissolv | ed - Continued | | | | | Linit |
| Lead | Dissolved | mg/L | <0.00001 | 0.00003 | | 0.00001 |
| Lithium | Dissolved | mg/L | 0.0050 | 0.0121 | | 0.0005 |
| Manganese | Dissolved | mg/L | 0.608 | 1.25 | | 0.001 |
| Molvbdenum | Dissolved | mg/L | 0.00657 | 0.00503 | | 0.00002 |
| Nickel | Dissolved | ma/L | 0.0133 | 0.0020 | | 0.0002 |
| Selenium | Dissolved | mg/l | < 0.0002 | <0.0002 | | 0.0002 |
| Silver | Dissolved | mg/l | <0.00001 | <0.00001 | | 0.00001 |
| Strontium | Dissolved | mg/L | 0 2533 | 0 2228 | | 0.0001 |
| Tellurium | Dissolved | mg/L | <0.00005 | <0.00005 | | 0.00005 |
| Thallium | Dissolved | mg/L | <0.00000 | <0.00000 | | 0.00000 |
| Thorium | Dissolved | mg/L | 0.00017 | 0.00022 | | 0.00001 |
| Tin | Dissolved | mg/L | <0.0001 | <0.00022 | | 0.00000 |
| Uranium | Dissolved | mg/L | 0.00061 | 0.0007 | | 0.0001 |
| Vanadium | Dissolved | mg/L | <0.00001 | 0.00020 | | 0.00001 |
| Zino | Dissolved | mg/L | <0.00005 | 0.00031 | | 0.00005 |
| | Dissolved | mg/L | 0.0007 | 0.1700 | | 0.0005 |
| Zirconium Trace Metale Tetal | Dissolved | mg/∟ | <0.0001 | 0.0006 | | 0.0001 |
| | Tatal | | 70 | 0.040 | | 0.004 |
| Aluminum | Total | mg/L | 70 | 0.043 | | 0.001 |
| Antimony | Total | mg/L | 0.018 | <0.00002 | | 0.00002 |
| Arsenic | Total | mg/L | 0.19 | 0.0031 | | 0.0001 |
| Barium | lotal | mg/L | 1.3 | 0.35 | | 0.0001 |
| Beryllium | Total | mg/L | 0.0020 | <0.00005 | | 0.00005 |
| Bismuth | Total | mg/L | <0.0005 | <0.0001 | | 0.0001 |
| Boron | Total | mg/L | 0.28 | 0.093 | | 0.002 |
| Cadmium | Total | mg/L | 0.0057 | <0.00001 | | 0.00001 |
| Chromium | Total | mg/L | 0.35 | 0.00019 | | 0.00005 |
| Cobalt | Total | mg/L | 0.13 | 0.00080 | | 0.00002 |
| Copper | Total | mg/L | 1.2 | <0.0002 | | 0.0002 |
| Iron | Total | mg/L | 1000 | 16 | | 0.002 |
| Lead | Total | mg/L | 0.082 | 0.00007 | | 0.00001 |
| Lithium | Total | mg/L | 0.051 | 0.014 | | 0.0005 |
| Manganese | Total | mg/L | 6.3 | 1.3 | | 0.001 |
| Molybdenum | Total | mg/L | 0.21 | 0.0058 | | 0.00002 |
| Nickel | Total | mg/L | 0.85 | 0.0023 | | 0.0002 |
| Selenium | Total | mg/L | 0.0050 | <0.0002 | | 0.0002 |
| Silver | Total | mg/L | 0.00099 | <0.00001 | | 0.00001 |

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Analytical Report



| Bill To: | YTG DOE - Water Resources | Project ID: | KBS | Lot ID: | 1273550 |
|-------------|---------------------------|-------------------|---------------------|-----------------|--------------|
| | 202, 419 Range Road | Project Name: | Kotaneelee Baseline | Control Number: | |
| | Whitehorse, YT, Canada | | Survey | Date Received: | May 25, 2018 |
| | Y1A 3V1 | Project Location: | Kotaneelee Region | Date Reported: | Jun 27, 2018 |
| Attn: | John Miller | LSD: | | Report Number: | 2290448 |
| Sampled By: | John Minder | P.O.: | | | |
| Company: | YG - Environment | Proj. Acct. code: | | | |

| | | Reference Number | 1273550-1 | 1273550-2 | | |
|--------------------------|--------|--------------------|--|---|---------|----------------------------|
| | | Sample Date | May 23, 2018 | May 23, 2018 | | |
| | | Sample Time | 15:15 | 17:48 | | |
| | | Sample Location | | | | |
| | | Sample Description | YOWN-1507 (Gas plant well) / 2018057 / B | LBRV-DP6 (Labiche River Drive Point Well #6) / 2018059 / B | | |
| | | Matrix | Water | Water | | |
| Analyte | | Units | Results | Results | Results | Nominal Detection Limit |
| Trace Metals Total - Con | tinued | | | | | |
| Strontium | Total | mg/L | 0.43 | 0.24 | | 0.0001 |
| Tellurium | Total | mg/L | < 0.0003 | <0.00005 | | 0.00005 |
| Thallium | Total | mg/L | 0.00089 | <0.00001 | | 0.00001 |
| Thorium | Total | mg/L | 0.014 | 0.00021 | | 0.00005 |
| Tin | Total | mg/L | 0.082 | <0.0001 | | 0.0001 |
| Uranium | Total | mg/L | 0.0087 | 0.00030 | | 0.00001 |
| Vanadium | Total | mg/L | 0.16 | 0.00059 | | 0.00005 |
| Zinc | Total | mg/L | 1.2 | 0.69 | | 0.0005 |
| Zirconium | Total | mg/L | 0.025 | 0.0007 | | 0.0001 |
| Subcontracted Analysis | | | | | | |
| Subcontractor Report Id | SRC | | Done | Done | | |

Nothiert SUM

Approved by: Mathieu Simoneau **Operations Manager**

Data have been validated by Analytical Quality Control and Exova's Integrated Data Validation System (IDVS). Generation and distribution of the report, and approval by the digitized signature above, are performed through a secure and controlled automatic process. Terms and Conditions: https://www.exova.com/media/1232/exova-canada-inc-standard-conditions-of-contract-short-form.pdf

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Quality Control



| Bill To: | YTG DOE - Water Resources | Project ID: | KBS | Lot ID: | 1273550 |
|-------------|---------------------------|-------------------|---------------------|-----------------|--------------|
| | 202, 419 Range Road | Project Name: | Kotaneelee Baseline | Control Number: | |
| | Whitehorse, YT, Canada | | Survey | Date Received: | May 25, 2018 |
| | Y1A 3V1 | Project Location: | Kotaneelee Region | Date Reported: | Jun 27, 2018 |
| Attn: | John Miller | LSD: | | Report Number: | 2290448 |
| Sampled By: | John Minder | P.O.: | | | |
| Company: | YG - Environment | Proj. Acct. code: | | | |

Inorganic Nonmetallic Parameters

| Blanks | Units | Measured | Lower Limit | Upper Limit | | Passed QC |
|-------------------|---------------|-------------|-------------|----------------|-------------------|-----------|
| Ammonium - N | μg/L | -14.778 | -110.00 | 10.00 | | yes |
| Phosphorus | mg/L | -0.0008 | -0.003 | 0.003 | | yes |
| Date Acquired: | May 28, 2018 | | | | | |
| Nitrogen | mg/L | 0 | -0.04 | 0.08 | | yes |
| Organic Carbon | mg/L | 0.3598 | -0.5 | 0.5 | | yes |
| Inorganic carbon | mg/L | 0.08815 | -0.5 | 0.5 | | yes |
| Date Acquired: | June 07, 2018 | | | | | |
| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | | Passed QC |
| Ammonium - N | µg/L | 93.03 | 85 | 115 | | yes |
| Phosphorus | mg/L | 101.70 | 90 | 110 | | yes |
| Date Acquired: | May 28, 2018 | | | | | |
| Ammonium - N | µg/L | 117.80 | 70 | 130 | | ves |
| Phosphorus | mg/L | 96.00 | 80 | 120 | | yes |
| Date Acquired: | May 28, 2018 | | | | | |
| Client Sample Rep | licates Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Nitrogen | ma/L | 0.26 | 0.26 | 10 | 0.06 | ves |
| Organic Carbon | mg/L | 9.8 | 9.5 | 10 | 1.0 | ves |
| Inorganic carbon | mg/L | <0.5 | <0.5 | 10 | 1.0 | yes |
| Date Acquired: | June 07. 2018 | | | | | , |
| Ammonia - N | ma/l | 3 67 | 3 70 | 20 | 50.00 | ves |
| Phosphorus | mg/L | 0.086 | 0.087 | 20 | 0.010 | ves |
| Date Acquired: | May 28, 2018 | 0.000 | 0.001 | 20 | 0.010 | ,00 |
| Control Sample | | Moasurod | Lower Limit | Uppor Limit | | Passad OC |
| Organic Carbon | onits mg/l | | -0.5 | | | rasseu uc |
| Date Acquired: | May 20, 2018 | <0.5 | 0.5 | 0.0 | | ycs |
| Date Acquired. | way 29, 2010 | 444 | 400 74 | 407.00 | | |
| Nitrogen | mg/L | 114 | 103.74 | 137.28 | | yes |
| | mg/L | 124 | 109.1 | 57.0 | | yes |
| | | 47.5 | 59.0 | 57.0 | | yes |
| Date Acquired: | June 07, 2018 | | | 10.00 | | |
| Nitrogen | mg/L | 15.1 | 13.27 | 16.93 | | yes |
| Organic Carbon | mg/L | 15.5 | 12.8 | 17.2 | | yes |
| inorganic carbon | mg/L | 14.4 | 13.5 | 18.3 | | yes |
| Date Acquired: | June 07, 2018 | | | | | |
| Nitrogen | mg/L | 1.07 | 0.89 | 1.25 | | yes |
| Organic Carbon | mg/L | 3.3 | 2.4 | 4.0 | | yes |
| Inorganic carbon | mg/L | 3.0 | 2.7 | 3.9 | | yes |
| Date Acquired: | June 07, 2018 | | | | | |
| Metals Dissolved | ł | | | | | |
| Blanks | Units | Measured | Lower Limit | Upper Limit | | Passed QC |
| Mercury | ng/L | -0.054 | -9.99 | 9.99 | | yes |
| Date Acquired: | May 29, 2018 | | | | | |
| | · · · | | | | | |

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Quality Control



| Bill To: | YTG DOE - Water Resources | Project ID: | KBS | Lot ID: | 1273550 |
|-------------|---------------------------|-------------------|---------------------|-----------------|--------------|
| | 202, 419 Range Road | Project Name: | Kotaneelee Baseline | Control Number: | |
| | Whitehorse, YT, Canada | | Survey | Date Received: | May 25, 2018 |
| | Y1A 3V1 | Project Location: | Kotaneelee Region | Date Reported: | Jun 27, 2018 |
| Attn: | John Miller | LSD: | | Report Number: | 2290448 |
| Sampled By: | John Minder | P.O.: | | | |
| Company: | YG - Environment | Proj. Acct. code: | | | |

Metals Dissolved - Continued

| Calibration Check | | Units | % Recovery | Lower Limit | Upper Limit | | Passed QC |
|---------------------|------------|-------|--------------|-------------|----------------|-------------------|-----------|
| Mercury | | ng/L | 98.11 | 90 | 110 | | yes |
| Date Acquired: | May 29, | 2018 | | | | | |
| Certified Reference | e Material | Units | Measured | Target | Lower Limit | Upper Limit | Passed QC |
| Mercury | | µg/L | 0.03 | 0.03 | 0.02 | 0.05 | yes |
| Date Acquired: | May 29, | 2018 | | | | | |
| Client Sample Repl | licates | Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Mercury | | µg/L | <0.01 | <0.01 | 20 | 0.05 | yes |
| Date Acquired: | May 29, | 2018 | | | | | |
| Metals Total | | | | | | | |
| Blanks | | Units | Measured | Lower Limit | Upper Limit | | Passed QC |
| Calcium | | mg/L | 0 | -0.010 | 0.010 | | yes |
| Magnesium | | mg/L | 6.15429e-006 | -0.020 | 0.020 | | yes |
| Potassium | | mg/L | 0.0316069 | -0.040 | 0.040 | | yes |
| Silicon | | mg/L | 0.0017526 | -0.005 | 0.005 | | yes |
| Sodium | | mg/L | 0 | -0.099 | 0.099 | | yes |
| Date Acquired: | May 28, | 2018 | | | | | |
| Mercury | | ng/L | -0.866 | -9.990 | 9.990 | | yes |
| Date Acquired: | May 29, | 2018 | | | | | |
| Calibration Check | | Units | % Recovery | Lower Limit | Upper Limit | | Passed QC |
| Mercury | | ng/L | 98.11 | 90 | 110 | | yes |
| Date Acquired: | May 29, | 2018 | | | | | |
| Calcium | | mg/L | 109.92 | 90 | 110 | | yes |
| Magnesium | | mg/L | 107.20 | 90 | 110 | | yes |
| Potassium | | mg/L | 104.30 | 90 | 110 | | yes |
| Silicon | | mg/L | 102.93 | 90 | 110 | | yes |
| Sodium | | mg/L | 102.92 | 90 | 110 | | yes |
| Titanium | | mg/L | 101.46 | 90 | 110 | | yes |
| Date Acquired: | May 28, | 2018 | | | | | |
| Calcium | | mg/L | 109.59 | 90 | 110 | | yes |
| Magnesium | | mg/L | 104.44 | 90 | 110 | | yes |
| Potassium | | mg/L | 105.50 | 90 | 110 | | yes |
| Silicon | | mg/L | 101.39 | 90 | 110 | | yes |
| Sodium | | mg/L | 90.72 | 90 | 110 | | yes |
| Titanium | | mg/L | 100.37 | 90 | 110 | | yes |
| Date Acquired: | May 28, | 2018 | | | | | |
| Certified Reference | e Material | Units | Measured | Target | Lower Limit | Upper Limit | Passed QC |
| Mercury | | µg/L | 0.03 | 0.035 | 0.023 | 0.047 | yes |
| Date Acquired: | May 29, | 2018 | | | | | |
| Client Sample Repl | licates | Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Calcium | | mg/L | 32 | 32 | 20 | 0.050 | yes |
| Magnesium | | mg/L | 9.6 | 9.3 | 20 | 0.050 | yes |
| | | | | | | | |

Quality Control



| Bill To: | YTG DOE - Water Resources | Project ID: | KBS | Lot ID: | 1273550 |
|----------------------|--|---|---|---|---|
| Attn: Sampled By: | 202, 419 Range Road Whitehorse, YT, Canada Y1A 3V1 John Miller John Minder | Project ID: Project Name: Project Location: LSD: P.O.: Proj Acst codo: | KBS Kotaneelee Baseline Survey Kotaneelee Region | Control Number: Date Received: Date Reported: Report Number: | May 25, 2018 Jun 27, 2018 2290448 |
| Company: | YG - Environment | FIOJ. ACCI. CODE. | | | |

Metals Total - Continued

| Client Sample Replicates | s Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
|--------------------------|----------|-------------|-------------|----------------|-------------------|-----------|
| Potassium | mg/L | 1.5 | 1.5 | 20 | 0.100 | yes |
| Silicon | mg/L | 5.0 | 5.0 | 20 | 0.100 | yes |
| Sodium | mg/L | 2.8 | 2.8 | 20 | 0.100 | yes |
| Mercury | µg/L | <0.01 | <0.01 | 20 | 0.050 | yes |
| Date Acquired: May | 29, 2018 | | | | | |

Mono-Aromatic Hydrocarbons - Water

| Blanks | Units | Measured | Lower Limit | Upper Limit | | Passed QC |
|-----------------------|---------|-------------|-------------|----------------|-------------------|-----------|
| Benzene | ng | 0 | -0.5 | 0.5 | | yes |
| Ethylbenzene | ng | 0 | -0.5 | 0.5 | | yes |
| Methyl t-Butyl Ether | ng | 0 | -0.5 | 0.5 | | yes |
| m,p-Xylene | ng | 0 | -0.5 | 0.5 | | yes |
| o-Xylene | ng | 0 | -0.5 | 0.5 | | yes |
| Styrene | ng | 0 | -0.5 | 0.5 | | yes |
| Toluene | ng | 0 | -0.5 | 0.5 | | yes |
| Total Xylenes (m,p,o) | ng | 0 | -0.5 | 0.5 | | yes |
| Dibromofluoromethane | % | 102.86 | 74.990 | 115.010 | | yes |
| Toluene-d8 | % | 106.32 | 80.000 | 110.000 | | yes |
| 4-Bromofluorobenzene | % | 110.6 | 85.000 | 115.000 | | yes |
| Date Acquired: June 0 | 1, 2018 | | | | | |
| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | | Passed QC |
| Benzene | ng | 102.76 | 80 | 120 | | yes |
| Ethylbenzene | ng | 104.95 | 80 | 120 | | yes |
| Methyl t-Butyl Ether | ng | 113.77 | 80 | 120 | | yes |
| m,p-Xylene | ng | 104.73 | 80 | 120 | | yes |
| o-Xylene | ng | 113.89 | 80 | 120 | | yes |
| Styrene | ng | 102.53 | 80 | 120 | | yes |
| Toluene | ng | 119.10 | 80 | 120 | | yes |
| Total Xylenes (m,p,o) | ng | 107.78 | 80 | 120 | | yes |
| Dibromofluoromethane | % | 100.32 | 80 | 120 | | yes |
| Toluene-d8 | % | 99.26 | 80 | 120 | | yes |
| 4-Bromofluorobenzene | % | 98.92 | 80 | 120 | | yes |
| Date Acquired: June 0 | 1, 2018 | | | | | |
| Replicates | Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Benzene | µg/L | <0.5 | <0.5 | 20 | 2.5 | yes |
| Ethylbenzene | µg/L | <0.5 | <0.5 | 20 | 2.5 | yes |
| Methyl t-Butyl Ether | µg/L | <0.5 | <0.5 | 20 | 2.5 | yes |
| m,p-Xylene | µg/L | <0.5 | <0.5 | 20 | 2.5 | yes |
| o-Xylene | µg/L | <0.5 | <0.5 | 20 | 2.5 | yes |
| Styrene | µg/L | <0.5 | <0.5 | 20 | 2.5 | yes |
| Toluene | µg/L | <0.5 | <0.5 | 20 | 2.5 | yes |
| Total Xylenes (m,p,o) | µg/L | <0.5 | <0.5 | 20 | 2.5 | yes |
| Date Acquired: June 0 | 1, 2018 | | | | | |

Quality Control



| Bill To: | YTG DOE - Water Resources | Project ID: | KBS | Lot ID: | 1273550 |
|-------------|---------------------------|-------------------|---------------------|-----------------|--------------|
| | 202, 419 Range Road | Project Name: | Kotaneelee Baseline | Control Number: | |
| | Whitehorse, YT, Canada | | Survey | Date Received: | May 25, 2018 |
| | Y1A 3V1 | Project Location: | Kotaneelee Region | Date Reported: | Jun 27, 2018 |
| Attn: | John Miller | LSD: | | Report Number: | 2290448 |
| Sampled By: | John Minder | P.O.: | | | |
| Company: | YG - Environment | Proj. Acct. code: | | | |

Mono-Aromatic Hydrocarbons - Water -

| Continued | | | | | |
|-----------------------|----------|------------|-------------|-------------|-----------|
| Matrix Spike | Units | % Recovery | Lower Limit | Upper Limit | Passed QC |
| Benzene | µg/L | 103 | 80 | 120 | yes |
| Ethylbenzene | µg/L | 102 | 80 | 120 | yes |
| Methyl t-Butyl Ether | µg/L | 99 | 80 | 120 | yes |
| m,p-Xylene | µg/L | 101 | 80 | 120 | yes |
| o-Xylene | µg/L | 114 | 80 | 120 | yes |
| Styrene | µg/L | 93 | 80 | 120 | yes |
| Toluene | µg/L | 112 | 80 | 120 | yes |
| Total Xylenes (m,p,o) | µg/L | 105 | 80 | 120 | yes |
| Date Acquired: June (| 01, 2018 | | | | |

Physical and Aggregate Properties

| Passed QC | Absolute Criteria | % RSD Criteria | nits Replicate 1 Replicate 2 | | licates Units | Client Sample Replicates | |
|-----------|-------------------|----------------|------------------------------|----------|---------------|--------------------------|--|
| yes | 50.000 | 30 | 6 | 8 | mg/L | Solids | |
| | | | | | June 08, 2018 | Date Acquired: | |
| Passed QC | | Upper Limit | Lower Limit | Measured | Units | Control Sample | |
| yes | | 610.600 | 412.000 | 610 | mg/L | Solids | |
| | | | | | June 08, 2018 | Date Acquired: | |
| yes | | 37.200 | 18.000 | 24 | mg/L | Solids | |
| | | | | | June 08, 2018 | Date Acquired: | |
| yes | | 5.001 | -5.001 | <5 | mg/L | Solids | |
| | | | | | June 08, 2018 | Date Acquired: | |
| yes | | 5.010 | -5.010 | <2 | mg/L | Solids | |
| | | | | | June 08, 2018 | Date Acquired: | |

Routine Water

| Blanks | Units | Measured | Lower Limit | Upper Limit | Passed QC |
|-------------------|--------------|-------------|-------------|-------------|-----------|
| Calcium | mg/L | -0.00936869 | -0.010 | 0.010 | yes |
| Magnesium | mg/L | 0.00483726 | -0.020 | 0.020 | yes |
| Potassium | mg/L | 0.0334458 | -0.040 | 0.040 | yes |
| Silicon | mg/L | -0.00319914 | -0.005 | 0.005 | yes |
| Sodium | mg/L | -0.0039022 | -0.099 | 0.099 | yes |
| Date Acquired: | May 28, 2018 | | | | |
| Bromide | mg/L | 0 | -0.099 | 0.099 | yes |
| Chloride | mg/L | 0.0135914 | -0.201 | 0.201 | yes |
| Nitrate - N | mg/L | 0 | -0.010 | 0.010 | yes |
| Nitrite - N | mg/L | 0 | -0.099 | 0.099 | yes |
| Sulfate (SO4) | mg/L | 0 | -0.990 | 0.990 | yes |
| Date Acquired: | May 28, 2018 | | | | |
| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | Passed QC |
| Calcium | mg/L | 104.49 | 90 | 110 | yes |
| Magnesium | mg/L | 104.61 | 90 | 110 | yes |
| Potassium | mg/L | 102.74 | 90 | 110 | yes |

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Quality Control



| Bill To: | YTG DOE - Water Resources | Project ID: | KBS | Lot ID: | 1273550 |
|-------------|---------------------------|-------------------|---------------------|-----------------|--------------|
| | 202, 419 Range Road | Project Name: | Kotaneelee Baseline | Control Number: | |
| | Whitehorse, YT, Canada | | Survey | Date Received: | May 25, 2018 |
| | Y1A 3V1 | Project Location: | Kotaneelee Region | Date Reported: | Jun 27, 2018 |
| Attn: | John Miller | LSD: | | Report Number: | 2290448 |
| Sampled By: | John Minder | P.O.: | | | |
| Company: | YG - Environment | Proj. Acct. code: | | | |

Routine Water - Continued

| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | | Passed QC |
|---------------------|----------------------|-------------|-------------|----------------|-------------------|-----------|
| Silicon | mg/L | 107.01 | 90 | 110 | | yes |
| Sodium | mg/L | 107.72 | 90 | 110 | | yes |
| Date Acquired: | May 28, 2018 | | | | | |
| Bromide | mg/L | 100.73 | 90 | 110 | | yes |
| Chloride | mg/L | 103.84 | 85 | 115 | | yes |
| Nitrate - N | mg/L | 102.38 | 85 | 115 | | yes |
| Nitrite - N | mg/L | 97.39 | 90 | 110 | | yes |
| Sulfate (SO4) | mg/L | 106.03 | 85 | 115 | | yes |
| Date Acquired: | May 28, 2018 | | | | | |
| Bromide | mg/L | 103.13 | 90 | 110 | | yes |
| Chloride | mg/L | 103.76 | 90 | 110 | | yes |
| Nitrate - N | mg/L | 102.65 | 88 | 108 | | yes |
| Nitrite - N | mg/L | 101.77 | 90 | 118 | | yes |
| Sulfate (SO4) | mg/L | 108.07 | 90 | 110 | | yes |
| Date Acquired: | May 28, 2018 | | | | | |
| Calcium | mg/L | 103.03 | 90 | 110 | | yes |
| Magnesium | mg/L | 102.44 | 90 | 110 | | yes |
| Potassium | mg/L | 101.00 | 90 | 110 | | ves |
| Sodium | mg/L | 104.21 | 90 | 110 | | ves |
| Date Acquired: | May 28, 2018 | | | | | |
| Certified Reference | e Material Units | Measured | Target | Lower Limit | Upper Limit | Passed QC |
| T-Alkalinity | mg/L | 9 | 10 | 9 | 11 | ves |
| Date Acquired: | May 30, 2018 | | | | | , |
| Client Sample Rep | licates Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Calcium | mg/L | 84 | 88 | 30 | 1.000 | ves |
| Magnesium | mg/L | 24 | 25 | 30 | 1.000 | ves |
| Date Acquired: | May 28, 2018 | | | | | |
| Hardness | mg CaCO3/L | 120 | 118 | 20 | 1.000 | ves |
| Date Acquired: | May 28, 2018 | | | | | , |
| pH | , | 7.90 | 7.87 | 10 | | yes |
| Electrical Conduc | tivity dS/m at 25 °C | 0.270 | 0.269 | 10 | 0.005 | yes |
| Bicarbonate | mg/L | 120 | 120 | 10 | 10 | yes |
| Hydroxide | mg/L | <5 | <5 | 10 | 10 | yes |
| P-Alkalinity | mg/L | <5 | <5 | 10 | 5 | yes |
| T-Alkalinity | mg/L | 99 | 98 | 10 | 5 | yes |
| Chloride | mg/L | 28.9 | 28.9 | 20 | 0.250 | yes |
| Nitrate - N | mg/L | 5.37 | 5.36 | 20 | 0.050 | yes |
| Nitrite - N | mg/L | <0.01 | <0.01 | 20 | 0.050 | yes |
| Sulfate (SO4) | mg/L | 11.5 | 11.5 | 20 | 0.500 | yes |
| Date Acquired: | May 28, 2018 | | | | | - |
| Replicates | Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Chloride | mg/L | 1.34 | 1.35 | 6 | 0.010 | yes |
| | | | | | | |

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Quality Control



| Bill To: | YTG DOE - Water Resources | Project ID: | KBS | Lot ID: | 1273550 |
|-------------|---------------------------|-------------------|---------------------|-----------------|--------------|
| | 202, 419 Range Road | Project Name: | Kotaneelee Baseline | Control Number: | |
| | Whitehorse, YT, Canada | | Survey | Date Received: | May 25, 2018 |
| | Y1A 3V1 | Project Location: | Kotaneelee Region | Date Reported: | Jun 27, 2018 |
| Attn: | John Miller | LSD: | | Report Number: | 2290448 |
| Sampled By: | John Minder | P.O.: | | | |
| Company: | YG - Environment | Proj. Acct. code: | | | |

Routine Water - Continued

| Replicates | Ur | nits | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
|-------------------|-------------|--------------|-------------|-------------|----------------|-------------------|-----------|
| Nitrate - N | mę | g/L | 0.31 | 0.31 | 12 | 0.050 | yes |
| Sulfate (SO4) | m | g/L | 4.9 | 4.9 | 6 | 0.010 | yes |
| Date Acquired: | May 28, 201 | 8 | | | | | |
| Control Sample | Ur | nits | Measured | Lower Limit | Upper Limit | | Passed QC |
| рН | | | 10.08 | 9.17 | 10.81 | | yes |
| Electrical Conduc | tivity μS | /cm at 25 °C | 235 | 194 | 250 | | yes |
| P-Alkalinity | m | g/L | 37 | 7 | 55 | | yes |
| T-Alkalinity | mg | g/L | 99 | 90 | 110 | | yes |
| Date Acquired: | May 30, 201 | 8 | | | | | |
| рН | | | 4.02 | 3.88 | 4.12 | | yes |
| Date Acquired: | May 30, 201 | 8 | | | | | |
| рН | | | 8.00 | 7.88 | 8.12 | | yes |
| Date Acquired: | May 30, 201 | 8 | | | | | |
| Electrical Conduc | tivity µS | /cm at 25 °C | 1436 | 1323 | 1503 | | yes |
| Date Acquired: | May 30, 201 | 8 | | | | | |

Trace Metals Dissolved

| Blanks | Units | Measured | Lower Limit | Upper Limit | Passed QC |
|------------|-------|-------------|-------------|-------------|-----------|
| Aluminum | μg/L | 0.465807 | -0.990 | 0.990 | yes |
| Antimony | µg/L | 0.00815761 | -0.020 | 0.020 | yes |
| Arsenic | µg/L | 0.00557738 | -0.099 | 0.099 | yes |
| Barium | µg/L | -0.0200421 | -0.099 | 0.099 | yes |
| Beryllium | µg/L | 0.00516476 | -0.050 | 0.050 | yes |
| Bismuth | µg/L | 0.00300111 | -0.099 | 0.099 | yes |
| Boron | µg/L | 0.521438 | -2.001 | 2.001 | yes |
| Cadmium | µg/L | 0 | -0.010 | 0.010 | yes |
| Chromium | µg/L | 0 | -0.050 | 0.050 | yes |
| Cobalt | µg/L | 0.00182134 | -0.020 | 0.020 | yes |
| Copper | µg/L | -0.0375043 | -0.050 | 0.050 | yes |
| Iron | µg/L | -0.638401 | -2.001 | 2.001 | yes |
| Lead | µg/L | 0.00275422 | -0.010 | 0.010 | yes |
| Lithium | µg/L | 0.00490877 | -0.500 | 0.500 | yes |
| Manganese | µg/L | -0.0617191 | -0.990 | 0.990 | yes |
| Molybdenum | µg/L | 0.00110579 | -0.020 | 0.020 | yes |
| Nickel | µg/L | -0.0727748 | -0.200 | 0.200 | yes |
| Selenium | µg/L | 0.0114333 | -0.200 | 0.200 | yes |
| Silver | µg/L | 0.000896842 | -0.009 | 0.009 | yes |
| Strontium | µg/L | -0.0111664 | -0.099 | 0.099 | yes |
| Tellurium | µg/L | -0.0187344 | -0.050 | 0.050 | yes |
| Thallium | µg/L | 0.00632805 | -0.010 | 0.010 | yes |
| Thorium | µg/L | -0.0170755 | -0.050 | 0.050 | yes |
| Tin | µg/L | -0.0713387 | -0.099 | 0.099 | yes |
| Uranium | µg/L | 0.00510549 | -0.010 | 0.010 | yes |
| | | | | | |

Quality Control



| Bill To: | YTG DOE - Water Resources | Project ID: | KBS | Lot ID: | 1273550 |
|-------------|---------------------------|-------------------|---------------------|-----------------|--------------|
| | 202, 419 Range Road | Project Name: | Kotaneelee Baseline | Control Number: | |
| | Whitehorse, YT, Canada | | Survey | Date Received: | May 25, 2018 |
| | Y1A 3V1 | Project Location: | Kotaneelee Region | Date Reported: | Jun 27, 2018 |
| Attn: | John Miller | LSD: | | Report Number: | 2290448 |
| Sampled By: | John Minder | P.O.: | | | |
| Company: | YG - Environment | Proj. Acct. code: | | | |

Trace Metals Dissolved - Continued

| Blanks | Units | Measured | Lower Limit | Upper Limit | Passed QC |
|-------------------|--------------|-------------|-------------|-------------|-----------|
| Vanadium | μg/L | 0 | -0.050 | 0.050 | yes |
| Zinc | μg/L | -0.076036 | -0.500 | 0.500 | yes |
| Zirconium | μg/L | 0.0131348 | -0.099 | 0.099 | yes |
| Titanium | μg/L | -0.00550152 | -0.099 | 0.099 | yes |
| Date Acquired: | May 28, 2018 | | | | |
| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | Passed QC |
| Titanium | mg/L | 101.96 | 90 | 110 | yes |
| Date Acquired: | May 28, 2018 | | | | |
| Aluminum | µg/L | 85.22 | 80 | 120 | yes |
| Antimony | μg/L | 103.53 | 90 | 110 | yes |
| Arsenic | μg/L | 91.49 | 90 | 110 | yes |
| Barium | μg/L | 91.95 | 90 | 110 | yes |
| Beryllium | µg/L | 102.98 | 90 | 110 | yes |
| Boron | µg/L | 95.12 | 70 | 130 | yes |
| Cadmium | µg/L | 92.36 | 90 | 110 | yes |
| Chromium | µg/L | 94.20 | 90 | 110 | yes |
| Cobalt | µg/L | 95.42 | 90 | 110 | yes |
| Copper | μg/L | 91.07 | 90 | 110 | yes |
| Lead | µg/L | 94.41 | 90 | 110 | yes |
| Lithium | µg/L | 99.45 | 90 | 110 | yes |
| Molybdenum | µg/L | 94.04 | 90 | 110 | yes |
| Nickel | µg/L | 99.46 | 90 | 110 | yes |
| Selenium | μg/L | 94.50 | 90 | 110 | yes |
| Silver | µg/L | 91.27 | 90 | 110 | yes |
| Strontium | µg/L | 94.75 | 90 | 110 | yes |
| Thorium | µg/L | 91.94 | 90 | 110 | yes |
| Tin | µg/L | 92.58 | 90 | 110 | yes |
| Uranium | µg/L | 91.55 | 90 | 110 | yes |
| Vanadium | μg/L | 93.61 | 90 | 110 | yes |
| Zinc | µg/L | 109.65 | 90 | 110 | yes |
| Titanium | μg/L | 99.87 | 90 | 110 | yes |
| Date Acquired: | May 28, 2018 | | | | |
| Aluminum | μg/L | 91.65 | 80 | 120 | yes |
| Antimony | μg/L | 94.12 | 90 | 110 | yes |
| Arsenic | μg/L | 93.44 | 90 | 110 | yes |
| Barium | μg/L | 92.86 | 90 | 110 | yes |
| Beryllium | μg/L | 99.81 | 90 | 110 | yes |
| Boron | μg/L | 94.96 | 80 | 120 | yes |
| Cadmium | μg/L | 97.49 | 90 | 110 | yes |
| Chromium | µg/L | 94.15 | 90 | 110 | yes |
| Cobalt | µg/L | 97.31 | 90 | 110 | yes |
| Copper | µg/L | 92.04 | 90 | 110 | yes |
| Lead | µg/L | 95.13 | 90 | 110 | yes |
| | | | | | - |

Quality Control



| Bill To: | YTG DOE - Water Resources | Project ID: | KBS | Lot ID: | 1273550 | |
|-------------|---------------------------|-------------------|---------------------|-----------------|--------------|--|
| | 202, 419 Range Road | Project Name: | Kotaneelee Baseline | Control Number: | | |
| | Whitehorse, YT, Canada | | Survey | Date Received: | May 25, 2018 | |
| | Y1A 3V1 | Project Location: | Kotaneelee Region | Date Reported: | Jun 27, 2018 | |
| Attn: | John Miller | LSD: | | Report Number: | 2290448 | |
| Sampled By: | John Minder | P.O.: | | | | |
| Company: | YG - Environment | Proj. Acct. code: | | | | |

Trace Metals Dissolved - Continued

| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | | Passed QC |
|-------------------|----------------|-------------|-------------|----------------|-------------------|-----------|
| Lithium | µg/L | 95.21 | 90 | 110 | | yes |
| Molybdenum | µg/L | 94.33 | 90 | 110 | | yes |
| Nickel | µg/L | 97.37 | 90 | 110 | | yes |
| Selenium | µg/L | 95.57 | 90 | 110 | | yes |
| Silver | µg/L | 94.55 | 90 | 110 | | yes |
| Strontium | µg/L | 99.78 | 90 | 110 | | yes |
| Thallium | µg/L | 92.39 | 90 | 110 | | yes |
| Thorium | µg/L | 102.73 | 86 | 122 | | yes |
| Tin | µg/L | 96.80 | 90 | 110 | | yes |
| Titanium | mg/L | 100.82 | 90 | 110 | | yes |
| Uranium | µg/L | 92.83 | 90 | 110 | | yes |
| Vanadium | µg/L | 92.06 | 90 | 110 | | yes |
| Zinc | µg/L | 98.37 | 90 | 110 | | yes |
| Titanium | µg/L | 94.68 | 90 | 110 | | yes |
| Date Acquired: | May 28, 2018 | | | | | |
| Client Sample Rep | olicates Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Aluminum | µg/L | <1 | <1 | 20 | 20.000 | yes |
| Antimony | µg/L | 0.03 | 0.05 | 20 | 1.000 | yes |
| Arsenic | µg/L | <0.1 | <0.1 | 20 | 1.000 | yes |
| Barium | µg/L | <0.1 | <0.1 | 20 | 5.000 | yes |
| Beryllium | µg/L | <0.05 | <0.05 | 20 | 1.000 | yes |
| Boron | µg/L | <2 | <2 | 20 | 5.000 | yes |
| Cadmium | µg/L | <0.01 | <0.01 | 20 | 0.500 | yes |
| Chromium | µg/L | <0.05 | <0.05 | 20 | 5.000 | yes |
| Cobalt | µg/L | <0.02 | <0.02 | 20 | 0.500 | yes |
| Copper | µg/L | <0.5 | <0.5 | 20 | 5.000 | yes |
| Iron | µg/L | <2 | <2 | 20 | 50.000 | yes |
| Lead | µg/L | <0.01 | <0.01 | 20 | 0.500 | yes |
| Lithium | µg/L | <0.5 | <0.5 | 20 | 5.000 | yes |
| Manganese | µg/L | <1 | <1 | 20 | 0.500 | yes |
| Molybdenum | µg/L | <0.02 | <0.02 | 20 | 0.500 | yes |
| Nickel | µg/L | <0.2 | <0.2 | 20 | 5.000 | yes |
| Selenium | µg/L | <0.2 | <0.2 | 20 | 0.500 | yes |
| Silver | µg/L | <0.01 | <0.01 | 20 | 0.500 | yes |
| Strontium | µg/L | <0.1 | <0.1 | 20 | 0.500 | yes |
| Tellurium | µg/L | <0.05 | <0.05 | 20 | 0.500 | yes |
| Thallium | µg/L | <0.01 | <0.01 | 20 | 0.100 | yes |
| Thorium | µg/L | <0.05 | 0.06 | 20 | 0.100 | yes |
| Tin | µg/L | <0.1 | <0.1 | 20 | 0.500 | yes |
| Uranium | µg/L | <0.01 | <0.01 | 20 | 0.100 | yes |
| Vanadium | µg/L | <0.05 | <0.05 | 20 | 0.500 | yes |
| Zinc | µg/L | <0.5 | <0.5 | 20 | 5.000 | yes |
| Zirconium | μg/L | <0.1 | <0.1 | 20 | 0.500 | yes |
| Titanium | μg/L | <0.1 | <0.1 | 20 | 0.500 | yes |

Quality Control



Absolute Criteria Passed QC

| Bill To: | YTG DOE - Water Resources | Project ID: | KBS | Lot ID: | 1273550 |
|-------------|---------------------------|-------------------|---------------------|-----------------|--------------|
| | 202, 419 Range Road | Project Name: | Kotaneelee Baseline | Control Number: | |
| | Whitehorse, YT, Canada | | Survey | Date Received: | May 25, 2018 |
| | Y1A 3V1 | Project Location: | Kotaneelee Region | Date Reported: | Jun 27, 2018 |
| Attn: | John Miller | LSD: | | Report Number: | 2290448 |
| Sampled By: | John Minder | P.O.: | | | |
| Company: | YG - Environment | Proj. Acct. code: | | | |

Replicate 2

Replicate 1

% RSD Criteria

Trace Metals Dissolved - Continued

| Client Sample Rep | licates | Units |
|-------------------|---------|-------|
| Date Acquired: | May 28, | 2018 |

| Trace Metals Tot | al | | | | |
|-------------------|--------------|--------------|-------------|-------------|-----------|
| Blanks | Units | Measured | Lower Limit | Upper Limit | Passed QC |
| Aluminum | μg/L | -0.11369 | -0.990 | 0.990 | yes |
| Antimony | μg/L | -0.00286293 | -0.020 | 0.020 | yes |
| Arsenic | µg/L | 0.00340822 | -0.099 | 0.099 | yes |
| Barium | μg/L | 0.00906843 | -0.099 | 0.099 | yes |
| Beryllium | μg/L | -0.00407208 | -0.050 | 0.050 | yes |
| Bismuth | μg/L | -0.00387405 | -0.099 | 0.099 | yes |
| Boron | μg/L | -0.465296 | -2.001 | 2.001 | yes |
| Cadmium | μg/L | -0.00624551 | -0.010 | 0.010 | yes |
| Chromium | μg/L | 0 | -0.050 | 0.050 | yes |
| Cobalt | μg/L | 0.000128256 | -0.020 | 0.020 | yes |
| Copper | μg/L | 0.00984781 | -0.501 | 0.501 | yes |
| Iron | μg/L | 0.0566513 | -2.001 | 2.001 | yes |
| Lead | μg/L | 0.000339863 | -0.010 | 0.010 | yes |
| Lithium | μg/L | 0.02109 | -0.501 | 0.501 | yes |
| Manganese | μg/L | -0.0334286 | -0.990 | 0.990 | yes |
| Molybdenum | μg/L | -0.0144611 | -0.020 | 0.020 | yes |
| Nickel | μg/L | 0.0402953 | -0.201 | 0.201 | yes |
| Selenium | μg/L | 8.45514e-005 | -0.201 | 0.201 | yes |
| Silver | μg/L | 7.98654e-005 | -0.010 | 0.010 | yes |
| Strontium | μg/L | 0.00558076 | -0.099 | 0.099 | yes |
| Tellurium | μg/L | -0.00701083 | -0.050 | 0.050 | yes |
| Thallium | μg/L | -0.00101673 | -0.010 | 0.010 | yes |
| Thorium | μg/L | -0.00508505 | -0.050 | 0.050 | yes |
| Tin | μg/L | -0.00520573 | -0.099 | 0.099 | yes |
| Titanium | μg/L | 0.0808791 | -0.099 | 0.099 | yes |
| Uranium | μg/L | -0.00122157 | -0.099 | 0.099 | yes |
| Vanadium | μg/L | 0 | -0.050 | 0.050 | yes |
| Zinc | μg/L | 0.0430033 | -0.501 | 0.501 | yes |
| Zirconium | μg/L | -0.070399 | -0.099 | 0.099 | yes |
| Date Acquired: | May 28, 2018 | | | | |
| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | Passed QC |
| Aluminum | µg/L | 103.04 | 80 | 120 | yes |
| Antimony | μg/L | 97.81 | 90 | 110 | yes |
| Arsenic | μg/L | 100.02 | 90 | 110 | yes |
| Barium | μg/L | 99.03 | 90 | 110 | yes |
| Beryllium | μg/L | 101.09 | 90 | 110 | yes |
| Boron | µg/L | 100.60 | 70 | 130 | yes |
| Cadmium | µg/L | 97.59 | 90 | 110 | yes |
| Chromium | µg/L | 104.73 | 90 | 110 | yes |
| Cobalt | μg/L | 100.61 | 90 | 110 | yes |

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Quality Control



| Bill To: | YTG DOE - Water Resources | Project ID: | KBS | Lot ID: | 1273550 |
|-------------|---------------------------|-------------------|---------------------|-----------------|--------------|
| | 202, 419 Range Road | Project Name: | Kotaneelee Baseline | Control Number: | |
| | Whitehorse, YT, Canada | | Survey | Date Received: | May 25, 2018 |
| | Y1A 3V1 | Project Location: | Kotaneelee Region | Date Reported: | Jun 27, 2018 |
| Attn: | John Miller | LSD: P.O.: | | Report Number: | 2290448 |
| Sampled By: | John Minder | | | | |
| Company: | YG - Environment | Proj. Acct. code: | | | |

Trace Metals Total - Continued

| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | | Passed QC |
|--------------------|---------------|-------------|-------------|----------------|-------------------|-----------|
| Copper | µg/L | 99.56 | 90 | 110 | | yes |
| Lead | µg/L | 101.74 | 90 | 110 | | yes |
| Lithium | µg/L | 100.18 | 90 | 110 | | yes |
| Molybdenum | µg/L | 99.77 | 90 | 110 | | yes |
| Nickel | µg/L | 102.60 | 90 | 110 | | yes |
| Selenium | µg/L | 102.52 | 90 | 110 | | yes |
| Silver | µg/L | 101.51 | 90 | 110 | | yes |
| Strontium | µg/L | 94.82 | 90 | 110 | | yes |
| Thallium | µg/L | 101.49 | 90 | 110 | | yes |
| Thorium | µg/L | 108.44 | 90 | 110 | | yes |
| Tin | µg/L | 92.20 | 90 | 110 | | yes |
| Titanium | µg/L | 108.17 | 90 | 110 | | yes |
| Uranium | µg/L | 96.68 | 90 | 110 | | yes |
| Vanadium | µg/L | 100.12 | 90 | 110 | | yes |
| Zinc | µg/L | 105.60 | 90 | 110 | | yes |
| Date Acquired: | May 28, 2018 | | | | | |
| Aluminum | µg/L | 97.01 | 80 | 120 | | yes |
| Antimony | µg/L | 100.77 | 90 | 110 | | yes |
| Arsenic | µg/L | 98.69 | 90 | 110 | | yes |
| Barium | µg/L | 100.01 | 90 | 110 | | yes |
| Beryllium | µg/L | 98.40 | 90 | 110 | | yes |
| Boron | µg/L | 99.05 | 80 | 120 | | yes |
| Cadmium | μg/L | 99.83 | 90 | 110 | | yes |
| Chromium | µg/L | 101.35 | 90 | 110 | | yes |
| Cobalt | μg/L | 101.00 | 90 | 110 | | yes |
| Copper | µg/L | 96.23 | 90 | 110 | | yes |
| Lead | µg/L | 99.69 | 90 | 110 | | yes |
| Lithium | µg/L | 101.48 | 90 | 110 | | yes |
| Molybdenum | µg/L | 101.77 | 90 | 110 | | yes |
| Nickel | µg/L | 99.53 | 90 | 110 | | yes |
| Selenium | µg/L | 101.29 | 90 | 110 | | yes |
| Silver | µg/L | 100.93 | 90 | 110 | | yes |
| Strontium | µg/L | 99.24 | 90 | 110 | | yes |
| Thallium | µg/L | 100.93 | 90 | 110 | | yes |
| Thorium | µg/L | 105.96 | 90 | 110 | | yes |
| Tin | µg/L | 102.19 | 90 | 110 | | yes |
| Titanium | µg/L | 100.89 | 90 | 110 | | yes |
| Uranium | µg/L | 97.65 | 90 | 110 | | yes |
| Vanadium | µg/L | 96.48 | 90 | 110 | | yes |
| Zinc | µg/L | 90.35 | 90 | 110 | | yes |
| Date Acquired: | May 28, 2018 | | | | | |
| Client Sample Repl | licates Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Aluminum | µg/L | 2900 | 2800 | 20 | 100.000 | yes |
| Antimony | µg/L | 0.06 | 0.07 | 20 | 2.000 | yes |

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Quality Control



| Bill To: | YTG DOE - Water Resources | Project ID: | KBS | Lot ID: | 1273550 |
|-------------|---------------------------|----------------------------|---------------------|-----------------|--------------|
| | 202, 419 Range Road | Project Name: | Kotaneelee Baseline | Control Number: | |
| | Whitehorse, YT, Canada | | Survey | Date Received: | May 25, 2018 |
| | Y1A 3V1 | Project Location: | Kotaneelee Region | Date Reported: | Jun 27, 2018 |
| Attn: | John Miller | LSD: | | Report Number: | 2290448 |
| Sampled By: | John Minder | P.O.: Proj. Acct. code: | | | |
| Company: | YG - Environment | | | | |

Trace Metals Total - Continued

| Client Sample Replicate | es Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
|-------------------------|------------|-------------|-------------|----------------|-------------------|-----------|
| Arsenic | μg/L | 1.1 | 1.2 | 20 | 2.000 | yes |
| Barium | μg/L | 46 | 45 | 20 | 10.000 | yes |
| Beryllium | μg/L | 0.10 | 0.14 | 20 | 0.400 | yes |
| Boron | μg/L | 19 | 17 | 20 | 40.000 | yes |
| Cadmium | μg/L | 0.03 | 0.03 | 20 | 0.100 | yes |
| Chromium | μg/L | 4.4 | 4.3 | 20 | 6.000 | yes |
| Cobalt | μg/L | 0.96 | 1.0 | 20 | 0.200 | yes |
| Copper | μg/L | 2.7 | 2.9 | 20 | 5.000 | yes |
| Iron | μg/L | 3000 | 2800 | 20 | 100.000 | yes |
| Lead | μg/L | 1.2 | 1.2 | 20 | 1.000 | yes |
| Lithium | μg/L | 6.9 | 7.2 | 20 | 10.000 | yes |
| Manganese | μg/L | 36 | 37 | 20 | 1.000 | yes |
| Molybdenum | μg/L | 0.63 | 0.64 | 20 | 0.200 | yes |
| Nickel | μg/L | 4.9 | 5.1 | 20 | 10.000 | yes |
| Selenium | μg/L | 1.0 | 1.1 | 20 | 5.000 | yes |
| Silver | μg/L | 0.01 | 0.02 | 20 | 0.100 | yes |
| Strontium | μg/L | 57 | 57 | 20 | 10.000 | yes |
| Tellurium | μg/L | <0.05 | <0.05 | 20 | 0.500 | yes |
| Thallium | μg/L | 0.04 | 0.04 | 20 | 0.100 | yes |
| Thorium | μg/L | 0.70 | 0.67 | 20 | 1.000 | yes |
| Tin | μg/L | 0.1 | 0.1 | 20 | 1.000 | yes |
| Titanium | μg/L | 140 | 130 | 20 | 1.000 | yes |
| Uranium | μg/L | 0.48 | 0.48 | 20 | 1.000 | yes |
| Vanadium | μg/L | 9.7 | 9.3 | 20 | 0.400 | yes |
| Zinc | μg/L | 7.8 | 8.5 | 20 | 10.000 | yes |
| Zirconium | μg/L | 4.1 | 3.2 | 20 | 1.000 | yes |
| Date Acquired: May | y 28, 2018 | | | | | |

Volatile Petroleum Hydrocarbons - Water

| Blanks | ι | Jnits | Measured | Lower Limit | Upper Limit | | Passed QC |
|-------------------|-------------|-------|-------------|-------------|----------------|-------------------|-----------|
| VPHw (VHw6-10 | minus n | ıg | 0 | -50 | 50 | | yes |
| VHw6-10 | n | ig | 0 | -50 | 50 | | yes |
| Date Acquired: | June 01, 20 | 018 | | | | | |
| Calibration Check | ι | Jnits | % Recovery | Lower Limit | Upper Limit | | Passed QC |
| VHw6-10 | n | ig | 106.92 | 80 | 120 | | yes |
| Date Acquired: | June 01, 20 | 018 | | | | | |
| Replicates | ι | Jnits | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| VPHw (VHw6-10 | minus µ | ıg/L | <50 | <50 | 20 | 100 | yes |
| VHw6-10 | μ | ıg/L | <50 | <50 | 20 | 100 | yes |
| Date Acquired: | June 01, 20 | 018 | | | | | |
| Matrix Spike | ι | Jnits | % Recovery | Lower Limit | Upper Limit | | Passed QC |
| VHw6-10 | μ | ıg/L | 86 | 80 | 120 | | yes |
| Date Acquired: | June 01, 20 | 018 | | | | | |

Methodology and Notes



| Bill To: | YTG DOE - Water Resources | Project ID: | KBS | Lot ID: | 1273550 |
|-------------|---------------------------|-------------------|-------------------------|-----------------|--------------|
| | 202, 419 Range Road | Project Name: | Kotaneelee Baseline | Control Number: | |
| | Whitehorse, YT, Canada | | Survey | Date Received: | May 25, 2018 |
| | Y1A 3V1 | Project Location: | tion: Kotaneelee Region | Date Reported: | Jun 27, 2018 |
| Attn: | John Miller | LSD: P.O.: | | Report Number: | 2290448 |
| Sampled By: | John Minder | | | | |
| Company: | YG - Environment | Proj. Acct. code: | | | |

Method of Analysis

| Method Name | Reference | | Method | Date Analysis Started | Location |
|---|-----------|---|---|--------------------------|----------------------------------|
| Alk, pH, EC, Turb in water (BC) | APHA | * | Alkalinity - Titration Method, 2320 B | May 30, 2018 | Exova Surrey |
| Alk, pH, EC, Turb in water (BC) | APHA | * | Conductivity, 2510 B | May 30, 2018 | Exova Surrey |
| Alk, pH, EC, Turb in water (BC) | APHA | * | pH - Electrometric Method, 4500-H+ B | May 30, 2018 | Exova Surrey |
| Ammonia-N in Water (Surrey) | APHA | * | Flow Injection Analysis, 4500-NH3 H | May 29, 2018 | Exova Surrey |
| Anions by IEC in water (Surrey) | APHA | * | Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B | May 29, 2018 | Exova Surrey |
| Anions by IEC in water (Surrey) | APHA | * | Single-Column Ion Chromatography with Electronic Suppression, 4110 C | May 29, 2018 | Exova Surrey |
| BTEX-VPH - Water (MS) (Surrey) | B.C.M.O.E | * | Volatile Hydrocarbons in Waters by GC/FID (April, 2007), CSR | May 29, 2018 | Exova Surrey |
| BTEX-VPH - Water (MS) (Surrey) | BCELM | * | Volatile Hydrocarbons in Water by GC/FID, VH Water | May 29, 2018 | Exova Surrey |
| Carbon Inorganic (Dissolved) in water(DIC) | APHA | | High-Temperature Combustion Method, 5310 B | Jun 7, 2018 | Exova Edmonton |
| Carbon Inorganic (Total) in water (TIC) | APHA | | High-Temperature Combustion Method, 5310 B | Jun 7, 2018 | Exova Edmonton |
| Carbon Organic (Dissolved) in water (DOC) | APHA | | High-Temperature Combustion Method, 5310 B | Jun 8, 2018 | Exova Edmonton |
| Carbon Organic (Total) in water (TOC) | APHA | | High-Temperature Combustion Method, 5310 B | May 29, 2018 | Exova Edmonton |
| Mercury Low Level (Dissolved) in water (Surrey) | EPA | * | Mercury in Water by Cold Vapor Atomic Fluorescence Spectrometry, 245.7 | May 29, 2018 | Exova Surrey |
| Mercury Low Level (Total) in water (Surrey) | EPA | * | Mercury in Water by Cold Vapor Atomic Fluorescence Spectrometry, 245.7 | May 29, 2018 | Exova Surrey |
| Metals SemiTrace (Dissolved) in water (Surrey) | US EPA | * | Metals & Trace Elements by ICP-AES, 6010C | May 28, 2018 | Exova Surrey |
| Metals SemiTrace (Total) in Water (Surrey) | US EPA | * | Metals & Trace Elements by ICP-AES, 6010C | May 28, 2018 | Exova Surrey |
| Phosphorus - total by Smartchem (Surrey) | APHA | * | Persulfate digestion method, 4500-P B5 | May 28, 2018 | Exova Surrey |
| Solids Dissolved (Total, Fixed and Volatile) - Surrey | APHA | * | Total Dissolved Solids Dried at 180 C, 2540 C | Jun 8, 2018 | Exova Surrey |
| Solids Suspended (Total, Fixed and Volatile) - Surrey | APHA | * | Total Suspended Solids Dried at 103- 105'C, 2540 D | Jun 8, 2018 | Exova Surrey |
| Sublet to SRC Analytical | Ext. Lab | | See attached test report, | Jun 7, 2018 | Saskatchewan Research Council |
| Total and Kjeldahl Nitrogen (Total) in Water | ISO | * | Water Quality - Determination of nitrogen, ISO/TR 11905-2 | Jun 8, 2018 | Exova Edmonton |
| Trace Metals (dissolved) in Water (Surrey) | US EPA | * | Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8 | May 28, 2018 | Exova Surrey |
| Trace Metals (Total) in Water (Surrey) | US EPA | * | Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8 | May 28, 2018 | Exova Surrey |
| | | | * Reference Method Modified | | |

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Methodology and Notes



| Bill To: | YTG DOE - Water Resources | Project ID: | KBS | Lot ID: | 1273550 |
|-------------|---------------------------|-------------------|---------------------|-----------------|--------------|
| | 202, 419 Range Road | Project Name: | Kotaneelee Baseline | Control Number: | |
| | Whitehorse, YT, Canada | | Survey | Date Received: | May 25, 2018 |
| | Y1A 3V1 | Project Location: | Kotaneelee Region | Date Reported: | Jun 27, 2018 |
| Attn: | John Miller | LSD: | | Report Number: | 2290448 |
| Sampled By: | John Minder | P.O.: | | | |
| Company: | YG - Environment | Proj. Acct. code: | | | |

References

| APHA | Standard Methods for the Examination of Water and Wastewater |
|-----------|--|
| B.C.M.O.E | B.C. Ministry of Environment |
| BCELM | B.C. Environmental Laboratory Manual |
| EPA | Environmental Protection Agency Test Methods - US |
| Ext. Lab | External Laboratory |
| ISO | International Organization for Standardization |
| US EPA | US Environmental Protection Agency Test Methods |

Comments:

- May 28, 2018 Sample 1273550-1; 6111295: Analysis was performed on sample 1273550-1 and 1273550-2 that exceeded the recommended holding time for nitrite and nitrate analysis.
- May 29, 2018 Reduction of analytical volume was necessary for metals analysis due to matrix effects in sample #1273550-1. Detection limits are adjusted accordingly.

• May 29, 2018 - Sample 1273550-1; 6111295: Reduction of analytical volume was necessary for TP analysis to bring results within the analytical range for sample # 1273550-1. Detection limits are adjusted accordingly.

• May 29, 2018 - Sample 1273550-1; 6111295: Reduction of analytical volume was necessary for anions due to matrix effects in sample 1273550-1 and 1273550-2. Detection limits are adjusted accordingly.

- May 30, 2018 Reduction of analytical volume was necessary for iron and manganese analysis to bring results within the analytical range for samples #1273550-1 and 2. Detection limits are adjusted accordingly.
- Jun 08, 2018 Reduction of analytical volume was necessary for total suspended solids due to matrix effects in samples 1273550-1 and 2. Detection limits are adjusted accordingly.

Please direct any inquiries regarding this report to our Client Services Group or to the Operations Manager at the coordinates indicated at the top left of this page.

Results relate only to samples as submitted.

The test report shall not be reproduced except in full, without the written approval of the laboratory.



T: 306-933-6932 F: 306-933-7922 Toll-free: 1-800-240-8808 E: analytical@src.sk.ca

www.src.sk.ca/analytical

SRC Group # 2018-6248

Jun 07, 2018

EXOVA 104-19575 55A Avenue Surrey, BC V3S 8P8 Attn: Client Services

Date Samples Received: May-29-2018

Client P.O.: POC111107

All results have been reviewed and approved by a Qualified Person in accordance with the Saskatchewan Environmental Code, Corrective Action Plan Chapter, for the purposes of certifying a laboratory analysis

Results from Lab Sections 1 and 2 have been authorized by Keith Gipman, Supervisor Results from Lab Section 3 have been authorized by Pat Moser, Supervisor Results from Lab Sections 4 and 5 have been authorized by Vicky Snook, Supervisor Results from Lab Section 6 have been authorized by Marion McConnell, Supervisor

* Test methods and data are validated by the laboratory's Quality Assurance Program.

* Routine methods follow recognized procedures from sources such as

* Standard Methods for the Examination of Water and Wastewater APHA AWWA WEF

- * Environment Canada
- * US EPA
- * CANMET

* The results reported relate only to the test samples as provided by the client.

* Samples will be kept for 30 days after the final report is sent. Please contact the lab if you have any special requirements.

* Additional information is available upon request.

This is a final report.



Environmental Analytical Laboratories 143-111 Research Drive, Saskatoon, SK Canada S7N 3R2 T: 306-933-6932 F: 306-933-7922 Toll-free: 1-800-240-8808 E: analytical@src.sk.ca

www.src.sk.ca/analytical

SRC Group # 2018-6248 Jun 07, 2018

EXOVA

104-19575 55A Avenue Surrey, BC V3S 8P8 Attn: Client Services

Date Samples Received: May-29-2018

Client P.O.: POC111107

19957 05/23/2018 1273550-1 B YOWN-1507 (GAS PLANT WELL) 2018057 *WATER* 19958 05/23/2018 1273550-2 B LBCH-DP6 (LABICHE RIVER DRIVE POINT WELL #6) 2018059 *WATER*

| Analyte | Units | 19957 | 19958 | |
|-------------------------|---------|-------|-------|--|
| Lab Section 4 (Radioche | mistry) | | | |
| | | | | |
| Radium-226 | Bq/L | 0.05 | 0.02 | |
| Thorium-234 | Bq/L | <4 | <4 | |
| Thorium-230 | Bq/L | <30 | <20 | |
| Radium-226 | Bq/L | <5 | <4 | |
| Lead-214 | Bq/L | 0.6 | <0.6 | |
| | | | | |
| Bismuth-214 | Bq/L | 0.7 | 0.8 | |
| Lead-210 | Bq/L | <4 | <5 | |
| Actinium-228 | Bq/L | 1.0 | <0.8 | |
| Lead-212 | Bq/L | <0.4 | <0.4 | |
| Bismuth-212 | Bq/L | <2 | <2 | |
| | | | | |
| Thallium-208 | Bq/L | <0.2 | <0.2 | |
| Uranium-235 | Bq/L | <1 | <1 | |
| Thorium-227 | Bq/L | <1 | <1 | |
| Radium-223 | Bq/L | <0.8 | <0.8 | |
| Radon-219 | Bq/L | <1 | <0.9 | |
| | | | | |
| Lead-211 | Bq/L | <3 | <4 | |
| Potassium-40 | Bq/L | <5 | <5 | |

Symbol of "<" means "less than". This indicates that it was not detected at level stated above.

Report Transmission Cover Page



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1201897 |
|-------------|---------------------------|------------|------------------|-----------------|--------------|
| | 202, 419 Range Road | ID: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Name: | Campground Well | Date Received: | May 12, 2017 |
| | Y1A 3V1 | Leastien | Sampling | Date Reported: | May 29, 2017 |
| Attn: | John Miller | Location: | watson Lake Area | Report Number: | 2190036 |
| Sampled By: | JDM/KP | LSD: | _ | | |
| Company: | YG-Eenvironment | P.O.: | C00037999 | | |
| | | Acct code: | | | |

| Contact & Affiliation | Address | Delivery Commitments |
|---------------------------|---|---|
| John Miller | 202, 419 Range Road | On [Lot Verification] send |
| YTG DOE - Water Resources | Whitehorse, Yukon Territory Y1A 3V1 | (COA) by Email - Single Report |
| | Fione: (867) 667-3233 Fax: (867) 667-3194 | On [Report Approval] send |
| | Email: john.miller@gov.yk.ca | (Test Report) by Email - Multiple Reports By Lot |
| | | On [Report Approval] send |
| | | (COC, Test Report) by Email - Multiple Reports By Lot |
| | | On [Lot Creation] send |
| | | (COR) by Email - Single Report |
| Holly Goulding | 202, 419 Range Road | On [Report Approval] send |
| YTG DOE - Water Resources | Whitehorse, Yukon Territory Y1A 3V1 | (Test Report, COC) by Email - Merge Reports |
| | Phone: (867) 456-6583 Fay: (867) 667-3194 | On [Report Approval] send |
| | Email: holly.goulding@gov.yk.ca | (Test Report) by Email - Single Report |
| | | On [Lot Approval and Final Test Report Approval] send |
| | | (Invoice) by Email - Single Report |
| Tyler Williams | 202, 419 Range Road | On [Report Approval] send |
| YTG DOE - Water Resources | Whitehorse, Yukon Territory Y1A 3V1 | (Test Report) by Email - Multiple Reports By Lot |
| | Filone. (867) 667-3233 Fax: (867) 667-3194 | On [Report Approval] send |
| | Email: Tyler.Williams@gov.yk.ca | (Test Report, COC) by Email - Multiple Reports By Lot |

Notes To Clients:

• Reduction of analytical volume was necessary for Trace Metals analysis to bring results within the analytical range for samples #1201897-1 through 6. Detection limits are adjusted accordingly.

• Total organic carbon was less than dissolved organic carbon for samples 1201897-5 and 6. The results were verified and are within expected measurement uncertainty.

• RA226 analysis was performed by a subcontract laboratory. See attached 3 page report 2017-5316.

• Sample 1201897-1; 5714858 Reduction of analytical volume was necessary for nitrate due to matrix effects in sample 1201897-1,1201897-2, 1201897-3, 1201897-4, 1201897-5 and 1201897-6. Detection limits are adjusted accordingly.

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Analytical Report

Chloride



| Bill To: YTG DOE - Water Resources 202, 419 Range Road Whitehorse, YT, Canada Y1A 3V1 Attn: John Miller Sampled By: JDM/KP Company: YG-Eenvironment | | Project: ID: YC Name: Ca Sa Location: W LSD: P.O.: CC Acct code: | DWN ampgro ampling atson L 000379 | ound Well J Lake Area 199 | Lo Control Nur Date Rece Date Repo Report Nur | ot ID: 1201897 nber: ived: May 12, 2017 rted: May 29, 2017 nber: 2190036 | |
|---|---------------------|---|---|------------------------------------|---|---|-------------------|
| | | Reference Num Sample I Sample T | nber Date Time | 1201897-1 May 08, 2017 20:00 | 1201897-2 May 08, 2017 21:50 | 1201897-3 May 09, 2017 07:45 | |
| | | Sample Loca Sample Descrip | tion tion 2 | 2017057 / 1.5 °C / B | YOWN-1509 / 2017058 / 1.5 °C / B | YOWN-1512 / 2017059 / 1.5 °C / B | |
| | | Ма | atrix | Water | Water | Water | |
| Analyte | | Units | | Results | Results | Results | Nominal Detection |
| Inorganic Nonm | netallic Parameters | | | | | | Limit |
| Nitrogen | Total | mg/L | | 0.13 | 0.26 | 0.16 | 0.06 |
| Organic Carbon | Total Nonpurgeable | e mg/L | | 0.7 | 1.6 | 1.5 | 0.5 |
| Organic Carbon | Dissolved Nonpurg | eable mg/L | | <0.5 | 0.7 | 1.1 | 0.5 |
| Inorganic carbo | n Total | mg/L | | 25 | 61.6 | 82.0 | 0.5 |
| Inorganic carbo | n Dissolved | mg/L | | 25 | 60.2 | 80.9 | 0.5 |
| Ammonia - N | | mg/L | | 0.02 | 0.19 | 0.06 | 0.01 |
| Phosphorus | Total | mg/L | | 0.016 | 0.315 | 0.089 | 0.003 |
| Metals Total | | - | | | | | |
| Calcium | Total | mg/L | | 30 | 92 | 96 | 0.01 |
| Magnesium | Total | mg/L | | 9.8 | 20 | 21 | 0.02 |
| Potassium | Total | mg/L | | 0.92 | 1.8 | 1.3 | 0.04 |
| Silicon | Total | mg/L | | 2.5 | 7.6 | 8.1 | 0.005 |
| Sulfur | Total | mg/L | | 4.9 | 9.5 | 1.2 | 0.02 |
| Sodium | Total | mg/L | | 1.8 | 4.4 | 2.6 | 0.1 |
| Titanium | Total | mg/L | | 0.006 | 0.038 | 0.015 | 0.002 |
| Physical and Ag | ggregate Properties | | | | | | |
| Solids | Total Suspended | mg/L | | 31.5 | 199 | 9.50 | 2 |
| Solids | Total Dissolved | mg/L | | 130 | 270 | 350 | 5 |
| Routine Water | | | | | | | |
| pH - Holding Tir | ne | | | Exceeded | Exceeded | Exceeded | |
| рН | at 25 °C | | | 7.90 | 7.94 | 7.95 | |
| Electrical Condu | uctivity | μS/cm at °C | 25 | 221 | 452 | 571 | 1 |
| Calcium | Dissolved | mg/L | | 31 | 80 | 95 | 0.01 |
| Magnesium | Dissolved | mg/L | | 9.6 | 18 | 21 | 0.02 |
| Potassium | Dissolved | mg/L | | 0.89 | 1.6 | 1.2 | 0.04 |
| Silicon | Dissolved | mg/L | | 1.6 | 5.6 | 7.5 | 0.005 |
| Sodium | Dissolved | mg/L | | 1.7 | 4.2 | 2.6 | 0.1 |
| Sulfur | Dissolved | mg/L | | 5.7 | 7.9 | 1.1 | 0.02 |
| Bicarbonate | | mg/L | | 125 | 299 | 419 | 5 |
| Carbonate | | mg/L | | <6 | <6 | <6 | 6 |
| Hydroxide | 0.000 | mg/L | | <5 | <5 | <5 | 5 |
| P-Alkalinity | as CaCO3 | mg/L | | <5 | <5 | <5 | 5 |
| I-Alkalinity | as CaCO3 | mg/L | | 103 | 245 | 344 | 5 |
| PLOWIGE | DISSOIVED | ma/L | | <0.020 | 0.047 | 0.047 | 0.02 |

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Dissolved

mg/L

mg/L

0.081

0.070

0.360

0.05

Analytical Report



| Bill To: Attn: Sampled By: Company: | YTG DOE - Water Resources 202, 419 Range Road Whitehorse, YT, Canada Y1A 3V1 John Miller JDM/KP YG-Eenvironment | ID: YOWN Name: Campground Well Sampling Location: Watson Lake Area LSD: P.O.: C00037999 Acct code: | | Lot ID: 120189 Control Number: Date Received: May 12, 201 Date Reported: May 29, 201 Report Number: 2190036 | | |
|--|---|--|--|--|---|----------------------------|
| | | Reference Number Sample Date Sample Time Sample Location Sample Description | 1201897-1 May 08, 2017 20:00 2017057 / 1.5 °C / B | 1201897-2 May 08, 2017 21:50 YOWN-1509 / | 1201897-3 May 09, 2017 07:45 YOWN-1512 / | |
| | | Matrix | Water | 2017058 / 1.5 °C / B Water | 2017059 / 1.5 °C / B Water | |
| Analyte | | Units | Results | Results | Results | Nominal Detection Limit |
| Routine Water · | - Continued | | | | | |
| Fluoride | Dissolved | mg/L | 0.072 | 0.076 | 0.142 | 0.01 |
| Nitrate - N | Dissolved | mg/L | <0.10 | <0.10 | <0.10 | 0.01 |

| Nitrite - N | Dissolved | mg/L | <0.010 | <0.010 | <0.010 | 0.01 |
|-------------------------------------|------------------------------------|---------------------|-----------------------------------|-----------------------------------|-----------------------------------|---------|
| Sulfate (SO4) | Dissolved | mg/L | 14.7 | 15.8 | <0.1 | 0.1 |
| Hardness | as CaCO3 (dissolved) | mg/L | 116 | 280 | 320 | 5 |
| Trace Metals Dissolved | | | | | | |
| Digestion | Dissolved | | Field filtered and Pres Dissol | Field filtered and Pres Dissol | Field filtered and Pres Dissol | |
| Titanium | Dissolved | mg/L | 0.006 | 0.014 | 0.015 | 0.002 |
| Aluminum | Dissolved | mg/L | <0.001 | <0.001 | 0.001 | 0.001 |
| Antimony | Dissolved | mg/L | 0.000206 | 0.000104 | 0.000060 | 0.00002 |
| Arsenic | Dissolved | mg/L | 0.0005 | 0.0125 | 0.0114 | 0.0001 |
| Barium | Dissolved | mg/L | 0.0943 | 0.3223 | 0.3123 | 0.0001 |
| Beryllium | Dissolved | mg/L | <0.000050 | <0.000050 | <0.000050 | 0.00005 |
| Bismuth | Dissolved | mg/L | <0.0001 | <0.0001 | <0.0001 | 0.0001 |
| Boron | Dissolved | mg/L | 0.004 | 0.005 | 0.004 | 0.002 |
| Cadmium | Dissolved | mg/L | <0.000010 | <0.000010 | <0.000010 | 0.00001 |
| Chromium | Dissolved | mg/L | 0.000067 | <0.000050 | <0.000050 | 0.00005 |
| Cobalt | Dissolved | mg/L | 0.000263 | 0.0000984 | 0.000032 | 0.00002 |
| Copper | Dissolved | mg/L | <0.0005 | <0.0005 | <0.0005 | 0.0005 |
| Iron | Dissolved | mg/L | 0.152 | 0.815 | 3.57 | 0.002 |
| Lead | Dissolved | mg/L | 0.000020 | 0.000047 | 0.0000970 | 0.00001 |
| Lithium | Dissolved | mg/L | 0.0021 | 0.0101 | 0.0040 | 0.0005 |
| Manganese | Dissolved | mg/L | 0.091 | 0.099 | 0.414 | 0.001 |
| Molybdenum | Dissolved | mg/L | 0.003352 | 0.003920 | 0.001344 | 0.00002 |
| Nickel | Dissolved | mg/L | 0.0083 | 0.0004 | 0.0002 | 0.0002 |
| Selenium | Dissolved | mg/L | 0.0003 | <0.0002 | <0.0002 | 0.0002 |
| Silver | Dissolved | mg/L | <0.000010 | <0.000010 | <0.000010 | 0.00001 |
| Strontium | Dissolved | mg/L | 0.1285 | 0.5753 | 0.2680 | 0.0001 |
| Tellurium | Dissolved | mg/L | 0.000111 | <0.000050 | 0.000061 | 0.00005 |
| Thallium | Dissolved | mg/L | <0.000010 | <0.000010 | <0.000010 | 0.00001 |
| Thorium | Dissolved | mg/L | <0.000050 | <0.000050 | <0.000050 | 0.00005 |
| Tin | Dissolved | mg/L | <0.0001 | <0.0001 | 0.0001 | 0.0001 |
| Uranium | Dissolved | mg/L | 0.000378 | 0.000258 | 0.000028 | 0.00001 |
| Vanadium | Dissolved | mg/L | <0.000050 | <0.000050 | <0.000050 | 0.00005 |
| Zinc | Dissolved | mg/L | 0.0192 | 0.0499 | 0.1265 | 0.0005 |
| Terms and Conditions: https://www.e | exova.com/media/1232/exova-canada- | inc-standard-condit | ions-of-contract-short-form.pdf | | | |

Analytical Report



| Bill To: | YTG DOE - Water Resources 202, 419 Range Road | Project: ID: | YOWN | Lot ID: | 1201897 |
|----------------------------------|---|---|--|--|---|
| Attn: Sampled By: Company: | Whitehorse, YT, Canada Y1A 3V1 John Miller JDM/KP YG-Eenvironment | Name: Location: LSD: P.O.: Acct code: | Campground Well Sampling Watson Lake Area C00037999 | Date Received: Date Reported: Report Number: | May 12, 2017 May 29, 2017 2190036 |

| | | Reference Number Sample Date Sample Time Sample Location | 1201897-1 May 08, 2017 20:00 | 1201897-2 May 08, 2017 21:50 | 1201897-3 May 09, 2017 07:45 | |
|--------------------------|-----------|---|------------------------------------|-------------------------------------|-------------------------------------|-------------------|
| | | Sample Description | 2017057 / 1.5 °C / B | YOWN-1509 / 2017058 / 1.5 °C / B | YOWN-1512 / 2017059 / 1.5 °C / B | |
| | | Matrix | Water | Water | Water | |
| Analyte | | Units | Results | Results | Results | Nominal Detection |
| Trace Metals Dissolved - | Continued | | | | | Link |
| Zirconium | Dissolved | mg/L | <0.0001 | <0.0001 | <0.0001 | 0.0001 |
| Trace Metals Total | | - | | | | |
| Aluminum | Total | mg/L | 0.014 | 0.51 | 0.004 | 0.001 |
| Antimony | Total | mg/L | 0.00047 | 0.000087 | <0.000020 | 0.00002 |
| Arsenic | Total | mg/L | 0.0022 | 0.020 | 0.017 | 0.0001 |
| Barium | Total | mg/L | 0.14 | 0.41 | 0.35 | 0.0001 |
| Beryllium | Total | mg/L | <0.000050 | 0.000061 | <0.000050 | 0.00005 |
| Bismuth | Total | mg/L | <0.0001 | <0.0001 | <0.0001 | 0.0001 |
| Boron | Total | mg/L | 0.004 | 0.005 | 0.002 | 0.002 |
| Cadmium | Total | mg/L | 0.00082 | 0.00011 | 0.000019 | 0.00001 |
| Chromium | Total | mg/L | 0.010 | 0.0019 | 0.00011 | 0.00005 |
| Cobalt | Total | mg/L | 0.0018 | 0.0012 | 0.000060 | 0.00002 |
| Copper | Total | mg/L | 0.055 | 0.0026 | 0.0006 | 0.0002 |
| Iron | Total | mg/L | 17 | 12 | 6.6 | 0.002 |
| Lead | Total | mg/L | 0.011 | 0.0064 | 0.0094 | 0.00001 |
| Lithium | Total | mg/L | 0.044 | 0.024 | 0.026 | 0.0005 |
| Manganese | Total | mg/L | 0.20 | 0.23 | 0.42 | 0.001 |
| Molybdenum | Total | mg/L | 0.0041 | 0.0037 | 0.0014 | 0.00002 |
| Nickel | Total | mg/L | 0.036 | 0.0048 | 0.0004 | 0.0002 |
| Selenium | Total | mg/L | <0.0002 | <0.0002 | < 0.0002 | 0.0002 |
| Silver | Total | mg/L | <0.000010 | <0.000010 | <0.000010 | 0.00001 |
| Strontium | Total | mg/L | 0.13 | 0.63 | 0.28 | 0.0001 |
| Tellurium | Total | mg/L | <0.000050 | <0.000050 | <0.000050 | 0.00005 |
| Thallium | Total | mg/L | <0.000010 | 0.000011 | 0.000011 | 0.00001 |
| Thorium | Total | mg/L | 0.000078 | 0.00057 | 0.000069 | 0.00005 |
| Tin | Total | mg/L | 0.0021 | <0.0001 | <0.0001 | 0.0001 |
| Uranium | Total | mg/L | 0.0014 | 0.00065 | 0.000045 | 0.00001 |
| Vanadium | Total | mg/L | 0.00039 | 0.0019 | <0.000050 | 0.00005 |
| Zinc | Total | mg/L | 1.2 | 1.6 | 0.98 | 0.0005 |
| Zirconium | Total | mg/L | <0.0001 | 0.0003 | <0.0001 | 0.0001 |
| Subcontracted Analysis | | J. – | | | | |
| Subcontractor Report Id | SRC | | Done | Done | Done | |

Analytical Report



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1201897 | |
|-------------|---------------------------|------------|------------------------------|-----------------|--------------|--|
| | 202, 419 Range Road | ID: | YOWN | Control Number: | | |
| | Whitehorse, YT, Canada | Name: | Campground Well | Date Received: | May 12, 2017 | |
| | Y1A 3V1 | Location: | Sampling Watson Lake Area | Date Reported: | May 29, 2017 | |
| Attn: | John Miller | | Walson Lake Area | Report Number: | 2190036 | |
| Sampled By: | JDM/KP | PO: | C00037999 | | | |
| Company: | YG-Eenvironment | Acct code: | 000037999 | | | |
| | | | | | | |

| | R | eference Number | 1201897-4 | 1201897-5 | 1201897-6 | |
|--------------------------|------------------------|------------------|-------------------------------------|-------------------------------------|----------------------|-------------------|
| | | Sample Date | May 09, 2017 | May 09, 2017 | May 09, 2017 | |
| | | Sample Time | 09:10 | 11:25 | 14:10 | |
| | | Sample Location | | | | |
| | Sa | mple Description | YOWN-1513 / 2017060 / 1.5 °C / B | YOWN-1612 / 2017061 / 1.5 °C / B | 2017062 / 1.5 °C / B | |
| | | Matrix | Water | Water | Water | |
| Analyte | | Units | Results | Results | Results | Nominal Detection |
| Inorganic Nonmetallic Pa | rameters | | | | | |
| Nitrogen | Total | mg/L | 0.18 | 0.43 | 0.10 | 0.06 |
| Organic Carbon | Total Nonpurgeable | mg/L | 1.0 | 2.7 | 2.3 | 0.5 |
| Organic Carbon | Dissolved Nonpurgeable | e mg/L | 0.6 | 2.8 | 2.3 | 0.5 |
| Inorganic carbon | Total | mg/L | 67.3 | 54.8 | 41 | 0.5 |
| Inorganic carbon | Dissolved | mg/L | 66.1 | 52.5 | 39 | 0.5 |
| Ammonia - N | | mg/L | <0.01 | <0.01 | 0.01 | 0.01 |
| Phosphorus | Total | mg/L | 0.024 | 0.006 | 0.011 | 0.003 |
| Metals Total | | - | | | | |
| Calcium | Total | mg/L | 88 | 66 | 48 | 0.01 |
| Magnesium | Total | mg/L | 17 | 14 | 20 | 0.02 |
| Potassium | Total | mg/L | 1.2 | 2.2 | 1.5 | 0.04 |
| Silicon | Total | mg/L | 6.2 | 5.4 | 5.7 | 0.005 |
| Sulfur | Total | mg/L | 2.6 | 2.8 | 3.4 | 0.02 |
| Sodium | Total | mg/L | 9.1 | 6.3 | 3.0 | 0.1 |
| Titanium | Total | mg/L | 0.015 | 0.011 | 0.009 | 0.002 |
| Physical and Aggregate F | Properties | - | | | | |
| Solids | Total Suspended | mg/L | 16.0 | 3.5 | 18.5 | 2 |
| Solids | Total Dissolved | mg/L | 330 | 220 | 210 | 5 |
| Routine Water | | | | | | |
| pH - Holding Time | | | Exceeded | Exceeded | Exceeded | |
| рН | at 25 °C | | 7.69 | 7.72 | 7.96 | |
| Electrical Conductivity | | µS/cm at 25 ℃ | 543 | 421 | 377 | 1 |
| Calcium | Dissolved | mg/L | 84 | 64 | 46 | 0.01 |
| Magnesium | Dissolved | mg/L | 16 | 13 | 19 | 0.02 |
| Potassium | Dissolved | mg/L | 1.1 | 2.0 | 1.4 | 0.04 |
| Silicon | Dissolved | mg/L | 5.8 | 5.2 | 5.2 | 0.005 |
| Sodium | Dissolved | mg/L | 8.8 | 6.2 | 2.9 | 0.1 |
| Sulfur | Dissolved | mg/L | 2.6 | 2.8 | 3.4 | 0.02 |
| Bicarbonate | | mg/L | 336 | 264 | 203 | 5 |
| Carbonate | | mg/L | <6 | <6 | <6 | 6 |
| Hydroxide | | mg/L | <5 | <5 | <5 | 5 |
| P-Alkalinity | as CaCO3 | mg/L | <5 | <5 | <5 | 5 |
| T-Alkalinity | as CaCO3 | mg/L | 275 | 216 | 167 | 5 |
| Bromide | Dissolved | mg/L | <0.020 | <0.020 | <0.020 | 0.02 |
| Chloride | Dissolved | mg/L | 19.9 | 10.4 | 21.3 | 0.05 |

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Analytical Report



| Bill To: YTG DOE - ' 202, 419 Ra Whitehorse, Y1A 3V1 Attn: John Miller Sampled By: JDM/KP Company: YG-Eenviror | Water Resources Project: nge Road ID: YT, Canada Name: Location: LSD: P.O.: Acct code: | YOWN Campground Well Sampling Watson Lake Area C00037999 | Lot ID: Control Number: Date Received: Date Reported: Report Number: | 1201897 May 12, 2017 May 29, 2017 2190036 | |
|--|--|--|--|---|--|
|--|--|--|--|---|--|

| | | Reference Number | 1201897-4 | 1201897-5 | 1201897-6 | |
|---------------------------|---------------------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|----------------------------|
| | | Sample Date | May 09, 2017 | May 09, 2017 | May 09, 2017 | |
| | | Sample Time | 09:10 | 11:25 | 14:10 | |
| | | Sample Location | | | | |
| | : | Sample Description | YOWN-1513 / 2017060 / 1.5 °C / B | YOWN-1612 / 2017061 / 1.5 °C / B | 2017062 / 1.5 °C / B | |
| | | Matrix | Water | Water | Water | |
| Analyte | | Units | Results | Results | Results | Nominal Detection Limit |
| Routine Water - Continued | | | | | | |
| Fluoride | Dissolved | mg/L | 0.057 | 0.0964 | 0.079 | 0.01 |
| Nitrate - N | Dissolved | mg/L | <0.10 | 0.19 | <0.10 | 0.01 |
| Nitrite - N | Dissolved | mg/L | <0.010 | <0.010 | <0.010 | 0.01 |
| Sulfate (SO4) | Dissolved | mg/L | 4.4 | 5.7 | 8.0 | 0.1 |
| Hardness | as CaCO3 (dissolved | l) mg/L | 280 | 210 | 190 | 5 |
| Trace Metals Dissolved | | | | | | |
| Digestion | Dissolved | | Field filtered and Pres Dissol | Field filtered and Pres Dissol | Field filtered and Pres Dissol | |
| Titanium | Dissolved | mg/L | 0.015 | 0.011 | 0.009 | 0.002 |
| Aluminum | Dissolved | mg/L | 0.002 | 0.001 | 0.002 | 0.001 |
| Antimony | Dissolved | mg/L | 0.000130 | 0.000077 | 0.000152 | 0.00002 |
| Arsenic | Dissolved | mg/L | 0.0006 | 0.0002 | 0.0007 | 0.0001 |
| Barium | Dissolved | mg/L | 0.2137 | 0.0840 | 0.2104 | 0.0001 |
| Beryllium | Dissolved | mg/L | <0.000050 | <0.000050 | <0.000050 | 0.00005 |
| Bismuth | Dissolved | mg/L | <0.0001 | <0.0001 | <0.0001 | 0.0001 |
| Boron | Dissolved | mg/L | 0.004 | 0.004 | 0.007 | 0.002 |
| Cadmium | Dissolved | mg/L | <0.000010 | 0.000012 | <0.000010 | 0.00001 |
| Chromium | Dissolved | mg/L | 0.000137 | 0.000484 | 0.001394 | 0.00005 |
| Cobalt | Dissolved | mg/L | 0.000228 | 0.000055 | 0.000055 | 0.00002 |
| Copper | Dissolved | mg/L | 0.0009 | 0.0010 | 0.0005 | 0.0005 |
| Iron | Dissolved | mg/L | 0.113 | 0.030 | 0.034 | 0.002 |
| Lead | Dissolved | mg/L | 0.000029 | 0.000177 | 0.000055 | 0.00001 |
| Lithium | Dissolved | mg/L | 0.0012 | 0.0013 | 0.0026 | 0.0005 |
| Manganese | Dissolved | mg/L | 0.013 | 0.007 | 0.007 | 0.001 |
| Molybdenum | Dissolved | mg/L | 0.000451 | 0.001808 | 0.002560 | 0.00002 |
| Nickel | Dissolved | mg/L | 0.0022 | 0.0013 | 0.0008 | 0.0002 |
| Selenium | Dissolved | mg/L | <0.0002 | 0.0006 | 0.0006 | 0.0002 |
| Silver | Dissolved | mg/L | <0.000010 | <0.000010 | <0.000010 | 0.00001 |
| Strontium | Dissolved | mg/L | 0.1815 | 0.2077 | 0.1659 | 0.0001 |
| Tellurium | Dissolved | mg/L | <0.000050 | <0.000050 | <0.000050 | 0.00005 |
| Thallium | Dissolved | mg/L | <0.000010 | <0.000010 | <0.000010 | 0.00001 |
| Thorium | Dissolved | mg/L | <0.000050 | <0.000050 | <0.000050 | 0.00005 |
| Tin | Dissolved | mg/L | 0.0001 | <0.0001 | <0.0001 | 0.0001 |
| Uranium | Dissolved | mg/L | 0.000739 | 0.000838 | 0.001196 | 0.00001 |
| Vanadium | Dissolved | mg/L | 0.000127 | 0.000084 | 0.000464 | 0.00005 |
| Zinc | Dissolved | mg/L | 0.0805 | 0.1539 | 0.0412 | 0.0005 |

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Analytical Report



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1201897 |
|-------------|---------------------------|------------|------------------------------|-----------------|--------------|
| | 202, 419 Range Road | ID: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Name: | Campground Well | Date Received: | May 12, 2017 |
| | Y1A 3V1 | Location | Sampling Watson Lake Area | Date Reported: | May 29, 2017 |
| Attn: | John Miller | | Walson Lake Alea | Report Number: | 2190036 |
| Sampled By: | JDM/KP | LSD. | 000007000 | | |
| Company: | YG-Eenvironment | P.O.: | C00037999 | | |
| | | Acct code: | | | |

| | | Reference Number Sample Date Sample Time Sample Location | 1201897-4 May 09, 2017 09:10 | 1201897-5 May 09, 2017 11:25 | 1201897-6 May 09, 2017 14:10 | |
|-------------------------|-------------|---|-------------------------------------|-------------------------------------|------------------------------------|-------------------|
| | | Sample Description | YOWN-1513 / 2017060 / 1.5 °C / B | YOWN-1612 / 2017061 / 1.5 °C / B | 2017062 / 1.5 °C / B | |
| | | Matrix | Water | Water | Water | |
| Analyte | | Units | Results | Results | Results | Nominal Detection |
| Trace Metals Dissolved | - Continued | | | | | Linin |
| Zirconium | Dissolved | mg/L | <0.0001 | <0.0001 | <0.0001 | 0.0001 |
| Trace Metals Total | | | | | | |
| Aluminum | Total | mg/L | 0.009 | 0.003 | 0.021 | 0.001 |
| Antimony | Total | mg/L | 0.00016 | 0.000086 | 0.00017 | 0.00002 |
| Arsenic | Total | mg/L | 0.0011 | 0.0005 | 0.0011 | 0.0001 |
| Barium | Total | mg/L | 0.25 | 0.097 | 0.24 | 0.0001 |
| Beryllium | Total | mg/L | <0.000050 | <0.000050 | <0.000050 | 0.00005 |
| Bismuth | Total | mg/L | <0.0001 | <0.0001 | <0.0001 | 0.0001 |
| Boron | Total | mg/L | 0.004 | 0.003 | 0.007 | 0.002 |
| Cadmium | Total | mg/L | <0.000010 | 0.000018 | 0.000032 | 0.00001 |
| Chromium | Total | mg/L | 0.0068 | 0.0015 | 0.0059 | 0.00005 |
| Cobalt | Total | mg/L | 0.00083 | 0.00015 | 0.00026 | 0.00002 |
| Copper | Total | mg/L | 0.012 | 0.0025 | 0.0032 | 0.0002 |
| Iron | Total | mg/L | 6.5 | 1.4 | 4.5 | 0.002 |
| Lead | Total | mg/L | 0.00089 | 0.014 | 0.0017 | 0.00001 |
| Lithium | Total | mg/L | 0.0071 | 0.0055 | 0.012 | 0.0005 |
| Manganese | Total | ma/L | 0.065 | 0.015 | 0.037 | 0.001 |
| Molybdenum | Total | mg/L | 0.00055 | 0.0018 | 0.0026 | 0.00002 |
| Nickel | Total | ma/L | 0.0061 | 0.0017 | 0.0024 | 0.0002 |
| Selenium | Total | ma/L | < 0.0002 | 0.0005 | 0.0006 | 0.0002 |
| Silver | Total | ma/L | <0.000010 | <0.000010 | <0.000010 | 0.00001 |
| Strontium | Total | ma/L | 0.19 | 0.22 | 0.17 | 0.0001 |
| Tellurium | Total | ma/L | <0.000050 | < 0.000050 | < 0.000050 | 0.00005 |
| Thallium | Total | mg/L | <0.000010 | < 0.000010 | < 0.000010 | 0.00001 |
| Thorium | Total | ma/L | <0.000050 | <0.000050 | <0.000050 | 0.00005 |
| Tin | Total | mg/L | 0.0005 | < 0.0001 | 0.0002 | 0.0001 |
| Uranium | Total | mg/L | 0.00087 | 0.00086 | 0.0013 | 0.00001 |
| Vanadium | Total | mg/l | 0.00067 | 0.00034 | 0.0012 | 0.00005 |
| Zinc | Total | mg/l | 0.15 | 0.19 | 0.20 | 0.0005 |
| Zirconium | Total | mg/l | <0.0001 | < 0.0001 | <0.0001 | 0.0001 |
| Subcontracted Analysi | s | | 10.0001 | 0.0001 | 50.0001 | 0.0001 |
| Subcontractor Report Id | SRC | | Done | Done | Done | |
| | | | 20110 | 20110 | 20110 | |

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Analytical Report



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1201897 |
|----------|---|---------------------|------------------------------|----------------------------------|-------------------------|
| | 202, 419 Range Road Whitehorse, YT, Canada | ID: Name: | YOWN Campground Well | Control Number: | May 12 2017 |
| Attn: | Y1A 3V1 John Miller | Location: LSD: | Sampling Watson Lake Area | Date Reported: Report Number: | May 29, 2017 2190036 |
| Company: | YG-Eenvironment | P.O.: Acct code: | C00037999 | | |

RhSeunson

Approved by: Randy Neumann, BSc

Vice President

Data have been validated by Analytical Quality Control and Exova's Integrated Data Validation System (IDVS).
Generation and distribution of the report, and approval by the digitized signature above, are performed through a secure and controlled automatic process.
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Quality Control



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1201897 |
|-------------|---------------------------|------------|------------------------------|----------------|--------------|
| | 202, 419 Range Road | ID: | YOWN | Control Number | |
| | Whitehorse, YT, Canada | Name: | Campground Well | Date Received: | May 12, 2017 |
| | Y1A 3V1 | Location: | Sampling Watson Lake Area | Date Reported: | May 29, 2017 |
| Attn: | John Miller | | Walson Eake Area | Report Number: | 2190036 |
| Sampled By: | JDM/KP | LSD. | | | |
| Company: | YG-Eenvironment | P.O.: | C00037999 | | |
| | | Acct code: | | | |

Inorganic Nonmetallic Parameters

| Blanks | Units | Measured | Lower Limit | Upper Limit | | Passed QC |
|-------------------|---------------|-------------|-------------|----------------|-------------------|-----------|
| Ammonium - N | μg/L | -19.152 | -110.00 | 10.00 | | yes |
| Phosphorus | mg/L | -0.0007 | -0.003 | 0.003 | | yes |
| Date Acquired: | May 16, 2017 | | | | | |
| Nitrogen | mg/L | 0.05827 | -0.04 | 0.08 | | yes |
| Organic Carbon | mg/L | 0.2357 | -0.5 | 0.5 | | yes |
| Inorganic carbon | mg/L | 0.101 | -0.5 | 0.5 | | yes |
| Date Acquired: | May 15, 2017 | | | | | |
| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | | Passed QC |
| Ammonium - N | µg/L | 103.17 | 85 | 115 | | yes |
| Phosphorus | mg/L | 100.32 | 90 | 110 | | yes |
| Date Acquired: | May 16, 2017 | | | | | |
| Ammonium - N | µg/L | 74.74 | 70 | 130 | | yes |
| Phosphorus | mg/L | 102.00 | 80 | 120 | | yes |
| Date Acquired: | May 16, 2017 | | | | | |
| Client Sample Rep | licates Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Nitrogen | mg/L | 10.7 | 10.4 | 10 | 0.06 | yes |
| Organic Carbon | mg/L | 0.7 | 0.7 | 10 | 1.0 | yes |
| Inorganic carbon | mg/L | 25 | 25 | 10 | 1.0 | yes |
| Date Acquired: | May 15, 2017 | | | | | |
| Ammonia - N | mg/L | 0.02 | 0.02 | 20 | 50.00 | yes |
| Date Acquired: | May 18, 2017 | | | | | |
| Control Sample | Units | Measured | Lower Limit | Upper Limit | | Passed QC |
| Organic Carbon | mg/L | <0.5 | -0.5 | 0.5 | | yes |
| Date Acquired: | May 15, 2017 | | | | | |
| Nitrogen | mg/L | 112 | 103.74 | 137.28 | | yes |
| Organic Carbon | mg/L | 127 | 109.1 | 139.7 | | yes |
| Inorganic carbon | mg/L | 46.7 | 39.0 | 57.0 | | yes |
| Date Acquired: | May 15, 2017 | | | | | |
| Nitrogen | mg/L | 14.7 | 13.27 | 16.93 | | yes |
| Organic Carbon | mg/L | 14.8 | 12.8 | 17.2 | | yes |
| Inorganic carbon | mg/L | 16.6 | 13.5 | 18.3 | | yes |
| Date Acquired: | May 15, 2017 | | | | | |
| Nitrogen | mg/L | 1.18 | 0.89 | 1.25 | | yes |
| Organic Carbon | mg/L | 3.5 | 2.4 | 4.0 | | yes |
| Inorganic carbon | mg/L | 3.7 | 2.7 | 3.9 | | yes |
| Date Acquired: | May 15, 2017 | | | | | |
| Phosphorus | mg/L | 0.454 | 0.389 | 0.503 | | yes |
| Date Acquired: | May 16, 2017 | | | | | |

Metals Total

Quality Control



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1201897 |
|-------------|---------------------------|------------|------------------|-----------------|--------------|
| | 202, 419 Range Road | ID: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Name: | Campground Well | Date Received: | May 12, 2017 |
| | Y1A 3V1 | Location | Sampling | Date Reported: | May 29, 2017 |
| Attn: | John Miller | Location. | Walson Lake Alea | Report Number: | 2190036 |
| Sampled By: | JDM/KP | LSD: | | • | |
| Company: | YG-Eenvironment | P.O.: | C00037999 | | |
| | | Acct code: | | | |

| Metals Total | | | | | | |
|--------------------|---------------|-------------|-------------|----------------|-------------------|-----------|
| Blanks | Units | Measured | Lower Limit | Upper Limit | | Passed QC |
| Calcium | mg/L | 0 | -0.010 | 0.010 | | yes |
| Magnesium | mg/L | -0.0107695 | -0.020 | 0.020 | | yes |
| Potassium | mg/L | -0.021 | -0.040 | 0.040 | | yes |
| Silicon | mg/L | 0.00300553 | -0.005 | 0.005 | | yes |
| Sodium | mg/L | 0.0965076 | -0.099 | 0.099 | | yes |
| Date Acquired: | May 12, 2017 | | | | | |
| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | | Passed QC |
| Calcium | mg/L | 98.12 | 90 | 110 | | yes |
| Magnesium | mg/L | 99.10 | 90 | 110 | | yes |
| Potassium | mg/L | 97.42 | 90 | 110 | | yes |
| Silicon | mg/L | 96.94 | 90 | 110 | | yes |
| Sodium | mg/L | 97.01 | 90 | 110 | | yes |
| Titanium | mg/L | 96.88 | 90 | 110 | | yes |
| Date Acquired: | May 12, 2017 | | | | | |
| Calcium | mg/L | 100.87 | 90 | 110 | | yes |
| Magnesium | mg/L | 101.73 | 90 | 110 | | yes |
| Potassium | mg/L | 97.50 | 90 | 110 | | yes |
| Silicon | mg/L | 98.62 | 90 | 110 | | yes |
| Sodium | mg/L | 94.96 | 90 | 110 | | yes |
| Titanium | mg/L | 99.38 | 90 | 110 | | yes |
| Date Acquired: | May 12, 2017 | | | | | |
| Client Sample Repl | licates Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Calcium | mg/L | 0.066 | 0.072 | 20 | 0.050 | yes |
| Magnesium | mg/L | 3.1 | 3.1 | 20 | 0.050 | yes |
| Potassium | mg/L | 3.2 | 3.2 | 20 | 0.100 | yes |
| Silicon | mg/L | 0.034 | 0.037 | 20 | 0.100 | yes |
| Sodium | mg/L | 1.4 | 1.5 | 20 | 0.100 | yes |

Physical and Aggregate Properties

Date Acquired: May 12, 2017

| Client Sample Rep | olicates Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
|-------------------|----------------|-------------|-------------|----------------|-------------------|-----------|
| Solids | mg/L | 130 | 140 | 30 | 50.000 | yes |
| Date Acquired: | May 15, 2017 | | | | | |
| Control Sample | Units | Measured | Lower Limit | Upper Limit | | Passed QC |
| Solids | mg/L | 470 | 263.000 | 575.000 | | yes |
| Date Acquired: | May 15, 2017 | | | | | |
| Solids | mg/L | 21.0 | 16.490 | 30.710 | | yes |
| Date Acquired: | May 15, 2017 | | | | | |
| Solids | mg/L | <5.0 | -5.001 | 5.001 | | yes |
| Date Acquired: | May 15, 2017 | | | | | |

Quality Control



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1201897 |
|-------------|---------------------------|------------|------------------|----------------|--------------|
| | 202, 419 Range Road | ID: | YOWN | Control Number | |
| | Whitehorse, YT, Canada | Name: | Campground Well | Date Received: | May 12, 2017 |
| | Y1A 3V1 | Location | Sampling | Date Reported: | May 29, 2017 |
| Attn: | John Miller | Location. | Walson Lake Area | Report Number: | 2190036 |
| Sampled By: | JDM/KP | LSD: | | • | |
| Company: | YG-Eenvironment | P.O.: | C00037999 | | |
| | | Acct code: | | | |

Physical and Aggregate Properties -Continued

| Control Sample | Units | Measured | Lower Limit | Upper Limit | Passed QC |
|-------------------|--------------|-------------|-------------|-------------|-----------|
| Solids | mg/l | <2.00 | -5.010 | 5.010 | Ves |
| Date Acquired: | May 15, 2017 | | | 0.010 | , |
| Routine Water | | | | | |
| Blanks | Units | Measured | Lower Limit | Upper Limit | Passed QC |
| Calcium | mg/L | 0 | -0.010 | 0.010 | yes |
| Magnesium | mg/L | -0.0165222 | -0.020 | 0.020 | yes |
| Potassium | mg/L | 0.00776276 | -0.040 | 0.040 | yes |
| Silicon | mg/L | 0.00248533 | -0.005 | 0.005 | yes |
| Sodium | mg/L | -0.00552229 | -0.099 | 0.099 | yes |
| Date Acquired: | May 15, 2017 | | | | |
| Bromide | mg/L | 0 | -0.099 | 0.099 | yes |
| Chloride | mg/L | 0.0184293 | -0.201 | 0.201 | yes |
| Fluoride | mg/L | 0 | -0.099 | 0.099 | yes |
| Nitrate - N | mg/L | 0.00172781 | -0.010 | 0.010 | yes |
| Nitrite - N | mg/L | 0 | -0.099 | 0.099 | yes |
| Sulfate (SO4) | mg/L | 0 | -0.990 | 0.990 | yes |
| Date Acquired: | May 12, 2017 | | | | |
| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | Passed QC |
| Calcium | mg/L | 99.83 | 90 | 110 | yes |
| Magnesium | mg/L | 100.10 | 90 | 110 | yes |
| Potassium | mg/L | 99.98 | 90 | 110 | yes |
| Silicon | mg/L | 98.90 | 90 | 110 | yes |
| Sodium | mg/L | 100.08 | 90 | 110 | yes |
| Date Acquired: | May 15, 2017 | | | | |
| Bromide | mg/L | 100.11 | 90 | 110 | yes |
| Chloride | mg/L | 98.24 | 85 | 115 | yes |
| Fluoride | mg/L | 91.44 | 85 | 115 | yes |
| Nitrate - N | mg/L | 95.95 | 85 | 115 | yes |
| Nitrite - N | mg/L | 94.91 | 90 | 110 | yes |
| Sulfate (SO4) | mg/L | 96.41 | 85 | 115 | yes |
| Date Acquired: | May 12, 2017 | | | | |
| Bromide | mg/L | 107.20 | 90 | 110 | yes |
| Chloride | mg/L | 101.94 | 90 | 110 | yes |
| Fluoride | mg/L | 102.05 | 89 | 109 | yes |
| Nitrate - N | mg/L | 100.86 | 88 | 108 | yes |
| Nitrite - N | mg/L | 101.21 | 90 | 118 | yes |
| Sulfate (SO4) | mg/L | 98.54 | 90 | 110 | yes |
| Date Acquired: | May 12, 2017 | | | | |
| Calcium | mg/L | 102.99 | 90 | 110 | yes |

Quality Control



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1201897 |
|-------------|---------------------------|------------|------------------------------|-----------------|--------------|
| | 202, 419 Range Road | ID: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Name: | Campground Well | Date Received: | May 12, 2017 |
| | Y1A 3V1 | Logation | Sampling Watson Lake Area | Date Reported: | May 29, 2017 |
| Attn: | John Miller | | Walson Lake Area | Report Number: | 2190036 |
| Sampled By: | JDM/KP | LSD: | C00037000 | · | |
| Company: | YG-Eenvironment | P.U.: | C00037999 | | |
| | | Acct code: | | | |

Routine Water - Continued

| Calibration Check | | Units | % Recovery | Lower Limit | Upper Limit | | Passed QC |
|-----------------------|-----------|------------------|-------------|-------------|----------------|-------------------|-----------|
| Magnesium | | mg/L | 102.84 | 90 | 110 | | yes |
| Potassium | | mg/L | 104.64 | 90 | 110 | | yes |
| Sodium | | mg/L | 102.83 | 90 | 110 | | yes |
| Date Acquired: | May 15, 2 | 2017 | | | | | |
| Certified Reference I | Material | Units | Measured | Target | Lower Limit | Upper Limit | Passed QC |
| T-Alkalinity | | mg/L | 10 | 10 | 8 | 12 | yes |
| Date Acquired: | May 12, 2 | 2017 | | | | | |
| Client Sample Replic | cates | Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Hardness | | mg CaCO3/L | 13 | 13 | 20 | 1.000 | yes |
| Date Acquired: | May 12, 2 | 2017 | | | | | |
| рН | | | 7.69 | 7.68 | 10 | | yes |
| Electrical Conductiv | vity | dS/m at 25 °C | 0.543 | 0.512 | 10 | 0.005 | yes |
| Bicarbonate | - | mg/L | 336 | 334 | 10 | 10 | yes |
| Hydroxide | | mg/L | <5 | <5 | 10 | 10 | yes |
| P-Alkalinity | | mg/L | <5 | <5 | 10 | 5 | yes |
| T-Alkalinity | | mg/L | 275 | 274 | 10 | 5 | yes |
| Chloride | | mg/L | 9.55 | 9.55 | 20 | 0.250 | yes |
| Fluoride | | mg/L | 0.072 | 0.073 | 20 | 0.050 | yes |
| Nitrate - N | | mg/L | <0.10 | <0.10 | 20 | 0.050 | yes |
| Nitrite - N | | mg/L | <0.010 | <0.010 | 20 | 0.050 | yes |
| Sulfate (SO4) | | mg/L | 25.8 | 25.8 | 20 | 0.500 | yes |
| Date Acquired: | May 12, 2 | 2017 | | | | | |
| Replicates | | Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Chloride | | mg/L | 1.27 | 1.24 | 6 | 0.010 | yes |
| Nitrate - N | | mg/L | 0.283 | 0.298 | 12 | 0.050 | yes |
| Sulfate (SO4) | | mg/L | 4.4 | 4.3 | 6 | 0.010 | yes |
| Date Acquired: | May 12, 2 | 2017 | | | | | |
| Control Sample | | Units | Measured | Lower Limit | Upper Limit | | Passed QC |
| рН | | | 10.06 | 9.17 | 10.81 | | yes |
| Electrical Conductiv | vity | µS/cm at 25 °C | 205 | 194 | 250 | | yes |
| P-Alkalinity | | mg/L | 40 | 7 | 55 | | yes |
| T-Alkalinity | | mg/L | 108 | 98 | 113 | | yes |
| Date Acquired: I | May 12, 2 | 2017 | | | | | |
| рН | | | 4.03 | 3.88 | 4.12 | | yes |
| Date Acquired: | May 12, 2 | 2017 | | | | | |
| На | - | | 7.93 | 7.88 | 8.12 | | ves |
| Date Acquired: | May 12. 2 | 2017 | | | 5= | | , |
| Electrical Conductiv | vitv | uS/cm at 25 °C | 1397 | 1323 | 1503 | | VAS |
| | , | p-0, 011 01 20 0 | 1001 | 1020 | 1000 | | 300 |

Date Acquired: May 12, 2017

T: +1 (604) 514-3322 F: +1 (604) 514-3323 E: Surrey@exova.com W: www.exova.com Exova #104, 19575-55 A Ave. Surrey, British Columbia V3S 8P8, Canada

Quality Control



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1201897 |
|-------------|---------------------------|------------|------------------------------|-----------------|--------------|
| | 202, 419 Range Road | ID: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Name: | Campground Well | Date Received: | May 12, 2017 |
| | Y1A 3V1 | Location: | Sampling Watson Lake Area | Date Reported: | May 29, 2017 |
| Attn: | John Miller | | Walson Lake Alea | Report Number: | 2190036 |
| Sampled By: | JDM/KP | LOD. | C00037000 | | |
| Company: | YG-Eenvironment | F.U. | 00037999 | | |
| | | Acct code: | | | |

Trace Metals Dissolved

| Blanks | Units | Measured | Lower Limit | Upper Limit | Passed QC |
|-------------------|--------------|--------------|-------------|-------------|-----------|
| Aluminum | µg/L | 0.810478 | -0.990 | 0.990 | yes |
| Antimony | µg/L | 0 | -0.020 | 0.020 | yes |
| Arsenic | µg/L | 0.0121001 | -0.099 | 0.099 | yes |
| Barium | µg/L | 0.00213819 | -0.099 | 0.099 | yes |
| Beryllium | µg/L | 0.00608709 | -0.050 | 0.050 | yes |
| Bismuth | µg/L | 0.00200278 | -0.099 | 0.099 | yes |
| Boron | µg/L | -0.053708 | -2.001 | 2.001 | yes |
| Cadmium | µg/L | -0.000154394 | -0.010 | 0.010 | yes |
| Chromium | μg/L | -0.0403878 | -0.050 | 0.050 | yes |
| Cobalt | µg/L | 7.48936e-006 | -0.020 | 0.020 | yes |
| Copper | µg/L | 0.00601762 | -0.050 | 0.050 | yes |
| Iron | μg/L | 0.072655 | -2.001 | 2.001 | yes |
| Lead | μg/L | 0 | -0.010 | 0.010 | yes |
| Lithium | μg/L | 0.00579214 | -0.500 | 0.500 | yes |
| Manganese | μg/L | -0.0356701 | -0.990 | 0.990 | yes |
| Molybdenum | μg/L | 0.00627733 | -0.020 | 0.020 | yes |
| Nickel | μg/L | 0.0158876 | -0.200 | 0.200 | yes |
| Selenium | μg/L | -0.00533166 | -0.200 | 0.200 | yes |
| Silver | µg/L | 0.000343192 | -0.009 | 0.009 | yes |
| Strontium | μg/L | -0.0229133 | -0.099 | 0.099 | yes |
| Tellurium | µg/L | 0.0127176 | -0.050 | 0.050 | yes |
| Thallium | µg/L | 0.000223336 | -0.010 | 0.010 | yes |
| Thorium | µg/L | 0 | -0.050 | 0.050 | yes |
| Tin | µg/L | -0.00132602 | -0.099 | 0.099 | yes |
| Titanium | μg/L | 0.0599431 | -0.099 | 0.099 | yes |
| Uranium | μg/L | 0.000605551 | -0.010 | 0.010 | yes |
| Vanadium | μg/L | -0.0210488 | -0.050 | 0.050 | yes |
| Zinc | μg/L | -0.0886916 | -0.500 | 0.500 | yes |
| Zirconium | μg/L | 0.0280897 | -0.099 | 0.099 | yes |
| Date Acquired: | May 15, 2017 | | | | |
| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | Passed QC |
| Titanium | mg/L | 99.90 | 90 | 110 | yes |
| Date Acquired: | May 15, 2017 | | | | |
| Aluminum | µg/L | 103.98 | 80 | 120 | yes |
| Antimony | µg/L | 98.15 | 90 | 110 | yes |
| Arsenic | µg/L | 100.23 | 90 | 110 | yes |
| Barium | µg/L | 100.19 | 90 | 110 | yes |
| Beryllium | µg/L | 91.41 | 90 | 110 | yes |
| Boron | µg/L | 115.03 | 70 | 130 | yes |
| Cadmium | µg/L | 101.74 | 90 | 110 | yes |
| Chromium | µg/L | 101.13 | 90 | 110 | yes |
| Cobalt | µg/L | 102.91 | 90 | 110 | yes |

Terms and Conditions: https://www.exova.com/media/1232/exova-canada-inc-standard-conditions-of-contract-short-form.pdf

Quality Control



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1201897 |
|-------------|---------------------------|------------|------------------|-----------------|--------------|
| | 202, 419 Range Road | ID: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Name: | Campground Well | Date Received: | May 12, 2017 |
| | Y1A 3V1 | Loootion | Sampling | Date Reported: | May 29, 2017 |
| Attn: | John Miller | Location: | Walson Lake Area | Report Number: | 2190036 |
| Sampled By: | JDM/KP | LOD. | | | |
| Company: | YG-Eenvironment | P.O.: | C00037999 | | |
| | | Acct code: | | | |

Trace Metals Dissolved - Continued

| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | | Passed QC |
|----------------------|--------------|-------------|-------------|----------------|-------------------|-----------|
| Copper | µg/L | 102.13 | 90 | 110 | | yes |
| Lead | µg/L | 105.67 | 90 | 110 | | yes |
| Lithium | µg/L | 108.78 | 90 | 110 | | yes |
| Molybdenum | µg/L | 104.87 | 90 | 110 | | yes |
| Nickel | µg/L | 108.08 | 90 | 110 | | yes |
| Selenium | µg/L | 106.25 | 90 | 110 | | yes |
| Silver | µg/L | 108.61 | 90 | 110 | | yes |
| Strontium | µg/L | 96.77 | 90 | 110 | | yes |
| Thorium | µg/L | 103.52 | 90 | 110 | | yes |
| Tin | µg/L | 104.46 | 90 | 110 | | yes |
| Titanium | µg/L | 101.32 | 90 | 110 | | yes |
| Uranium | µg/L | 99.62 | 90 | 110 | | yes |
| Vanadium | µg/L | 102.23 | 90 | 110 | | yes |
| Zinc | µg/L | 103.25 | 90 | 110 | | yes |
| Date Acquired: | May 15, 2017 | | | | | |
| Aluminum | µg/L | 100.61 | 80 | 120 | | yes |
| Antimony | µg/L | 93.48 | 90 | 110 | | yes |
| Arsenic | µg/L | 98.94 | 90 | 110 | | yes |
| Barium | µg/L | 96.71 | 90 | 110 | | yes |
| Beryllium | µg/L | 94.32 | 90 | 110 | | yes |
| Boron | µg/L | 100.29 | 80 | 120 | | yes |
| Cadmium | µg/L | 103.82 | 90 | 110 | | yes |
| Chromium | µg/L | 100.51 | 90 | 110 | | yes |
| Cobalt | µg/L | 100.56 | 90 | 110 | | yes |
| Copper | µg/L | 97.85 | 90 | 110 | | yes |
| Lead | µg/L | 106.55 | 90 | 110 | | yes |
| Lithium | µg/L | 103.16 | 90 | 110 | | yes |
| Molybdenum | µg/L | 101.41 | 90 | 110 | | yes |
| Nickel | µg/L | 103.06 | 90 | 110 | | yes |
| Selenium | µg/L | 104.54 | 90 | 110 | | yes |
| Silver | µg/L | 106.91 | 90 | 110 | | yes |
| Strontium | µg/L | 92.52 | 90 | 110 | | yes |
| Thallium | µg/L | 104.63 | 90 | 110 | | yes |
| Thorium | µg/L | 109.14 | 86 | 122 | | yes |
| Tin | µg/L | 97.95 | 90 | 110 | | yes |
| Titanium | µg/L | 99.32 | 90 | 110 | | yes |
| Uranium | µg/L | 104.89 | 90 | 110 | | yes |
| Vanadium | µg/L | 100.36 | 90 | 110 | | yes |
| Zinc | µg/L | 100.53 | 90 | 110 | | yes |
| Date Acquired: | May 15, 2017 | | | | | |
| Client Sample Replic | ates Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Aluminum | µg/L | <1 | <1 | 20 | 20.000 | yes |

Terms and Conditions: https://www.exova.com/media/1232/exova-canada-inc-standard-conditions-of-contract-short-form.pdf

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Quality Control



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1201897 |
|-------------|---------------------------|------------|------------------|-----------------|--------------|
| | 202, 419 Range Road | ID: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Name: | Campground Well | Date Received: | May 12, 2017 |
| | Y1A 3V1 | | Sampling | Date Reported: | May 29, 2017 |
| Attn: | John Miller | Location: | Watson Lake Area | Report Number: | 2190036 |
| Sampled By: | JDM/KP | LSD: | _ | | |
| Company: | YG-Eenvironment | P.O.: | C00037999 | | |
| | | Acct code: | | | |

Trace Metals Dissolved - Continued

| Client Sample Replicates | Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
|--------------------------|--------|-------------|-------------|----------------|-------------------|-----------|
| Antimony | µg/L | 0.206 | 0.265 | 20 | 1.000 | yes |
| Arsenic | µg/L | 0.5 | 0.5 | 20 | 1.000 | yes |
| Barium | µg/L | 94.3 | 95.7 | 20 | 5.000 | yes |
| Beryllium | µg/L | <0.050 | <0.050 | 20 | 1.000 | yes |
| Boron | µg/L | 4 | 4 | 20 | 5.000 | yes |
| Cadmium | µg/L | <0.010 | <0.010 | 20 | 0.500 | yes |
| Chromium | µg/L | 0.067 | <0.050 | 20 | 5.000 | yes |
| Cobalt | µg/L | 0.263 | 0.269 | 20 | 0.500 | yes |
| Copper | µg/L | <0.5 | <0.5 | 20 | 5.000 | yes |
| Iron | µg/L | 152 | 151 | 20 | 50.000 | yes |
| Lead | µg/L | 0.020 | 0.026 | 20 | 0.500 | yes |
| Lithium | µg/L | 2.1 | 2.3 | 20 | 5.000 | yes |
| Manganese | µg/L | 91 | 90 | 20 | 0.500 | yes |
| Molybdenum | µg/L | 3.352 | 3.357 | 20 | 0.500 | yes |
| Nickel | µg/L | 8.3 | 8.3 | 20 | 5.000 | yes |
| Selenium | µg/L | 0.3 | 0.3 | 20 | 0.500 | yes |
| Silver | µg/L | <0.010 | <0.010 | 20 | 0.500 | yes |
| Strontium | µg/L | 128.5 | 126.3 | 20 | 0.500 | yes |
| Tellurium | µg/L | 0.111 | 0.105 | 20 | 0.500 | yes |
| Thallium | µg/L | <0.010 | <0.010 | 20 | 0.100 | yes |
| Thorium | µg/L | <0.050 | <0.050 | 20 | 0.100 | yes |
| Tin | µg/L | <0.1 | <0.1 | 20 | 0.500 | yes |
| Titanium | µg/L | <0.1 | <0.1 | 20 | 0.500 | yes |
| Uranium | µg/L | 0.378 | 0.373 | 20 | 0.100 | yes |
| Vanadium | µg/L | <0.050 | <0.050 | 20 | 0.500 | yes |
| Zinc | µg/L | 19.2 | 19.3 | 20 | 5.000 | yes |
| Zirconium | µg/L | <0.1 | <0.1 | 20 | 0.500 | yes |
| Date Acquired: May 15 | , 2017 | | | | | |

Trace Metals Total

| Blanks | Units | Measured | Lower Limit | Upper Limit | Passed QC |
|-----------|-------|--------------|-------------|-------------|-----------|
| Aluminum | μg/L | 0.183002 | -0.990 | 0.990 | yes |
| Antimony | μg/L | -0.0123475 | -0.020 | 0.020 | yes |
| Arsenic | μg/L | 0.00550195 | -0.099 | 0.099 | yes |
| Barium | μg/L | 0.0020091 | -0.099 | 0.099 | yes |
| Beryllium | μg/L | 0.0158118 | -0.050 | 0.050 | yes |
| Bismuth | μg/L | -0.0219287 | -0.099 | 0.099 | yes |
| Boron | μg/L | -0.351895 | -2.001 | 2.001 | yes |
| Cadmium | μg/L | 2.64474e-005 | -0.010 | 0.010 | yes |
| Chromium | μg/L | -0.0230483 | -0.050 | 0.050 | yes |
| Cobalt | μg/L | -0.000820154 | -0.020 | 0.020 | yes |
| Copper | µg/L | -0.0110653 | -0.501 | 0.501 | yes |

Quality Control



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1201897 |
|-------------|---------------------------|------------|------------------|----------------|--------------|
| | 202, 419 Range Road | ID: | YOWN | Control Number | |
| | Whitehorse, YT, Canada | Name: | Campground Well | Date Received: | May 12, 2017 |
| | Y1A 3V1 | Location | Sampling | Date Reported: | May 29, 2017 |
| Attn: | John Miller | Location. | Watson Lake Alea | Report Number: | 2190036 |
| Sampled By: | JDM/KP | LSD: | | | |
| Company: | YG-Eenvironment | P.O.: | C00037999 | | |
| | | Acct code: | | | |

Trace Metals Total - Continued

| Blanks | Units | Measured | Lower Limit | Upper Limit | Passed QC |
|-------------------|--------------|--------------|-------------|-------------|-----------|
| Iron | μg/L | 0.680531 | -2.001 | 2.001 | yes |
| Lead | µg/L | 0.0029623 | -0.010 | 0.010 | yes |
| Lithium | µg/L | 0.0056566 | -0.501 | 0.501 | yes |
| Manganese | µg/L | -0.0405317 | -0.990 | 0.990 | yes |
| Molybdenum | µg/L | -0.00422541 | -0.020 | 0.020 | yes |
| Nickel | µg/L | -0.0358453 | -0.201 | 0.201 | yes |
| Selenium | μg/L | -0.0384241 | -0.201 | 0.201 | yes |
| Silver | µg/L | 0 | -0.010 | 0.010 | yes |
| Strontium | µg/L | 0.00741035 | -0.099 | 0.099 | yes |
| Tellurium | µg/L | -0.0227293 | -0.050 | 0.050 | yes |
| Thallium | µg/L | -0.000558763 | -0.010 | 0.010 | yes |
| Thorium | µg/L | 0 | -0.050 | 0.050 | yes |
| Tin | μg/L | 0 | -0.099 | 0.099 | yes |
| Titanium | μg/L | 0.00457699 | -0.099 | 0.099 | yes |
| Uranium | µg/L | -0.00304352 | -0.099 | 0.099 | yes |
| Vanadium | µg/L | -0.0372858 | -0.050 | 0.050 | yes |
| Zinc | µg/L | 0.360349 | -0.501 | 0.501 | yes |
| Zirconium | µg/L | -0.0825637 | -0.099 | 0.099 | yes |
| Date Acquired: | May 12, 2017 | | | | |
| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | Passed QC |
| Aluminum | μg/L | 101.18 | 80 | 120 | yes |
| Antimony | μg/L | 96.54 | 90 | 110 | yes |
| Arsenic | μg/L | 103.20 | 90 | 110 | yes |
| Barium | μg/L | 101.63 | 90 | 110 | yes |
| Beryllium | μg/L | 105.07 | 90 | 110 | yes |
| Boron | μg/L | 112.77 | 70 | 130 | yes |
| Cadmium | μg/L | 104.00 | 90 | 110 | yes |
| Chromium | μg/L | 109.10 | 90 | 110 | yes |
| Cobalt | μg/L | 104.77 | 90 | 110 | yes |
| Copper | μg/L | 105.19 | 90 | 110 | yes |
| Lead | μg/L | 105.62 | 90 | 110 | yes |
| Lithium | μg/L | 105.81 | 90 | 110 | yes |
| Molybdenum | μg/L | 104.18 | 90 | 110 | yes |
| Nickel | μg/L | 104.22 | 90 | 110 | yes |
| Selenium | μg/L | 107.53 | 90 | 110 | yes |
| Silver | μg/L | 102.57 | 90 | 110 | yes |
| Strontium | μg/L | 91.29 | 90 | 110 | yes |
| Thallium | μg/L | 105.81 | 90 | 110 | yes |
| Thorium | μg/L | 106.36 | 90 | 110 | yes |
| Tin | μg/L | 106.56 | 90 | 110 | yes |
| Titanium | μg/L | 105.02 | 90 | 110 | yes |
| Uranium | μg/L | 103.68 | 90 | 110 | yes |

Quality Control



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1201897 |
|-------------|---------------------------|------------|------------------|-----------------|--------------|
| | 202, 419 Range Road | ID: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Name: | Campground Well | Date Received: | May 12, 2017 |
| | Y1A 3V1 | Lagation | Sampling | Date Reported: | May 29, 2017 |
| Attn: | John Miller | Location: | watson Lake Area | Report Number: | 2190036 |
| Sampled By: | JDM/KP | LSD: | | | |
| Company: | YG-Eenvironment | P.O.: | C00037999 | | |
| 1 5 | | Acct code: | | | |

Trace Metals Total - Continued

| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | | Passed QC |
|----------------------|-----------------------|-------------|-------------|----------------|-------------------|-----------|
| Vanadium | µg/L | 103.82 | 90 | 110 | | yes |
| Zinc | µg/L | 108.61 | 90 | 110 | | yes |
| Date Acquired: N | <i>M</i> ay 12, 2017 | | | | | |
| Aluminum | µg/L | 99.96 | 80 | 120 | | yes |
| Antimony | µg/L | 97.25 | 90 | 110 | | yes |
| Arsenic | µg/L | 102.92 | 90 | 110 | | yes |
| Barium | µg/L | 102.94 | 90 | 110 | | yes |
| Beryllium | µg/L | 105.85 | 90 | 110 | | yes |
| Boron | µg/L | 107.27 | 80 | 120 | | yes |
| Cadmium | µg/L | 105.52 | 90 | 110 | | yes |
| Chromium | µg/L | 107.27 | 90 | 110 | | yes |
| Cobalt | µg/L | 103.13 | 90 | 110 | | yes |
| Copper | µg/L | 102.24 | 90 | 110 | | yes |
| Lead | µg/L | 101.02 | 90 | 110 | | yes |
| Lithium | µg/L | 105.16 | 90 | 110 | | yes |
| Molybdenum | µg/L | 105.54 | 90 | 110 | | yes |
| Nickel | µg/L | 101.76 | 90 | 110 | | yes |
| Selenium | µg/L | 106.49 | 90 | 110 | | yes |
| Silver | µg/L | 104.65 | 90 | 110 | | yes |
| Strontium | µg/L | 94.07 | 90 | 110 | | yes |
| Thallium | µg/L | 102.55 | 90 | 110 | | yes |
| Thorium | µg/L | 104.41 | 90 | 110 | | yes |
| Tin | µg/L | 105.75 | 90 | 110 | | yes |
| Titanium | µg/L | 98.55 | 90 | 110 | | yes |
| Uranium | µg/L | 101.67 | 90 | 110 | | yes |
| Vanadium | µg/L | 103.02 | 90 | 110 | | yes |
| Zinc | µg/L | 96.33 | 90 | 110 | | yes |
| Date Acquired: | <i>l</i> lay 12, 2017 | | | | | |
| Client Sample Replic | ates Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Aluminum | µg/L | 1 | <1 | 20 | 100.000 | yes |
| Antimony | µg/L | 0.18 | 0.22 | 20 | 2.000 | yes |
| Arsenic | µg/L | <0.1 | <0.1 | 20 | 2.000 | yes |
| Barium | µg/L | 0.5 | 0.5 | 20 | 10.000 | yes |
| Beryllium | µg/L | <0.050 | <0.050 | 20 | 0.400 | yes |
| Boron | µg/L | <2 | <2 | 20 | 40.000 | yes |
| Cadmium | µg/L | <0.010 | <0.010 | 20 | 0.100 | yes |
| Chromium | µg/L | 0.34 | 0.24 | 20 | 6.000 | yes |
| Cobalt | µg/L | <0.020 | <0.020 | 20 | 0.200 | yes |
| Copper | µg/L | <0.2 | <0.2 | 20 | 5.000 | yes |
| Iron | µg/L | 3 | 3 | 20 | 100.000 | yes |
| Lead | µg/L | <0.010 | <0.010 | 20 | 1.000 | yes |
| Lithium | μg/L | <0.5 | <0.5 | 20 | 10.000 | yes |
| | | | | | | |

Quality Control



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1201897 |
|-------------|---------------------------|------------|------------------|-----------------|--------------|
| | 202, 419 Range Road | ID: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Name: | Campground Well | Date Received: | May 12, 2017 |
| | Y1A 3V1 | Location | Sampling | Date Reported: | May 29, 2017 |
| Attn: | John Miller | Location: | Walson Lake Area | Report Number: | 2190036 |
| Sampled By: | JDM/KP | LSD: | | | |
| Company: | YG-Eenvironment | P.O.: | C00037999 | | |
| | | Acct code: | | | |

Trace Metals Total - Continued

| Client Sample Replicat | es Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
|------------------------|------------|-------------|-------------|----------------|-------------------|-----------|
| Manganese | µg/L | <1 | <1 | 20 | 1.000 | yes |
| Molybdenum | µg/L | 0.021 | 0.022 | 20 | 0.200 | yes |
| Nickel | µg/L | <0.2 | <0.2 | 20 | 10.000 | yes |
| Selenium | µg/L | <0.2 | <0.2 | 20 | 5.000 | yes |
| Silver | µg/L | <0.010 | <0.010 | 20 | 0.100 | yes |
| Strontium | µg/L | 0.2 | 0.2 | 20 | 10.000 | yes |
| Tellurium | µg/L | 0.069 | 0.13 | 20 | 0.500 | yes |
| Thallium | µg/L | <0.010 | <0.010 | 20 | 0.100 | yes |
| Thorium | µg/L | 0.13 | 0.20 | 20 | 1.000 | yes |
| Tin | µg/L | <0.1 | <0.1 | 20 | 1.000 | yes |
| Titanium | µg/L | <0.1 | <0.1 | 20 | 1.000 | yes |
| Uranium | µg/L | <0.010 | <0.010 | 20 | 1.000 | yes |
| Vanadium | µg/L | <0.050 | <0.050 | 20 | 0.400 | yes |
| Zinc | µg/L | 0.8 | 0.7 | 20 | 10.000 | yes |
| Zirconium | µg/L | <0.1 | <0.1 | 20 | 1.000 | yes |
| Date Acquired: Ma | y 12, 2017 | | | | | |

Methodology and Notes



| Bill To: | YTG DOE - Water Resources 202, 419 Range Road | Project: ID: | YOWN | Lot ID: Control Number: | 1201897 |
|----------------------|--|---------------------|-----------------------------|----------------------------|--------------|
| | Whitehorse, YT, Canada Y1A 3V1 | Name: | Campground Well Sampling | Date Received: | May 12, 2017 |
| Attn: Sampled By: | John Miller | Location: LSD: | Watson Lake Area | Report Number: | 2190036 |
| Company: | YG-Eenvironment | P.O.: Acct code: | C00037999 | | |

Method of Analysis

| Method Name | Reference | Method | Date Analysis Started | Location |
|---|-----------|--|--------------------------|----------------------------------|
| Alk, pH, EC, Turb in water (Surrey) | APHA | * Alkalinity - Titration Method, 2320 B | 12-May-17 | Exova Surrey |
| Alk, pH, EC, Turb in water (Surrey) | APHA | * Conductivity, 2510 B | 12-May-17 | Exova Surrey |
| Alk, pH, EC, Turb in water (Surrey) | APHA | * pH - Electrometric Method, 4500-H+ B | 12-May-17 | Exova Surrey |
| Ammonia-N in Water (Surrey) | APHA | * Flow Injection Analysis, 4500-NH3 H | 18-May-17 | Exova Surrey |
| Anions by IEC in water (Surrey) | APHA | * Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B | 12-May-17 | Exova Surrey |
| Anions by IEC in water (Surrey) | APHA | * Single-Column Ion Chromatography with Electronic Suppression, 4110 C | 12-May-17 | Exova Surrey |
| Carbon Inorganic (Dissolved) in water(DIC) | APHA | High-Temperature Combustion Method, 5310 B | 15-May-17 | Exova Edmonton |
| Carbon Inorganic (Total) in water (TIC) | APHA | High-Temperature Combustion Method, 5310 B | 15-May-17 | Exova Edmonton |
| Carbon Organic (Dissolved) in water (DOC) | APHA | High-Temperature Combustion Method, 5310 B | 15-May-17 | Exova Edmonton |
| Carbon Organic (Total) in water (TOC) | APHA | High-Temperature Combustion Method, 5310 B | 15-May-17 | Exova Edmonton |
| Metals SemiTrace (Dissolved) in water (Surrey) | US EPA | * Metals & Trace Elements by ICP-AES, 6010C | 15-May-17 | Exova Surrey |
| Metals SemiTrace (Total) in Water (Surrey) | US EPA | * Metals & Trace Elements by ICP-AES, 6010C | 12-May-17 | Exova Surrey |
| Phosphorus - total by Smartchem (Surrey) | APHA | * Persulfate digestion method, 4500-P B5 | 16-May-17 | Exova Surrey |
| Solids Dissolved (Total, Fixed and Volatile) - Surrey | APHA | * Total Dissolved Solids Dried at 180 C, 2540 C | 15-May-17 | Exova Surrey |
| Solids Suspended (Total, Fixed and Volatile) - Surrey | APHA | * Total Suspended Solids Dried at 103- 105'C, 2540 D | 15-May-17 | Exova Surrey |
| Sublet to SRC Analytical | Ext. Lab | See attached test report, | 29-May-17 | Saskatchewan Research Council |
| Total and Kjeldahl Nitrogen (Total) in Water | ISO | * Water Quality - Determination of nitrogen, ISO/TR 11905-2 | 15-May-17 | Exova Edmonton |
| Trace Metals (dissolved) in Water (Surrey) | US EPA | * Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8 | 15-May-17 | Exova Surrey |
| Trace Metals (Total) in Water (Surrey) | US EPA | * Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8 | 12-May-17 | Exova Surrey |
| | | * Reference Method Modified | | |

References

| APHA | Standard Methods for the Examination of Water and Wastewater |
|----------|--|
| Ext. Lab | External Laboratory |
| ISO | International Organization for Standardization |
| US EPA | US Environmental Protection Agency Test Methods |

Methodology and Notes



| Bill To: Y 2 V Attn: J Sampled By: J Company: Y | YTG DOE - Water Resources 202, 419 Range Road Whitehorse, YT, Canada Y1A 3V1 John Miller JDM/KP YG-Eenvironment | Project: ID: Name: Location: LSD: P.O.: Acct code: | YOWN Campground Well Sampling Watson Lake Area C00037999 | Lot ID: Control Number: Date Received: Date Reported: Report Number: | 1201897 May 12, 2017 May 29, 2017 2190036 |
|--|---|--|--|--|---|
|--|---|--|--|--|---|

Comments:

- Reduction of analytical volume was necessary for Trace Metals analysis to bring results within the analytical range for samples #1201897-1 through 6. Detection limits are adjusted accordingly.
- Total organic carbon was less than dissolved organic carbon for samples 1201897-5 and 6. The results were verified and are within expected measurement uncertainty.
- RA226 analysis was performed by a subcontract laboratory. See attached 3 page report 2017-5316.
- Sample 1201897-1; 5714858 Reduction of analytical volume was necessary for nitrate due to matrix effects in sample 1201897-1,1201897-2, 1201897-3, 1201897-4, 1201897-5 and 1201897-6. Detection limits are adjusted accordingly.



T: 306-933-6932 F: 306-933-7922 Toll-free: 1-800-240-8808 E: analytical@src.sk.ca

www.src.sk.ca/analytical

SRC Group # 2017-5316

May 29, 2017

EXOVA 104-19575 55A Avenue Surrey, BC V3S 8P8 Attn: Client Services

Date Samples Received: May-15-2017

Client P.O.: POC102913

All results have been reviewed and approved by a Qualified Person in accordance with the Saskatchewan Environmental Code, Corrective Action Plan Chapter, for the purposes of certifying a laboratory analysis

Results from Lab Sections 1 and 2 have been authorized by Keith Gipman, Supervisor Results from Lab Section 3 have been authorized by Pat Moser, Supervisor Results from Lab Sections 4 and 5 have been authorized by Vicky Snook, Supervisor Results from Lab Section 6 have been authorized by Marion McConnell, Supervisor

* Test methods and data are validated by the laboratory's Quality Assurance Program.

* Routine methods follow recognized procedures from sources such as

* Standard Methods for the Examination of Water and Wastewater APHA AWWA WEF

* Environment Canada

* US EPA

* CANMET

* The results reported relate only to the test samples as provided by the client.

* Samples will be kept for 30 days after the final report is sent. Please contact the lab if you have any special requirements.

* Additional information is available upon request.

This is a final report.



T: 306-933-6932 F: 306-933-7922 Toll-free: 1-800-240-8808 E: analytical@src.sk.ca

www.src.sk.ca/analytical

SRC Group # 2017-5316 May 29, 2017

EXOVA

104-19575 55A Avenue Surrey, BC V3S 8P8 Attn: Client Services

Date Samples Received: May-15-2017

Client P.O.: POC102913

1798205/08/2017 1201897-1 2017057 B*WATER*1798305/08/2017 1201897-2 2017058 BYOWN-1509*WATER*1798405/09/2017 1201897-3 2017059 BYOWN-1512*WATER*

| Analyte | Units | 17982 | 17983 | 17984 | |
|-------------------------|---------|-------|-------|-------|--|
| Lab Section 4 (Radioche | mistry) | | | | |
| Radium-226 | Bq/L | 0.01 | 0.03 | 0.008 | |



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SRC Group # 2017-5316

May 29, 2017

EXOVA

| 17985 17986 17987 | 05/09/2017 1201897-4 2017060 B YOWN-1513 *WATER* 05/09/2017 1201897-5 2017061 B YOWN-1612 *WATER* 05/09/2017 1201897-6 2017062 B *WATER* | | | | | | |
|-------------------------|--|-------|-------|-------|--|--|--|
| Analyte | Units | 17985 | 17986 | 17987 | | | |
| Lab Section | 4 (Radiochemistry) | | | | | | |
| Radium-22 | 6 Bq/L | 0.01 | 0.01 | 0.007 | | | |

Report Transmission Cover Page



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1207543 |
|-------------|---------------------------|------------|-----------------------|-----------------|-------------|
| | PO Box 2703 | ID: | Champagne | Control Number: | |
| | Whitehorse, YT, Canada | Name: | CAFN Monitoring Wells | Date Received: | Jun 9, 2017 |
| | Y1A 2C6 | Location: | Champagne | Date Reported: | Jul 7, 2017 |
| Attn: | Accounts Payable | LSD: | | Report Number: | 2197492 |
| Sampled By: | JDM/KP | P.O.: | C00037999 | | |
| Company: | YG-Environment | Acct code: | | | |

| Contact & Affiliation | Address | Delivery Commitments | | |
|---|---|---|---|--|
| John Miller YTG DOE - Water Resources | 202, 419 Range Road Whitehorse, Yukon Territory Y1A 3V1 Phone: (867) 667-3233 Fax: (867) 667-3194 Email: john.miller@gov.yk.ca | On [Lot Verification] send (COA) by Email - Single Report On [Report Approval] send (Test Report) by Email - Multiple Reports By Lot On [Report Approval] send (COC, Test Report) by Email - Multiple Reports By Lot On [Lot Creation] send (COR) by Email - Single Report | | |
| Holly Goulding YTG DOE - Water Resources | 202, 419 Range Road Whitehorse, Yukon Territory Y1A 3V1 Phone: (867) 456-6583 Fax: (867) 667-3194 Email: holly.goulding@gov.yk.ca | On [Report Approval] send (COC, Test Report) by Email - Merge Reports On [Report Approval] send (Test Report) by Email - Single Report On [Lot Approval and Final Test Report Approval] send (Invoice) by Email - Single Report | м | |
| Tyler Williams YTG DOE - Water Resources | 202, 419 Range Road Whitehorse, Yukon Territory Y1A 3V1 Phone: (867) 667-3233 Fax: (867) 667-3194 Email: Tyler.Williams@gov.yk.ca | On [Report Approval] send (Test Report) by Email - Multiple Reports By Lot On [Report Approval] send (COC, Test Report) by Email - Multiple Reports By Lot | M | |

Notes To Clients:

• Reduction of analytical volume was necessary for Trace Metals analysis to bring results within the analytical range for sample #1207543-2. Detection limits are adjusted accordingly.

• Analysis was performed on sample 1207543-1 and 1207543-2, 1207543-3 and 1207543-4 that exceeded the recommended holding time for nitrate and nitrite analysis.

• NORM-W1 analysis was performed by a subcontract laboratory. See attached 6 page report 2017-6698.

• Sample 1207543-1; 5743530 Reduction of analytical volume was necessary for nitrate due to matrix effects in sample 1207543-1, 1207543-2 and 1207543-3. Detection limits are adjusted accordingly.

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Analytical Report



| Bill To: Attn: Sampled By: Company: | Bill To: YTG DOE - Water Resources PO Box 2703 Whitehorse, YT, Canada Y1A 2C6 Attn: Accounts Payable Sampled By: JDM/KP Company: YG-Environment | | Champ CAFN n: Champ C0003 de: | bagne Monitoring Wells bagne 7999 | L Control Nur Date Rece Date Report Report Nur | ot ID: 1207543 mber: sived: Jun 9, 2017 orted: Jul 7, 2017 mber: 2197492 | |
|--|---|---------|---|--|--|---|-------------------|
| | | Referer | nce Number | 1207543-1 | 1207543-2 | 1207543-3 | |
| | | ŝ | ample Time | 14:00 | 15.00 | 16:30 | |
| | | Samn | | 14.00 | 15.00 | 10.50 | |
| | | Sample | Description | CAFN-MW-01 / 2017082 / 8.5 °C / B | CAFN-MW-03 / 2017083 / 8.5 °C / B | CAFN-MW-02 / 2017084 / 8.5 °C / B | |
| | | | Matrix | Water | Water | Water | |
| Analyte | | | Units | Results | Results | Results | Nominal Detection |
| Inorganic Nonm | etallic Parameters | | | | | | |
| Nitrogen | Total | | mg/L | 0.23 | 0.37 | 0.28 | 0.06 |
| Organic Carbon | Total Nonpurgeable | | mg/L | 2.7 | 3.6 | 3.7 | 0.5 |
| Organic Carbon | Dissolved Nonpurge | able | mg/L | 2.1 | 3.5 | 3.2 | 0.5 |
| Inorganic carbo | n Total | | mg/L | 26.1 | 36.3 | 14.5 | 0.5 |
| Inorganic carbo | n Dissolved | | mg/L | 25.7 | 35.6 | 14.5 | 0.5 |
| Ammonia - N | | | mg/L | <0.01 | <0.01 | <0.01 | 0.01 |
| Phosphorus | Total | | mg/L | 0.016 | 0.207 | 0.019 | 0.003 |
| Metals Dissolve | d | | | | | | |
| Mercury | Dissolved | | mg/L | <0.00001 | <0.00001 | <0.00001 | 0.00001 |
| Metals Total | | | | | | | |
| Calcium | Total | | mg/L | 39 | 54 | 20 | 0.01 |
| Magnesium | Total | | mg/L | 4.0 | 6.9 | 2.7 | 0.02 |
| Potassium | Total | | mg/L | 2.8 | 3.8 | 2.6 | 0.04 |
| Silicon | Total | | mg/L | 6.9 | 11 | 8.1 | 0.005 |
| Sulfur | Total | | mg/L | 2.5 | 2.6 | 2.4 | 0.02 |
| Sodium | Total | | mg/L | 2.6 | 5.5 | 2.4 | 0.1 |
| Titanium | Total | | mg/L | 0.026 | 0.26 | 0.068 | 0.002 |
| Digestion | Preparation | | _ | Field Pres, digest as total Hg | Field Pres, digest as total Hg | Field Pres, digest as total Hg | |
| Mercury | Total | | mg/L | <0.00001 | <0.00001 | <0.00001 | 0.00001 |
| Physical and Ag | gregate Properties | | r | | | | |
| Solids | Total Suspended | | mg/L | 4 | 197 | 16 | 2 |
| Solids | Total Dissolved | | mg/L | 160 | 180 | 170 | 5 |
| Routine Water | | | | _ | _ | _ | |
| pH - Holding Tin | ne Dia la la | | | Exceeded | Exceeded | Exceeded | |
| DIDESTION | LISSOIVED | | | Field filtered and | Field filtered and | rieid filtered and | |

| pH - Holding Time | | | Exceeded | Exceeded | Exceeded | |
|-------------------------|-----------|-------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------|
| Digestion | Dissolved | | Field filtered and Pres Dissol | Field filtered and Pres Dissol | Field filtered and Pres Dissol | |
| рН | at 25 °C | | 7.37 | 7.69 | 6.95 | |
| Electrical Conductivity | | μS/cm at 25 °C | 220 | 293 | 128 | 1 |
| Calcium | Dissolved | mg/L | 39 | 50 | 20 | 0.01 |
| Magnesium | Dissolved | mg/L | 3.9 | 5.8 | 2.4 | 0.02 |
| Potassium | Dissolved | mg/L | 2.6 | 3.2 | 2.2 | 0.04 |
| Silicon | Dissolved | mg/L | 6.3 | 5.0 | 5.6 | 0.005 |
| Sodium | Dissolved | mg/L | 2.6 | 5.0 | 2.3 | 0.1 |
| Sulfur | Dissolved | mg/L | 2.7 | 2.8 | 2.5 | 0.02 |

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Analytical Report



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1207543 |
|-------------|---------------------------|------------|-----------------------|-----------------|-------------|
| | PO Box 2703 | ID: | Champagne | Control Number: | |
| | Whitehorse, YT, Canada | Name: | CAFN Monitoring Wells | Date Received: | Jun 9. 2017 |
| | Y1A 2C6 | Location: | Champagne | Date Reported: | Jul 7, 2017 |
| Attn: | Accounts Payable | LSD: | | Report Number: | 2197492 |
| Sampled By: | JDM/KP | P.O.: | C00037999 | | |
| Company: | YG-Environment | Acct code: | | | |

| | | Reference Number Sample Date Sample Time Sample Location | 1207543-1 Jun 07, 2017 14:00 | 1207543-2 Jun 07, 2017 15:00 | 1207543-3 Jun 07, 2017 16:30 | |
|------------------------------|---------------------|---|--------------------------------------|--------------------------------------|--------------------------------------|----------------------------|
| | | Sample Description | CAFN-MW-01 / 2017082 / 8.5 °C / B | CAFN-MW-03 / 2017083 / 8.5 °C / B | CAFN-MW-02 / 2017084 / 8.5 °C / B | |
| | | Matrix | Water | Water | Water | |
| Analyte | | Units | Results | Results | Results | Nominal Detection Limit |
| Routine Water - Continued | ł | | | | | |
| Bicarbonate | | mg/L | 139 | 189 | 74 | 5 |
| Carbonate | | mg/L | <6 | <6 | <6 | 6 |
| Hydroxide | | mg/L | <5 | <5 | <5 | 5 |
| P-Alkalinity | as CaCO3 | mg/L | <5 | <5 | <5 | 5 |
| T-Alkalinity | as CaCO3 | mg/L | 114 | 155 | 61 | 5 |
| Bromide | Dissolved | mg/L | 0.03 | 0.04 | <0.02 | 0.02 |
| Chloride | Dissolved | mg/L | 0.14 | 0.47 | 0.13 | 0.05 |
| Fluoride | Dissolved | mg/L | 0.09 | 0.22 | 0.06 | 0.01 |
| Nitrate - N | Dissolved | mg/L | <0.1 | <0.1 | <0.1 | 0.01 |
| Nitrite - N | Dissolved | mg/L | <0.01 | <0.01 | <0.01 | 0.01 |
| Sulfate (SO4) | Dissolved | mg/L | 6.1 | 5.8 | 6.3 | 0.1 |
| Hardness | as CaCO3 (dissolved | d) mg/L | 113 | 150 | 59 | 5 |
| Mono-Aromatic Hydrocark | oons - Water | | | | | |
| Benzene | | µg/L | <0.5 | <0.5 | <0.5 | 0.5 |
| Ethylbenzene | | μg/L | <0.5 | <0.5 | <0.5 | 0.5 |
| Methyl t-Butyl Ether | | µg/L | <0.5 | <0.5 | <0.5 | 0.5 |
| Styrene | | µg/L | <0.5 | <0.5 | <0.5 | 0.5 |
| Toluene | | µg/L | <0.5 | <0.5 | <0.5 | 0.5 |
| Total Xylenes (m,p,o) | | µg/L | <0.5 | <0.5 | <0.5 | 0.5 |
| Volatile Petroleum Hydroc | arbons - Water | | | | | |
| VPHw (VHw6-10 minus BTEX) | | µg/L | <50 | <50 | <50 | 50 |
| VHw6-10 | | µg/L | <50 | <50 | <50 | 50 |
| Trace Metals Dissolved | | | | | | |
| Digestion | Dissolved | | Field filtered and Pres Dissol | Field filtered and Pres Dissol | Field filtered and Pres Dissol | |
| Titanium | Dissolved | mg/L | 0.008 | 0.0099 | 0.005 | 0.002 |
| Aluminum | Dissolved | mg/L | 0.003 | 0.005 | 0.012 | 0.001 |
| Antimony | Dissolved | mg/L | 0.00015 | 0.00019 | 0.00007 | 0.00002 |
| Arsenic | Dissolved | mg/L | 0.0005 | 0.0005 | 0.0001 | 0.0001 |
| Barium | Dissolved | mg/L | 0.0400 | 0.0226 | 0.0195 | 0.0001 |
| Beryllium | Dissolved | mg/L | <0.00005 | <0.00005 | <0.00005 | 0.00005 |
| Bismuth | Dissolved | mg/L | <0.0001 | <0.0001 | <0.0001 | 0.0001 |
| Boron | Dissolved | mg/L | 0.005 | 0.013 | <0.002 | 0.002 |
| Cadmium | Dissolved | mg/L | <0.00001 | 0.00003 | 0.00002 | 0.00001 |
| Chromium | Dissolved | mg/L | 0.00012 | <0.00005 | 0.00019 | 0.00005 |



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1207543 |
|-------------|---------------------------|------------|-----------------------|-----------------|-------------|
| | PO Box 2703 | ID: | Champagne | Control Number: | |
| | Whitehorse, YT, Canada | Name: | CAFN Monitoring Wells | Date Received: | Jun 9. 2017 |
| | Y1A 2C6 | Location: | Champagne | Date Reported: | Jul 7, 2017 |
| Attn: | Accounts Payable | LSD: | | Report Number: | 2197492 |
| Sampled By: | JDM/KP | P.O.: | C00037999 | | |
| Company: | YG-Environment | Acct code: | | | |

| | | Reference Number Sample Date Sample Time | 1207543-1 Jun 07, 2017 14:00 | 1207543-2 Jun 07, 2017 15:00 | 1207543-3 Jun 07, 2017 16:30 | |
|---------------------|-----------------|--|--------------------------------------|--------------------------------------|--------------------------------------|----------------------------|
| | | Sample Description | CAFN-MW-01 / 2017082 / 8.5 °C / B | CAFN-MW-03 / 2017083 / 8.5 °C / B | CAFN-MW-02 / 2017084 / 8.5 °C / B | |
| | | Matrix | Water | Water | Water | |
| Analyte | | Units | Results | Results | Results | Nominal Detection Limit |
| Trace Metals Dissol | ved - Continued | | | | | |
| Cobalt | Dissolved | mg/L | 0.00009 | 0.00008 | 0.00044 | 0.00002 |
| Copper | Dissolved | mg/L | 0.0027 | 0.0054 | 0.0032 | 0.0005 |
| Iron | Dissolved | mg/L | <0.002 | 0.006 | 0.014 | 0.002 |
| Lead | Dissolved | mg/L | <0.00001 | 0.00001 | <0.00001 | 0.00001 |
| Lithium | Dissolved | mg/L | 0.0009 | 0.0006 | <0.0005 | 0.0005 |
| Manganese | Dissolved | mg/L | 0.058 | 0.022 | 0.044 | 0.001 |
| Molybdenum | Dissolved | mg/L | 0.00093 | 0.00122 | 0.00186 | 0.00002 |
| Nickel | Dissolved | mg/L | 0.0003 | 0.0007 | 0.0015 | 0.0002 |
| Selenium | Dissolved | mg/L | 0.0004 | 0.0005 | <0.0002 | 0.0002 |
| Silver | Dissolved | mg/L | <0.00001 | <0.00001 | <0.00001 | 0.00001 |
| Strontium | Dissolved | mg/L | 0.0963 | 0.1464 | 0.0679 | 0.0001 |
| Tellurium | Dissolved | mg/L | <0.00005 | <0.00005 | <0.00005 | 0.00005 |
| Thallium | Dissolved | mg/L | <0.00001 | <0.00001 | <0.00001 | 0.00001 |
| Thorium | Dissolved | mg/L | <0.00005 | <0.00005 | <0.00005 | 0.00005 |
| Tin | Dissolved | mg/L | <0.0001 | 0.0003 | <0.0001 | 0.0001 |
| Uranium | Dissolved | mg/L | 0.00113 | 0.00393 | 0.00013 | 0.00001 |
| Vanadium | Dissolved | mg/L | 0.00014 | 0.00020 | 0.00019 | 0.00005 |
| Zinc | Dissolved | mg/L | 0.0015 | 0.0069 | 0.0031 | 0.0005 |
| Zirconium | Dissolved | mg/L | <0.0001 | <0.0001 | <0.0001 | 0.0001 |
| Trace Metals Total | | | | | | |
| Aluminum | Total | mg/L | 0.20 | 2.8 | 0.98 | 0.001 |
| Antimony | Total | mg/L | 0.00011 | 0.00029 | 0.00007 | 0.00002 |
| Arsenic | Total | mg/L | 0.0006 | 0.0012 | 0.0003 | 0.0001 |
| Barium | Total | mg/L | 0.048 | 0.055 | 0.034 | 0.0001 |
| Beryllium | Total | mg/L | <0.00005 | 0.00008 | <0.00005 | 0.00005 |
| Bismuth | Total | mg/L | <0.0001 | <0.0001 | <0.0001 | 0.0001 |
| Boron | Total | mg/L | 0.008 | 0.015 | <0.002 | 0.002 |
| Cadmium | Total | mg/L | 0.00001 | 0.00005 | 0.00003 | 0.00001 |
| Chromium | Total | mg/L | 0.00025 | 0.0058 | 0.0033 | 0.00005 |
| Cobalt | Total | mg/L | 0.00019 | 0.0011 | 0.00089 | 0.00002 |
| Copper | Total | mg/L | 0.0032 | 0.0096 | 0.0049 | 0.0002 |
| Iron | Total | mg/L | 0.21 | 2.7 | 0.97 | 0.002 |
| Lead | Total | ma/L | 0.000098 | 0.00098 | 0.00032 | 0.00001 |
| Lithium | Total | ma/L | 0.0011 | 0.0024 | 0.0007 | 0.0005 |
| Manganese | Total | mg/L | 0.064 | 0.065 | 0.059 | 0.001 |



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1207543 |
|-------------|---------------------------|------------|-----------------------|-----------------|-------------|
| | PO Box 2703 | ID: | Champagne | Control Number: | |
| | Whitehorse, YT, Canada | Name: | CAFN Monitoring Wells | Date Received: | Jun 9, 2017 |
| | Y1A 2C6 | Location: | Champagne | Date Reported: | Jul 7, 2017 |
| Attn: | Accounts Payable | LSD: | | Report Number: | 2197492 |
| Sampled By: | JDM/KP | P.O.: | C00037999 | | |
| Company: | YG-Environment | Acct code: | | | |

| | | Reference Number | 1207543-1 | 1207543-2 | 1207543-3 | |
|----------------------|-----------|--------------------|----------------------|----------------------|----------------------|----------------------------|
| | | Sample Date | Jun 07, 2017 | Jun 07, 2017 | Jun 07, 2017 | |
| | | Sample Time | 14:00 | 15:00 | 16:30 | |
| | | Sample Location | | | | |
| | | Sample Description | CAFN-MW-01 / | CAFN-MW-03 / | CAFN-MW-02 / | |
| | | | 2017082 / 8.5 °C / B | 2017083 / 8.5 °C / B | 2017084 / 8.5 °C / B | |
| | | Matrix | Water | Water | Water | |
| Analyte | | Units | Results | Results | Results | Nominal Detection Limit |
| Trace Metals Total - | Continued | | | | | |
| Molybdenum | Total | mg/L | 0.00085 | 0.0017 | 0.0023 | 0.00002 |
| Nickel | Total | mg/L | 0.0004 | 0.0046 | 0.0030 | 0.0002 |
| Selenium | Total | mg/L | 0.0002 | 0.0005 | <0.0002 | 0.0002 |
| Silver | Total | mg/L | 0.00005 | 0.00007 | 0.00007 | 0.00001 |
| Strontium | Total | mg/L | 0.11 | 0.18 | 0.079 | 0.0001 |
| Tellurium | Total | mg/L | <0.00005 | <0.00005 | <0.00005 | 0.00005 |
| Thallium | Total | mg/L | 0.00001 | 0.00003 | 0.00001 | 0.00001 |
| Thorium | Total | mg/L | 0.00007 | 0.00078 | 0.00023 | 0.00005 |
| Tin | Total | mg/L | <0.0001 | 0.00096 | <0.0001 | 0.0001 |
| Uranium | Total | mg/L | 0.0013 | 0.0045 | 0.00021 | 0.00001 |
| Vanadium | Total | mg/L | 0.00057 | 0.0075 | 0.0022 | 0.00005 |
| Zinc | Total | mg/L | 0.0017 | 0.012 | 0.0078 | 0.0005 |
| Zirconium | Total | mg/L | <0.0001 | 0.0008 | 0.0002 | 0.0001 |

Analytical Report



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1207543 |
|-------------|---------------------------|------------|-----------------------|-----------------|-------------|
| | PO Box 2703 | ID: | Champagne | Control Number: | |
| | Whitehorse, YT, Canada | Name: | CAFN Monitoring Wells | Date Received: | Jun 9. 2017 |
| | Y1A 2C6 | Location: | Champagne | Date Reported: | Jul 7. 2017 |
| Attn: | Accounts Payable | LSD: | | Report Number: | 2197492 |
| Sampled By: | JDM/KP | P.O.: | C00037999 | | 2.01.02 |
| Company: | YG-Environment | Acct code: | | | |

| Reference Number | 1207543-4 |
|--------------------|----------------------|
| Sample Date | Jun 07, 2017 |
| Sample Time | 17:20 |
| Sample Location | |
| Sample Description | 2017085 / 8.5 °C / B |
| Sample Description | 2017085 / 8.5 °C / B |

| | | Matrix | Water | | | |
|--------------------------------|------------------------|-------------|-----------------------|---------|---------|----------------------------|
| Analyte | | Units | Results | Results | Results | Nominal Detection Limit |
| Inorganic Nonmetallic Pa | arameters | | | | | |
| Nitrogen | Total | mg/L | 0.45 | | | 0.06 |
| Organic Carbon | Total Nonpurgeable | mg/L | 8.2 | | | 0.5 |
| Organic Carbon | Dissolved Nonpurgeable | mg/L | 7.7 | | | 0.5 |
| Inorganic carbon | Total | mg/L | 10.4 | | | 0.5 |
| Inorganic carbon | Dissolved | mg/L | 10.3 | | | 0.5 |
| Ammonia - N | | mg/L | <0.01 | | | 0.01 |
| Phosphorus | Total | mg/L | 0.009 | | | 0.003 |
| Metals Dissolved | | | | | | |
| Mercury | Dissolved | mg/L | <0.00001 | | | 0.00001 |
| Metals Total | | | | | | |
| Calcium | Total | mg/L | 17 | | | 0.01 |
| Magnesium | Total | mg/L | 1.6 | | | 0.02 |
| Potassium | Total | mg/L | 2.0 | | | 0.04 |
| Silicon | Total | mg/L | 4.5 | | | 0.005 |
| Sulfur | Total | mg/L | 1.9 | | | 0.02 |
| Sodium | Total | mg/L | 1.8 | | | 0.1 |
| Titanium | Total | mg/L | 0.005 | | | 0.002 |
| Digestion | Preparation | | Field Pres, digest as | | | |
| | | | total Hg | | | |
| Mercury | Total | mg/L | <0.00001 | | | 0.00001 |
| Physical and Aggregate | Properties | | | | | |
| Solids | Total Suspended | mg/L | <2 | | | 2 |
| Solids | Total Dissolved | mg/L | 74 | | | 5 |
| Routine Water | | | | | | |
| pH - Holding Time | | | Exceeded | | | |
| Digestion | Dissolved | | Field filtered and | | | |
| лЦ | at 25 °C | | Pres Dissol | | | |
| pri Electrical Conductivity | | uS/cm at 25 | 102 | | | 1 |
| | | °C | 105 | | | I |
| Calcium | Dissolved | mg/L | 17 | | | 0.01 |
| Magnesium | Dissolved | mg/L | 1.7 | | | 0.02 |
| Potassium | Dissolved | mg/L | 1.9 | | | 0.04 |
| Silicon | Dissolved | mg/L | 4.5 | | | 0.005 |
| Sodium | Dissolved | mg/L | 1.9 | | | 0.1 |
| Sulfur | Dissolved | mg/L | 2.0 | | | 0.02 |
| Bicarbonate | | mg/L | 58 | | | 5 |

Analytical Report



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1207543 |
|-------------|---------------------------|------------|-----------------------|-----------------|-------------|
| | PO Box 2703 | ID: | Champagne | Control Number: | |
| | Whitehorse, YT, Canada | Name: | CAFN Monitoring Wells | Date Received: | Jun 9. 2017 |
| | Y1A 2C6 | Location: | Champagne | Date Reported: | Jul 7. 2017 |
| Attn: | Accounts Payable | LSD: | | Report Number: | 2197492 |
| Sampled By: | JDM/KP | P.O.: | C00037999 | | 2.01.02 |
| Company: | YG-Environment | Acct code: | | | |

| Reference Number | 1207543-4 |
|--------------------|----------------------|
| Sample Date | Jun 07, 2017 |
| Sample Time | 17:20 |
| Sample Location | |
| Sample Description | 2017085 / 8.5 °C / B |
| Matrix | Water |

| | | Matrix | Water | | | |
|----------------------------------|----------------------|--------|-----------------------------------|---------|---------|----------------------------|
| Analyte | | Units | Results | Results | Results | Nominal Detectior Limit |
| Routine Water - Continued | | | | | | |
| Carbonate | | mg/L | <6 | | | 6 |
| Hydroxide | | mg/L | <5 | | | 5 |
| P-Alkalinity | as CaCO3 | mg/L | <5 | | | 5 |
| T-Alkalinity | as CaCO3 | mg/L | 48 | | | 5 |
| Bromide | Dissolved | mg/L | <0.02 | | | 0.02 |
| Chloride | Dissolved | mg/L | 0.12 | | | 0.05 |
| Fluoride | Dissolved | mg/L | 0.05 | | | 0.01 |
| Nitrate - N | Dissolved | mg/L | 0.12 | | | 0.01 |
| Nitrite - N | Dissolved | mg/L | <0.01 | | | 0.01 |
| Sulfate (SO4) | Dissolved | mg/L | 4.8 | | | 0.1 |
| Hardness | as CaCO3 (dissolved) | mg/L | 50 | | | 5 |
| Mono-Aromatic Hydrocarb | ons - Water | | | | | |
| Benzene | | µg/L | <0.5 | | | 0.5 |
| Ethylbenzene | | µg/L | <0.5 | | | 0.5 |
| Methyl t-Butyl Ether | | µg/L | <0.5 | | | 0.5 |
| Styrene | | µg/L | <0.5 | | | 0.5 |
| Toluene | | µg/L | <0.5 | | | 0.5 |
| Total Xylenes (m,p,o) | | µg/L | <0.5 | | | 0.5 |
| Volatile Petroleum Hydroca | arbons - Water | | | | | |
| VPHw (VHw6-10 minus BTEX) | | µg/L | <50 | | | 50 |
| VHw6-10 | | µg/L | <50 | | | 50 |
| Trace Metals Dissolved | | | | | | |
| Digestion | Dissolved | | Field filtered and Pres Dissol | | | |
| Titanium | Dissolved | mg/L | 0.004 | | | 0.002 |
| Aluminum | Dissolved | mg/L | 0.018 | | | 0.001 |
| Antimony | Dissolved | mg/L | 0.00018 | | | 0.00002 |
| Arsenic | Dissolved | mg/L | 0.0002 | | | 0.0001 |
| Barium | Dissolved | mg/L | 0.0336 | | | 0.0001 |
| Beryllium | Dissolved | mg/L | <0.00005 | | | 0.00005 |
| Bismuth | Dissolved | mg/L | <0.0001 | | | 0.0001 |
| Boron | Dissolved | mg/L | 0.002 | | | 0.002 |
| Cadmium | Dissolved | mg/L | <0.00001 | | | 0.00001 |
| Chromium | Dissolved | mg/L | 0.00014 | | | 0.00005 |
| Cobalt | Dissolved | mg/L | 0.00005 | | | 0.00002 |
| Copper | Dissolved | mg/L | 0.0015 | | | 0.0005 |

Analytical Report



| Bill To: | Bill To: YTG DOE - Water Resources | | Project: | | 1207543 |
|-------------|------------------------------------|------------|-----------------------|-----------------|-------------|
| | PO Box 2703 | ID: | Champagne | Control Number: | |
| | Whitehorse, YT, Canada | Name: | CAFN Monitoring Wells | Date Received: | Jun 9. 2017 |
| | Y1A 2C6 | Location: | Champagne | Date Reported: | Jul 7. 2017 |
| Attn: | Accounts Payable | LSD: | | Report Number: | 2197492 |
| Sampled By: | JDM/KP | P.O.: | C00037999 | | |
| Company: | YG-Environment | Acct code: | | | |

| Reference Number | 1207543-4 |
|--------------------|----------------------|
| Sample Date | Jun 07, 2017 |
| Sample Time | 17:20 |
| Sample Location | |
| Sample Description | 2017085 / 8.5 °C / B |
| | |

| Matrix | Water |
|--------|-------|
| Matrix | Water |

| Analyte | | Units | Results | Results | Results | Nominal Detection |
|---------------------|------------------|-------|----------|---------|---------|-------------------|
| Trace Metals Dissol | lved - Continued | | | | | |
| Iron | Dissolved | mg/L | 0.017 | | | 0.002 |
| Lead | Dissolved | mg/L | 0.00001 | | | 0.00001 |
| Lithium | Dissolved | mg/L | 0.0008 | | | 0.0005 |
| Manganese | Dissolved | mg/L | <0.001 | | | 0.001 |
| Molybdenum | Dissolved | mg/L | 0.00084 | | | 0.00002 |
| Nickel | Dissolved | mg/L | 0.0011 | | | 0.0002 |
| Selenium | Dissolved | mg/L | <0.0002 | | | 0.0002 |
| Silver | Dissolved | mg/L | <0.00001 | | | 0.00001 |
| Strontium | Dissolved | mg/L | 0.0640 | | | 0.0001 |
| Tellurium | Dissolved | mg/L | 0.00006 | | | 0.00005 |
| Thallium | Dissolved | mg/L | <0.00001 | | | 0.00001 |
| Thorium | Dissolved | mg/L | 0.00017 | | | 0.00005 |
| Tin | Dissolved | mg/L | <0.0001 | | | 0.0001 |
| Uranium | Dissolved | mg/L | 0.00010 | | | 0.00001 |
| Vanadium | Dissolved | mg/L | 0.00037 | | | 0.00005 |
| Zinc | Dissolved | mg/L | 0.0018 | | | 0.0005 |
| Zirconium | Dissolved | mg/L | 0.0002 | | | 0.0001 |
| Trace Metals Total | | | | | | |
| Aluminum | Total | mg/L | 0.024 | | | 0.001 |
| Antimony | Total | mg/L | 0.00002 | | | 0.00002 |
| Arsenic | Total | mg/L | 0.0002 | | | 0.0001 |
| Barium | Total | mg/L | 0.036 | | | 0.0001 |
| Beryllium | Total | mg/L | <0.00005 | | | 0.00005 |
| Bismuth | Total | mg/L | <0.0001 | | | 0.0001 |
| Boron | Total | mg/L | <0.002 | | | 0.002 |
| Cadmium | Total | mg/L | <0.00001 | | | 0.00001 |
| Chromium | Total | mg/L | <0.00005 | | | 0.00005 |
| Cobalt | Total | mg/L | 0.00005 | | | 0.00002 |
| Copper | Total | mg/L | 0.0015 | | | 0.0002 |
| Iron | Total | mg/L | 0.039 | | | 0.002 |
| Lead | Total | mg/L | <0.00001 | | | 0.00001 |
| Lithium | Total | mg/L | 0.0009 | | | 0.0005 |
| Manganese | Total | mg/L | 0.002 | | | 0.001 |
| Molybdenum | Total | mg/L | 0.00078 | | | 0.00002 |
| Nickel | Total | mg/L | 0.0004 | | | 0.0002 |
| Selenium | Total | mg/L | <0.0002 | | | 0.0002 |

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Analytical Report



| Bill To: | YTG DOE - Water Resources | Water Resources Project: | | Lot ID: | 1207543 |
|-------------|---------------------------|--------------------------|-----------------------|-----------------|-------------|
| | PO Box 2703 | ID: | Champagne | Control Number: | |
| | Whitehorse, YT, Canada | Name: | CAFN Monitoring Wells | Date Received: | Jun 9. 2017 |
| | Y1A 2C6 | Location: | Champagne | Date Reported: | Jul 7. 2017 |
| Attn: | Accounts Payable | LSD: | | Report Number: | 2197492 |
| Sampled By: | JDM/KP | P.O.: | C00037999 | | 2.01.02 |
| Company: | YG-Environment | Acct code: | | | |

| Reference Number | 1207543-4 |
|--------------------|----------------------|
| Sample Date | Jun 07, 2017 |
| Sample Time | 17:20 |
| Sample Location | |
| Sample Description | 2017085 / 8.5 °C / B |

| Matrix | Water |
|-------------|----------|
| in a ci i z | i i aloi |

| Analyte | | Units | Results | Results | Results | Nominal Detection Limit |
|--------------------|-------------|-------|----------|---------|---------|----------------------------|
| Trace Metals Total | - Continued | | | | | |
| Silver | Total | mg/L | <0.00001 | | | 0.00001 |
| Strontium | Total | mg/L | 0.064 | | | 0.0001 |
| Tellurium | Total | mg/L | <0.00005 | | | 0.00005 |
| Thallium | Total | mg/L | <0.00001 | | | 0.00001 |
| Thorium | Total | mg/L | <0.00005 | | | 0.00005 |
| Tin | Total | mg/L | <0.0001 | | | 0.0001 |
| Uranium | Total | mg/L | 0.00011 | | | 0.00001 |
| Vanadium | Total | mg/L | 0.00036 | | | 0.00005 |
| Zinc | Total | mg/L | <0.0005 | | | 0.0005 |
| Zirconium | Total | mg/L | 0.0003 | | | 0.0001 |

Mathiert mis

Mathieu Simoneau **Operations Manager**

Approved by:

Data have been validated by Analytical Quality Control and Exova's Integrated Data Validation System (IDVS). Generation and distribution of the report, and approval by the digitized signature above, are performed through a secure and controlled automatic process. Terms and Conditions: https://www.exova.com/media/1232/exova-canada-inc-standard-conditions-of-contract-short-form.pdf

Quality Control



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1207543 |
|-------------|---------------------------|------------|-----------------------|-----------------|-------------|
| | PO Box 2703 | ID: | Champagne | Control Number: | |
| | Whitehorse, YT, Canada | Name: | CAFN Monitoring Wells | Date Received: | Jun 9, 2017 |
| | Y1A 2C6 | Location: | Champagne | Date Reported: | Jul 7, 2017 |
| Attn: | Accounts Payable | LSD: | | Report Number: | 2197492 |
| Sampled By: | JDM/KP | P.O.: | C00037999 | | 2.0 |
| Company: | YG-Environment | Acct code: | | | |

Inorganic Nonmetallic Parameters

| Blanks | Units | Measured | Lower Limit | Upper Limit | | Passed QC |
|-------------------|---------------|-------------|-------------|----------------|-------------------|-----------|
| Ammonium - N | µg/L | -19.012 | -110.00 | 10.00 | | yes |
| Phosphorus | mg/L | 0.0015 | -0.003 | 0.003 | | yes |
| Date Acquired: | June 13, 2017 | | | | | |
| Nitrogen | mg/L | 0 | -0.04 | 0.08 | | yes |
| Organic Carbon | mg/L | -0.0844 | -0.5 | 0.5 | | yes |
| Inorganic carbon | mg/L | 0.1141 | -0.5 | 0.5 | | yes |
| Date Acquired: | June 16, 2017 | | | | | |
| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | | Passed QC |
| Ammonium - N | μg/L | 94.21 | 85 | 115 | | yes |
| Phosphorus | mg/L | 101.66 | 90 | 110 | | yes |
| Date Acquired: | June 13, 2017 | | | | | |
| Ammonium - N | µg/L | 74.60 | 70 | 130 | | yes |
| Phosphorus | mg/L | 105.00 | 80 | 120 | | yes |
| Date Acquired: | June 13, 2017 | | | | | |
| Client Sample Rep | licates Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Nitrogen | mg/L | 9.60 | 9.43 | 10 | 0.06 | yes |
| Organic Carbon | mg/L | 9.0 | 8.5 | 10 | 1.0 | yes |
| Inorganic carbon | mg/L | 36.0 | 36.2 | 10 | 1.0 | yes |
| Date Acquired: | June 16, 2017 | | | | | |
| Ammonia - N | mg/L | 17.6 | 17.6 | 20 | 50.00 | yes |
| Date Acquired: | June 14, 2017 | | | | | |
| Control Sample | Units | Measured | Lower Limit | Upper Limit | | Passed QC |
| Organic Carbon | mg/L | <0.5 | -0.5 | 0.5 | | yes |
| Date Acquired: | June 14, 2017 | | | | | |
| Nitrogen | mg/L | 115 | 103.74 | 137.28 | | yes |
| Inorganic carbon | mg/L | 44.6 | 39.0 | 57.0 | | yes |
| Date Acquired: | June 16, 2017 | | | | | |
| Nitrogen | mg/L | 15.0 | 13.27 | 16.93 | | yes |
| Organic Carbon | mg/L | 14.3 | 12.8 | 17.2 | | yes |
| Inorganic carbon | mg/L | 16.1 | 13.5 | 18.3 | | yes |
| Date Acquired: | June 16, 2017 | | | | | |
| Nitrogen | mg/L | 1.02 | 0.89 | 1.25 | | yes |
| Organic Carbon | mg/L | 3.7 | 2.4 | 4.0 | | yes |
| Inorganic carbon | mg/L | 3.6 | 2.7 | 3.9 | | yes |
| Date Acquired: | June 16, 2017 | | | | | |
| Phosphorus | mg/L | 0.448 | 0.389 | 0.503 | | yes |
| Date Acquired: | June 13, 2017 | | | | | |

Metals Dissolved

Quality Control



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1207543 |
|-------------|---------------------------|------------|-----------------------|-----------------|-------------|
| | PO Box 2703 | ID: | Champagne | Control Number: | |
| | Whitehorse, YT, Canada | Name: | CAFN Monitoring Wells | Date Received: | Jun 9, 2017 |
| | Y1A 2C6 | Location: | Champagne | Date Reported: | Jul 7, 2017 |
| Attn: | Accounts Payable | LSD: | | Report Number: | 2197492 |
| Sampled By: | JDM/KP | P.O.: | C00037999 | | |
| Company: | YG-Environment | Acct code: | | | |

| Metals Dissolved | 1 | | | | | |
|---------------------|------------------|-------------|-------------|----------------|-------------------|-----------|
| Blanks | Units | Measured | Lower Limit | Upper Limit | | Passed QC |
| Mercury | ng/L | 4.9 | -9.99 | 9.99 | | yes |
| Date Acquired: | June 12, 2017 | | | | | |
| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | | Passed QC |
| Mercury | ng/L | 98.00 | 90 | 110 | | yes |
| Date Acquired: | June 12, 2017 | | | | | |
| Certified Reference | e Material Units | Measured | Target | Lower Limit | Upper Limit | Passed QC |
| Mercury | μg/L | 0.04 | 0.04 | 0.02 | 0.05 | yes |
| Date Acquired: | June 12, 2017 | | | | | |
| Client Sample Rep | licates Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Mercury | μg/L | <0.1 | <0.1 | 20 | 0.05 | yes |
| Date Acquired: | June 12, 2017 | | | | | |

| Metals Total | | | | | |
|---------------------|------------------|-------------|-------------|-------------|----------------------|
| Blanks | Units | Measured | Lower Limit | Upper Limit | Passed 0 |
| Calcium | mg/L | -0.00515917 | -0.010 | 0.010 | У |
| Magnesium | mg/L | -0.0158244 | -0.020 | 0.020 | У |
| Potassium | mg/L | 0.0024154 | -0.040 | 0.040 | У |
| Silicon | mg/L | 0.00500108 | -0.005 | 0.005 | У |
| Sodium | mg/L | 0 | -0.099 | 0.099 | У |
| Date Acquired: | June 12, 2017 | | | | |
| Mercury | ng/L | 2.5 | -9.990 | 9.990 | У |
| Date Acquired: | June 12, 2017 | | | | |
| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | Passed (|
| Mercury | ng/L | 103.80 | 90 | 110 | у |
| Date Acquired: | June 12, 2017 | | | | |
| Calcium | mg/L | 104.14 | 90 | 110 | у |
| Magnesium | mg/L | 105.72 | 90 | 110 | У |
| Potassium | mg/L | 104.29 | 90 | 110 | У |
| Silicon | mg/L | 103.12 | 90 | 110 | У |
| Sodium | mg/L | 103.12 | 90 | 110 | У |
| Titanium | mg/L | 100.88 | 90 | 110 | У |
| Date Acquired: | June 12, 2017 | | | | |
| Calcium | mg/L | 105.61 | 90 | 110 | У |
| Magnesium | mg/L | 107.50 | 90 | 110 | У |
| Potassium | mg/L | 105.68 | 90 | 110 | У |
| Silicon | mg/L | 102.01 | 90 | 110 | У |
| Sodium | mg/L | 105.52 | 90 | 110 | У |
| Titanium | mg/L | 103.59 | 90 | 110 | У |
| Date Acquired: | June 12, 2017 | | | | |
| Certified Reference | e Material Units | Measured | Target | Lower Limit | Upper Limit Passed 0 |

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Quality Control



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1207543 |
|-------------|---------------------------|------------|-----------------------|-----------------|-------------|
| | PO Box 2703 | ID: | Champagne | Control Number: | |
| | Whitehorse, YT, Canada | Name: | CAFN Monitoring Wells | Date Received: | Jun 9, 2017 |
| | Y1A 2C6 | Location: | Champagne | Date Reported: | Jul 7, 2017 |
| Attn: | Accounts Payable | LSD: | | Report Number: | 2197492 |
| Sampled By: | JDM/KP | P.O.: | C00037999 | | |
| Company: | YG-Environment | Acct code: | | | |

Metals Total - Continued

| Certified Reference | e Materia | l Units | Measured | Target | Lower Limit | Upper Limit | Passed QC |
|---------------------|-----------|---------|-------------|-------------|----------------|-------------------|-----------|
| Mercury | | µg/L | 0.04 | 0.035 | 0.022 | 0.049 | yes |
| Date Acquired: | June 12 | , 2017 | | | | | |
| Client Sample Repl | icates | Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Calcium | | mg/L | 17 | 17 | 20 | 0.050 | yes |
| Magnesium | | mg/L | 1.6 | 1.6 | 20 | 0.050 | yes |
| Potassium | | mg/L | 2.0 | 2.0 | 20 | 0.100 | yes |
| Silicon | | mg/L | 4.5 | 4.5 | 20 | 0.100 | yes |
| Sodium | | mg/L | 1.8 | 1.8 | 20 | 0.100 | yes |
| Mercury | | µg/L | <0.01 | <0.01 | 20 | 0.050 | yes |
| Date Acquired: | June 12 | , 2017 | | | | | |

Mono-Aromatic Hydrocarbons - Water

| Blanks | Units | Measured | Lower Limit | Upper Limit | | Passed QC |
|-------------------------|-------|-------------|-------------|----------------|-------------------|-----------|
| Benzene | ng | 0 | -0.5 | 0.5 | | yes |
| Ethylbenzene | ng | 0 | -0.5 | 0.5 | | yes |
| Methyl t-Butyl Ether | ng | 0 | -0.5 | 0.5 | | yes |
| m,p-Xylene | ng | 0 | -0.5 | 0.5 | | yes |
| o-Xylene | ng | 0 | -0.5 | 0.5 | | yes |
| Styrene | ng | 0 | -0.5 | 0.5 | | yes |
| Toluene | ng | 0 | -0.5 | 0.5 | | yes |
| Total Xylenes (m,p,o) | ng | 0 | -0.5 | 0.5 | | yes |
| Dibromofluoromethane | % | 101.52 | 74.990 | 115.010 | | yes |
| Toluene-d8 | % | 96.34 | 80.000 | 110.000 | | yes |
| 4-Bromofluorobenzene | % | 101.54 | 85.000 | 115.000 | | yes |
| Date Acquired: June 14, | 2017 | | | | | |
| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | | Passed QC |
| Benzene | ng | 108.85 | 75 | 125 | | yes |
| Ethylbenzene | ng | 111.43 | 75 | 125 | | yes |
| Methyl t-Butyl Ether | ng | 107.13 | 75 | 125 | | yes |
| m,p-Xylene | ng | 109.11 | 75 | 125 | | yes |
| o-Xylene | ng | 102.05 | 75 | 125 | | yes |
| Styrene | ng | 109.06 | 75 | 125 | | yes |
| Toluene | ng | 105.55 | 75 | 125 | | yes |
| Total Xylenes (m,p,o) | ng | 106.76 | 75 | 125 | | yes |
| Date Acquired: June 14, | 2017 | | | | | |
| Replicates | Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Benzene | µg/L | <0.5 | <0.5 | 20 | 2.5 | yes |
| Ethylbenzene | µg/L | <0.5 | <0.5 | 20 | 2.5 | yes |
| Methyl t-Butyl Ether | µg/L | <0.5 | <0.5 | 20 | 2.5 | yes |
| m,p-Xylene | µg/L | <0.5 | <0.5 | 20 | 2.5 | yes |
| o-Xylene | µg/L | <0.5 | <0.5 | 20 | 2.5 | yes |

Quality Control



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1207543 |
|-------------|---------------------------|------------|-----------------------|-----------------|-------------|
| | PO Box 2703 | ID: | Champagne | Control Number: | |
| | Whitehorse, YT, Canada | Name: | CAFN Monitoring Wells | Date Received: | Jun 9. 2017 |
| | Y1A 2C6 | Location: | Champagne | Date Reported: | Jul 7, 2017 |
| Attn: | Accounts Payable | LSD: | | Report Number: | 2197492 |
| Sampled By: | JDM/KP | P.O.: | C00037999 | | |
| Company: | YG-Environment | Acct code: | | | |

Mono-Aromatic Hydrocarbons - Water -

| Continued | | | | | | |
|-----------------------|----------|-------------|-------------|----------------|-------------------|-----------|
| Replicates | Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Styrene | µg/L | <0.5 | <0.5 | 20 | 2.5 | yes |
| Toluene | µg/L | <0.5 | <0.5 | 20 | 2.5 | yes |
| Total Xylenes (m,p,o) | µg/L | <0.5 | <0.5 | 20 | 2.5 | yes |
| Date Acquired: June 1 | 14, 2017 | | | | | |
| Matrix Spike | Units | % Recovery | Lower Limit | Upper Limit | | Passed QC |
| Benzene | µg/L | 116 | 75 | 125 | | yes |
| Ethylbenzene | µg/L | 109 | 75 | 125 | | yes |
| Methyl t-Butyl Ether | µg/L | 116 | 75 | 125 | | yes |
| m,p-Xylene | µg/L | 112 | 75 | 125 | | yes |
| o-Xylene | µg/L | 106 | 75 | 125 | | yes |
| Styrene | µg/L | 113 | 75 | 125 | | yes |
| Toluene | µg/L | 107 | 75 | 125 | | yes |
| Total Xylenes (m,p,o) | µg/L | 110 | 75 | 125 | | yes |
| Date Acquired: June 1 | 14, 2017 | | | | | |

Physical and Aggregate Properties

| Client Sample Rep | licates Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
|-------------------|---------------|-------------|-------------|----------------|-------------------|-----------|
| Solids | mg/L | 4 | 4 | 30 | 10.000 | yes |
| Date Acquired: | June 13, 2017 | | | | | |
| Control Sample | Units | Measured | Lower Limit | Upper Limit | | Passed QC |
| Solids | mg/L | 393 | 263.000 | 575.000 | | yes |
| Date Acquired: | June 13, 2017 | | | | | |
| Solids | mg/L | 25 | 16.490 | 30.710 | | yes |
| Date Acquired: | June 13, 2017 | | | | | |
| Solids | mg/L | <5 | -5.001 | 5.001 | | yes |
| Date Acquired: | June 13, 2017 | | | | | |
| Solids | mg/L | <2 | -5.010 | 5.010 | | yes |
| Date Acquired: | June 13, 2017 | | | | | |

Routine Water

| Blanks | Units | Measured | Lower Limit | Upper Limit | Passed QC |
|----------------|---------------|-------------|-------------|-------------|-----------|
| Calcium | mg/L | 0.000401801 | -0.010 | 0.010 | yes |
| Magnesium | mg/L | 0.00609643 | -0.020 | 0.020 | yes |
| Potassium | mg/L | -0.0124899 | -0.040 | 0.040 | yes |
| Silicon | mg/L | 0 | -0.005 | 0.005 | yes |
| Sodium | mg/L | 0.00747966 | -0.099 | 0.099 | yes |
| Date Acquired: | June 14, 2017 | | | | |
| Bromide | mg/L | 0 | -0.099 | 0.099 | yes |
| Chloride | mg/L | 0.00107729 | -0.201 | 0.201 | yes |
| | | | | | |

Quality Control



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1207543 |
|-------------|---------------------------|------------|-----------------------|-----------------|-------------|
| | PO Box 2703 | ID: | Champagne | Control Number: | |
| | Whitehorse, YT, Canada | Name: | CAFN Monitoring Wells | Date Received: | Jun 9, 2017 |
| | Y1A 2C6 | Location: | Champagne | Date Reported: | Jul 7, 2017 |
| Attn: | Accounts Payable | LSD: | | Report Number: | 2197492 |
| Sampled By: | JDM/KP | P.O.: | C00037999 | | |
| Company: | YG-Environment | Acct code: | | | |

Routine Water - Continued

| Blanks | Units | Measured | Lower Limit | Upper Limit | | Passed QC |
|---------------------|---------------------|-------------|-------------|----------------|-------------------|-----------|
| Fluoride | mg/L | 0.0263211 | -0.099 | 0.099 | | yes |
| Nitrate - N | mg/L | 0.000430095 | -0.010 | 0.010 | | yes |
| Nitrite - N | mg/L | 0 | -0.099 | 0.099 | | yes |
| Sulfate (SO4) | mg/L | 0.00256925 | -0.990 | 0.990 | | yes |
| Date Acquired: | June 12, 2017 | | | | | |
| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | | Passed QC |
| Calcium | mg/L | 104.87 | 90 | 110 | | yes |
| Magnesium | mg/L | 105.75 | 90 | 110 | | yes |
| Potassium | mg/L | 105.38 | 90 | 110 | | yes |
| Silicon | mg/L | 103.86 | 90 | 110 | | yes |
| Sodium | mg/L | 105.66 | 90 | 110 | | yes |
| Date Acquired: | June 14, 2017 | | | | | |
| Bromide | mg/L | 100.88 | 90 | 110 | | yes |
| Chloride | mg/L | 99.19 | 85 | 115 | | yes |
| Fluoride | mg/L | 96.97 | 85 | 115 | | yes |
| Nitrate - N | mg/L | 93.97 | 85 | 115 | | yes |
| Nitrite - N | mg/L | 95.68 | 90 | 110 | | yes |
| Sulfate (SO4) | mg/L | 95.67 | 85 | 115 | | yes |
| Date Acquired: | June 12, 2017 | | | | | |
| Bromide | mg/L | 102.19 | 90 | 110 | | yes |
| Chloride | mg/L | 101.81 | 90 | 110 | | yes |
| Fluoride | mg/L | 99.17 | 89 | 109 | | yes |
| Nitrate - N | mg/L | 96.25 | 88 | 108 | | yes |
| Nitrite - N | mg/L | 100.91 | 90 | 118 | | yes |
| Sulfate (SO4) | mg/L | 100.05 | 90 | 110 | | yes |
| Date Acquired: | June 12, 2017 | | | | | |
| Calcium | mg/L | 106.59 | 90 | 110 | | yes |
| Magnesium | mg/L | 107.65 | 90 | 110 | | yes |
| Potassium | mg/L | 108.72 | 90 | 110 | | yes |
| Sodium | mg/L | 108.60 | 90 | 110 | | yes |
| Date Acquired: | June 14, 2017 | | | | | - |
| Certified Reference | Material Units | Measured | Target | Lower Limit | Upper Limit | Passed QC |
| T-Alkalinity | mg/L | 10 | 10 | 8 | 12 | yes |
| Date Acquired: | June 13, 2017 | | | | | |
| Client Sample Repl | icates Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Hardness | mg CaCO3/L | 49 | 49 | 20 | 1.000 | yes |
| Date Acquired: | June 12, 2017 | | | | | |
| pН | | 5.59 | 5.57 | 10 | | yes |
| Electrical Conduct | ivity dS/m at 25 °C | 0.058 | 0.057 | 10 | 0.005 | yes |
| Bicarbonate | - mg/L | <5 | <5 | 10 | 10 | ves |
| | 0 | | | | | |

Quality Control



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1207543 |
|-------------|---------------------------|------------|-----------------------|-----------------|-------------|
| | PO Box 2703 | ID: | Champagne | Control Number: | |
| | Whitehorse, YT, Canada | Name: | CAFN Monitoring Wells | Date Received: | Jun 9. 2017 |
| | Y1A 2C6 | Location: | Champagne | Date Reported: | Jul 7. 2017 |
| Attn: | Accounts Payable | LSD: | | Report Number: | 2197492 |
| Sampled By: | JDM/KP | P.O.: | C00037999 | | 2.002 |
| Company: | YG-Environment | Acct code: | | | |

Routine Water - Continued

| Client Sample Repl | icates | Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
|--------------------------------------|-------------------|------------------------|-------------|-------------|----------------|-------------------|-----------|
| Hydroxide | | mg/L | <5 | <5 | 10 | 10 | yes |
| P-Alkalinity | | mg/L | <5 | <5 | 10 | 5 | yes |
| T-Alkalinity | | mg/L | 9 | 8 | 10 | 5 | yes |
| Bromide | | mg/L | 0.04 | 0.04 | 20 | 0.100 | yes |
| Chloride | | mg/L | 1.3 | 1.3 | 20 | 0.250 | yes |
| Fluoride | | mg/L | 0.3 | 0.3 | 20 | 0.050 | yes |
| Nitrate - N | | mg/L | 91 | 90 | 20 | 0.050 | yes |
| Nitrite - N | | mg/L | <0.1 | <0.1 | 20 | 0.050 | yes |
| Sulfate (SO4) | | mg/L | 43 | 43 | 20 | 0.500 | yes |
| Date Acquired: | June 12, | 2017 | | | | | |
| Replicates | | Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Chloride | | mg/L | 1.25 | 1.25 | 6 | 0.010 | yes |
| Nitrate - N | | mg/L | 0.30 | 0.30 | 12 | 0.050 | yes |
| Sulfate (SO4) | | mg/L | 4.3 | 4.3 | 6 | 0.010 | yes |
| Date Acquired: | June 12, | 2017 | | | | | |
| Control Sample | | Units | Measured | Lower Limit | Upper Limit | | Passed QC |
| рН | | | 9.74 | 9.17 | 10.81 | | yes |
| Electrical Conduct | ivity | µS/cm at 25 °C | 201 | 194 | 250 | | yes |
| P-Alkalinity | | mg/L | 12 | 7 | 55 | | yes |
| T-Alkalinity | | mg/L | 107 | 98 | 113 | | yes |
| Date Acquired: | June 13, | 2017 | | | | | |
| рН | | | 4.04 | 3.88 | 4.12 | | yes |
| Date Acquired: | June 13, | 2017 | | | | | |
| рH | | | 7.97 | 7.88 | 8.12 | | ves |
| Date Acquired: | June 13, | 2017 | | | | | , |
| Electrical Conduct Date Acquired: | ivity June 13, | μS/cm at 25 °C 2017 | 1400 | 1323 | 1503 | | yes |

Trace Metals Dissolved

| Blanks | Units | Measured | Lower Limit | Upper Limit | Passed QC |
|-----------|-------|---------------|-------------|-------------|-----------|
| Aluminum | μg/L | -0.588505 | -0.990 | 0.990 | yes |
| Antimony | μg/L | 0.00831627 | -0.020 | 0.020 | yes |
| Arsenic | µg/L | 0.00832048 | -0.099 | 0.099 | yes |
| Barium | μg/L | -0.0138326 | -0.099 | 0.099 | yes |
| Beryllium | µg/L | -0.00678748 | -0.050 | 0.050 | yes |
| Bismuth | µg/L | -0.000273696 | -0.099 | 0.099 | yes |
| Boron | µg/L | -0.502868 | -2.001 | 2.001 | yes |
| Cadmium | µg/L | 0.00138084 | -0.010 | 0.010 | yes |
| Chromium | µg/L | -0.0161215 | -0.050 | 0.050 | yes |
| Cobalt | µg/L | -8.94528e-005 | -0.020 | 0.020 | yes |
| Copper | μg/L | 0 | -0.050 | 0.050 | yes |

Quality Control



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1207543 |
|-------------|---------------------------|------------|-----------------------|-----------------|-------------|
| | PO Box 2703 | ID: | Champagne | Control Number: | |
| | Whitehorse, YT, Canada | Name: | CAFN Monitoring Wells | Date Received: | Jun 9. 2017 |
| | Y1A 2C6 | Location: | Champagne | Date Reported: | Jul 7, 2017 |
| Attn: | Accounts Payable | LSD: | | Report Number: | 2197492 |
| Sampled By: | JDM/KP | P.O.: | C00037999 | | |
| Company: | YG-Environment | Acct code: | | | |

Trace Metals Dissolved - Continued

| Blanks | Units | Measured | Lower Limit | Upper Limit | Passed QC |
|-------------------|---------------|--------------|-------------|-------------|-----------|
| Iron | μg/L | -1.43887 | -2.001 | 2.001 | yes |
| Lead | µg/L | 0 | -0.010 | 0.010 | yes |
| Lithium | µg/L | -0.000675921 | -0.500 | 0.500 | yes |
| Manganese | μg/L | 0.736206 | -0.990 | 0.990 | yes |
| Molybdenum | μg/L | 0.0147019 | -0.020 | 0.020 | yes |
| Nickel | μg/L | -0.0963008 | -0.200 | 0.200 | yes |
| Selenium | µg/L | 0.00301378 | -0.200 | 0.200 | yes |
| Silver | µg/L | 0.00064626 | -0.009 | 0.009 | yes |
| Strontium | µg/L | 0.0176072 | -0.099 | 0.099 | yes |
| Tellurium | µg/L | -0.0198253 | -0.050 | 0.050 | yes |
| Thallium | µg/L | 0.0015737 | -0.010 | 0.010 | yes |
| Thorium | µg/L | -0.00803745 | -0.050 | 0.050 | yes |
| Tin | µg/L | 0.0104824 | -0.099 | 0.099 | yes |
| Titanium | µg/L | 0.0104828 | -0.099 | 0.099 | yes |
| Uranium | µg/L | 0.00144552 | -0.010 | 0.010 | yes |
| Vanadium | µg/L | 0.0423905 | -0.050 | 0.050 | yes |
| Zinc | µg/L | 0.265454 | -0.500 | 0.500 | yes |
| Zirconium | µg/L | -0.0130704 | -0.099 | 0.099 | yes |
| Date Acquired: | June 14, 2017 | | | | |
| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | Passed QC |
| Titanium | mg/L | 102.96 | 90 | 110 | yes |
| Date Acquired: | June 14, 2017 | | | | |
| Aluminum | µg/L | 90.22 | 80 | 120 | yes |
| Antimony | µg/L | 96.39 | 90 | 110 | yes |
| Arsenic | µg/L | 95.50 | 90 | 110 | yes |
| Barium | µg/L | 90.68 | 90 | 110 | yes |
| Beryllium | µg/L | 107.21 | 90 | 110 | yes |
| Boron | µg/L | 99.32 | 70 | 130 | yes |
| Cadmium | µg/L | 96.93 | 90 | 110 | yes |
| Chromium | µg/L | 99.11 | 90 | 110 | yes |
| Cobalt | µg/L | 97.31 | 90 | 110 | yes |
| Copper | µg/L | 98.90 | 90 | 110 | yes |
| Lead | µg/L | 97.03 | 90 | 110 | yes |
| Lithium | µg/L | 98.21 | 90 | 110 | yes |
| Molybdenum | µg/L | 90.42 | 90 | 110 | yes |
| Nickel | µg/L | 98.42 | 90 | 110 | yes |
| Selenium | μg/L | 98.83 | 90 | 110 | yes |
| Silver | μg/L | 98.42 | 90 | 110 | yes |
| Strontium | μg/L | 94.81 | 90 | 110 | yes |
| Thorium | μg/L | 92.64 | 90 | 110 | yes |
| Tin | μg/L | 91.13 | 90 | 110 | yes |
| Titanium | µg/L | 95.76 | 90 | 110 | yes |

Quality Control



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1207543 |
|-------------|---------------------------|------------|-----------------------|-----------------|-------------|
| | PO Box 2703 | ID: | Champagne | Control Number: | |
| | Whitehorse, YT, Canada | Name: | CAFN Monitoring Wells | Date Received: | Jun 9. 2017 |
| | Y1A 2C6 | Location: | Champagne | Date Reported: | Jul 7, 2017 |
| Attn: | Accounts Payable | LSD: | | Report Number: | 2197492 |
| Sampled By: | JDM/KP | P.O.: | C00037999 | | |
| Company: | YG-Environment | Acct code: | | | |

Trace Metals Dissolved - Continued

| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | Passed QC |
|-------------------|---------------|------------|-------------|-------------|-----------|
| Uranium | μg/L | 93.54 | 90 | 110 | yes |
| Vanadium | μg/L | 97.95 | 90 | 110 | yes |
| Zinc | μg/L | 107.01 | 90 | 110 | yes |
| Date Acquired: | June 14, 2017 | | | | |
| Aluminum | μg/L | 93.85 | 80 | 120 | yes |
| Antimony | μg/L | 90.67 | 90 | 110 | yes |
| Arsenic | μg/L | 92.89 | 90 | 110 | yes |
| Barium | µg/L | 92.62 | 90 | 110 | yes |
| Beryllium | μg/L | 102.20 | 90 | 110 | yes |
| Boron | µg/L | 96.18 | 80 | 120 | yes |
| Cadmium | μg/L | 99.88 | 90 | 110 | yes |
| Chromium | μg/L | 96.63 | 90 | 110 | yes |
| Cobalt | μg/L | 95.52 | 90 | 110 | yes |
| Copper | μg/L | 94.96 | 90 | 110 | yes |
| Lead | μg/L | 96.28 | 90 | 110 | yes |
| Lithium | μg/L | 97.76 | 90 | 110 | yes |
| Molybdenum | μg/L | 90.60 | 90 | 110 | yes |
| Nickel | μg/L | 96.71 | 90 | 110 | yes |
| Selenium | μg/L | 96.68 | 90 | 110 | yes |
| Silver | μg/L | 98.26 | 90 | 110 | yes |
| Strontium | μg/L | 90.22 | 90 | 110 | yes |
| Thallium | µg/L | 102.74 | 90 | 110 | yes |
| Thorium | μg/L | 98.12 | 86 | 122 | yes |
| Tin | μg/L | 90.04 | 90 | 110 | yes |
| Titanium | mg/L | 104.80 | 90 | 110 | yes |
| Uranium | μg/L | 94.93 | 90 | 110 | yes |
| Vanadium | μg/L | 94.90 | 90 | 110 | yes |
| Zinc | μg/L | 97.81 | 90 | 110 | yes |
| Date Acquired: | June 14, 2017 | | | | |

Trace Metals Total

| Blanks | Units | Measured | Lower Limit | Upper Limit | Passed QC |
|-----------|-------|--------------|-------------|-------------|-----------|
| Aluminum | µg/L | 0.0428664 | -0.990 | 0.990 | yes |
| Antimony | µg/L | -0.00379564 | -0.020 | 0.020 | yes |
| Arsenic | µg/L | 0.00166984 | -0.099 | 0.099 | yes |
| Barium | µg/L | -0.00610825 | -0.099 | 0.099 | yes |
| Beryllium | µg/L | -0.0245944 | -0.050 | 0.050 | yes |
| Bismuth | µg/L | -0.0182462 | -0.099 | 0.099 | yes |
| Boron | µg/L | -0.343474 | -2.001 | 2.001 | yes |
| Cadmium | μg/L | 3.40451e-005 | -0.010 | 0.010 | yes |
| Chromium | μg/L | 0.0110881 | -0.050 | 0.050 | yes |
| Cobalt | µg/L | -0.000199948 | -0.020 | 0.020 | yes |

Quality Control



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1207543 |
|-------------|---------------------------|------------|-----------------------|-----------------|-------------|
| | PO Box 2703 | ID: | Champagne | Control Number: | |
| | Whitehorse, YT, Canada | Name: | CAFN Monitoring Wells | Date Received: | Jun 9. 2017 |
| | Y1A 2C6 | Location: | Champagne | Date Reported: | Jul 7. 2017 |
| Attn: | Accounts Payable | LSD: | | Report Number: | 2197492 |
| Sampled By: | JDM/KP | P.O.: | C00037999 | | 2.0 |
| Company: | YG-Environment | Acct code: | | | |

Trace Metals Total - Continued

| Blanks | Units | Measured | Lower Limit | Upper Limit | Passed QC |
|-------------------|---------------|-------------|-------------|-------------|-----------|
| Copper | μg/L | -0.0234533 | -0.501 | 0.501 | yes |
| Iron | μg/L | 0.595908 | -2.001 | 2.001 | yes |
| Lead | μg/L | 0 | -0.010 | 0.010 | yes |
| Lithium | μg/L | -0.0244858 | -0.501 | 0.501 | yes |
| Manganese | μg/L | -0.0895564 | -0.990 | 0.990 | yes |
| Molybdenum | μg/L | -0.0191674 | -0.020 | 0.020 | yes |
| Nickel | μg/L | -0.167368 | -0.201 | 0.201 | yes |
| Selenium | μg/L | 0.0050931 | -0.201 | 0.201 | yes |
| Silver | μg/L | -0.00157446 | -0.010 | 0.010 | yes |
| Strontium | μg/L | -0.00690528 | -0.099 | 0.099 | yes |
| Tellurium | μg/L | 0 | -0.050 | 0.050 | yes |
| Thallium | μg/L | 0.000159052 | -0.010 | 0.010 | yes |
| Thorium | μg/L | 0 | -0.050 | 0.050 | yes |
| Tin | μg/L | 0 | -0.099 | 0.099 | yes |
| Titanium | µg/L | 0 | -0.099 | 0.099 | yes |
| Uranium | µg/L | -0.00126282 | -0.099 | 0.099 | yes |
| Vanadium | µg/L | -0.00252546 | -0.050 | 0.050 | yes |
| Zinc | µg/L | -0.0144627 | -0.501 | 0.501 | yes |
| Zirconium | µg/L | -0.0622344 | -0.099 | 0.099 | yes |
| Date Acquired: | June 12, 2017 | | | | |
| Calibration Check | Units | % Recoverv | Lower Limit | Upper Limit | Passed QC |
| Aluminum | ua/L | 104.94 | 80 | 120 | ves |
| Antimony | µg/L | 95.52 | 90 | 110 | ves |
| Arsenic | µg/L | 105.54 | 90 | 110 | ves |
| Barium | ua/L | 101.76 | 90 | 110 | ves |
| BervIlium | ua/L | 105.50 | 90 | 110 | ves |
| Boron | ua/L | 99.88 | 70 | 130 | ves |
| Cadmium | µg/L | 103.21 | 90 | 110 | ves |
| Chromium | µg/L | 100.76 | 90 | 110 | ves |
| Cobalt | µg/L | 103.05 | 90 | 110 | ves |
| Copper | µg/L | 104.22 | 90 | 110 | ves |
| Lead | µg/L | 109.86 | 90 | 110 | ves |
| Lithium | µg/L | 102.76 | 90 | 110 | ves |
| Molybdenum | µg/L | 96.71 | 90 | 110 | yes |
| Nickel | µg/L | 103.34 | 90 | 110 | yes |
| Selenium | µg/L | 103.90 | 90 | 110 | yes |
| Silver | µg/L | 103.85 | 90 | 110 | ves |
| Strontium | µg/L | 94.07 | 90 | 110 | ves |
| Thallium | μg/L | 109.40 | 90 | 110 | ves |
| Thorium | μg/L | 103.58 | 90 | 110 | ves |
| Tin | μg/L | 107.58 | 90 | 110 | ves |
| Titanium | µg/L | 108.42 | 90 | 110 | ves |
| | 1.5 | | | - | <i>j</i> |

Quality Control



| Bill To: | YTG DOE - Water Resources PO Box 2703 Whitehorse, YT, Canada | Project: ID: Name: | Champagne CAFN Monitoring Wells | Lot ID: Control Number: | 1207543 |
|----------|--|--------------------------|------------------------------------|----------------------------------|----------------------------|
| | Y1A 2C6 | Location: | Champagne | Date Received: Date Reported: | Jun 9, 2017 Jul 7, 2017 |
| Attn: | Accounts Payable | LSD: | 000037000 | Report Number: | 2197492 |
| Company: | YG-Environment | Acct code: | 00037999 | | |

Trace Metals Total - Continued

| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | | Passed QC |
|-------------------------|------------|-------------|-------------|----------------|-------------------|-----------|
| Uranium | μg/L | 102.11 | 90 | 110 | | yes |
| Vanadium | μg/L | 101.67 | 90 | 110 | | yes |
| Zinc | μg/L | 106.53 | 90 | 110 | | yes |
| Date Acquired: Jun | e 12, 2017 | | | | | |
| Aluminum | μg/L | 99.26 | 80 | 120 | | yes |
| Antimony | μg/L | 92.65 | 90 | 110 | | yes |
| Arsenic | μg/L | 99.94 | 90 | 110 | | yes |
| Barium | μg/L | 98.72 | 90 | 110 | | yes |
| Beryllium | μg/L | 100.12 | 90 | 110 | | yes |
| Boron | μg/L | 100.48 | 80 | 120 | | yes |
| Cadmium | μg/L | 104.53 | 90 | 110 | | yes |
| Chromium | μg/L | 99.73 | 90 | 110 | | yes |
| Cobalt | μg/L | 99.80 | 90 | 110 | | yes |
| Copper | μg/L | 99.73 | 90 | 110 | | yes |
| Lead | μg/L | 105.95 | 90 | 110 | | yes |
| Lithium | μg/L | 101.88 | 90 | 110 | | yes |
| Molybdenum | μg/L | 95.46 | 90 | 110 | | yes |
| Nickel | μg/L | 102.33 | 90 | 110 | | yes |
| Selenium | μg/L | 101.49 | 90 | 110 | | yes |
| Silver | μg/L | 103.20 | 90 | 110 | | yes |
| Strontium | μg/L | 90.76 | 90 | 110 | | yes |
| Thallium | μg/L | 105.62 | 90 | 110 | | yes |
| Thorium | μg/L | 101.26 | 90 | 110 | | yes |
| Tin | μg/L | 98.72 | 90 | 110 | | yes |
| Titanium | μg/L | 97.94 | 90 | 110 | | yes |
| Uranium | μg/L | 100.65 | 90 | 110 | | yes |
| Vanadium | μg/L | 99.76 | 90 | 110 | | yes |
| Zinc | μg/L | 104.63 | 90 | 110 | | yes |
| Date Acquired: Jun | e 12, 2017 | | | | | |
| Client Sample Replicate | es Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Aluminum | μg/L | 3 | 3 | 20 | 100.000 | yes |
| Antimony | μg/L | 0.20 | 0.28 | 20 | 2.000 | yes |
| Arsenic | μg/L | 2.1 | 2.2 | 20 | 2.000 | yes |
| Barium | μg/L | 21 | 21 | 20 | 10.000 | yes |
| Beryllium | μg/L | <0.05 | <0.05 | 20 | 0.400 | yes |
| Boron | μg/L | 12 | 11 | 20 | 40.000 | yes |
| Cadmium | μg/L | <0.01 | <0.01 | 20 | 0.100 | yes |
| Chromium | µg/L | <0.05 | <0.05 | 20 | 6.000 | yes |
| Cobalt | µg/L | <0.02 | <0.02 | 20 | 0.200 | yes |
| Copper | μg/L | 22 | 22 | 20 | 5.000 | yes |
| Iron | μg/L | 7 | 7 | 20 | 100.000 | yes |
| Lead | µg/L | 0.52 | 0.52 | 20 | 1.000 | yes |
| | | | | | | |

Quality Control



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1207543 |
|-------------|---------------------------|------------|-----------------------|-----------------|-------------|
| | PO Box 2703 | ID: | Champagne | Control Number: | |
| | Whitehorse, YT, Canada | Name: | CAFN Monitoring Wells | Date Received: | Jun 9. 2017 |
| | Y1A 2C6 | Location: | Champagne | Date Reported: | Jul 7. 2017 |
| Attn: | Accounts Payable | LSD: | | Report Number: | 2197492 |
| Sampled By: | JDM/KP | P.O.: | C00037999 | | |
| Company: | YG-Environment | Acct code: | | | |

Trace Metals Total - Continued

| Client Sample Replica | ates Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
|-----------------------|--------------|-------------|-------------|----------------|-------------------|-----------|
| Lithium | µg/L | 3.0 | 3.0 | 20 | 10.000 | yes |
| Manganese | µg/L | <1 | <1 | 20 | 1.000 | yes |
| Molybdenum | µg/L | 3.0 | 3.0 | 20 | 0.200 | yes |
| Nickel | µg/L | <0.2 | <0.2 | 20 | 10.000 | yes |
| Selenium | µg/L | 0.4 | 0.4 | 20 | 5.000 | yes |
| Silver | µg/L | <0.01 | <0.01 | 20 | 0.100 | yes |
| Strontium | µg/L | 180 | 180 | 20 | 10.000 | yes |
| Tellurium | µg/L | 0.09 | 0.12 | 20 | 0.500 | yes |
| Thallium | µg/L | 0.02 | 0.03 | 20 | 0.100 | yes |
| Thorium | µg/L | 0.18 | 0.31 | 20 | 1.000 | yes |
| Tin | µg/L | <0.1 | <0.1 | 20 | 1.000 | yes |
| Titanium | µg/L | <0.1 | 0.1 | 20 | 1.000 | yes |
| Uranium | µg/L | 6.0 | 6.0 | 20 | 1.000 | yes |
| Vanadium | µg/L | 0.81 | 0.81 | 20 | 0.400 | yes |
| Zinc | µg/L | 3.8 | 5.6 | 20 | 10.000 | yes |
| Zirconium | µg/L | 0.2 | 0.3 | 20 | 1.000 | yes |
| Date Acquired: J | une 12, 2017 | | | | | |

Volatile Petroleum Hydrocarbons - Water

| Blanks | Units | Measured | Lower Limit | Upper Limit | | Passed QC |
|-------------------|---------------|-------------|-------------|----------------|-------------------|-----------|
| VPHw (VHw6-10) | minus ng | 0 | -50 | 50 | | yes |
| VHw6-10 | ng | 0 | -50 | 50 | | yes |
| Date Acquired: | June 14, 2017 | | | | | |
| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | | Passed QC |
| VHw6-10 | ng | 114.58 | 75 | 125 | | yes |
| Date Acquired: | June 14, 2017 | | | | | |
| Replicates | Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| VPHw (VHw6-10 | minus µg/L | <50 | <50 | 20 | 100 | yes |
| VHw6-10 | µg/L | <50 | <50 | 20 | 100 | yes |
| Date Acquired: | June 14, 2017 | | | | | |
| Matrix Spike | Units | % Recovery | Lower Limit | Upper Limit | | Passed QC |
| VHw6-10 | µg/L | 89 | 75 | 125 | | yes |
| Date Acquired: | June 14, 2017 | | | | | |

Methodology and Notes



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1207543 |
|-------------|---------------------------|------------|-----------------------|-----------------|-------------|
| | PO Box 2703 | ID: | Champagne | Control Number: | |
| | Whitehorse, YT, Canada | Name: | CAFN Monitoring Wells | Date Received: | Jun 9. 2017 |
| | Y1A 2C6 | Location: | Champagne | Date Reported: | Jul 7. 2017 |
| Attn: | Accounts Payable | LSD: | | Report Number: | 2197492 |
| Sampled By: | JDM/KP | P.O.: | C00037999 | | |
| Company: | YG-Environment | Acct code: | | | |

Method of Analysis

| Method Name | Reference | | Method | Date Analysis Started | Location |
|---|-----------|---|---|--------------------------|----------------|
| Alk, pH, EC, Turb in water (Surrey) | АРНА | * | Alkalinity - Titration Method, 2320 B | 13-Jun-17 | Exova Surrey |
| Alk, pH, EC, Turb in water (Surrey) | APHA | * | Conductivity, 2510 B | 13-Jun-17 | Exova Surrey |
| Alk, pH, EC, Turb in water (Surrey) | APHA | * | pH - Electrometric Method, 4500-H+ B | 13-Jun-17 | Exova Surrey |
| Ammonia-N in Water (Surrey) | APHA | * | Flow Injection Analysis, 4500-NH3 H | 14-Jun-17 | Exova Surrey |
| Anions by IEC in water (Surrey) | APHA | * | Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B | 12-Jun-17 | Exova Surrey |
| Anions by IEC in water (Surrey) | APHA | * | Single-Column Ion Chromatography with Electronic Suppression, 4110 C | 12-Jun-17 | Exova Surrey |
| BTEX-VPH - Water (MS) (Surrey) | B.C.M.O.E | * | Volatile Hydrocarbons in Waters by GC/FID (April, 2007), CSR | 14-Jun-17 | Exova Surrey |
| BTEX-VPH - Water (MS) (Surrey) | BCELM | * | Volatile Hydrocarbons in Water by GC/FID, VH Water | 14-Jun-17 | Exova Surrey |
| Carbon Inorganic (Dissolved) in water(DIC) | APHA | | High-Temperature Combustion Method, 5310 B | 16-Jun-17 | Exova Edmonton |
| Carbon Inorganic (Total) in water (TIC) | APHA | | High-Temperature Combustion Method, 5310 B | 15-Jun-17 | Exova Edmonton |
| Carbon Organic (Dissolved) in water (DOC) | APHA | | High-Temperature Combustion Method, 5310 B | 14-Jun-17 | Exova Edmonton |
| Carbon Organic (Total) in water (TOC) | APHA | | High-Temperature Combustion Method, 5310 B | 14-Jun-17 | Exova Edmonton |
| Mercury Low Level (Dissolved) in water (Surrey) | EPA | * | Mercury in Water by Cold Vapor Atomic Fluorescence Spectrometry, 245.7 | 12-Jun-17 | Exova Surrey |
| Mercury Low Level (Total) in water (Surrey) | EPA | * | Mercury in Water by Cold Vapor Atomic Fluorescence Spectrometry, 245.7 | 12-Jun-17 | Exova Surrey |
| Metals SemiTrace (Dissolved) in water (Surrey) | US EPA | * | Metals & Trace Elements by ICP-AES, 6010C | 14-Jun-17 | Exova Surrey |
| Metals SemiTrace (Total) in Water (Surrey) | US EPA | * | Metals & Trace Elements by ICP-AES, 6010C | 12-Jun-17 | Exova Surrey |
| Phosphorus - total by Smartchem (Surrey) | APHA | * | Persulfate digestion method, 4500-P B5 | 13-Jun-17 | Exova Surrey |
| Solids Dissolved (Total, Fixed and Volatile) - Surrey | APHA | * | Total Dissolved Solids Dried at 180 C, 2540 C | 13-Jun-17 | Exova Surrey |
| Solids Suspended (Total, Fixed and Volatile) - Surrey | APHA | * | Total Suspended Solids Dried at 103- 105'C, 2540 D | 13-Jun-17 | Exova Surrey |
| Total and Kjeldahl Nitrogen (Total) in Water | ISO | * | Water Quality - Determination of nitrogen, ISO/TR 11905-2 | 13-Jun-17 | Exova Edmonton |
| Trace Metals (dissolved) in Water (Surrey) | US EPA | * | Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8 | 14-Jun-17 | Exova Surrey |
| Trace Metals (dissolved) in Water (Surrey) | US EPA | * | Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8 | 07-Jul-17 | Exova Surrey |
| Trace Metals (Total) in Water (Surrey) | US EPA | * | Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8 | 12-Jun-17 | Exova Surrey |

Methodology and Notes



| Bill To: | YTG DOE - Water Resources | Project: | | Lot ID: | 1207543 |
|-------------|---------------------------|------------|-----------------------|-----------------|-------------|
| | PO Box 2703 | ID: | Champagne | Control Number: | |
| | Whitehorse, YT, Canada | Name: | CAFN Monitoring Wells | Date Received: | Jun 9, 2017 |
| | Y1A 2C6 | Location: | Champagne | Date Reported: | Jul 7, 2017 |
| Attn: | Accounts Payable | LSD: | | Report Number | 2197492 |
| Sampled By: | JDM/KP | P.O.: | C00037999 | | 2107 102 |
| Company: | YG-Environment | Acct code: | | | |

| Method Name | Reference | Method | Date Analysis Started | Location |
|--|-----------|---|--------------------------|--------------|
| Trace Metals (Total) in Water (Surrey) | US EPA * | Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8 * Reference Method Modified | 07-Jul-17 | Exova Surrey |
| | | | | |

References

| APHA | Standard Methods for the Examination of Water and Wastewater |
|-----------|--|
| B.C.M.O.E | B.C. Ministry of Environment |
| BCELM | B.C. Environmental Laboratory Manual |
| EPA | Environmental Protection Agency Test Methods - US |
| ISO | International Organization for Standardization |
| US EPA | US Environmental Protection Agency Test Methods |

Comments:

- Reduction of analytical volume was necessary for Trace Metals analysis to bring results within the analytical range for sample #1207543-2. Detection limits are adjusted accordingly.
- Analysis was performed on sample 1207543-1 and 1207543-2, 1207543-3 and 1207543-4 that exceeded the recommended holding time for nitrate and nitrite analysis.
- NORM-W1 analysis was performed by a subcontract laboratory. See attached 6 page report 2017-6698.
- Sample 1207543-1; 5743530 Reduction of analytical volume was necessary for nitrate due to matrix effects in sample 1207543-1, 1207543-2 and 1207543-3. Detection limits are adjusted accordingly.



www.src.sk.ca/analytical

SRC Group # 2017-6698

Jul 07, 2017

EXOVA 104-19575 55A Avenue Surrey, BC V3S 8P8 Attn: Client Services

Date Samples Received: Jun-13-2017

Client P.O.: POC103750

All results have been reviewed and approved by a Qualified Person in accordance with the Saskatchewan Environmental Code, Corrective Action Plan Chapter, for the purposes of certifying a laboratory analysis

Results from Lab Sections 1 and 2 have been authorized by Keith Gipman, Supervisor Results from Lab Section 3 have been authorized by Pat Moser, Supervisor Results from Lab Sections 4 and 5 have been authorized by Vicky Snook, Supervisor Results from Lab Section 6 have been authorized by Marion McConnell, Supervisor

* Test methods and data are validated by the laboratory's Quality Assurance Program.

* Routine methods follow recognized procedures from sources such as

* Standard Methods for the Examination of Water and Wastewater APHA AWWA WEF

* Environment Canada

* US EPA

* CANMET

* The results reported relate only to the test samples as provided by the client.

* Samples will be kept for 30 days after the final report is sent. Please contact the lab if you have any special requirements.

* Additional information is available upon request.

This is a final report.



www.src.sk.ca/analytical

SRC Group # 2017-6698

Jul 07, 2017

EXOVA 104-19575 55A Avenue Surrey, BC V3S 8P8 Attn : Client Services

Date Samples Received: Jun-13-2017 Client P.O.: POC103750 SRC Lab # 23208 Sample Type: WATER

06/07/2017 1207543-1 CAFN-MW-01 2017082

| Analyte Name | Units | Results | Unconditional Release Limit | |
|--------------|-------|---------|-----------------------------------|--|
| Lead-210 | Bq/L | <0.1 | 1 | |
| Radium-226 | Bq/L | <0.05 | 5 | |
| Radium-228 | Bq/L | <0.7 | 5 | |
| Thorium-228 | Bq/L | <0.1 | 1 | |
| Thorium-230 | Bq/L | <0.1 | 5 | |
| Thorium-234 | Bq/L | <4 | 10 | |
| Potassium-40 | Bq/L | <7 | none set | |

Symbol of "<" means "less than". This indicates that it was not detected at level stated above.

Detection limits are influenced by several factors. "Less than" values reported above represent the lowest detection limits achievable for the sample.

Sum of Ratios = 0.77

This sample meets the unconditional derived release limits for diffuse NORM sources.

Sample preparation and Analysis Method

A 500 mL aliquot of each sample was measured into a standard Marinelli beaker, sealed with tape, and a high resolution gamma ray spectrometric measurement was performed using a hyperpure Ge detector housed in a 10cm lead castle.

Ra-226: An aliquot of each sample, usually 100 mL, was measured. Radionuclides were co-precipitated with lead sulfate. The precipitate was dissolved in alkaline EDTA. Radium was isolated by co-precipitation with barium sulfate. The precipitate was collected on a filter membrane and measured by alpha spectroscopy. The lower detection limit of a 100 mL sample is 0.05 Bq/L.

Th-230: An aliquot of each sample, usually 100 mL, was measured. Radionuclides were co-precipitated with barium sulfate. Following several wet-chemistry steps to remove impurities, the BaSO4 precipitate was dissolved in alkaline EDTA and thorium was co-precipitated with ceric hydroxide. The precipitate was collected on a filter membrane and measured by alpha spectroscopy. The lower detection limit for a 100 mL sample is 0.1 Bq/L.



www.src.sk.ca/analytical

SRC Group # 2017-6698

Jul 07, 2017

Pb-210: Lead-210 is determined indirectly by precipitation and counting of its high energy beta emitting progeny, bismuth-210. An aliquot of each sample, usually 200 mL, was measured. Bismuth was isolated by solvent extraction and subsequently precipitated as bismuth oxychloride. The precipitate was collected on a filter paper/disk assembly and beta counted in a low background counting system using a gas-flow proportional detector. The lower detection limit for a 200 mL sample is 0.1 Bq/L.



www.src.sk.ca/analytical

SRC Group # 2017-6698

Jul 07, 2017

EXOVA 104-19575 55A Avenue Surrey, BC V3S 8P8 Attn : Client Services

Date Samples Received: Jun-13-2017 Client P.O.: POC103750 SRC Lab # 23209 Sample Type: WATER

06/07/2017 1207543-2 CAFN-MW-03 2017083

| Analyte Name | Units | Results | Unconditional Release Limit |
|--------------|-------|---------|-----------------------------------|
| Lead-210 | Bq/L | <0.1 | 1 |
| Radium-226 | Bq/L | 0.1 | 5 |
| Radium-228 | Bq/L | <1 | 5 |
| Thorium-228 | Bq/L | <0.1 | 1 |
| Thorium-230 | Bq/L | <0.1 | 5 |
| Thorium-234 | Bq/L | <4 | 10 |
| Potassium-40 | Bq/L | <6 | none set |

Symbol of "<" means "less than". This indicates that it was not detected at level stated above.

Detection limits are influenced by several factors. "Less than" values reported above represent the lowest detection limits achievable for the sample.

Sum of Ratios = 0.84

This sample meets the unconditional derived release limits for diffuse NORM sources.

Sample preparation and Analysis Method

A 500 mL aliquot of each sample was measured into a standard Marinelli beaker, sealed with tape, and a high resolution gamma ray spectrometric measurement was performed using a hyperpure Ge detector housed in a 10cm lead castle.

Ra-226: An aliquot of each sample, usually 100 mL, was measured. Radionuclides were co-precipitated with lead sulfate. The precipitate was dissolved in alkaline EDTA. Radium was isolated by co-precipitation with barium sulfate. The precipitate was collected on a filter membrane and measured by alpha spectroscopy. The lower detection limit of a 100 mL sample is 0.05 Bq/L.

Th-230: An aliquot of each sample, usually 100 mL, was measured. Radionuclides were co-precipitated with barium sulfate. Following several wet-chemistry steps to remove impurities, the BaSO4 precipitate was dissolved in alkaline EDTA and thorium was co-precipitated with ceric hydroxide. The precipitate was collected on a filter membrane and measured by alpha spectroscopy. The lower detection limit for a 100 mL sample is 0.1 Bq/L.



www.src.sk.ca/analytical

SRC Group # 2017-6698

Jul 07, 2017

Pb-210: Lead-210 is determined indirectly by precipitation and counting of its high energy beta emitting progeny, bismuth-210. An aliquot of each sample, usually 200 mL, was measured. Bismuth was isolated by solvent extraction and subsequently precipitated as bismuth oxychloride. The precipitate was collected on a filter paper/disk assembly and beta counted in a low background counting system using a gas-flow proportional detector. The lower detection limit for a 200 mL sample is 0.1 Bq/L.



www.src.sk.ca/analytical

SRC Group # 2017-6698

Jul 07, 2017

EXOVA 104-19575 55A Avenue Surrey, BC V3S 8P8 Attn : Client Services

Date Samples Received: Jun-13-2017 Client P.O.: POC103750 SRC Lab # 23210 Sample Type: WATER

06/07/2017 1207543-3 CAFN-MW-02 2017084

| Analyte Name | Units | Results | Unconditional Release Limit |
|--------------|-------|---------|-----------------------------------|
| Lead-210 | Bq/L | <0.1 | 1 |
| Radium-226 | Bq/L | 0.3 | 5 |
| Radium-228 | Bq/L | <0.5 | 5 |
| Thorium-228 | Bq/L | <0.1 | 1 |
| Thorium-230 | Bq/L | <0.1 | 5 |
| Thorium-234 | Bq/L | <4 | 10 |
| Potassium-40 | Bq/L | <3 | none set |

Symbol of "<" means "less than". This indicates that it was not detected at level stated above.

Detection limits are influenced by several factors. "Less than" values reported above represent the lowest detection limits achievable for the sample.

Sum of Ratios = 0.78

This sample meets the unconditional derived release limits for diffuse NORM sources.

Sample preparation and Analysis Method

A 500 mL aliquot of each sample was measured into a standard Marinelli beaker, sealed with tape, and a high resolution gamma ray spectrometric measurement was performed using a hyperpure Ge detector housed in a 10cm lead castle.

Ra-226: An aliquot of each sample, usually 100 mL, was measured. Radionuclides were co-precipitated with lead sulfate. The precipitate was dissolved in alkaline EDTA. Radium was isolated by co-precipitation with barium sulfate. The precipitate was collected on a filter membrane and measured by alpha spectroscopy. The lower detection limit of a 100 mL sample is 0.05 Bq/L.

Th-230: An aliquot of each sample, usually 100 mL, was measured. Radionuclides were co-precipitated with barium sulfate. Following several wet-chemistry steps to remove impurities, the BaSO4 precipitate was dissolved in alkaline EDTA and thorium was co-precipitated with ceric hydroxide. The precipitate was collected on a filter membrane and measured by alpha spectroscopy. The lower detection limit for a 100 mL sample is 0.1 Bq/L.



www.src.sk.ca/analytical

SRC Group # 2017-6698

Jul 07, 2017

Pb-210: Lead-210 is determined indirectly by precipitation and counting of its high energy beta emitting progeny, bismuth-210. An aliquot of each sample, usually 200 mL, was measured. Bismuth was isolated by solvent extraction and subsequently precipitated as bismuth oxychloride. The precipitate was collected on a filter paper/disk assembly and beta counted in a low background counting system using a gas-flow proportional detector. The lower detection limit for a 200 mL sample is 0.1 Bq/L.

Report Transmission Cover Page



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1223968 |
|-------------|---------------------------|-------------------|-----------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | Campground Well | Control Number: | |
| | Whitehorse, YT, Canada | | Sampling | Date Received: | Aug 31, 2017 |
| | Y1A 2C6 | Project Location: | | Date Reported: | Sep 7, 2017 |
| Attn: | Accounts Payable | LSD: | | Report Number: | 2218849 |
| Sampled By: | JDM | P.O.: | C00037999 | | |
| Company: | YG-Environmental | Proj. Acct. code: | | | |

| Contact | Company | Address | | |
|----------------------------|---------------------------|---------------------------------|------|----------------|
| Holly Goulding | YTG DOE - Water Resources | 202, 419 Range Road | | |
| | | Whitehorse, YT Y1A 3V1 | | |
| | | Phone: (867) 456-6583 | Fax: | (867) 667-3194 |
| | | Email: holly.goulding@gov.yk.ca | | |
| Delivery | Format | Deliverables | | |
| Email - Merge Reports | PDF | COC / Test Report | | |
| Email - Single Report | EQWin | Test Report | | |
| Email - Single Report | PDF | Invoice | | |
| John Miller | YTG DOE - Water Resources | 202, 419 Range Road | | |
| | | Whitehorse, YT Y1A 3V1 | | |
| | | Phone: (867) 667-3104 | Fax: | (867) 667-3194 |
| | | Email: john.miller@gov.yk.ca | | |
| Delivery | Format | Deliverables | | |
| Email - Multiple Reports E | By Lot EQWin | Test Report | | |
| Email - Multiple Reports E | By Lot PDF | COC / Test Report | | |
| Email - Single Report | PDF | COA | | |
| Email - Single Report | PDF | COR | | |
| Email - Single Report | PDF | Invoice | | |
| Tyler Williams | YTG DOE - Water Resources | 202, 419 Range Road | | |
| | | Whitehorse, YT Y1A 3V1 | | |
| | | Phone: (867) 667-3233 | Fax: | (867) 667-3194 |
| | | Email: Tyler.Williams@gov.yk.ca | | |
| Delivery | Format | Deliverables | | |
| Email - Multiple Reports E | By Lot EQWin | Test Report | | |
| Email - Multiple Reports E | By Lot PDF | COC / Test Report | | |

Notes To Clients:

• Reduction of analytical volume was necessary for Metals analysis to bring results within the analytical range for samples #1223968-2 through 7. Detection limits are adjusted accordingly.

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Analytical Report



| Bill To: Attn: Sampled By: Company: | YTG DOE - Water Resources PO Box 2703 Whitehorse, YT, Canada Y1A 2C6 Accounts Payable JDM YG-Environmental | Project ID: Project Name: Project Location: LSD: P.O.: Proj. Acct. code: | YOWN Campground Well Sampling C00037999 | Lot ID: 1223968 Control Number: Date Received: Aug 31, 2017 Date Reported: Sep 7, 2017 Report Number: 2218849 | | |
|--|--|---|--|--|-----------------------------------|----------------------------|
| | | Reference Number | r 1223968-1 | 1223968-2 | 1223968-3 | |
| | | Sample Date | e Aug 29, 2017 | Aug 29, 2017 | Aug 28, 2017 | |
| | | Sample Time | e 09:30 | 14:32 | 19:13 | |
| | | Sample Location | 1 | | | |
| | | Sample Description | YOWN-1510 / 2017198 / 8 °C / M | YOWN-1613 / 2017199 / 8 °C / M | YOWN-1509 / 2017200 / 8 °C / M | |
| | | Matrix | Water | Water | Water | |
| Analyte | | Units | Results | Results | Results | Nominal Detection Limit |
| Routine Water | | | | | | |
| Digestion | Dissolved | | Field filtered and Pres Dissol | Field filtered and Pres Dissol | | |
| Calcium | Dissolved | mg/L | 9.8 | 40 | 72 | 0.01 |
| Magnesium | Dissolved | mg/L | 5.5 | 8.3 | 18 | 0.02 |
| Potassium | Dissolved | mg/L | 1.9 | 1.7 | 1.6 | 0.04 |
| Silicon | Dissolved | mg/L | 0.013 | 2.6 | 4.0 | 0.005 |
| Soaium | Dissolved | mg/L | 1.1 | 2.2 | 5.8 | 0.1 |
| Bicarbonato | Dissolved | mg/L | 60 | 0.72 | 0.9 | 0.02 |
| Carbonate | | mg/L | 09 ~6 | -6 | | 5 |
| Hydroxide | | mg/L | <5 | <0 | | 5 |
| P-Alkalinity | as CaCO3 | mg/L | <5 | <5 | | 5 |
| T-Alkalinity | as CaCO3 | mg/L | 57 | 142 | | 5 |
| Bromide | Dissolved | ma/L | <0.02 | <0.02 | | 0.02 |
| Chloride | Dissolved | mg/L | 0.37 | 1.11 | | 0.05 |
| Fluoride | Dissolved | mg/L | 0.15 | 0.12 | | 0.01 |
| Sulfate (SO4) | Dissolved | mg/L | 3.6 | <0.1 | | 0.1 |
| Hardness | as CaCO3 (dissolve | ed) mg/L | 47 | 134 | 250 | 5 |
| Trace Metals Di | ssolved | | | | | |
| Digestion | Dissolved | | Field filtered and Pres Dissol | Field filtered and Pres Dissol | Field filtered and Pres Dissol | |
| Titanium | Dissolved | mg/L | 0.002 | 0.010 | 0.016 | 0.002 |
| Aluminum | Dissolved | mg/L | <0.001 | <0.001 | <0.001 | 0.001 |
| Antimony | Dissolved | mg/L | 0.00008 | 0.00005 | 0.00004 | 0.00002 |
| Arsenic | Dissolved | mg/L | <0.0001 | 0.0001 | 0.0019 | 0.0001 |
| Barium | Dissolved | mg/L | 0.0517 | 0.0999 | 0.2647 | 0.0001 |
| Beryllium | Dissolved | mg/L | <0.00005 | < 0.00005 | <0.00005 | 0.00005 |
| Bismuth | Dissolved | mg/L | <0.0001 | <0.0001 | < 0.0001 | 0.0001 |
| Boron | Dissolved | mg/L | 0.003 | 0.006 | 0.003 | 0.002 |
| Cadmium | Dissolved | mg/L | <0.00001 | <0.00001 | <0.00001 | 0.00001 |
| Cobalt | Dissolved | mg/L | | 0.00005 | 0.00003 | 0.00000 |
| Copper | Dissolved | ma/l | <0.0005 | <0.0005 | <0.0005 | 0.0005 |
| Iron | Dissolved | ma/l | <0.002 | 5.80 | 2.58 | 0.002 |
| Lead | Dissolved | ma/L | 0.00005 | <0.00001 | 0.000097 | 0.00001 |
| Lithium | Dissolved | mg/L | 0.0032 | 0.0017 | 0.0084 | 0.0005 |
| Manganese | Dissolved | mg/L | 0.016 | 0.322 | 0.128 | 0.001 |
| Molybdenum | Dissolved | mg/L | 0.00780 | 0.00110 | 0.00341 | 0.00002 |



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1223968 |
|-------------|---------------------------|-------------------|-----------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | Campground Well | Control Number: | |
| | Whitehorse, YT, Canada | | Sampling | Date Received: | Aug 31, 2017 |
| | Y1A 2C6 | Project Location: | | Date Reported: | Sep 7, 2017 |
| Attn: | Accounts Payable | LSD: | 0 | Report Number: | 2218849 |
| Sampled By: | JDM | P.O.: | C00037999 | | |
| Company: | YG-Environmental | Proj. Acct. code: | | | |

| | | Reference Number | 1223968-1 | 1223968-2 | 1223968-3 | |
|---------------------------|------------------|--------------------|-----------------------------------|-----------------------------------|-----------------------------------|----------------------------|
| | | Sample Date | Aug 29, 2017 | Aug 29, 2017 | Aug 28, 2017 | |
| | | Sample Time | 09:30 | 14:32 | 19:13 | |
| | | Sample Location | | | | |
| | | Sample Description | YOWN-1510 / 2017198 / 8 °C / M | YOWN-1613 / 2017199 / 8 °C / M | YOWN-1509 / 2017200 / 8 °C / M | |
| | | Matrix | Water | Water | Water | |
| Analyte | | Units | Results | Results | Results | Nominal Detection Limit |
| Trace Metals Disso | Ived - Continued | | | | | |
| Nickel | Dissolved | mg/L | 0.0003 | 0.0008 | <0.0002 | 0.0002 |
| Selenium | Dissolved | mg/L | <0.0002 | <0.0002 | <0.0002 | 0.0002 |
| Silver | Dissolved | mg/L | <0.00001 | <0.00001 | <0.00001 | 0.00001 |
| Strontium | Dissolved | mg/L | 0.0990 | 0.1219 | 0.5911 | 0.0001 |
| Tellurium | Dissolved | mg/L | <0.00005 | <0.00005 | <0.00005 | 0.00005 |
| Thallium | Dissolved | mg/L | <0.00001 | <0.00001 | <0.00001 | 0.00001 |
| Thorium | Dissolved | mg/L | 0.00012 | 0.00016 | 0.00011 | 0.00005 |
| Tin | Dissolved | mg/L | <0.0001 | <0.0001 | <0.0001 | 0.0001 |
| Uranium | Dissolved | mg/L | <0.00001 | <0.00001 | 0.00008 | 0.00001 |
| Vanadium | Dissolved | mg/L | <0.00005 | <0.00005 | <0.00005 | 0.00005 |
| Zinc | Dissolved | mg/L | 0.0005 | 0.0328 | 0.1495 | 0.0005 |
| Zirconium | Dissolved | mg/L | <0.0001 | <0.0001 | <0.0001 | 0.0001 |



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1223968 |
|-------------|---------------------------|-------------------|-----------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | Campground Well | Control Number: | |
| | Whitehorse, YT, Canada | | Sampling | Date Received: | Aug 31, 2017 |
| | Y1A 2C6 | Project Location: | | Date Reported: | Sep 7, 2017 |
| Attn: | Accounts Payable | LSD: | 0 | Report Number: | 2218849 |
| Sampled By: | JDM | P.O.: | C00037999 | | |
| Company: | YG-Environmental | Proj. Acct. code: | | | |

| | Refe | rence Number | 1223968-1 | 1223968-2 | 1223968-5 | |
|-------------------------|------------------------|----------------|-----------------------------------|-----------------------------------|-----------------------------------|----------------------------|
| | | Sample Date | Aug 29, 2017 | Aug 29, 2017 | Aug 29, 2017 | |
| | | Sample Time | 09:30 | 14:32 | 11:35 | |
| | Sai | nple Location | | | | |
| | Samp | le Description | YOWN-1510 / 2017198 / 8 °C / M | YOWN-1613 / 2017199 / 8 °C / M | YOWN-0805 / 2017202 / 8 °C / M | |
| | | Matrix | Water | Water | Water | |
| Analyte | | Units | Results | Results | Results | Nominal Detection Limit |
| Inorganic Nonmetallic P | arameters | | | | | |
| Kjeldahl Nitrogen | Total | mg/L | 0.45 | | | 0.07 |
| Nitrogen | Total | mg/L | 0.45 | 1.96 | 0.52 | 0.06 |
| Organic Carbon | Total Nonpurgeable | mg/L | 14 | 4.2 | 1.7 | 0.5 |
| Organic Carbon | Dissolved Nonpurgeable | mg/L | 12.6 | 1.5 | 0.9 | 0.5 |
| Inorganic carbon | Total | mg/L | 10 | 31.6 | 52.2 | 0.5 |
| Inorganic carbon | Dissolved | mg/L | 9.8 | 31.4 | 51.4 | 0.5 |
| Ammonia - N | | mg/L | 0.27 | 1.36 | <0.01 | 0.01 |
| Phosphorus | Total | mg/L | 0.008 | 0.029 | 0.012 | 0.003 |
| Metals Dissolved | | | | | | |
| Mercury | Dissolved | mg/L | <0.00001 | <0.00001 | <0.00001 | 0.00001 |



| Bill To: Attn: Sampled By: Company: | YTG DOE - Water Resources PO Box 2703 Whitehorse, YT, Canada Y1A 2C6 Accounts Payable JDM YG-Environmental | Project ID: Project Name: Project Location: LSD: P.O.: Proj. Acct. code: | YOWN Campground Well Sampling C00037999 | Lot ID: Control Number: Date Received: Date Reported: Report Number: | 1223968 Aug 31, 2017 Sep 7, 2017 2218849 | |
|--|--|---|--|--|--|--|
| | | Reference Number | 1223968-3 | 1223968-4 | 1223968-6 | |

| | | Sample Date | Aug 28, 2017 | Aug 29, 2017 | Aug 29, 2017 | |
|--------------------|-------|--------------------|--------------------|--------------------|--------------------|----------------------------|
| | | Sample Time | 19:13 | 15:45 | 13:08 | |
| | | Sample Location | | | | |
| | | Sample Description | YOWN-1509 / | YOWN-1513 / | YOWN-1512 / | |
| | | | 2017200 / 8 °C / M | 2017201 / 8 °C / M | 2017203 / 8 °C / M | |
| | | Matrix | Water | Water | Water | |
| Analyte | | Units | Results | Results | Results | Nominal Detection Limit |
| Metals Total | | | | | | |
| Calcium | Total | mg/L | 77 | 79 | 97 | 0.01 |
| Magnesium | Total | mg/L | 19 | 15 | 20 | 0.02 |
| Potassium | Total | mg/L | 1.7 | 1.1 | 1.2 | 0.04 |
| Silicon | Total | mg/L | 4.5 | 5.9 | 10 | 0.005 |
| Sulfur | Total | mg/L | 7.4 | 2.4 | 1.8 | 0.02 |
| Sodium | Total | mg/L | 6.6 | 3.8 | 2.6 | 0.1 |
| Titanium | Total | mg/L | 0.017 | 0.018 | 0.021 | 0.002 |
| Trace Metals Total | | Ũ | | | | |
| Aluminum | Total | mg/L | 0.008 | 0.018 | <0.001 | 0.001 |
| Antimony | Total | mg/L | 0.00008 | 0.00020 | 0.00005 | 0.00002 |
| Arsenic | Total | mg/L | 0.0025 | 0.0008 | 0.0088 | 0.0001 |
| Barium | Total | mg/L | 0.29 | 0.20 | 0.32 | 0.0001 |
| Beryllium | Total | mg/L | <0.00005 | <0.00005 | <0.00005 | 0.00005 |
| Bismuth | Total | mg/L | <0.0001 | <0.0001 | <0.0001 | 0.0001 |
| Boron | Total | mg/L | 0.004 | 0.007 | 0.003 | 0.002 |
| Cadmium | Total | mg/L | 0.00001 | <0.00001 | <0.00001 | 0.00001 |
| Chromium | Total | mg/L | <0.00005 | 0.0029 | <0.00005 | 0.00005 |
| Cobalt | Total | mg/L | 0.00005 | 0.00025 | <0.00002 | 0.00002 |
| Copper | Total | mg/L | 0.0004 | 0.0055 | <0.0002 | 0.0002 |
| Iron | Total | mg/L | 3.2 | 4.9 | 1.9 | 0.002 |
| Lead | Total | mg/L | 0.0021 | 0.00093 | 0.000096 | 0.00001 |
| Lithium | Total | mg/L | 0.0091 | 0.0009 | 0.0031 | 0.0005 |
| Manganese | Total | mg/L | 0.14 | 0.033 | 0.32 | 0.001 |
| Molybdenum | Total | mg/L | 0.0038 | 0.00062 | 0.0011 | 0.00002 |
| Nickel | Total | mg/L | 0.0002 | 0.0028 | <0.0002 | 0.0002 |
| Selenium | Total | mg/L | < 0.0002 | <0.0002 | <0.0002 | 0.0002 |
| Silver | Total | mg/L | <0.00001 | <0.00001 | <0.00001 | 0.00001 |
| Strontium | Total | mg/L | 0.66 | 0.19 | 0.29 | 0.0001 |
| Tellurium | Total | mg/L | <0.00005 | <0.00005 | <0.00005 | 0.00005 |
| Thallium | Total | mg/L | <0.00001 | <0.00001 | <0.00001 | 0.00001 |
| Thorium | Total | mg/L | 0.00044 | 0.00027 | 0.00030 | 0.00005 |
| Tin | Total | mg/L | <0.0001 | 0.0004 | <0.0001 | 0.0001 |
| Uranium | Total | mg/L | 0.00010 | 0.00065 | 0.00012 | 0.00001 |
| Vanadium | Total | mg/L | <0.00005 | 0.00036 | <0.00005 | 0.00005 |
| Zinc | Total | ma/L | 0.46 | 0.23 | 0.076 | 0.0005 |
| Zirconium | Total | ma/L | 0.0003 | 0.0002 | 0.0004 | 0.0001 |
| | | 5 | | | | |



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1223968 |
|-------------|---------------------------|-------------------|-----------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | Campground Well | Control Number: | |
| | Whitehorse, YT, Canada | | Sampling | Date Received: | Aug 31, 2017 |
| | Y1A 2C6 | Project Location: | | Date Reported: | Sep 7, 2017 |
| Attn: | Accounts Payable | LSD: | 0 | Report Number: | 2218849 |
| Sampled By: | JDM | P.O.: | C00037999 | | |
| Company: | YG-Environmental | Proj. Acct. code: | | | |

| | Reference Number | 1223968-5 | | | |
|---|--------------------|-----------------------------------|---------|---------|----------------------------|
| | Sample Date | Aug 29, 2017 | | | |
| | Sample Time | 11:35 | | | |
| | Sample Location | | | | |
| | Sample Description | YOWN-0805 / 2017202 / 8 °C / M | | | |
| | Matrix | Water | | | |
| Analyte | Units | Results | Results | Results | Nominal Detection Limit |
| Mono-Aromatic Hydrocarbons - Water | | | | | |
| Benzene | µg/L | <0.5 | | | 0.5 |
| Ethylbenzene | µg/L | <0.5 | | | 0.5 |
| Methyl t-Butyl Ether | µg/L | <0.5 | | | 0.5 |
| Styrene | µg/L | <0.5 | | | 0.5 |
| Toluene | µg/L | <0.5 | | | 0.5 |
| Total Xylenes (m,p,o) | µg/L | <0.5 | | | 0.5 |
| Volatile Petroleum Hydrocarbons - Water | | | | | |
| VPHw (VHw6-10 minus BTEX) | µg/L | <50 | | | 50 |
| VHw6-10 | μg/L | <50 | | | 50 |

Analytical Report



| Bill To: Attn: Sampled By: Company: | YTG DOE - Water Resources PO Box 2703 Whitehorse, YT, Canada Y1A 2C6 Accounts Payable JDM YG-Environmental | Project ID: Project Name: Project Location: LSD: P.O.: Proj. Acct. code: | YOWN Campground Well Sampling C00037999 | L Control Nur Date Repo Date Report Nur | ot ID: 1223968 mber: eived: Aug 31, 2017 orted: Sep 7, 2017 mber: 2218849 | |
|--|--|---|--|--|--|----------------------------|
| | | Reference Numbe | er 1223968-5 | 1223968-6 | 1223968-7 | |
| | | Sample Dat | e Aug 29, 2017 | Aug 29, 2017 | Aug 28, 2017 | |
| | | Sample Tim | e 11:35 | 13:08 | 17:39 | |
| | | Sample Locatio | n | | | |
| | | Sample Descriptio | n YOWN-0805 / 2017202 / 8 °C / M | YOWN-1512 / 2017203 / 8 °C / M | 2017204 / 8 °C / M | |
| | | Matri | x Water | Water | Water | |
| Analyte | | Units | Results | Results | Results | Nominal Detection Limit |
| Routine Water | | | | | | |
| Digestion | Dissolved | | Field filtered and Pres Dissol | | | |
| Calcium | Dissolved | mg/L | 64 | 90 | 40 | 0.01 |
| Magnesium | Dissolved | mg/L | 14 | 19 | 11 | 0.02 |
| Potassium | Dissolved | mg/L | 1.2 | 1.2 | 0.86 | 0.04 |
| Silicon | Dissolved | mg/L | 4.4 | 9.2 | 2.1 | 0.005 |
| Sodium | Dissolved | mg/L | 3.3 | 2.3 | 1.7 | 0.1 |
| Sulfur | Dissolved | mg/L | 3.3 | 1.8 | 9.5 | 0.02 |
| Bicarbonate | | mg/L | 303 | | | 5 |
| Carbonate | | mg/L | <6 | | | 6 |
| Hydroxide | | mg/L | <5 | | | 5 |
| P-Alkalinity | as CaCO3 | mg/L | <5 | | | 5 |
| I-Alkalinity | as CaCO3 | mg/L | 249 | | | 5 |
| Bromide | Dissolved | mg/L | <0.02 | | | 0.02 |
| Chloride | Dissolved | mg/L | 2.41 | | | 0.05 |
| Fluoride | Dissolved | mg/L | 0.08 | | | 0.01 |
| Sulfate (SO4) | | mg/L | 7.6 | 000 | 4.45 | 0.1 |
| Hardness | as CaCO3 (dissoive | a) mg/L | 220 | 300 | 145 | 5 |
| Digestion | Dissolved | | Field filtered and Pres Dissol | Field filtered and Pres Dissol | Field filtered and Pres Dissol | |
| Titanium | Dissolved | mg/L | 0.014 | 0.019 | 0.009 | 0.002 |
| Aluminum | Dissolved | mg/L | <0.001 | <0.001 | <0.001 | 0.001 |
| Antimony | Dissolved | mg/L | 0.00009 | 0.00003 | 0.00004 | 0.00002 |
| Arsenic | Dissolved | mg/L | 0.0003 | 0.0065 | <0.0001 | 0.0001 |
| Barium | Dissolved | mg/L | 0.1121 | 0.2781 | 0.1082 | 0.0001 |
| Beryllium | Dissolved | mg/L | <0.00005 | <0.00005 | <0.00005 | 0.00005 |
| Bismuth | Dissolved | mg/L | <0.0001 | <0.0001 | <0.0001 | 0.0001 |
| Boron | Dissolved | mg/L | 0.008 | 0.002 | 0.004 | 0.002 |
| Cadmium | Dissolved | mg/L | <0.00001 | <0.00001 | <0.00001 | 0.00001 |
| Chromium | Dissolved | mg/L | <0.00005 | <0.00005 | <0.00005 | 0.00005 |
| Cobalt | Dissolved | mg/L | 0.00024 | <0.00002 | 0.00003 | 0.00002 |
| Copper | Dissolved | mg/L | <0.0005 | <0.0005 | <0.0005 | 0.0005 |
| Iron | Dissolved | mg/L | 1.61 | 0.629 | 0.051 | 0.002 |
| Lead | Dissolved | mg/L | <0.00001 | <0.00001 | 0.00002 | 0.00001 |
| Lithium | Dissolved | mg/L | 0.0027 | 0.0029 | 0.0023 | 0.0005 |
| Manganese | Dissolved | mg/L | 0.092 | 0.315 | 0.106 | 0.001 |
| Molybdenum | Dissolved | mg/L | 0.00133 | 0.00098 | 0.00081 | 0.00002 |



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1223968 |
|-------------|---------------------------|-------------------|-----------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | Campground Well | Control Number: | |
| | Whitehorse, YT, Canada | | Sampling | Date Received: | Aug 31, 2017 |
| | Y1A 2C6 | Project Location: | | Date Reported: | Sep 7, 2017 |
| Attn: | Accounts Payable | LSD: | 0 | Report Number: | 2218849 |
| Sampled By: | JDM | P.O.: | C00037999 | | |
| Company: | YG-Environmental | Proj. Acct. code: | | | |

| | | Reference Number | 1223968-5 | 1223968-6 | 1223968-7 | |
|---------------------------|------------------|--------------------|-----------------------------------|-----------------------------------|--------------------|----------------------------|
| | | Sample Date | Aug 29, 2017 | Aug 29, 2017 | Aug 28, 2017 | |
| | | Sample Time | 11:35 | 13:08 | 17:39 | |
| | | Sample Location | | | | |
| | | Sample Description | YOWN-0805 / 2017202 / 8 °C / M | YOWN-1512 / 2017203 / 8 °C / M | 2017204 / 8 °C / M | |
| | | Matrix | Water | Water | Water | |
| Analyte | | Units | Results | Results | Results | Nominal Detection Limit |
| Trace Metals Disso | Ived - Continued | | | | | |
| Nickel | Dissolved | mg/L | 0.0018 | < 0.0002 | 0.0009 | 0.0002 |
| Selenium | Dissolved | mg/L | 0.0005 | < 0.0002 | 0.0003 | 0.0002 |
| Silver | Dissolved | mg/L | <0.00001 | <0.00001 | <0.00001 | 0.00001 |
| Strontium | Dissolved | mg/L | 0.2356 | 0.2572 | 0.1629 | 0.0001 |
| Tellurium | Dissolved | mg/L | <0.00005 | <0.00005 | <0.00005 | 0.00005 |
| Thallium | Dissolved | mg/L | <0.00001 | <0.00001 | <0.00001 | 0.00001 |
| Thorium | Dissolved | mg/L | 0.00008 | 0.00010 | 0.00005 | 0.00005 |
| Tin | Dissolved | mg/L | <0.0001 | <0.0001 | <0.0001 | 0.0001 |
| Uranium | Dissolved | mg/L | 0.00109 | 0.00010 | 0.00038 | 0.00001 |
| Vanadium | Dissolved | mg/L | <0.00005 | <0.00005 | <0.00005 | 0.00005 |
| Zinc | Dissolved | mg/L | 0.0009 | 0.0403 | 0.0651 | 0.0005 |
| Zirconium | Dissolved | mg/L | <0.0001 | <0.0001 | <0.0001 | 0.0001 |

Analytical Report



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1223968 |
|-------------|---------------------------|-------------------|-----------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | Campground Well | Control Number: | |
| | Whitehorse, YT, Canada | Desired Levelies | Sampling | Date Received: | Aug 31, 2017 |
| | Y1A 2C6 | Project Location: | | Date Reported: | Sep 7, 2017 |
| Attn: | Accounts Payable | LSD: | 000037000 | Report Number: | 2218849 |
| Sampled By: | JDM | P.U.: | C00037999 | | |
| Company: | YG-Environmental | Proj. Acct. code: | | | |

Reference Number 1223968-7 Sample Date Aug 28, 2017 Sample Time 17:39 Sample Location 2017204 / 8 °C / M

| Matrix Water | | | | | | |
|--------------------|-------|-------|----------|---------|---------|----------------------------|
| Analyte | | Units | Results | Results | Results | Nominal Detection Limit |
| Metals Total | | | | | | |
| Calcium | Total | mg/L | 43 | | | 0.01 |
| Magnesium | Total | mg/L | 12 | | | 0.02 |
| Potassium | Total | mg/L | 0.93 | | | 0.04 |
| Silicon | Total | mg/L | 2.4 | | | 0.005 |
| Sulfur | Total | mg/L | 10 | | | 0.02 |
| Sodium | Total | mg/L | 2.1 | | | 0.1 |
| Titanium | Total | mg/L | 0.0097 | | | 0.002 |
| Trace Metals Total | | | | | | |
| Aluminum | Total | mg/L | <0.001 | | | 0.001 |
| Antimony | Total | mg/L | 0.00006 | | | 0.00002 |
| Arsenic | Total | mg/L | 0.0001 | | | 0.0001 |
| Barium | Total | mg/L | 0.13 | | | 0.0001 |
| Beryllium | Total | mg/L | <0.00005 | | | 0.00005 |
| Bismuth | Total | mg/L | <0.0001 | | | 0.0001 |
| Boron | Total | mg/L | 0.004 | | | 0.002 |
| Cadmium | Total | mg/L | 0.00003 | | | 0.00001 |
| Chromium | Total | mg/L | 0.00024 | | | 0.00005 |
| Cobalt | Total | mg/L | 0.00008 | | | 0.00002 |
| Copper | Total | mg/L | 0.0012 | | | 0.0002 |
| Iron | Total | mg/L | 1.5 | | | 0.002 |
| Lead | Total | mg/L | 0.00077 | | | 0.00001 |
| Lithium | Total | mg/L | 0.0024 | | | 0.0005 |
| Manganese | Total | mg/L | 0.12 | | | 0.001 |
| Molybdenum | Total | mg/L | 0.00092 | | | 0.00002 |
| Nickel | Total | mg/L | 0.0016 | | | 0.0002 |
| Selenium | Total | mg/L | 0.0003 | | | 0.0002 |
| Silver | Total | mg/L | <0.00001 | | | 0.00001 |
| Strontium | Total | mg/L | 0.18 | | | 0.0001 |
| Tellurium | Total | mg/L | <0.00005 | | | 0.00005 |
| Thallium | Total | mg/L | <0.00001 | | | 0.00001 |
| Thorium | Total | mg/L | 0.00012 | | | 0.00005 |
| Tin | Total | mg/L | 0.0001 | | | 0.0001 |
| Uranium | Total | mg/L | 0.00041 | | | 0.00001 |
| Vanadium | Total | mg/L | <0.00005 | | | 0.00005 |
| Zinc | Total | mg/L | 0.12 | | | 0.0005 |
| Zirconium | Total | mg/L | 0.0001 | | | 0.0001 |
T: +1 (604) 514-3322 F: +1 (604) 514-3323 E: Surrey@exova.com W: www.exova.com

Analytical Report



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1223968 |
|-------------|---------------------------|--------------------|-----------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | Campground Well | Control Number: | |
| | Whitehorse, YT, Canada | Drojant Lagation | Sampling | Date Received: | Aug 31, 2017 |
| | Y1A 2C6 | | | Date Reported: | Sep 7, 2017 |
| Attn: | Accounts Payable | | C00037000 | Report Number: | 2218849 |
| Sampled By: | JDM | Proi Acct code: | 000037333 | | |
| Company: | YG-Environmental | 1 10j. Acci. couc. | | | |

Approved by:

Carol Nam, Dipl. T. Quality Officer

Data have been validated by Analytical Quality Control and Exova's Integrated Data Validation System (IDVS). Generation and distribution of the report, and approval by the digitized signature above, are performed through a secure and controlled automatic process. Terms and Conditions: https://www.exova.com/media/1232/exova-canada-inc-standard-conditions-of-contract-short-form.pdf

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Quality Control

Date Acquired:

Organic Carbon

Inorganic carbon

Date Acquired:

Organic Carbon

Inorganic carbon

Date Acquired:

Date Acquired:

Phosphorus

Nitrogen

Nitrogen

September 05, 2017

September 05, 2017

mg/L

mg/L

mg/L

mg/L

mg/L

mg/L

mg/L

September 05, 2017

September 01, 2017



| | - | | | | | | | |
|---|--|----------|---|---|-------------|----------------|-------------------|-----------|
| Bill To: Y F V Y Attn: A Sampled By: J Company: Y | Bill To:YTG DOE - Water ResourcesProject ID:YOWNPO Box 2703Project Name:Campground Well SamplingWhitehorse, YT, Canada Y1A 2C6Project Location:Attn:Accounts PayableLSD:mpled By:JDMProj. Acct. code:YG-EnvironmentalProj. Acct. code: | | Lot IE Control Numbe Date Received Date Reported Report Numbe | h: 1223968 h: Aug 31, 2017 h: Sep 7, 2017 h: 2218849 | | | | |
| Inorganic Non | metallic Para | ameters | | | | | | |
| Blanks | U | nits | Measu | red | Lower Limit | Upper Limit | | Passed QC |
| Ammonium - N | l hố | g/L | -22. | 118 | -110.00 | 10.00 | | yes |
| Phosphorus | m | g/L | 0.0 | 007 | -0.003 | 0.003 | | yes |
| Date Acquired | d: September | 01, 2017 | | | | | | |
| Nitrogen | m | g/L | | 0 | -0.04 | 0.08 | | yes |
| Organic Carbo | n m | g/L | -0.02 | 245 | -0.5 | 0.5 | | yes |
| Inorganic carbo | on m | g/L | 0.1 | 712 | -0.5 | 0.5 | | yes |
| Date Acquired | d: September | 05, 2017 | | | | | | |
| Calibration Che | ck U | nits | % Recov | 'ery | Lower Limit | Upper Limit | | Passed QC |
| Ammonium - N | Ι μί | g/L | 97 | '.09 | 85 | 115 | | yes |
| Phosphorus | m | g/L | 99 | }.70 | 90 | 110 | | yes |
| Date Acquired | d: September | 01, 2017 | | | | | | |
| Ammonium - N | μ | g/L | 81 | .91 | 70 | 130 | | yes |
| Phosphorus | m | g/L | 112 | 2.00 | 80 | 120 | | yes |
| Date Acquired | d: September | 01, 2017 | | | | | | |
| Client Sample R | eplicates U | nits | Replicat | te 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Nitrogen | m | g/L | 4 | 1.55 | 4.62 | 10 | 0.06 | yes |
| Organic Carbo | n m | g/L | < | <0.5 | <0.5 | 10 | 1.0 | yes |
| Inorganic carbo | on m | g/L | | 10 | 10 | 10 | 1.0 | yes |
| Date Acquired | d: September | 05, 2017 | | | | | | |
| Ammonia - N | m | g/L | C |).12 | 0.12 | 20 | 50.00 | yes |
| Date Acquired | d: September | 05, 2017 | | | | | | |
| Control Sample | U | nits | Measu | red | Lower Limit | Upper Limit | | Passed QC |
| Organic Carbo | n m | g/L | < | <0.5 | -0.5 | 0.5 | | yes |
| Date Acquired | d: September | 01, 2017 | | | | | | - |
| Nitrogen | m | g/L | | 120 | 103.74 | 137.28 | | ves |
| Organic Carbo | n m | g/L | | 123 | 109.1 | 139.7 | | yes |
| Inorganic carbo | on m | g/L | 4 | 15.2 | 40.5 | 55.5 | | yes |

| Metals Dissolved | | | | | | | | |
|------------------|-------|----------|-------------|-------------|-----------|--|--|--|
| Blanks | Units | Measured | Lower Limit | Upper Limit | Passed QC | | | |
| Mercury | ng/L | 0 | -9.99 | 9.99 | yes | | | |

16.2

15.0

15.9

1.14

2.9

3.0

0.459

13.27

12.8

14.1

0.89

2.4

2.7

0.389

16.93

17.2

18.3

1.25

4.0

4.1

0.503

yes

yes

yes

yes yes

yes

yes

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Quality Control



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1223968 |
|-------------|---------------------------|---------------------------|-----------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | Campground Well | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: LSD: | Sampling | Date Received: | Aug 31, 2017 |
| | Y1A 2C6 | | | Date Reported: | Sep 7, 2017 |
| Attn: | Accounts Payable | | | Report Number: | 2218849 |
| Sampled By: | JDM | P.O.: | C00037999 | | |
| Company: | YG-Environmental | Proj. Acct. code: | | | |

Metals Dissolved - Continued

| Blanks | Units | Measured | Lower Limit | Upper Limit | | Passed QC |
|---------------------|--------------------|-------------|-------------|----------------|-------------------|-----------|
| Date Acquired: | September 05, 2017 | | | | | |
| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | | Passed QC |
| Mercury | ng/L | 109.60 | 90 | 110 | | yes |
| Date Acquired: | September 05, 2017 | | | | | |
| Certified Reference | e Material Units | Measured | Target | Lower Limit | Upper Limit | Passed QC |
| Mercury | μg/L | 0.03 | 0.04 | 0.02 | 0.05 | yes |
| Date Acquired: | September 05, 2017 | | | | | |
| Client Sample Repl | licates Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Mercury | μg/L | <0.01 | <0.01 | 20 | 0.05 | yes |
| Date Acquired: | September 05, 2017 | | | | | |

Metals Total

| Blanks | Units | Measured | Lower Limit | Upper Limit | | Passed QC |
|----------------------|--------------------|-------------|-------------|----------------|-------------------|-----------|
| Calcium | mg/L | -0.00205802 | -0.010 | 0.010 | | yes |
| Magnesium | mg/L | -0.00260972 | -0.020 | 0.020 | | yes |
| Potassium | mg/L | 0.00389473 | -0.040 | 0.040 | | yes |
| Silicon | mg/L | 0.00366344 | -0.005 | 0.005 | | yes |
| Sodium | mg/L | 0.0178046 | -0.099 | 0.099 | | yes |
| Date Acquired: | September 01, 2017 | | | | | |
| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | | Passed QC |
| Calcium | mg/L | 101.89 | 90 | 110 | | yes |
| Magnesium | mg/L | 103.92 | 90 | 110 | | yes |
| Potassium | mg/L | 101.72 | 90 | 110 | | yes |
| Silicon | mg/L | 100.40 | 90 | 110 | | yes |
| Sodium | mg/L | 101.45 | 90 | 110 | | yes |
| Titanium | mg/L | 99.06 | 90 | 110 | | yes |
| Date Acquired: | September 01, 2017 | | | | | |
| Calcium | mg/L | 104.76 | 90 | 110 | | yes |
| Magnesium | mg/L | 109.40 | 90 | 110 | | yes |
| Potassium | mg/L | 102.76 | 90 | 110 | | yes |
| Silicon | mg/L | 102.97 | 90 | 110 | | yes |
| Sodium | mg/L | 102.74 | 90 | 110 | | yes |
| Titanium | mg/L | 103.67 | 90 | 110 | | yes |
| Date Acquired: | September 01, 2017 | | | | | |
| Client Sample Replic | ates Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Calcium | mg/L | 77 | 77 | 20 | 0.050 | yes |
| Magnesium | mg/L | 19 | 19 | 20 | 0.050 | yes |
| Potassium | mg/L | 1.7 | 1.7 | 20 | 0.100 | yes |

4.5

6.6

4.5

6.5

20

20

0.100

0.100

yes

yes

Date Acquired: September 01, 2017

Silicon

Sodium

Mono-Aromatic Hydrocarbons - Water

mg/L

mg/L

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Quality Control



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1223968 |
|-------------|---------------------------|-------------------|-----------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | Campground Well | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Sampling | Date Received: | Aug 31, 2017 |
| | Y1A 2C6 | | | Date Reported: | Sep 7, 2017 |
| Attn: | Accounts Payable | LSD: | 000007000 | Report Number: | 2218849 |
| Sampled By: | JDM | P.U.: | C00037999 | | |
| Company: | YG-Environmental | Proj. Acct. code: | | | |

Mono-Aromatic Hydrocarbons - Water

| Blanks | Units | Measured | Lower Limit | Upper Limit | | Passed QC |
|-----------------------|---------------|-------------|-------------|----------------|-------------------|-----------|
| Benzene | ng | 0 | -0.5 | 0.5 | | yes |
| Ethylbenzene | ng | 0 | -0.5 | 0.5 | | yes |
| Methyl t-Butyl Ether | ng | 0 | -0.5 | 0.5 | | yes |
| m,p-Xylene | ng | 0 | -0.5 | 0.5 | | yes |
| o-Xylene | ng | 0 | -0.5 | 0.5 | | yes |
| Styrene | ng | 0 | -0.5 | 0.5 | | yes |
| Toluene | ng | 0 | -0.5 | 0.5 | | yes |
| Total Xylenes (m,p,o) | ng | 0 | -0.5 | 0.5 | | yes |
| Dibromofluoromethane | % | 97.86 | 74.990 | 115.010 | | yes |
| Toluene-d8 | % | 105.98 | 80.000 | 110.000 | | yes |
| 4-Bromofluorobenzene | % | 99.58 | 85.000 | 115.000 | | yes |
| Date Acquired: Septem | nber 01, 2017 | | | | | |
| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | | Passed QC |
| Benzene | ng | 115.09 | 75 | 125 | | yes |
| Ethylbenzene | ng | 110.64 | 75 | 125 | | yes |
| Methyl t-Butyl Ether | ng | 80.71 | 75 | 125 | | yes |
| m,p-Xylene | ng | 120.12 | 75 | 125 | | yes |
| o-Xylene | ng | 109.82 | 75 | 125 | | yes |
| Styrene | ng | 107.59 | 75 | 125 | | yes |
| Toluene | ng | 119.15 | 75 | 125 | | yes |
| Total Xylenes (m,p,o) | ng | 116.69 | 75 | 125 | | yes |
| Date Acquired: Septer | nber 01, 2017 | | | | | |
| Replicates | Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Benzene | µg/L | <0.5 | <0.5 | 20 | 2.5 | yes |
| Ethylbenzene | µg/L | <0.5 | <0.5 | 20 | 2.5 | yes |
| Methyl t-Butyl Ether | µg/L | <0.5 | <0.5 | 20 | 2.5 | yes |
| m,p-Xylene | µg/L | <0.5 | <0.5 | 20 | 2.5 | yes |
| o-Xylene | µg/L | <0.5 | <0.5 | 20 | 2.5 | yes |
| Styrene | µg/L | <0.5 | <0.5 | 20 | 2.5 | yes |
| Toluene | µg/L | <0.5 | <0.5 | 20 | 2.5 | yes |
| Total Xylenes (m,p,o) | µg/L | <0.5 | <0.5 | 20 | 2.5 | yes |
| Date Acquired: Septer | nber 01, 2017 | | | | | |
| Matrix Spike | Units | % Recovery | Lower Limit | Upper Limit | | Passed QC |
| Benzene | µg/L | 119 | 75 | 125 | | yes |
| Ethylbenzene | µg/L | 93 | 75 | 125 | | yes |
| Methyl t-Butyl Ether | µg/L | 82 | 75 | 125 | | yes |
| m,p-Xylene | µg/L | 96 | 75 | 125 | | yes |
| o-Xylene | µg/L | 110 | 75 | 125 | | yes |
| Styrene | µg/L | 93 | 75 | 125 | | yes |
| Toluene | µg/L | 108 | 75 | 125 | | yes |
| Total Xylenes (m,p,o) | µg/L | 101 | 75 | 125 | | yes |
| Date Acquired: Septer | nber 01, 2017 | | | | | |

Routine Water

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Quality Control



| Bill To: | YTG DOE - Water Resources PO Box 2703 Whitehorse, YT, Canada Y1A 2C6 | Project ID: Project Name: Project Location: | : YOWN ame: Campground Well Sampling ocation: | | Lot ID: Control Number: Date Received: Date Reported: | 1223968 Aug 31, 2017 Sep 7, 2017 | |
|----------------|---|---|--|-------------|--|---|-----------|
| Attn: | Accounts Payable | LSD: | | | Report Number: | 2218849 | |
| Sampled By: | JDM | P.O.: | C0003 | 37999 | | | |
| Company: | Company: YG-Environmental | | | | | | |
| Routine Wate | er | | | | | | |
| Blanks | Units | Measu | ed | Lower Limit | Upper Limit | | Passed QC |
| Calcium | mg/L | -0.005422 | 283 | -0.010 | 0.010 | | ves |
| Magnesium | mg/L | -0.003713 | 848 | -0.020 | 0.020 | | yes |
| Potassium | mg/L | 0.01315 | 529 | -0.040 | 0.040 | | yes |
| Silicon | mg/L | 0.003065 | 36 | -0.005 | 0.005 | | yes |
| Sodium | mg/L | 0.01940 | 42 | -0.099 | 0.099 | | yes |
| Date Acqui | red: September 01, 2017 | | | | | | |
| Nitrate - N | mg/L | | 0 | -0.01 | 0.01 | | yes |
| Nitrite - N | mg/L | | 0 | -0.005 | 0.005 | | yes |
| Date Acqui | red: September 05, 2017 | | | | | | |
| Bromide | ma/L | | 0 | -0.099 | 0.099 | | ves |
| Chloride | ma/L | 0.02937 | 28 | -0.201 | 0.201 | | ves |
| Fluoride | mg/L | 0.01522 | 32 | -0.099 | 0.099 | | yes |
| Sulfate (SO4 | 4) mg/L | 0.0356 | 609 | -0.990 | 0.990 | | yes |
| Date Acqui | red: September 01, 2017 | | | | | | |
| Calibration Cl | heck Units | % Recov | erv | Lower Limit | Upper Limit | | Passed QC |
| Calcium | mg/L | 98 | .02 | 90 | 110 | | yes |
| Magnesium | mg/L | 101 | .28 | 90 | 110 | | yes |
| Potassium | mg/L | 100 | .68 | 90 | 110 | | yes |
| Silicon | mg/L | 92 | .31 | 90 | 110 | | yes |
| Sodium | mg/L | 93 | .64 | 90 | 110 | | yes |
| Date Acqui | red: September 01, 2017 | | | | | | |
| Bromide | mg/L | 101 | .83 | 90 | 110 | | yes |
| Chloride | mg/L | 98 | .11 | 85 | 115 | | yes |
| Fluoride | mg/L | 108 | .79 | 85 | 115 | | yes |
| Sulfate (SO4 | 4) mg/L | 89 | .58 | 85 | 115 | | yes |
| Date Acqui | red: September 01, 2017 | | | | | | |
| Bromide | mg/L | 102 | .03 | 90 | 110 | | yes |
| Chloride | mg/L | 97 | .93 | 90 | 110 | | yes |
| Fluoride | mg/L | 96 | .40 | 89 | 109 | | yes |
| Sulfate (SO4 | 4) mg/L | 99 | .02 | 90 | 110 | | yes |
| Date Acqui | red: September 01, 2017 | | | | | | |
| Calcium | mg/L | 99 | .90 | 90 | 110 | | yes |
| Magnesium | mg/L | 104 | .70 | 90 | 110 | | yes |
| Potassium | mg/L | 103 | .17 | 90 | 110 | | yes |
| Sodium | mg/L | 97 | .88 | 90 | 110 | | yes |
| Date Acqui | red: September 01, 2017 | | | | | | |
| Client Sample | Replicates Units | Replicat | e 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Nitrate - N | mg/L | 0 | .02 | 0.02 | 10 | 0.01 | yes |
| Nitrite - N | mg/L | <0.0 | 05 | <0.005 | 10 | 0.010 | yes |
| Date Acqui | red: September 05, 2017 | | | | | | |
| Calcium | mg/L | | 60 | 60 | 30 | 1.000 | yes |
| Magnesium | mg/L | | 18 | 18 | 30 | 1.000 | yes |
| | | | | | | | |

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Quality Control



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1223968 |
|-------------|---------------------------|-------------------|-----------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | Campground Well | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Sampling | Date Received: | Aug 31, 2017 |
| | Y1A 2C6 | | | Date Reported: | Sep 7, 2017 |
| Attn: | Accounts Payable | LSD: | 000027000 | Report Number: | 2218849 |
| Sampled By: | JDM | P.U.: | C00037999 | | |
| Company: | YG-Environmental | Proj. Acct. code: | | | |

Routine Water - Continued

| Client Sample Repli | cates | Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
|-----------------------|--------|--------------|-------------|-------------|----------------|-------------------|-----------|
| Potassium | | mg/L | 3.6 | 3.6 | 30 | 1.000 | yes |
| Silicon | | mg/L | 4.7 | 4.7 | 30 | 0.150 | yes |
| Sodium | | mg/L | 14 | 14 | 30 | 1.000 | yes |
| Sulfur | | mg/L | 18 | 17 | 30 | 3.000 | yes |
| Date Acquired: | Septem | ber 01, 2017 | | | | | |
| Hardness | | mg CaCO3/L | 270 | 270 | 20 | 1.000 | yes |
| Date Acquired: | Septem | ber 01, 2017 | | | | | |
| Control Sample | | Units | Measured | Lower Limit | Upper Limit | | Passed QC |
| Nitrate - N | | mg/L | 10.2 | 9.68 | 10.68 | | yes |
| Nitrite - N | | mg/L | 10.2 | 9.460 | 10.600 | | yes |
| Nitrate and Nitrite - | N | mg/L | 20.4 | 19.27 | 20.97 | | yes |
| Date Acquired: | Septem | ber 05, 2017 | | | | | |
| Nitrate - N | | mg/L | 4.80 | 4.51 | 5.26 | | yes |
| Nitrite - N | | mg/L | 5.02 | 4.548 | 5.352 | | yes |
| Nitrate and Nitrite - | N | mg/L | 9.83 | 9.22 | 10.58 | | yes |
| Date Acquired: | Septem | ber 05, 2017 | | | | | |
| Nitrate - N | | mg/L | 0.50 | 0.42 | 0.57 | | yes |
| Nitrite - N | | mg/L | 0.522 | 0.438 | 0.552 | | yes |
| Nitrate and Nitrite - | N | mg/L | 1.03 | 0.89 | 1.07 | | yes |
| Date Acquired: | Septem | ber 05, 2017 | | | | | |

Trace Metals Dissolved

| Blanks | Units | Measured | Lower Limit | Upper Limit | Passed QC |
|------------|-------|--------------|-------------|-------------|-----------|
| Aluminum | µg/L | 0 | -0.990 | 0.990 | yes |
| Antimony | µg/L | 0.0022763 | -0.020 | 0.020 | yes |
| Arsenic | µg/L | 0.00429312 | -0.099 | 0.099 | yes |
| Barium | µg/L | -0.0402786 | -0.099 | 0.099 | yes |
| Beryllium | µg/L | -7.912e-005 | -0.050 | 0.050 | yes |
| Bismuth | µg/L | -0.00198089 | -0.099 | 0.099 | yes |
| Boron | µg/L | -1.12834 | -2.001 | 2.001 | yes |
| Cadmium | µg/L | -0.00388357 | -0.010 | 0.010 | yes |
| Chromium | µg/L | 0 | -0.050 | 0.050 | yes |
| Cobalt | µg/L | -0.000299852 | -0.020 | 0.020 | yes |
| Copper | µg/L | -0.00213618 | -0.050 | 0.050 | yes |
| Iron | µg/L | 0.487405 | -2.001 | 2.001 | yes |
| Lead | µg/L | 0 | -0.010 | 0.010 | yes |
| Lithium | µg/L | -0.00776323 | -0.500 | 0.500 | yes |
| Manganese | µg/L | -0.201246 | -0.990 | 0.990 | yes |
| Molybdenum | µg/L | 0.00238097 | -0.020 | 0.020 | yes |
| Nickel | µg/L | -0.122969 | -0.200 | 0.200 | yes |
| Selenium | µg/L | 0.00223545 | -0.200 | 0.200 | yes |
| Silver | µg/L | -0.000258742 | -0.009 | 0.009 | yes |
| Strontium | µg/L | -0.0417185 | -0.099 | 0.099 | yes |

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Quality Control



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1223968 |
|-------------|---------------------------|-------------------|-----------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | Campground Well | Control Number: | |
| | Whitehorse, YT, Canada | Desired Levelies | Sampling | Date Received: | Aug 31, 2017 |
| | Y1A 2C6 | Project Location: | | Date Reported: | Sep 7, 2017 |
| Attn: | Accounts Payable | LSD: | C00027000 | Report Number: | 2218849 |
| Sampled By: | JDM | P.U.: | C00037999 | | |
| Company: | YG-Environmental | Proj. Acci. code: | | | |

Trace Metals Dissolved - Continued

| Blanks | Units | Measured | Lower Limit | Upper Limit | Passed QC |
|-------------------|--------------------|--------------|-------------|-------------|-----------|
| Tellurium | μg/L | -0.00469025 | -0.050 | 0.050 | yes |
| Thallium | μg/L | -0.00261748 | -0.010 | 0.010 | yes |
| Thorium | μg/L | 0.0164483 | -0.050 | 0.050 | yes |
| Tin | μg/L | 0.00170287 | -0.099 | 0.099 | yes |
| Titanium | μg/L | 0.0488188 | -0.099 | 0.099 | yes |
| Uranium | μg/L | -0.00180158 | -0.010 | 0.010 | yes |
| Vanadium | μg/L | 0.046059 | -0.050 | 0.050 | yes |
| Zinc | μg/L | 0.242287 | -0.500 | 0.500 | yes |
| Zirconium | μg/L | -0.000739905 | -0.099 | 0.099 | yes |
| Date Acquired: | September 01, 2017 | | | | |
| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | Passed QC |
| Titanium | mg/L | 93.02 | 90 | 110 | yes |
| Date Acquired: | September 01, 2017 | | | | |
| Aluminum | µg/L | 95.76 | 80 | 120 | yes |
| Antimony | μg/L | 93.89 | 90 | 110 | yes |
| Arsenic | μg/L | 94.97 | 90 | 110 | yes |
| Barium | μg/L | 94.72 | 90 | 110 | yes |
| Beryllium | μg/L | 95.89 | 90 | 110 | yes |
| Boron | μg/L | 97.77 | 70 | 130 | yes |
| Cadmium | μg/L | 93.74 | 90 | 110 | yes |
| Chromium | μg/L | 96.78 | 90 | 110 | yes |
| Cobalt | μg/L | 93.74 | 90 | 110 | yes |
| Copper | μg/L | 98.13 | 90 | 110 | yes |
| Lead | μg/L | 100.88 | 90 | 110 | yes |
| Lithium | μg/L | 91.97 | 90 | 110 | yes |
| Molybdenum | μg/L | 92.31 | 90 | 110 | yes |
| Nickel | μg/L | 97.06 | 90 | 110 | yes |
| Selenium | μg/L | 94.64 | 90 | 110 | yes |
| Silver | μg/L | 92.91 | 90 | 110 | yes |
| Strontium | μg/L | 94.54 | 90 | 110 | yes |
| Thorium | μg/L | 96.92 | 90 | 110 | yes |
| Tin | μg/L | 93.34 | 90 | 110 | yes |
| Titanium | μg/L | 91.38 | 90 | 110 | yes |
| Uranium | μg/L | 95.17 | 90 | 110 | yes |
| Vanadium | μg/L | 96.99 | 90 | 110 | yes |
| Zinc | μg/L | 100.87 | 90 | 110 | yes |
| Date Acquired: | September 01, 2017 | | | | |
| Aluminum | μg/L | 91.11 | 80 | 120 | yes |
| Antimony | μg/L | 90.92 | 90 | 110 | yes |
| Arsenic | μg/L | 93.10 | 90 | 110 | yes |
| Barium | μg/L | 95.26 | 90 | 110 | yes |
| Beryllium | μg/L | 95.07 | 90 | 110 | yes |
| Boron | µg/L | 101.28 | 80 | 120 | yes |

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Quality Control



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1223968 | |
|-------------|---------------------------|-------------------|-----------------|-----------------|--------------|--|
| | PO Box 2703 | Project Name: | Campground Well | Control Number: | | |
| | Whitehorse, YT, Canada | | Sampling | Date Received: | Aug 31, 2017 | |
| | Y1A 2C6 | Project Location: | | Date Reported: | Sep 7, 2017 | |
| Attn: | Accounts Payable | LSD: | | Report Number: | 2218849 | |
| Sampled By: | JDM | P.O.: | C00037999 | | | |
| Company: | YG-Environmental | Proj. Acct. code: | | | | |

Trace Metals Dissolved - Continued

| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | | Passed QC |
|-------------------|--------------------|-------------|-------------|----------------|-------------------|-----------|
| Cadmium | μg/L | 98.37 | 90 | 110 | | yes |
| Chromium | μg/L | 93.25 | 90 | 110 | | yes |
| Cobalt | μg/L | 92.09 | 90 | 110 | | yes |
| Copper | μg/L | 94.10 | 90 | 110 | | yes |
| Lead | μg/L | 99.92 | 90 | 110 | | yes |
| Lithium | μg/L | 93.97 | 90 | 110 | | yes |
| Molybdenum | μg/L | 93.82 | 90 | 110 | | yes |
| Nickel | μg/L | 96.30 | 90 | 110 | | yes |
| Selenium | μg/L | 96.38 | 90 | 110 | | yes |
| Silver | μg/L | 96.51 | 90 | 110 | | yes |
| Strontium | μg/L | 94.03 | 90 | 110 | | yes |
| Thallium | μg/L | 99.35 | 90 | 110 | | yes |
| Thorium | μg/L | 104.64 | 86 | 122 | | yes |
| Tin | μg/L | 93.09 | 90 | 110 | | yes |
| Titanium | μg/L | 92.48 | 90 | 110 | | yes |
| Uranium | μg/L | 97.00 | 90 | 110 | | yes |
| Vanadium | μg/L | 93.42 | 90 | 110 | | yes |
| Zinc | μg/L | 91.38 | 90 | 110 | | yes |
| Date Acquired: | September 01, 2017 | | | | | |
| Client Sample Rep | licates Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Aluminum | μg/L | <1 | 1 | 20 | 20.000 | yes |
| Antimony | μg/L | 0.16 | 0.21 | 20 | 1.000 | yes |
| Arsenic | μg/L | 0.4 | 0.4 | 20 | 1.000 | yes |
| Barium | μg/L | 66.7 | 67.5 | 20 | 5.000 | yes |
| Beryllium | μg/L | <0.05 | <0.05 | 20 | 1.000 | yes |
| Boron | μg/L | 32 | 34 | 20 | 5.000 | yes |
| Cadmium | μg/L | <0.01 | <0.01 | 20 | 0.500 | yes |
| Chromium | μg/L | <0.05 | <0.05 | 20 | 5.000 | yes |
| Cobalt | μg/L | 0.04 | 0.04 | 20 | 0.500 | yes |
| Copper | μg/L | 6.6 | 6.6 | 20 | 5.000 | yes |
| Iron | μg/L | <2 | <2 | 20 | 50.000 | yes |
| Lead | µg/L | <0.01 | <0.01 | 20 | 0.500 | yes |
| Lithium | μg/L | 1.4 | 1.2 | 20 | 5.000 | yes |
| Manganese | µg/L | <1 | <1 | 20 | 0.500 | yes |
| Molybdenum | µg/L | 5.29 | 5.25 | 20 | 0.500 | yes |
| Nickel | µg/L | 0.9 | 0.4 | 20 | 5.000 | yes |
| Selenium | μg/L | 0.3 | 0.4 | 20 | 0.500 | yes |
| Silver | μg/L | <0.01 | <0.01 | 20 | 0.500 | yes |
| Strontium | µg/L | 599.9 | 601.3 | 20 | 0.500 | yes |
| Tellurium | μg/L | <0.05 | <0.05 | 20 | 0.500 | yes |
| Thallium | μg/L | <0.01 | <0.01 | 20 | 0.100 | yes |
| Thorium | μg/L | 0.25 | 0.25 | 20 | 0.100 | yes |
| Tin | μg/L | <0.1 | <0.1 | 20 | 0.500 | yes |
| Titanium | µg/L | 0.2 | 0.2 | 20 | 0.500 | yes |

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Quality Control



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1223968 |
|-------------|---------------------------|-------------------|-----------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | Campground Well | Control Number: | |
| | Whitehorse, YT, Canada | | Sampling | Date Received: | Aug 31, 2017 |
| | Y1A 2C6 | Project Location: | | Date Reported: | Sep 7, 2017 |
| Attn: | Accounts Payable | LSD: | | Report Number: | 2218849 |
| Sampled By: | JDM | P.O.: | C00037999 | | |
| Company: | YG-Environmental | Proj. Acct. code: | | | |

Trace Metals Dissolved - Continued

| Client Sample Repl | licates Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
|--------------------|--------------------|-------------|-------------|----------------|-------------------|-----------|
| Uranium | μg/L | 1.77 | 1.73 | 20 | 0.100 | yes |
| Vanadium | μg/L | 0.32 | 0.30 | 20 | 0.500 | yes |
| Zinc | μg/L | 3.4 | 3.3 | 20 | 5.000 | yes |
| Zirconium | μg/L | 0.8 | 1.2 | 20 | 0.500 | yes |
| Date Acquired: | September 01, 2017 | | | | | |
| Titanium | mg/L | 0.014 | 0.014 | 30 | 0.012 | yes |
| Date Acquired: | September 01, 2017 | | | | | |

Trace Metals Total

| Blanks | Units | Measured | Lower Limit | Upper Limit | Passed QC |
|-------------------|--------------------|--------------|-------------|-------------|-----------|
| Aluminum | µg/L | 0.829204 | -0.990 | 0.990 | yes |
| Antimony | µg/L | 0.00934363 | -0.020 | 0.020 | yes |
| Arsenic | µg/L | 0.00366507 | -0.099 | 0.099 | yes |
| Barium | µg/L | 0.0156025 | -0.099 | 0.099 | yes |
| Beryllium | µg/L | 0.000578314 | -0.050 | 0.050 | yes |
| Bismuth | µg/L | -0.0102632 | -0.099 | 0.099 | yes |
| Boron | µg/L | 0.585916 | -2.001 | 2.001 | yes |
| Cadmium | µg/L | 0.00113134 | -0.010 | 0.010 | yes |
| Chromium | µg/L | -0.0393044 | -0.050 | 0.050 | yes |
| Cobalt | µg/L | -0.00381572 | -0.020 | 0.020 | yes |
| Copper | µg/L | 0.0328885 | -0.501 | 0.501 | yes |
| Iron | µg/L | 0.135075 | -2.001 | 2.001 | yes |
| Lead | µg/L | 0.00863158 | -0.010 | 0.010 | yes |
| Lithium | µg/L | -0.0212596 | -0.501 | 0.501 | yes |
| Manganese | µg/L | 0.0257725 | -0.990 | 0.990 | yes |
| Molybdenum | µg/L | -0.00751555 | -0.020 | 0.020 | yes |
| Nickel | µg/L | 0.177143 | -0.201 | 0.201 | yes |
| Selenium | µg/L | 0.0198337 | -0.201 | 0.201 | yes |
| Silver | µg/L | -0.00213124 | -0.010 | 0.010 | yes |
| Strontium | µg/L | 0.02898 | -0.099 | 0.099 | yes |
| Tellurium | µg/L | -0.00549305 | -0.050 | 0.050 | yes |
| Thallium | µg/L | -0.000641092 | -0.010 | 0.010 | yes |
| Thorium | µg/L | -0.011832 | -0.050 | 0.050 | yes |
| Tin | µg/L | 0.0737179 | -0.099 | 0.099 | yes |
| Titanium | µg/L | 0.0764991 | -0.099 | 0.099 | yes |
| Uranium | µg/L | -0.00101481 | -0.099 | 0.099 | yes |
| Vanadium | µg/L | -0.0162611 | -0.050 | 0.050 | yes |
| Zinc | µg/L | 0.0456715 | -0.501 | 0.501 | yes |
| Zirconium | µg/L | -0.0467538 | -0.099 | 0.099 | yes |
| Date Acquired: | September 01, 2017 | | | | |
| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | Passed QC |
| Aluminum | μg/L | 92.61 | 80 | 120 | yes |
| Antimony | µg/L | 96.12 | 90 | 110 | yes |
| Arsenic | μg/L | 101.95 | 90 | 110 | yes |
| | | | | | |

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Quality Control



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1223968 |
|-------------|---------------------------|-------------------|-----------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | Campground Well | Control Number: | |
| | Whitehorse, YT, Canada | | Sampling | Date Received: | Aug 31, 2017 |
| | Y1A 2C6 | Project Location: | | Date Reported: | Sep 7, 2017 |
| Attn: | Accounts Payable | LSD: | 000007000 | Report Number: | 2218849 |
| Sampled By: | JDM | P.O.: | C00037999 | | |
| Company: | YG-Environmental | Proj. Acct. code: | | | |

Trace Metals Total - Continued

| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | Passed QC |
|--------------------------|--------------------|------------|-------------|-------------|-----------|
| Barium | µg/L | 104.33 | 90 | 110 | yes |
| Beryllium | µg/L | 101.85 | 90 | 110 | yes |
| Boron | µg/L | 101.06 | 70 | 130 | yes |
| Cadmium | µg/L | 102.98 | 90 | 110 | yes |
| Chromium | µg/L | 102.68 | 90 | 110 | yes |
| Cobalt | µg/L | 99.77 | 90 | 110 | yes |
| Copper | µg/L | 100.09 | 90 | 110 | yes |
| Lead | µg/L | 107.26 | 90 | 110 | yes |
| Lithium | µg/L | 101.91 | 90 | 110 | yes |
| Molybdenum | µg/L | 102.52 | 90 | 110 | yes |
| Nickel | µg/L | 106.82 | 90 | 110 | yes |
| Selenium | µg/L | 106.75 | 90 | 110 | yes |
| Silver | µg/L | 103.20 | 90 | 110 | yes |
| Strontium | µg/L | 100.02 | 90 | 110 | yes |
| Thallium | µg/L | 109.26 | 90 | 110 | yes |
| Thorium | µg/L | 109.75 | 90 | 110 | yes |
| Tin | µg/L | 106.76 | 90 | 110 | yes |
| Titanium | µg/L | 101.77 | 90 | 110 | yes |
| Uranium | µg/L | 103.77 | 90 | 110 | yes |
| Vanadium | µg/L | 99.69 | 90 | 110 | yes |
| Zinc | µg/L | 103.92 | 90 | 110 | yes |
| Date Acquired: | September 01, 2017 | | | | |
| Aluminum | µg/L | 96.59 | 80 | 120 | yes |
| Antimony | µg/L | 96.21 | 90 | 110 | yes |
| Arsenic | µg/L | 99.02 | 90 | 110 | yes |
| Barium | µg/L | 103.07 | 90 | 110 | yes |
| Beryllium | µg/L | 103.18 | 90 | 110 | yes |
| Boron | µg/L | 101.27 | 80 | 120 | yes |
| Cadmium | µg/L | 105.27 | 90 | 110 | yes |
| Chromium | µg/L | 101.04 | 90 | 110 | yes |
| Cobalt | µg/L | 97.55 | 90 | 110 | yes |
| Copper | µg/L | 96.37 | 90 | 110 | yes |
| Lead | µg/L | 104.38 | 90 | 110 | yes |
| Lithium | µg/L | 101.56 | 90 | 110 | yes |
| Molybdenum | µg/L | 101.60 | 90 | 110 | yes |
| Nickel | µg/L | 97.63 | 90 | 110 | yes |
| Selenium | µg/L | 101.85 | 90 | 110 | yes |
| Silver | µg/L | 104.89 | 90 | 110 | yes |
| Strontium | µg/L | 101.15 | 90 | 110 | yes |
| Thallium | µg/L | 106.23 | 90 | 110 | yes |
| Thorium | µg/L | 105.53 | 90 | 110 | yes |
| Tin | µg/L | 99.71 | 90 | 110 | yes |
| Titanium | µg/L | 99.23 | 90 | 110 | yes |
| Uranium | µg/L | 102.33 | 90 | 110 | yes |
| | | | | | |

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Quality Control



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1223968 |
|-------------|---------------------------|-------------------|-----------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | Campground Well | Control Number: | |
| | Whitehorse, YT, Canada | | Sampling | Date Received: | Aug 31, 2017 |
| | Y1A 2C6 | Project Location: | | Date Reported: | Sep 7, 2017 |
| Attn: | Accounts Payable | LSD: | 000007000 | Report Number: | 2218849 |
| Sampled By: | JDM | P.O.: | C00037999 | | |
| Company: | YG-Environmental | Proj. Acct. code: | | | |

Trace Metals Total - Continued

| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | | Passed QC |
|-------------------|--------------------|-------------|-------------|----------------|-------------------|-----------|
| Vanadium | μg/L | 97.73 | 90 | 110 | | yes |
| Zinc | μg/L | 90.23 | 90 | 110 | | yes |
| Date Acquired: | September 01, 2017 | | | | | |
| Client Sample Rep | licates Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Aluminum | μg/L | 8 | 9 | 20 | 100.000 | yes |
| Antimony | μg/L | 0.08 | 0.15 | 20 | 2.000 | yes |
| Arsenic | μg/L | 2.5 | 2.5 | 20 | 2.000 | yes |
| Barium | μg/L | 290 | 290 | 20 | 10.000 | yes |
| Beryllium | μg/L | <0.05 | <0.05 | 20 | 0.400 | yes |
| Boron | μg/L | 4 | 4 | 20 | 40.000 | yes |
| Cadmium | μg/L | 0.01 | 0.02 | 20 | 0.100 | yes |
| Chromium | μg/L | <0.05 | <0.05 | 20 | 6.000 | yes |
| Cobalt | μg/L | 0.05 | 0.05 | 20 | 0.200 | yes |
| Copper | μg/L | 0.4 | 0.5 | 20 | 5.000 | yes |
| Iron | μg/L | 3200 | 3200 | 20 | 100.000 | yes |
| Lead | μg/L | 2.1 | 2.1 | 20 | 1.000 | yes |
| Lithium | μg/L | 9.1 | 9.1 | 20 | 10.000 | yes |
| Manganese | μg/L | 140 | 130 | 20 | 1.000 | yes |
| Molybdenum | μg/L | 3.8 | 3.8 | 20 | 0.200 | yes |
| Nickel | μg/L | 0.2 | 0.2 | 20 | 10.000 | yes |
| Selenium | μg/L | <0.2 | <0.2 | 20 | 5.000 | yes |
| Silver | μg/L | <0.01 | <0.01 | 20 | 0.100 | yes |
| Strontium | μg/L | 660 | 660 | 20 | 10.000 | yes |
| Tellurium | μg/L | <0.05 | <0.05 | 20 | 0.500 | yes |
| Thallium | μg/L | <0.01 | <0.01 | 20 | 0.100 | yes |
| Thorium | μg/L | 0.44 | 0.76 | 20 | 1.000 | yes |
| Tin | μg/L | <0.1 | 0.1 | 20 | 1.000 | yes |
| Titanium | μg/L | 0.8 | 0.5 | 20 | 1.000 | yes |
| Uranium | μg/L | 0.10 | 0.10 | 20 | 1.000 | yes |
| Vanadium | μg/L | <0.05 | <0.05 | 20 | 0.400 | yes |
| Zinc | μg/L | 460 | 460 | 20 | 10.000 | yes |
| Zirconium | μg/L | 0.3 | 0.4 | 20 | 1.000 | yes |
| Date Acquired: | September 01, 2017 | | | | | |

Volatile Petroleum Hydrocarbons - Water

| Blanks | Units | Measured | Lower Limit | Upper Limit | Pass | ed QC |
|-------------------|--------------------|-------------|-------------|----------------|------------------------|-------|
| VPHw (VHw6-10 | minus ng | 0 | -50 | 50 | | yes |
| VHw6-10 | ng | 0 | -50 | 50 | | yes |
| Date Acquired: | September 01, 2017 | | | | | |
| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | Pass | ed QC |
| VHw6-10 | ng | 111.73 | 75 | 125 | | yes |
| Date Acquired: | September 01, 2017 | | | | | |
| Replicates | Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria Pass | ed QC |

Quality Control



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1223968 | |
|-------------|---------------------------|-------------------|-----------------|-----------------|--------------|--|
| | PO Box 2703 | Project Name: | Campground Well | Control Number: | | |
| | Whitehorse, YT, Canada | | Sampling | Date Received: | Aug 31, 2017 | |
| | Y1A 2C6 | Project Location: | | Date Reported: | Sep 7, 2017 | |
| Attn: | Accounts Payable | LSD: | | Report Number: | 2218849 | |
| Sampled By: | JDM | P.O.: | C00037999 | | | |
| Company: | YG-Environmental | Proj. Acct. code: | | | | |

Volatile Petroleum Hydrocarbons - Water

- Continued

| ••••••• | | | | | | |
|----------------|--------------------|-------------|-------------|----------------|-------------------|-----------|
| Replicates | Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| VPHw (VHw6-10 | minus µg/L | <50 | <50 | 20 | 100 | yes |
| VHw6-10 | μg/L | <50 | <50 | 20 | 100 | yes |
| Date Acquired: | September 01, 2017 | | | | | |
| Matrix Spike | Units | % Recovery | Lower Limit | Upper Limit | | Passed QC |
| VHw6-10 | μg/L | 90 | 75 | 125 | | yes |
| Date Acquired: | September 01, 2017 | | | | | |

Methodology and Notes



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1223968 |
|-------------|---------------------------|-------------------|-----------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | Campground Well | Control Number: | |
| | Whitehorse, YT, Canada | | Sampling | Date Received: | Aug 31, 2017 |
| | Y1A 2C6 | Project Location: | | Date Reported: | Sep 7, 2017 |
| Attn: | Accounts Payable | LSD: | 000007000 | Report Number: | 2218849 |
| Sampled By: | JDM | P.U.: | C00037999 | | |
| Company: | YG-Environmental | Proj. Acct. code: | | | |

Method of Analysis

| Method Name | Reference | | Method | Date Analysis Started | Location |
|---|-----------|---|---|--------------------------|----------------|
| Alk, pH, EC, Turb in water (Surrey) | APHA | * | Alkalinity - Titration Method, 2320 B | 05-Sep-17 | Exova Surrey |
| Ammonia-N in Water (Surrey) | APHA | * | Flow Injection Analysis, 4500-NH3 H | 05-Sep-17 | Exova Surrey |
| Anions by IEC in water (Surrey) | APHA | * | lon Chromatography with Chemical Suppression of Eluent Cond., 4110 B | 01-Sep-17 | Exova Surrey |
| Anions by IEC in water (Surrey) | APHA | * | Single-Column Ion Chromatography with Electronic Suppression, 4110 C | 01-Sep-17 | Exova Surrey |
| BTEX-VPH - Water (MS) (Surrey) | B.C.M.O.E | * | Volatile Hydrocarbons in Waters by GC/FID (April, 2007), CSR | 01-Sep-17 | Exova Surrey |
| BTEX-VPH - Water (MS) (Surrey) | BCELM | * | Volatile Hydrocarbons in Water by GC/FID, VH Water | 01-Sep-17 | Exova Surrey |
| Carbon Inorganic (Dissolved) in water(DIC) | APHA | | High-Temperature Combustion Method, 5310 B | 05-Sep-17 | Exova Edmonton |
| Carbon Inorganic (Total) in water (TIC) | APHA | | High-Temperature Combustion Method, 5310 B | 05-Sep-17 | Exova Edmonton |
| Carbon Organic (Dissolved) in water (DOC) | APHA | | High-Temperature Combustion Method, 5310 B | 05-Sep-17 | Exova Edmonton |
| Carbon Organic (Total) in water (TOC) | APHA | | High-Temperature Combustion Method, 5310 B | 01-Sep-17 | Exova Edmonton |
| Mercury Low Level (Dissolved) in water (Surrey) | EPA | * | Mercury in Water by Cold Vapor Atomic Fluorescence Spectrometry, 245.7 | 05-Sep-17 | Exova Surrey |
| Metals SemiTrace (Dissolved) in water (Surrey) | US EPA | * | Metals & Trace Elements by ICP-AES, 6010C | 01-Sep-17 | Exova Surrey |
| Metals SemiTrace (Total) in Water (Surrey) | US EPA | * | Metals & Trace Elements by ICP-AES, 6010C | 01-Sep-17 | Exova Surrey |
| Phosphorus - total by Smartchem (Surrey) | APHA | * | Persulfate digestion method, 4500-P B5 | 01-Sep-17 | Exova Surrey |
| Total and Kjeldahl Nitrogen (Total) in Water | ISO | * | Water Quality - Determination of nitrogen, ISO/TR 11905-2 | 01-Sep-17 | Exova Edmonton |
| Trace Metals (dissolved) in Water (Surrey) | US EPA | * | Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8 | 01-Sep-17 | Exova Surrey |
| Trace Metals (Total) in Water (Surrey) | US EPA | * | Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8 | 01-Sep-17 | Exova Surrey |
| | | | * Reference Method Modified | | |

References

| APHA | Standard Methods for the Examination of Water and Wastewater |
|-----------|--|
| B.C.M.O.E | B.C. Ministry of Environment |
| BCELM | B.C. Environmental Laboratory Manual |
| EPA | Environmental Protection Agency Test Methods - US |
| ISO | International Organization for Standardization |
| US EPA | US Environmental Protection Agency Test Methods |

Methodology and Notes



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1223968 |
|-------------|---------------------------|-------------------|-----------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | Campground Well | Control Number: | |
| | Whitehorse, YT, Canada | | Sampling | Date Received: | Aug 31, 2017 |
| | Y1A 2C6 | Project Location: | | Date Reported: | Sep 7, 2017 |
| Attn: | Accounts Payable | LSD: | 000007000 | Report Number: | 2218849 |
| Sampled By: | JDM | P.O.: | C00037999 | | |
| Company: | YG-Environmental | Proj. Acct. code: | | | |

Comments:

• Reduction of analytical volume was necessary for Metals analysis to bring results within the analytical range for samples #1223968-2 through 7. Detection limits are adjusted accordingly.

Please direct any inquiries regarding this report to our Client Services Group or to the Operations Manager at the coordinates indicated at the top left of this page. Results relate only to samples as submitted.

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Report Transmission Cover Page



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1239472 |
|-------------|---------------------------|-------------------|-------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Klondike CG | Date Received: | Nov 15, 2017 |
| | Y1A 2C6 | LSD: | | Date Reported: | Nov 21, 2017 |
| Attn: | Accounts Payable | P.O.: | C00037999 | Report Number: | 2243457 |
| Sampled By: | Norbert Botca | Proj. Acct. code: | | | |
| Company: | YG-Environment | | | | |

| Contact | Company | Address | | | | |
|---------------------------------------|---------------------------|---------------------------------|------|----------------|--|--|
| Holly Goulding | YTG DOE - Water Resources | ources 202, 419 Range Road | | | | |
| | | Whitehorse, YT Y1A 3V1 | | | | |
| | | Phone: (867) 456-6583 | Fax: | (867) 667-3194 | | |
| | | Email: holly.goulding@gov.yk.ca | | | | |
| Delivery | Format | Deliverables | | | | |
| Email - Merge Reports | PDF | COC / Test Report | | | | |
| Email - Single Report | EQWin | Test Report | | | | |
| Email - Single Report | PDF | Invoice | | | | |
| John Miller | YTG DOE - Water Resources | 202, 419 Range Road | | | | |
| | | Whitehorse, YT Y1A 3V1 | | | | |
| | | Phone: (867) 667-3104 | Fax: | (867) 667-3194 | | |
| | | Email: john.miller@gov.yk.ca | | | | |
| Delivery | Format | Deliverables | | | | |
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| Email - Multiple Reports E | By Lot PDF | COC / Test Report | | | | |
| Email - Single Report | PDF | COA | | | | |
| Email - Single Report | PDF | COR | | | | |
| Email - Single Report | PDF | Invoice | | | | |
| Norbert Botca | YTG DOE - Water Resources | 203, 1191 Front Street | | | | |
| | | Whitehorse, YT Y1A 0K5 | | | | |
| | | Phone: (867) 667-3512 | Fax: | (867) 667-3194 | | |
| | | Email: norbert.botca@gov.yk.ca | | | | |
| Delivery | Format | Deliverables | | | | |
| Email - Multiple Reports By Lot EQWin | | Test Report | | | | |
| Email - Multiple Reports By Lot PDF | | COC / Test Report | | | | |
| Email - Single Report | PDF | COA | | | | |
| Email - Single Report | PDF | COR | | | | |
| Email - Single Report | PDF | Invoice | | | | |

Notes To Clients:

 Nov 21, 2017 - Sample 1239472-1; 5921216: Reduction of analytical volume was necessary for TP analysis due to matrix effects in sample # 1239472-1. Detection limits are adjusted accordingly.

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Analytical Report



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1239472 |
|-------------|---------------------------|-------------------|-------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Klondike CG | Date Received: | Nov 15, 2017 |
| | Y1A 2C6 | LSD: | | Date Reported: | Nov 21, 2017 |
| Attn: | Accounts Payable | P.O.: | C00037999 | Report Number: | 2243457 |
| Sampled By: | Norbert Botca | Proj. Acct. code: | | | |
| Company: | YG-Environment | | | | |

1239472-1

Reference Number

| | | Sample Date | Nov 08, 2017 | | | |
|--------------------------|------------------------|----------------------------------|-----------------------------------|---------|---------|----------------------------|
| | | Sample Time | 16:55 | | | |
| | Sa Samp | mple Location ble Description | YOWN-1608 / 2017204 / 7 °C / B | | | |
| | | Matrix | Water | | | |
| Analyte | | Units | Results | Results | Results | Nominal Detection Limit |
| Inorganic Nonmetallic Pa | arameters | | | | | |
| Nitrogen | Total | mg/L | 3.8 | | | 0.06 |
| Organic Carbon | Total Nonpurgeable | mg/L | 36 | | | 0.5 |
| Organic Carbon | Dissolved Nonpurgeable | mg/L | 0.9 | | | 0.5 |
| Inorganic carbon | Total | mg/L | 32 | | | 0.5 |
| Inorganic carbon | Dissolved | mg/L | 29 | | | 0.5 |
| Ammonia - N | | mg/L | 0.02 | | | 0.01 |
| Phosphorus | Total | mg/L | 1.31 | | | 0.003 |
| Metals Dissolved | | | | | | |
| Titanium | Dissolved | mg/L | 0.004 | | | 0.002 |
| Mercury | Dissolved | mg/L | <0.00001 | | | 0.00001 |
| Physical and Aggregate | Properties | - | | | | |
| Solids | Total Dissolved | mg/L | 200 | | | 5 |
| Routine Water | | - | | | | |
| pH - Holding Time | | | Exceeded | | | |
| рН | at 25 °C | | 7.13 | | | |
| Electrical Conductivity | | µS/cm at 25 ℃ | 283 | | | 1 |
| Calcium | Dissolved | mg/L | 44 | | | 0.01 |
| Magnesium | Dissolved | mg/L | 12 | | | 0.02 |
| Potassium | Dissolved | mg/L | 0.78 | | | 0.04 |
| Silicon | Dissolved | mg/L | 3.2 | | | 0.005 |
| Sodium | Dissolved | mg/L | 2.7 | | | 0.1 |
| Sulfur | Dissolved | mg/L | 23 | | | 0.02 |
| Bicarbonate | | mg/L | 108 | | | 5 |
| Carbonate | | mg/L | <6 | | | 6 |
| Hydroxide | | mg/L | <5 | | | 5 |
| P-Alkalinity | as CaCO3 | mg/L | <5 | | | 5 |
| T-Alkalinity | as CaCO3 | mg/L | 88 | | | 5 |
| Chloride | Dissolved | mg/L | 0.79 | | | 0.05 |
| Fluoride | Dissolved | mg/L | 0.07 | | | 0.01 |
| Nitrate - N | Dissolved | mg/L | 0.18 | | | 0.01 |
| Nitrite - N | Dissolved | mg/L | <0.01 | | | 0.01 |
| Sulfate (SO4) | Dissolved | mg/L | 73.7 | | | 0.1 |
| Hardness | as CaCO3 (dissolved) | mg/L | 160 | | | 5 |

| Trace Metals Dissolved | | | | |
|------------------------|-----------|------|--------------------|-------|
| Digestion | Dissolved | F | Field filtered and | |
| | | | Pres Dissol | |
| Titanium | Dissolved | mg/L | 0.004 | 0.002 |
| Aluminum | Dissolved | mg/L | <0.001 | 0.001 |

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Analytical Report



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1239472 |
|-------------|---------------------------|-------------------|-------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Klondike CG | Date Received: | Nov 15, 2017 |
| | Y1A 2C6 | LSD: | | Date Reported: | Nov 21, 2017 |
| Attn: | Accounts Payable | P.O.: | C00037999 | Report Number: | 2243457 |
| Sampled By: | Norbert Botca | Proj. Acct. code: | | | |
| Company: | YG-Environment | | | | |

| | | Reference Number | 1239472-1 | | | |
|----------------------|-----------------|--------------------|--------------------|---------|---------|----------------------------|
| | | Sample Date | Nov 08, 2017 | | | |
| | | Sample Time | 16:55 | | | |
| | | Sample Location | | | | |
| | | Sample Description | YOWN-1608 / | | | |
| | | | 2017204 / 7 °C / B | | | |
| | | Matrix | Water | | | |
| Analyte | | Units | Results | Results | Results | Nominal Detection Limit |
| Trace Metals Dissolv | /ed - Continued | | | | | |
| Antimony | Dissolved | mg/L | 0.00013 | | | 0.00002 |
| Arsenic | Dissolved | mg/L | <0.0001 | | | 0.0001 |
| Barium | Dissolved | mg/L | 0.0665 | | | 0.0001 |
| Beryllium | Dissolved | mg/L | <0.00005 | | | 0.00005 |
| Bismuth | Dissolved | mg/L | <0.0001 | | | 0.0001 |
| Boron | Dissolved | mg/L | 0.005 | | | 0.002 |
| Cadmium | Dissolved | mg/L | 0.00023 | | | 0.00001 |
| Chromium | Dissolved | mg/L | <0.00005 | | | 0.00005 |
| Cobalt | Dissolved | mg/L | 0.00004 | | | 0.00002 |
| Copper | Dissolved | mg/L | 0.00099 | | | 0.0005 |
| Iron | Dissolved | mg/L | 0.082 | | | 0.002 |
| Lead | Dissolved | mg/L | 0.00001 | | | 0.00001 |
| Lithium | Dissolved | mg/L | 0.0016 | | | 0.0005 |
| Manganese | Dissolved | mg/L | 0.010 | | | 0.001 |
| Molybdenum | Dissolved | mg/L | 0.00025 | | | 0.00002 |
| Nickel | Dissolved | mg/L | 0.0005 | | | 0.0002 |
| Selenium | Dissolved | mg/L | 0.0006 | | | 0.0002 |
| Silver | Dissolved | mg/L | <0.00001 | | | 0.00001 |
| Strontium | Dissolved | mg/L | 0.1995 | | | 0.0001 |
| Tellurium | Dissolved | mg/L | <0.00005 | | | 0.00005 |
| Thallium | Dissolved | mg/L | <0.00001 | | | 0.00001 |
| Thorium | Dissolved | mg/L | <0.00005 | | | 0.00005 |
| Tin | Dissolved | mg/L | 0.0018 | | | 0.0001 |
| Uranium | Dissolved | mg/L | 0.00034 | | | 0.00001 |
| Vanadium | Dissolved | mg/L | <0.00005 | | | 0.00005 |
| Zinc | Dissolved | mg/L | 0.0142 | | | 0.0005 |
| Zirconium | Dissolved | mg/L | <0.0001 | | | 0.0001 |

Nothiert

Mathieu Simoneau **Operations Manager**

Approved by:

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Quality Control



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1239472 |
|-------------|---------------------------|-------------------|-------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Klondike CG | Date Received: | Nov 15, 2017 |
| | Y1A 2C6 | LSD: | | Date Reported: | Nov 21, 2017 |
| Attn: | Accounts Payable | P.O.: | C00037999 | Report Number: | 2243457 |
| Sampled By: | Norbert Botca | Proj. Acct. code: | | | |
| Company: | YG-Environment | | | | |
| | | | | | |

Inorganic Nonmetallic Parameters

| Blanks | Units | Measured | Lower Limit | Upper Limit | | Passed QC |
|---------------------|-------------------|-------------|-------------|----------------|-------------------|-----------|
| Ammonium - N | μg/L | -13.029 | -110.00 | 10.00 | | yes |
| Phosphorus | mg/L | 0 | -0.003 | 0.003 | | yes |
| Date Acquired: | November 17, 2017 | | | | | |
| Organic Carbon | mg/L | 0.1696 | -0.5 | 0.5 | | yes |
| Inorganic carbon | mg/L | 0.18 | -0.5 | 0.5 | | yes |
| Date Acquired: | November 16, 2017 | | | | | |
| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | | Passed QC |
| Ammonium - N | μg/L | 97.21 | 85 | 115 | | yes |
| Phosphorus | mg/L | 99.74 | 90 | 110 | | yes |
| Date Acquired: | November 17, 2017 | | | | | |
| Ammonium - N | µg/L | 127.65 | 70 | 130 | | yes |
| Phosphorus | mg/L | 102.00 | 80 | 120 | | yes |
| Date Acquired: | November 17, 2017 | | | | | |
| Client Sample Repli | cates Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Nitrogen | mg/L | 3.8 | 3.8 | 10 | 0.06 | yes |
| Organic Carbon | mg/L | 36 | 36 | 10 | 1.0 | yes |
| Inorganic carbon | mg/L | 14.4 | 14.3 | 10 | 1.0 | yes |
| Date Acquired: | November 16, 2017 | | | | | |
| Ammonia - N | mg/L | 0.56 | 0.56 | 20 | 50.00 | yes |
| Date Acquired: | November 17, 2017 | | | | | |
| Control Sample | Units | Measured | Lower Limit | Upper Limit | | Passed QC |
| Organic Carbon | mg/L | <0.5 | -0.5 | 0.5 | | yes |
| Date Acquired: | November 16, 2017 | | | | | |
| Organic Carbon | mg/L | 120 | 109.1 | 139.7 | | yes |
| Inorganic carbon | mg/L | 45.1 | 38.5 | 53.5 | | yes |
| Date Acquired: | November 16, 2017 | | | | | |
| Organic Carbon | mg/L | 14.9 | 12.8 | 17.2 | | yes |
| Inorganic carbon | mg/L | 16.1 | 14.1 | 18.3 | | yes |
| Date Acquired: | November 16, 2017 | | | | | |
| Organic Carbon | mg/L | 2.6 | 2.4 | 4.0 | | yes |
| Inorganic carbon | mg/L | 3.6 | 2.7 | 4.1 | | yes |
| Date Acquired: | November 16, 2017 | | | | | |
| Phosphorus | mg/L | 0.419 | 0.389 | 0.503 | | yes |
| Date Acquired: | November 17, 2017 | | | | | - |
| Metals Dissolved | | | | | | |
| Blanks | Unite | Mossured | Lowor Limit | Uppor Limit | | Passad OC |

| Fassed QC | Opper Linnt | Lower Linnt | Weasureu | Units | DIdIIKS |
|-----------|-------------|-------------|------------|-------------------|-------------------|
| yes | 9.99 | -9.99 | -4 | ng/L | Mercury |
| | | | | November 17, 2017 | Date Acquired: |
| Passed QC | Upper Limit | Lower Limit | % Recovery | Units | Calibration Check |
| yes | 110 | 90 | 92.40 | ng/L | Mercury |
| | | | | November 17, 2017 | Date Acquired: |

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Quality Control



| Bill To: YTG PO Whi Y1A Attn: Acco Sampled By: Nort | B DOE - Water Resources Box 2703 tehorse, YT, Canada 2C6 punts Payable pert Botca | Project ID: Project Name: Project Location: LSD: P.O.: Proj. Acct. code: | YOWN YOWN Klondik C00037 | e CG 7999 | Lot IE Control Numbe Date Received Date Reported Report Numbe | 1239472 Nov 15, 2017 Nov 21, 2017 2243457 | |
|--|--|---|-----------------------------------|---------------|---|--|-------------|
| Company: YG- | Environment | | | | | | |
| Metals Dissolved | I - Continued | % D aaaaa | | Leuren Linsit | llan on Limit | | Deserved OC |
| | Units | % Recov | 42 | | | | |
| | November 15, 2017 | 107 | .42 | 90 | 110 | | yes |
| Date Acquired. | November 15, 2017 | Maaa | ! | Townst | Lauran Lineit | l la a a l insit | Descel 00 |
| | | Measu | rea 02 | I arget | Lower Limit | | Passed QC |
| Nercury | µg/L | 0 | .03 | 0.04 | 0.02 | 0.05 | yes |
| Date Acquired: | November 17, 2017 | | | | | | |
| Client Sample Rep | licates Units | Replicat | e 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| | mg/L | 0.0 | 004 | 0.004 | 30 | 0.012 | yes |
| Date Acquired: | November 15, 2017 | | | | | | |
| Mercury | µg/L | <0 | .01 | <0.01 | 20 | 0.05 | yes |
| Date Acquired: | November 17, 2017 | | | | | | |
| Physical and Age | gregate Properties | | | | | | |
| Client Sample Rep | licates Units | Replicat | e 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Solids | mg/L | 2 | 200 | 180 | 30 | 50.000 | yes |
| Date Acquired: | November 17, 2017 | | | | | | |
| Control Sample | Units | Measu | red | Lower Limit | Upper Limit | | Passed QC |
| Solids | mg/L | Ę | 510 | 412.000 | 610.600 | | yes |
| Date Acquired: | November 17, 2017 | | | | | | |
| Solids | mg/L | | 36 | 18.000 | 37.200 | | yes |
| Date Acquired: | November 17, 2017 | | | | | | |
| Solids | mg/L | | <5 | -5.001 | 5.001 | | yes |
| Date Acquired: | November 17, 2017 | | | | | | |
| Routine Water | | | | | | | |
| Blanks | Units | Measu | red | Lower Limit | Upper Limit | | Passed QC |
| Calcium | mg/L | 0.004740 | 061 | -0.010 | 0.010 | | yes |
| Magnesium | mg/L | -0.003977 | 798 | -0.020 | 0.020 | | yes |
| Potassium | mg/L | -0.01130 |)58 | -0.040 | 0.040 | | yes |
| Sodium | mg/L | 0.004338 | 357 | -0.099 | 0.099 | | yes |
| Date Acquired: | November 15, 2017 | | | | | | |
| Chloride | mg/L | 0.009218 | 381 | -0.201 | 0.201 | | yes |
| Fluoride | mg/L | | 0 | -0.099 | 0.099 | | yes |
| Nitrate - N | mg/L | 0.002550 | 800 | -0.010 | 0.010 | | yes |
| Nitrite - N | mg/L | | 0 | -0.099 | 0.099 | | yes |
| Sulfate (SO4) | mg/L | | 0 | -0.990 | 0.990 | | yes |
| Date Acquired: | November 15, 2017 | | | | | | |
| Calibration Check | Units | % Recove | ery | Lower Limit | Upper Limit | | Passed QC |
| Calcium | mg/L | 109 | .04 | 90 | 110 | | yes |
| Magnesium | mg/L | 108 | .21 | 90 | 110 | | yes |
| Potassium | mg/L | 108 | .48 | 90 | 110 | | yes |
| Sodium | mg/L | 107 | .08 | 90 | 110 | | yes |
| Date Acquired: | November 15, 2017 | | | | | | |

Quality Control



| Bill To: Attn: Sampled By: | YTG DOE - Water Resources PO Box 2703 Whitehorse, YT, Canada Y1A 2C6 Accounts Payable Norbert Botca | Project ID: Project Name: Project Location: LSD: P.O.: Proj. Acct. code: | YOWN YOWN Klondik C00037 | e CG 7999 | Lot ID: Control Number Date Received Date Reported Report Number | 1239472 Nov 15, 2017 Nov 21, 2017 2243457 | |
|----------------------------------|--|---|-----------------------------------|--------------|--|---|-----------|
| Company: | YG-Environment | | | | | | |
| Routine Wate | er - Continued | | | | | | |
| Calibration Cl | heck Units | % Recov | ery | Lower Limit | Upper Limit | | Passed QC |
| Chloride | mg/L | 101 | .28 | 85 | 115 | | yes |
| Fluoride | mg/L | 103 | .03 | 85 | 115 | | yes |
| Nitrate - N | mg/L | 101 | .42 | 85 | 115 | | yes |
| Nitrite - N | mg/L | 98 | .78 | 90 | 110 | | yes |
| Sulfate (SO4 | 4) mg/L | 104 | .39 | 85 | 115 | | yes |
| Date Acqui | red: November 15, 2017 | | | | | | |
| Chloride | mg/L | 101 | .06 | 90 | 110 | | yes |
| Fluoride | mg/L | 97 | .62 | 89 | 109 | | yes |
| Nitrate - N | mg/L | 100 | .89 | 88 | 108 | | yes |
| Nitrite - N | mg/L | 101 | .26 | 90 | 118 | | yes |
| Sulfate (SO4 | 4) mg/L | 104 | .44 | 90 | 110 | | yes |
| Date Acqui | red: November 15, 2017 | | | | | | |
| Calcium | mg/L | 109 | .52 | 90 | 110 | | yes |
| Magnesium | mg/L | 109 | .48 | 90 | 110 | | yes |
| Potassium | mg/L | 108 | .96 | 90 | 110 | | yes |
| Sodium | mg/L | 107 | .71 | 90 | 110 | | yes |
| Date Acqui | red: November 15, 2017 | | | | | | |
| Certified Refe | rence Material Units | Measu | red | Target | Lower Limit | Upper Limit | Passed QC |
| T-Alkalinity | ma/L | | 10 | 10 | 8 | 12 | ves |
| Date Acqui | red: November 17, 2017 | | - | - | - | | , |
| Client Sample | | Poplicat | o 1 | Poplicate 2 | % RSD Criteria | Absolute Criteria | Passad OC |
| Calcium | ma/l | Replicat | 40 | 30 | 30 SOL CITICETIA | | Vas |
| Magnesium | mg/L | | -0 5 2 | 5.2 | 30 | 1.000 | yes |
| Potassium | mg/L | | 1.6 | 1.6 | 30 | 1.000 | yes |
| Sodium | mg/L | | 15 | 1.0 | 30 | 1.000 | yes |
| Sulfur | mg/L | | 50 | 4.8 | 30 | 3 000 | yes |
| | rad: November 15, 2017 | | 0.0 | 4.0 | 50 | 5.000 | yes |
| Date Acqui | red. November 15, 2017 | _ | | 7.04 | 10 | | |
| рн | | 1 | .15 | 7.04 | 10 | 0.005 | yes |
| Electrical Co | onductivity dS/m at 25 °C | 0.0 |)22 | 0.022 | 10 | 0.005 | yes |
| Bicarbonate | mg/L | | <5 | <5 | 10 | 10 | yes |
| Hydroxide | mg/∟ | | <5 | <5 | 10 | 10 | yes |
| | mg/∟ | | <5 | <5 | 10 | 5 | yes |
| I-Alkalinity | mg/L | | 8 | <5 | 10 | 5 | yes |
| Chioride | mg/∟ | | 2.3 | 2.2 | 20 | 0.250 | yes |
| Fluoride | mg/∟ | 0 | .98 | 0.98 | 20 | 0.050 | yes |
| | mg/L | < | 0.1 | <0.1 | 20 | 0.050 | yes |
| | mg/L | < | U.T | <0.1 | 20 | 0.050 | yes |
| Suitate (SO2 | +) mg/L | | 4 | 4 | 20 | 0.500 | yes |
| Date Acqui | rea: November 15, 2017 | | | _ | | | _ |
| Replicates | Units | Replicat | e 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Chloride | mg/L | 1 | .31 | 1.31 | 6 | 0.010 | yes |
| Nitrate - N | mg/L | 0 | .30 | 0.30 | 12 | 0.050 | yes |
| Sulfate (SO4 | 4) mg/L | | 4.7 | 4.7 | 6 | 0.010 | yes |

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Date Acquired: November 15, 2017

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Quality Control



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1239472 |
|-------------|---------------------------|-------------------|-------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Klondike CG | Date Received: | Nov 15, 2017 |
| | Y1A 2C6 | LSD: | | Date Reported: | Nov 21, 2017 |
| Attn: | Accounts Payable | P.O.: | C00037999 | Report Number: | 2243457 |
| Sampled By: | Norbert Botca | Proj. Acct. code: | | | |
| Company: | YG-Environment | | | | |

Routine Water - Continued

| Control Sample | Units | Measured | Lower Limit | Upper Limit | Passed QC |
|-------------------------|----------------|----------|-------------|-------------|-----------|
| рН | | 10.02 | 9.17 | 10.81 | yes |
| Electrical Conductivity | µS/cm at 25 °C | 228 | 194 | 250 | yes |
| P-Alkalinity | mg/L | 50 | 7 | 55 | yes |
| T-Alkalinity | mg/L | 104 | 98 | 113 | yes |
| Date Acquired: Nover | nber 17, 2017 | | | | |
| рН | | 4.00 | 3.88 | 4.12 | yes |
| Date Acquired: Nover | nber 17, 2017 | | | | |
| рН | | 7.98 | 7.88 | 8.12 | yes |
| Date Acquired: Nover | nber 17, 2017 | | | | |
| Electrical Conductivity | µS/cm at 25 °C | 1372 | 1323 | 1503 | yes |
| Date Acquired: Nover | nber 17, 2017 | | | | |

Trace Metals Dissolved

| Blanks | Units | Measured | Lower Limit | Upper Limit | Passed QC |
|-------------------|-------------------|-------------|-------------|-------------|-----------|
| Aluminum | μg/L | 0.0142474 | -0.990 | 0.990 | yes |
| Antimony | μg/L | 0.00806942 | -0.020 | 0.020 | yes |
| Arsenic | μg/L | 0.00175753 | -0.099 | 0.099 | yes |
| Barium | μg/L | -0.00398975 | -0.099 | 0.099 | yes |
| Beryllium | μg/L | 0.000566178 | -0.050 | 0.050 | yes |
| Boron | μg/L | 1.32543 | -2.001 | 2.001 | yes |
| Cadmium | μg/L | 0.00414892 | -0.010 | 0.010 | yes |
| Chromium | μg/L | 0.00308984 | -0.050 | 0.050 | yes |
| Cobalt | μg/L | 0.00303737 | -0.020 | 0.020 | yes |
| Copper | μg/L | -0.00146932 | -0.050 | 0.050 | yes |
| Iron | μg/L | -0.524504 | -2.001 | 2.001 | yes |
| Lead | μg/L | -0.00216729 | -0.010 | 0.010 | yes |
| Lithium | μg/L | 0.0116949 | -0.500 | 0.500 | yes |
| Manganese | μg/L | -0.0436375 | -0.990 | 0.990 | yes |
| Molybdenum | μg/L | 0 | -0.020 | 0.020 | yes |
| Nickel | μg/L | 0.0381365 | -0.200 | 0.200 | yes |
| Selenium | μg/L | 0.0210011 | -0.200 | 0.200 | yes |
| Silver | μg/L | 0.000454369 | -0.009 | 0.009 | yes |
| Thallium | μg/L | 0.00663748 | -0.010 | 0.010 | yes |
| Tin | μg/L | -0.0430386 | -0.099 | 0.099 | yes |
| Vanadium | μg/L | 0.0114693 | -0.050 | 0.050 | yes |
| Zinc | μg/L | 0 | -0.500 | 0.500 | yes |
| Date Acquired: | November 15, 2017 | | | | |
| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | Passed QC |
| Aluminum | µg/L | 99.01 | 80 | 120 | yes |
| Antimony | µg/L | 91.19 | 90 | 110 | yes |
| Arsenic | µg/L | 94.11 | 90 | 110 | yes |
| Barium | μg/L | 100.20 | 90 | 110 | yes |
| Beryllium | µg/L | 96.44 | 90 | 110 | yes |
| Boron | μg/L | 95.46 | 70 | 130 | yes |

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Quality Control



| Bill To: | YTG DOE - Water Resources PO Box 2703 | Project ID: Project Name: | YOWN YOWN | Lot ID: Control Number: | 1239472 |
|-------------|--|------------------------------|--------------|----------------------------|--------------|
| | Whitehorse, YT, Canada | Project Location: | Klondike CG | Date Received: | Nov 15, 2017 |
| | Y1A 2C6 | LSD: | | Date Reported: | Nov 21, 2017 |
| Attn: | Accounts Payable | P.O.: | C00037999 | Report Number: | 2243457 |
| Sampled By: | Norbert Botca | Proj. Acct. code: | | | |
| Company: | YG-Environment | | | | |

Trace Metals Dissolved - Continued

| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | | Passed QC |
|--------------------------|-------------------|-------------|-------------|----------------|-------------------|-----------|
| Cadmium | μg/L | 98.93 | 90 | 110 | | yes |
| Chromium | μg/L | 95.84 | 90 | 110 | | yes |
| Cobalt | μg/L | 91.87 | 90 | 110 | | yes |
| Copper | μg/L | 93.86 | 90 | 110 | | yes |
| Lead | μg/L | 97.51 | 90 | 110 | | yes |
| Lithium | μg/L | 95.11 | 90 | 110 | | yes |
| Molybdenum | μg/L | 93.36 | 90 | 110 | | yes |
| Nickel | μg/L | 95.09 | 90 | 110 | | yes |
| Selenium | μg/L | 93.89 | 90 | 110 | | yes |
| Silver | μg/L | 98.05 | 90 | 110 | | yes |
| Tin | μg/L | 100.49 | 90 | 110 | | yes |
| Vanadium | μg/L | 96.98 | 90 | 110 | | yes |
| Zinc | μg/L | 96.61 | 90 | 110 | | yes |
| Date Acquired: | November 15, 2017 | | | | | |
| Aluminum | μg/L | 96.78 | 80 | 120 | | yes |
| Antimony | µg/L | 90.55 | 90 | 110 | | yes |
| Arsenic | µg/L | 93.94 | 90 | 110 | | yes |
| Barium | µg/L | 100.31 | 90 | 110 | | yes |
| Beryllium | µg/L | 95.39 | 90 | 110 | | yes |
| Boron | µg/L | 97.64 | 80 | 120 | | yes |
| Cadmium | µg/L | 96.12 | 90 | 110 | | yes |
| Chromium | µg/L | 97.17 | 90 | 110 | | yes |
| Cobalt | µg/L | 96.47 | 90 | 110 | | yes |
| Copper | µg/L | 91.68 | 90 | 110 | | yes |
| Lead | µg/L | 92.71 | 90 | 110 | | yes |
| Lithium | µg/L | 96.70 | 90 | 110 | | yes |
| Molybdenum | µg/L | 90.75 | 90 | 110 | | yes |
| Nickel | µg/L | 91.07 | 90 | 110 | | yes |
| Selenium | µg/L | 93.17 | 90 | 110 | | yes |
| Silver | µg/L | 99.22 | 90 | 110 | | yes |
| Thallium | μg/L | 96.56 | 90 | 110 | | yes |
| Tin | μg/L | 98.99 | 90 | 110 | | yes |
| Titanium | mg/L | 107.62 | 90 | 110 | | yes |
| Vanadium | μg/L | 95.48 | 90 | 110 | | yes |
| Zinc | μg/L | 98.17 | 90 | 110 | | yes |
| Date Acquired: | November 15, 2017 | | | | | |
| Client Sample Rep | licates Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Aluminum | µg/L | 2 | 3 | 20 | 20.000 | yes |
| Antimony | µg/L | 158.75 | 164.43 | 20 | 1.000 | yes |
| Arsenic | µg/L | 55.4 | 53.8 | 20 | 1.000 | yes |
| Barium | µg/L | 6.1 | 6.2 | 20 | 5.000 | yes |
| Beryllium | µg/L | <0.05 | <0.05 | 20 | 1.000 | yes |
| Boron | µg/L | 75 | 75 | 20 | 5.000 | yes |
| Cadmium | µg/L | 0.17 | 0.17 | 20 | 0.500 | yes |

Quality Control



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1239472 |
|-------------|---------------------------|-------------------|-------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Klondike CG | Date Received: | Nov 15, 2017 |
| | Y1A 2C6 | LSD: | | Date Reported: | Nov 21, 2017 |
| Attn: | Accounts Payable | P.O.: | C00037999 | Report Number: | 2243457 |
| Sampled By: | Norbert Botca | Proj. Acct. code: | | | |
| Company: | YG-Environment | | | | |

Trace Metals Dissolved - Continued

| Client Sample Replica | tes Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
|------------------------------|------------------|-------------|-------------|----------------|-------------------|-----------|
| Chromium | µg/L | <0.05 | <0.05 | 20 | 5.000 | yes |
| Cobalt | µg/L | 0.05 | 0.04 | 20 | 0.500 | yes |
| Copper | µg/L | <0.5 | <0.5 | 20 | 5.000 | yes |
| Iron | µg/L | 3 | <2 | 20 | 50.000 | yes |
| Lead | µg/L | <0.01 | <0.01 | 20 | 0.500 | yes |
| Lithium | µg/L | 3.3 | 3.2 | 20 | 5.000 | yes |
| Manganese | µg/L | 72 | 71 | 20 | 0.500 | yes |
| Molybdenum | µg/L | 655.97 | 650.80 | 20 | 0.500 | yes |
| Nickel | µg/L | <0.2 | <0.2 | 20 | 5.000 | yes |
| Selenium | µg/L | 0.4 | 0.4 | 20 | 0.500 | yes |
| Silver | µg/L | <0.01 | <0.01 | 20 | 0.500 | yes |
| Thallium | µg/L | <0.01 | <0.01 | 20 | 0.100 | yes |
| Tin | µg/L | <0.1 | <0.1 | 20 | 0.500 | yes |
| Vanadium | µg/L | 2.60 | 2.50 | 20 | 0.500 | yes |
| Zinc | µg/L | 1.8 | 1.7 | 20 | 5.000 | yes |
| Date Acquired: No | ovember 15, 2017 | | | | | |

Methodology and Notes



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1239472 |
|-------------|---------------------------|-------------------|-------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Klondike CG | Date Received: | Nov 15, 2017 |
| | Y1A 2C6 | LSD: | | Date Reported: | Nov 21, 2017 |
| Attn: | Accounts Payable | P.O.: | C00037999 | Report Number: | 2243457 |
| Sampled By: | Norbert Botca | Proj. Acct. code: | | | |
| Company: | YG-Environment | | | | |

Method of Analysis

| Method Name | Reference | Method | Date Analysis Started | Location |
|---|-----------|---|--------------------------|----------------|
| Alk, pH, EC, Turb in water (Surrey) | APHA | Alkalinity - Titration Method, 2320 B | Nov 17, 2017 | Exova Surrey |
| Alk, pH, EC, Turb in water (Surrey) | APHA | Conductivity, 2510 B | Nov 17, 2017 | Exova Surrey |
| Alk, pH, EC, Turb in water (Surrey) | APHA | pH - Electrometric Method, 4500-H+ B | Nov 17, 2017 | Exova Surrey |
| Ammonia-N in Water (Surrey) | APHA | Flow Injection Analysis, 4500-NH3 H | Nov 17, 2017 | Exova Surrey |
| Anions by IEC in water (Surrey) | APHA | Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B | Nov 17, 2017 | Exova Surrey |
| Carbon Inorganic (Dissolved) in water(DIC) | APHA | High-Temperature Combustion Method, 5310 B | Nov 16, 2017 | Exova Edmonton |
| Carbon Inorganic (Total) in water (TIC) | APHA | High-Temperature Combustion Method, 5310 B | Nov 16, 2017 | Exova Edmonton |
| Carbon Organic (Dissolved) in water (DOC) | APHA | High-Temperature Combustion Method, 5310 B | Nov 17, 2017 | Exova Edmonton |
| Carbon Organic (Total) in water (TOC) | APHA | High-Temperature Combustion Method, 5310 B | Nov 16, 2017 | Exova Edmonton |
| Mercury Low Level (Dissolved) in water (Surrey) | EPA | Mercury in Water by Cold Vapor Atomic Fluorescence Spectrometry, 245.7 | Nov 17, 2017 | Exova Surrey |
| Metals SemiTrace (Dissolved) in water (Surrey) | US EPA | Metals & Trace Elements by ICP-AES, 6010C | Nov 16, 2017 | Exova Surrey |
| Phosphorus - total by Smartchem (Surrey) | APHA | Persulfate digestion method, 4500-P B5 | Nov 17, 2017 | Exova Surrey |
| Solids Dissolved (Total, Fixed and Volatile) - Surrey | APHA | Total Dissolved Solids Dried at 180 C, 2540 C | Nov 17, 2017 | Exova Surrey |
| Total and Kjeldahl Nitrogen (Total) in Water | ISO | Water Quality - Determination of nitrogen, ISO/TR 11905-2 | Nov 17, 2017 | Exova Edmonton |
| Trace Metals (dissolved) in Water (Surrey) | US EPA | Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8 | Nov 16, 2017 | Exova Surrey |
| | | * Reference Method Modified | | |

References

| APHA | Standard Methods for the Examination of Water and Wastewater |
|--------|--|
| EPA | Environmental Protection Agency Test Methods - US |
| ISO | International Organization for Standardization |
| US EPA | US Environmental Protection Agency Test Methods |

Comments:

• Nov 21, 2017 - Sample 1239472-1; 5921216: Reduction of analytical volume was necessary for TP analysis due to matrix effects in sample # 1239472-1. Detection limits are adjusted accordingly.

Methodology and Notes



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1239472 |
|-------------|---------------------------|-------------------|-------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Klondike CG | Date Received: | Nov 15, 2017 |
| | Y1A 2C6 | LSD: | | Date Reported: | Nov 21, 2017 |
| Attn: | Accounts Payable | P.O.: | C00037999 | Report Number: | 2243457 |
| Sampled By: | Norbert Botca | Proj. Acct. code: | | | |
| Company: | YG-Environment | | | | |

Please direct any inquiries regarding this report to our Client Services Group or to the Operations Manager at the coordinates indicated at the top left of this page. Results relate only to samples as submitted.

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|--|---|--|---|---|---|---|---|--|-------------------------|---------------------------------|---------------------------|-----------------------|----------------------|------------------------|-------------|-------------------------------|----------------------|--------------------------|---------------|--|--|-------|
| Billing Address | 3 | | Report To: 💡 | Copy of Re | port To: | | | | _ | | | C | opy | of ir | voic | e: | | - | | | | |
| Company: Address: | Environment Yul Room 203/ 1191 Whitehorse, YT. Y1A 0K5 | kon - Water Resources Front Street | QA/QC Report | Company: Address: | Same | | | | | | | Ma | il inv | voice | to thi | s addr | ess fo | or app | orova | | |] |
| Attention: Phone: Fax: Cell: Email: | Norbert Botca; J (867) 667-3512 (867) 667-3194 norbert.botca@c | ohn Miller 10v.yk.ca; john.miller@gov.yk.ca | Report Result: Fax Mail Courier Email e-Services | Attention: Phone: Fax: Cell: Email: | 1 | | | | | | | | | | | | | | e | Rep F N Cour Err Servic | ax a | sult: |
| Information to | be included o | n Report and Invoice | RUSH Please | contact the labo | ratory to con | irm rush date | s and times | before submit | ting | Samp | ole Cu | stody | (Ple | ase | Print) | 6 | | | | | | |
| Project ID: Project Name: Project Location | YOWN YOWN : Klondike CG | | samples.(Up | on filing in this secto | un client accepts Upon fil surch Require | that a surcharge ling out this arges will be ad on: all ar | will be applied section, clie attached to nalyses or | to this analysis) nt accepts th this analysis as indicate | at ed | Samp Comp I auth Date: | led by any: orize E | YC | N G - E to pro | orbe nvire oceec | onme | nt nt he wor nitial: | I Signa k indi | Date: ature: cated | NB on thi | 8-No | v-17 | |
| PO#: | | | | | | | | | 1 | Recei | ved by | \$ | | | | Ter | npie np. | | | | | |
| Proj. Acct. Code | 1: | | Date required: | | | | | | | Wayb | II #: | | _ | | | Da | te | _ | | | _ | |
| Agreement ID: | | | Signature: | rization: | | - | | | | Comp | Cher | k her | e if F | xova | is real | lin lired to | 10 | rt resi | ults di | ectly t | oa | |
| | | | Norwest Adulo | | | | | | _ | | regu | atory | body | (Plea | ise ind | lude c | ontact | infor | matio | 1) | 5.6511 | |
| Special Instruc | tions/Comments | i | | | Condition of | SE ONLY containers/ | coolers upo | n arrival at la | b | | Chec | k her SUMI | e if yo PTIO | ou are N | e testir | ng POT | TABLE | WA | TER fo | or <u>HUN</u> | AN | |
| Please indicate | which regulations you | are required to meet: | | | 1 | | 34 | | Number of Containers | TW23EW ALK | ICCL | ICSO | Hd | TDS | HARD | ICN2 | ICN3 | TP | TN1 D.MERC | TOC | TIC/DIC | |
| Sample No. | Station Code | Station Description | Sample Date | Sample Time hh:mm | Sample Class | Sampled Bv | Matrix | Sampling Method | ۷ | | | | | | | | | | | | | |
| 1 2017204 | YOWN-1608 | YOWN Klondike CG | 8-Nov-2017 | 16:55 | В | NB | water | grab | 7 | x x | x | x x | x | x x | x | x | x | < X | x | < x | x | |
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| 9 | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | 1 | | | |
| NOTE: All haza | ardous samples | must be labeled according to WHMIS | 6 guidelines. | | à | | |) | | | | | | | | | Pag | e | <u> </u> | f <u>1</u> | | |



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Report Transmission Cover Page



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1231069 |
|-------------|---------------------------|-------------------|-----------|-----------------|--------------|
| | PO Box 2703 | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Faro | Date Received: | Oct 5, 2017 |
| | Y1A 2C6 | LSD: | | Date Reported: | Oct 12, 2017 |
| Attn: | Accounts Payable | P.O.: | C00037999 | Report Number: | 2228556 |
| Sampled By: | Norbert Botca | Proj. Acct. code: | | | |
| Company: | YG-Environment | | | | |

| Contact | Company | Address | | | | | | |
|-------------------------------------|---------------------------|---|------|----------------|--|--|--|--|
| Holly Goulding | YTG DOE - Water Resources | 202, 419 Range Road | | | | | | |
| | | Whitehorse, YT Y1A 3V1 | | | | | | |
| | | Phone: (867) 456-6583 | Fax: | (867) 667-3194 | | | | |
| | | Email: holly.goulding@gov.yk.ca | | | | | | |
| Delivery | Format | <u>Deliverables</u> | | | | | | |
| Email - Merge Reports | PDF | COC / Test Report | | | | | | |
| Email - Single Report | EQWin | Test Report | | | | | | |
| Email - Single Report | PDF | Invoice | | | | | | |
| John Miller | YTG DOE - Water Resources | 202, 419 Range Road | | | | | | |
| | | Whitehorse, YT Y1A 3V1 | | | | | | |
| | | Phone: (867) 667-3104 | Fax: | (867) 667-3194 | | | | |
| | | Email: john.miller@gov.yk.ca | | | | | | |
| Delivery | Format | Deliverables | | | | | | |
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| Email - Multiple Reports By Lot PDF | | COC / Test Report | | | | | | |
| Email - Single Report | PDF | COA | COA | | | | | |
| Email - Single Report | PDF | COR | | | | | | |
| Email - Single Report | PDF | Invoice | | | | | | |
| Norbert Botca | YTG DOE - Water Resources | 203, 1191 Front Street | | | | | | |
| | | Whitehorse, YT Y1A 0K5 | | | | | | |
| | | Phone: (867) 667-3512 | Fax: | (867) 667-3194 | | | | |
| | | Email: norbert.botca@gov.yk.ca | | | | | | |
| Delivery | Format | Deliverables | | | | | | |
| Email - Multiple Reports By | / Lot EQWin | Test Report | | | | | | |
| Email - Multiple Reports By | / Lot PDF | COC / Test Report | | | | | | |
| Email - Single Report | PDF | COA | | | | | | |
| Email - Single Report | PDF | Invoice | | | | | | |
| Tyler Williams | YTG DOE - Water Resources | 202, 419 Range Road | | | | | | |
| | | Whitehorse, YT Y1A 3V1 | | | | | | |
| | | Phone: (867) 667-3233 Fax: (867) 667-3194 | | | | | | |
| | | Email: Tyler.Williams@gov.yk.ca | | | | | | |
| Delivery | Format | Deliverables | | | | | | |
| Email - Multiple Reports By | / Lot EQWin | Test Report | | | | | | |
| Email - Multiple Reports By | / Lot PDF | COC / Test Report | | | | | | |

Notes To Clients:

• Oct 11, 2017 - Sample 1231069-1; 5864669: Reduction of analytical volume was necessary for anions due to matrix effects in sample 1231069-1. Detection limits are adjusted accordingly.

• Oct 11, 2017 - Reduction of analytical volume was necessary for metals analysis to bring results within the analytical range for sample #1231069-1. Detection limits are adjusted accordingly.

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Analytical Report



| Bill To: Attn: Sampled By: Company: | YTG DOE - Water Resources PO Box 2703 Whitehorse, YT, Canada Y1A 2C6 Accounts Payable Norbert Botca YG-Environment | Project ID: Project Name: Project Location: LSD: P.O.: Proj. Acct. code: Reference Numbe Sample Dat Sample Tim Sample Locatio | YOWN YOWN Faro C00037999 er 1231069-1 te Oct 02, 2017 ne 14:40 | L Control Nur Date Repo Report Nur 1231069-2 Oct 02, 2017 16:00 | 1231069 mber: eived: Oct 5, 2017 orted: Oct 12, 2017 mber: 2228556 1231069-3 Oct 02, 2017 16:45 | |
|--|--|--|--|---|---|----------------------------|
| | | Sample Descriptio | on YOWN-1603 / 2017244 / 10.9 °C / B | YOWN-0802 / 2017245 / 10.9 °C / B | YOWN-1602 / 2017246 / 10.9 °C / B | |
| | | Matr | ix Water | Water | Water | |
| Analyte | | Units | Results | Results | Results | Nominal Detection Limit |
| Inorganic Nonme | etallic Parameters | | | | | |
| Nitrogen | Total | mg/L | 0.11 | <0.06 | 0.17 | 0.06 |
| Organic Carbon | Total Nonpurgeable | e mg/L | 1.9 | 0.7 | 6.2 | 0.5 |
| Organic Carbon | Dissolved Nonpurge | eable mg/L | 1.6 | 0.7 | 5.1 | 0.5 |
| Inorganic carbon | Total | mg/L | 18 | 15 | 25 | 0.5 |
| Inorganic carbon | Dissolved | mg/L | 18 | 15 | 25 | 0.5 |
| Ammonia - N | | mg/L | 0.04 | 0.03 | 0.04 | 0.01 |
| Phosphorus | Total | mg/L | 0.206 | <0.003 | 0.062 | 0.003 |
| Metals Dissolved | l | | | | | |
| Mercury | Dissolved | mg/L | <0.00001 | <0.00001 | <0.00001 | 0.00001 |
| Physical and Age | gregate Properties | | | | | |
| Solids | Total Dissolved | mg/L | 490 | 84 | 160 | 5 |
| Routine Water | | | | | | |
| Digestion | Dissolved | | Field filtered and Pres Dissol Exceeded | Field filtered and Pres Dissol Exceeded | Field filtered and Pres Dissol Exceeded | |
| nH | at 25 °C | | 7 52 | 8 11 | 8 29 | |
| Electrical Conduc | tivity | μS/cm at 25 °C | 5 715 | 170 | 218 | 1 |
| Calcium | Dissolved | mg/L | 24 | 22 | 36 | 0.01 |
| Magnesium | Dissolved | mg/L | 64 | 11 | 23 | 0.02 |
| Potassium | Dissolved | mg/L | 6.4 | 2.0 | 1.3 | 0.04 |
| Silicon | Dissolved | mg/L | 0.30 | 0.82 | 2.4 | 0.005 |
| Sodium | Dissolved | mg/L | 9.8 | 3.7 | 3.6 | 0.1 |
| Sulfur | Dissolved | mg/L | 100 | 12 | 19 | 0.02 |
| Bicarbonate | | mg/L | 97 | 89 | 126 | 5 |
| Carbonate | | mg/L | <6 | <6 | <6 | 6 |
| Hydroxide | | mg/L | <5 | <5 | <5 | 5 |
| P-Alkalinity | as CaCO3 | mg/L | <5 | <5 | <5 | 5 |
| T-Alkalinity | as CaCO3 | mg/L | 80 | 73 | 103 | 5 |
| Chloride | Dissolved | mg/L | 2.5 | 0.31 | 0.91 | 0.05 |
| Fluoride | Dissolved | mg/L | 0.3 | 0.05 | 0.04 | 0.01 |
| Nitrate - N | Dissolved | mg/L | <0.1 | 0.02 | <0.01 | 0.01 |
| Nitrite - N | Dissolved | mg/L | <0.1 | <0.01 | <0.01 | 0.01 |
| Sulfate (SO4) | Dissolved | mg/L | 305 | 19.1 | 22.8 | 0.1 |
| Hardness | as CaCO3 (dissolve | ed) mg/L | 320 | 101 | 186 | 5 |
| Trace Metals Dis Digestion | solved Dissolved | | Field filtered and Pres Dissol | Field filtered and Pres Dissol | Field filtered and Pres Dissol | |

Exova T: +1 (604) 514-3322 F: +1 (604) 514-3323 #104, 19575-55 A Ave. E: Surrey@exova.com Surrey, British Columbia V3S 8P8, Canada W: www.exova.com

Analytical Report



| Bill To: Attn: Sampled By: Company: | YTG DOE - Water Resources PO Box 2703 Whitehorse, YT, Canada Y1A 2C6 Accounts Payable Norbert Botca YG-Environment | Project ID: Project Name: Project Location: LSD: P.O.: Proj. Acct. code: Reference Number Sample Date Sample Location | YOWN YOWN Faro C00037999 r 1231069-1 e Oct 02, 2017 e 14:40 | Li Control Nur Date Rece Date Report Report Nur 1231069-2 Oct 02, 2017 16:00 | 1231069 nber: vived: Oct 5, 2017 orted: Oct 12, 2017 nber: 2228556 1231069-3 Oct 02, 2017 16:45 | |
|--|--|---|---|---|---|-------------------|
| | | | 2017244 / 10.9 °C / B | 2017245 / 10.9 °C / | 2017246 / 10.9 °C / B | |
| | | Matrix | water | Water | Water | |
| Analyte | | Units | Results | Results | Results | Nominal Detection |
| Trace Metals Di | issolved - Continued | | | | | Limit |
| Titanium | Dissolved | mg/L | 0.005 | 0.005 | 0.008 | 0.002 |
| Aluminum | Dissolved | mg/L | <0.001 | <0.001 | <0.001 | 0.001 |
| Antimony | Dissolved | mg/L | 0.00008 | 0.00005 | 0.000098 | 0.00002 |
| Arsenic | Dissolved | mg/L | <0.0001 | <0.0001 | <0.0001 | 0.0001 |
| Barium | Dissolved | mg/L | 0.0073 | 0.0300 | 0.0233 | 0.0001 |
| Beryllium | Dissolved | mg/L | <0.00005 | <0.00005 | <0.00005 | 0.00005 |
| Bismuth | Dissolved | mg/L | <0.0001 | <0.0001 | <0.0001 | 0.0001 |
| Boron | Dissolved | mg/L | 0.005 | <0.002 | 0.004 | 0.002 |
| Cadmium | Dissolved | mg/L | 0.00001 | <0.00001 | <0.00001 | 0.00001 |
| Chromium | Dissolved | mg/L | <0.00005 | <0.00005 | <0.00005 | 0.00005 |
| Cobalt | Dissolved | mg/L | 0.00007 | <0.00002 | 0.00002 | 0.00002 |
| Copper | Dissolved | mg/L | <0.0005 | <0.0005 | 0.0007 | 0.0005 |
| Iron | Dissolved | mg/L | 5.77 | 0.978 | 0.476 | 0.002 |
| Lead | Dissolved | mg/L | <0.00001 | 0.00001 | 0.00003 | 0.00001 |
| Lithium | Dissolved | mg/L | 0.0321 | 0.0022 | 0.0038 | 0.0005 |
| Manganese | Dissolved | mg/L | 0.112 | 0.077 | 0.052 | 0.001 |
| Molybdenum | Dissolved | mg/L | 0.00039 | 0.00067 | 0.00080 | 0.00002 |
| Nickel | Dissolved | mg/L | <0.0002 | <0.0002 | 0.0002 | 0.0002 |
| Selenium | Dissolved | mg/L | <0.0002 | <0.0002 | 0.0004 | 0.0002 |
| Silver | Dissolved | mg/L | 0.00001 | <0.00001 | <0.00001 | 0.00001 |
| Strontium | Dissolved | mg/L | 0.1633 | 0.1089 | 0.1271 | 0.0001 |
| Tellurium | Dissolved | mg/L | <0.00005 | <0.00005 | <0.00005 | 0.00005 |
| Thallium | Dissolved | mg/L | 0.00001 | <0.00001 | <0.00001 | 0.00001 |
| Thorium | Dissolved | mg/L | 0.00036 | 0.00006 | 0.00006 | 0.00005 |
| Tin | Dissolved | mg/L | <0.0001 | <0.0001 | 0.0004 | 0.0001 |
| Uranium | Dissolved | mg/L | 0.00011 | 0.00021 | 0.00078 | 0.00001 |
| Vanadium | Dissolved | mg/L | <0.00005 | <0.00005 | <0.00005 | 0.00005 |
| Zinc | Dissolved | mg/L | 0.0008 | 0.0010 | 0.0006 | 0.0005 |
| Zirconium | Dissolved | mg/L | 0.0003 | <0.0001 | <0.0001 | 0.0001 |

Mathier

Approved by:

Mathieu Simoneau **Operations Manager**

Data have been validated by Analytical Quality Control and Exova's Integrated Data Validation System (IDVS). Generation and distribution of the report, and approval by the digitized signature above, are performed through a secure and controlled automatic process. Terms and Conditions: https://www.exova.com/media/1232/exova-canada-inc-standard-conditions-of-contract-short-form.pdf

Bill To: YTG DOE - Water Resources

PO Box 2703

Project ID:

Project Name:

YOWN

YOWN

Quality Control



Lot ID: 1231069

Control Number:

| Attn: | Whitehorse, YT, Canada Y1A 2C6 Accounts Pavable | Project Location: Fa LSD: P.O.: C | aro 00037999 | Date Received: Date Reported: Report Number: | Oct 5, 2017 Oct 12, 2017 2228556 | |
|-------------------------|---|---|-------------------------------|--|--|-----------|
| Sampled By: Company: | Norbert Botca YG-Environment | Proj. Acct. code: | | | | |
| Inorganic No | nmetallic Parameters | | | | | |
| Blanks | Units | Measured | Lower Limit | Upper Limit | | Passed QC |
| Ammonium - | N μg/L | -8.903 | -110.00 | 10.00 | | yes |
| Phosphorus | mg/L | -0.003 | -0.003 | 0.003 | | yes |
| Date Acquir | ed: October 06, 2017 | | | | | |
| Nitrogen | mg/L | 0 | -0.04 | 0.08 | | yes |
| Organic Carb | oon mg/L | 0.4903 | -0.5 | 0.5 | | yes |
| Inorganic car | bon mg/L | 0.213 | -0.5 | 0.5 | | yes |
| Date Acquir | ed: October 11, 2017 | | | | | |
| Calibration Ch | eck Units | % Recovery | Lower Limit | Upper Limit | | Passed QC |
| Ammonium - | N µg/L | 112.91 | 85 | 115 | | yes |
| Phosphorus | mg/L | 100.96 | 90 | 110 | | yes |
| Date Acquir | ed: October 06, 2017 | | | | | |
| Ammonium - | N μg/L | 82.33 | 70 | 130 | | yes |
| Phosphorus | mg/L | 101.00 | 80 | 120 | | yes |
| Date Acquir | ed: October 06, 2017 | | | | | |
| Client Sample | Replicates Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Nitrogen | mg/L | 0.37 | 0.31 | 10 | 0.06 | yes |
| Organic Cark | on mg/L | 1.6 | 1.7 | 10 | 1.0 | yes |
| Inorganic car | bon mg/L | 18 | 18 | 10 | 1.0 | yes |
| Date Acquir | ed: October 11, 2017 | | | | | |
| Ammonia - N | l mg/L | 40.4 | 40.2 | 20 | 50.00 | yes |
| Date Acquir | ed: October 06, 2017 | | | | | |
| Control Samp | e Units | Measured | Lower Limit | Upper Limit | | Passed QC |
| Organic Carb | oon mg/L | <0.5 | -0.5 | 0.5 | | yes |
| Date Acquir | ed: October 10, 2017 | | | | | |
| Nitrogen | mg/L | 131 | 103.74 | 137.28 | | yes |
| Organic Carb | oon mg/L | 116 | 112.1 | 136.6 | | yes |
| Inorganic car | bon mg/L | 44.7 | 40.5 | 55.5 | | yes |
| Date Acquir | ed: October 11, 2017 | | | | | |
| Nitrogen | mg/L | 15.4 | 13.27 | 16.93 | | yes |
| Organic Cark | on mg/L | 15.1 | 12.8 | 17.2 | | yes |
| Inorganic car | bon mg/L | 15.5 | 14.1 | 18.3 | | yes |
| Date Acquir | ed: October 11, 2017 | | | | | |
| Nitrogen | mg/L | 1.14 | 0.89 | 1.25 | | yes |
| Organic Carb | on mg/L | 3.4 | 2.4 | 4.0 | | yes |
| Inorganic car | bon mg/L | 3.2 | 2.7 | 4.1 | | yes |
| Date Acquir | ed: October 11, 2017 | | | | | |
| Phosphorus | mg/L | 0.441 | 0.389 | 0.503 | | yes |
| Date Acquir | ed: October 06, 2017 | | | | | |
| Metals Disso | lved | | | | | |
| Blanks | Units | Measured | Lower Limit | Upper Limit | | Passed QC |
| Mercury | ng/L | 2.3 | -9.99 | 9.99 | | yes |
| Date Acquir | ed: October 06, 2017 | | | | | - |
| Terms and Conditions: | https://www.exova.com/media/1232/ | exova-canada-inc-standard-conditior | ns-of-contract-short-form.pdf | | | |

Quality Control



| Bill To: YTG PO E Whit Y1A Attn: Acco Sampled By: Norb Company: YG-E | DOE - Water Resources Box 2703 ehorse, YT, Canada 2C6 punts Payable pert Botca Environment | Project ID: Project Name: Project Location: LSD: P.O.: Proj. Acct. code: | YOWN YOWN Faro C000379 | 999 | Lot ID Control Number Date Received Date Reported Report Number | 1231069 Oct 5, 2017 Oct 12, 2017 2228556 | |
|--|--|---|---------------------------------|-------------|---|--|-------------|
| Metals Dissolved | - Continued | | | | | | |
| Calibration Check | Units | % Recove | ery | Lower Limit | Upper Limit | | Passed QC |
| Mercury | ng/L | 108 | .80 | 90 | 110 | | yes |
| Date Acquired: | October 06, 2017 | | | | | | |
| Certified Reference | Material Units | Measur | ed | Target | Lower Limit | Upper Limit | Passed QC |
| Mercury | µg/L | 0 | .04 | 0.04 | 0.02 | 0.05 | yes |
| Date Acquired: | October 06, 2017 | | | | | | |
| Client Sample Repl | icates Units | Replicat | e 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Mercury | μg/L | <0 | .01 | <0.01 | 20 | 0.05 | yes |
| Date Acquired: | October 06, 2017 | | | | | | |
| Physical and Age | pregate Properties | | | | | | |
| Client Sample Repl | icates Units | Replicat | e 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Solids | mg/L | 4 | 80 | 480 | 30 | 50.000 | ves |
| Date Acquired: | October 06, 2017 | | | | | | , |
| Control Sample | Units | Measu | ed | Lower Limit | Upper Limit | | Passed QC |
| Solids | ma/L | 5 | 510 | 412.000 | 610.600 | | ves |
| Date Acquired: | October 06. 2017 | | - | | | | , |
| Solids | ma/l | | 22 | 18 000 | 37 200 | | VAS |
| Date Acquired | October 06 2017 | | | 10.000 | 01.200 | | <i>j</i> 00 |
| Solide | mg/l | | ~5 | -5.001 | 5 001 | | VAS |
| Date Acquired: | October 06, 2017 | | <0 | -5.001 | 5.001 | | yes |
| Date Acquired. | 0010001 00, 2017 | | | | | | |
| Routine Water | | | | | | | |
| Blanks | Units | Measur | ed | Lower Limit | Upper Limit | | Passed QC |
| Calcium | mg/L | | 0 | -0.010 | 0.010 | | yes |
| Magnesium | mg/L | 0.007555 | 569 | -0.020 | 0.020 | | yes |
| Potassium | mg/L | | 0 | -0.040 | 0.040 | | yes |
| Silicon | mg/L | 0.002413 | 399 | -0.005 | 0.005 | | yes |
| Sodium | mg/L | 0.0005853 | 382 | -0.099 | 0.099 | | yes |
| Date Acquired: | October 10, 2017 | | | | | | |
| Chloride | mg/L | 0.006213 | 888 | -0.201 | 0.201 | | yes |
| Fluoride | mg/L | | 0 | -0.099 | 0.099 | | yes |
| Nitrate - N | mg/L | | 0 | -0.010 | 0.010 | | yes |
| Sulfate $(SO4)$ | mg/L | | 0 | -0.099 | 0.099 | | yes |
| Date Acquired: | October 06, 2017 | | 0 | -0.990 | 0.550 | | yes |
| Calibration Check | | % Basav | | Lower Limit | Unnor Limit | | Bassad OC |
| Calcium | ma/l | 70 Recove | 62 | | | | rassed QC |
| Magnesium | mg/L | 100 | .98 | 90 | 110 | | VAS |
| Potassium | ma/L | 100 | .34 | 90 | 110 | | ves |
| Silicon | mg/L | 97 | .02 | 90 | 110 | | yes |
| Sodium | mg/L | 96 | .42 | 90 | 110 | | yes |
| Date Acquired: | October 10, 2017 | | | | | | |
| Chloride | mg/L | 101 | .48 | 85 | 115 | | yes |
| | | | | | | | |

Terms and Conditions: https://www.exova.com/media/1232/exova-canada-inc-standard-conditions-of-contract-short-form.pdf

Quality Control



| Bill To: Attn: Sampled By: | YTG DOE - Water Resources PO Box 2703 Whitehorse, YT, Canada Y1A 2C6 Accounts Payable Norbert Botca | Project ID: Project Name: Project Location: LSD: P.O.: Proj. Acct. code: | YOWN YOWN Faro C0003799 | 99 | Lot ID Control Number Date Received Date Reported Report Number | 1231069 Oct 5, 2017 Oct 12, 2017 2228556 | |
|----------------------------------|--|---|----------------------------------|-------------|---|--|-------------|
| Company. | I G-Environment | | | | | | |
| Routine Wate | r - Continued | | | | | | |
| Calibration Ch | eck Units | % Recov | ery | Lower Limit | Upper Limit | | Passed QC |
| Fluoride | mg/L | 97 | .79 | 85 | 115 | | yes |
| Nitrate - N | mg/L | 100 | 0.96 | 85 | 115 | | yes |
| Nitrite - N | mg/L | 96 | 5.32 | 90 | 110 | | yes |
| Sulfate (SO4) | mg/L | 98 | 3.52 | 85 | 115 | | yes |
| Date Acquire | ed: October 06, 2017 | | | | | | |
| Chloride | mg/L | 97 | .63 | 90 | 110 | | yes |
| Fluoride | mg/L | 93 | 8.91 | 89 | 109 | | yes |
| Nitrate - N | mg/L | 96 | 5.76 | 88 | 108 | | yes |
| Nitrite - N | mg/L | 99 | 0.10 | 90 | 118 | | yes |
| Sulfate (SO4) | mg/L | 98 | 3.35 | 90 | 110 | | yes |
| Date Acquire | ed: October 06, 2017 | | | | | | |
| Calcium | mg/L | 104 | .11 | 90 | 110 | | yes |
| Magnesium | mg/L | 107 | .43 | 90 | 110 | | yes |
| Potassium | mg/L | 96 | 6.77 | 90 | 110 | | yes |
| Sodium | mg/L | 101 | .48 | 90 | 110 | | yes |
| Date Acquire | ed: October 10, 2017 | | | | | | - |
| Certified Refer | ence Material Units | Measu | red | Target | Lower Limit | Upper Limit | Passed QC |
| T-Alkalinity | mg/l | mouou | 10 | 10 | 8 | 12 | Ves |
| Date Acquire | | | 10 | 10 | 0 | | you |
| Date Acquire | | Dauliaat | | Deulisate 0 | | Alexalute Oritoria | Deserved OC |
| | Replicates Units | Replica | | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| pH Electrical Corr | | 6 | 0.87 | 6.86 | 10 | 0.005 | yes |
| Electrical Cor | iductivity dS/m at 25 °C | 0.0 | 025 | 0.025 | 10 | 0.005 | yes |
| Bicarbonate | mg/∟ | | <5 | <5 | 10 | 10 | yes |
| Hydroxide | mg/∟ | | <5 | <5 | 10 | 10 | yes |
| | mg/∟ | | <5 | <5 | 10 | 5 | yes |
| I-Alkalinity | mg/L | | / | / | 10 | 5 | yes |
| Chloride | mg/L | 1 | .68 | 1.65 | 20 | 0.250 | yes |
| Fluoride | mg/L | C | 0.24 | 0.24 | 20 | 0.050 | yes |
| Nitrate - N | mg/L | <0 | 0.01 | <0.01 | 20 | 0.050 | yes |
| Nitrite - N | mg/L | <0 | 0.01 | <0.01 | 20 | 0.050 | yes |
| Sulfate (SO4) | mg/L | | 7.7 | 7.5 | 20 | 0.500 | yes |
| Date Acquire | ed: October 06, 2017 | | | | | | |
| Replicates | Units | Replicat | te 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Chloride | mg/L | 1 | .22 | 1.25 | 6 | 0.010 | yes |
| Nitrate - N | mg/L | C | .28 | 0.29 | 12 | 0.050 | yes |
| Sulfate (SO4) | mg/L | | 4.2 | 4.3 | 6 | 0.010 | yes |
| Date Acquire | ed: October 06, 2017 | | | | | | |
| Control Sample | e Units | Measu | red | Lower Limit | Upper Limit | | Passed QC |
| рН | | ç | .54 | 9.17 | 10.81 | | yes |
| Electrical Cor | nductivity µS/cm at 25 °C | : | 212 | 194 | 250 | | yes |
| P-Alkalinity | mg/L | | 17 | 7 | 55 | | yes |
| T-Alkalinity | mg/L | | 111 | 98 | 113 | | yes |
| Date Acquire | ed: October 07, 2017 | | | | | | |

Quality Control



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1231069 |
|-------------|---------------------------|-------------------|-----------|-----------------|--------------|
| | PO Box 2703 | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Faro | Date Received: | Oct 5, 2017 |
| | Y1A 2C6 | LSD: | | Date Reported: | Oct 12, 2017 |
| Attn: | Accounts Payable | P.O.: | C00037999 | Report Number: | 2228556 |
| Sampled By: | Norbert Botca | Proj. Acct. code: | | | |
| Company: | YG-Environment | | | | |

Routine Water - Continued

| Control Sample | Units | Measured | Lower Limit | Upper Limit | Passed QC |
|-------------------|------------------------|----------|-------------|-------------|-----------|
| рН | | 4.03 | 3.88 | 4.12 | yes |
| Date Acquired: | October 07, 2017 | | | | |
| рН | | 8.00 | 7.88 | 8.12 | yes |
| Date Acquired: | October 07, 2017 | | | | |
| Electrical Conduc | ctivity µS/cm at 25 °C | 1380 | 1323 | 1503 | yes |
| Date Acquired: | October 07, 2017 | | | | |

Trace Metals Dissolved

| Blanks | Units | Measured | Lower Limit | Upper Limit | Passed QC |
|-------------------|------------------|--------------|-------------|-------------|-----------|
| Aluminum | μg/L | 0.0904427 | -0.990 | 0.990 | yes |
| Antimony | µg/L | 0.000133512 | -0.020 | 0.020 | yes |
| Arsenic | µg/L | -0.026801 | -0.099 | 0.099 | yes |
| Barium | µg/L | -0.0148089 | -0.099 | 0.099 | yes |
| Beryllium | μg/L | -0.00495399 | -0.050 | 0.050 | yes |
| Bismuth | μg/L | -0.000564597 | -0.099 | 0.099 | yes |
| Boron | μg/L | 0.112018 | -2.001 | 2.001 | yes |
| Cadmium | μg/L | -0.000315456 | -0.010 | 0.010 | yes |
| Chromium | μg/L | -0.0276651 | -0.050 | 0.050 | yes |
| Cobalt | µg/L | -0.00137621 | -0.020 | 0.020 | yes |
| Copper | μg/L | -0.017913 | -0.050 | 0.050 | yes |
| Iron | μg/L | 0.757119 | -2.001 | 2.001 | yes |
| Lead | μg/L | 0 | -0.010 | 0.010 | yes |
| Lithium | μg/L | 0.0085649 | -0.500 | 0.500 | yes |
| Manganese | μg/L | -0.0696526 | -0.990 | 0.990 | yes |
| Molybdenum | μg/L | 0.00430056 | -0.020 | 0.020 | yes |
| Nickel | μg/L | -0.0113326 | -0.200 | 0.200 | yes |
| Selenium | μg/L | 0.0075459 | -0.200 | 0.200 | yes |
| Silver | μg/L | 0.000587073 | -0.009 | 0.009 | yes |
| Strontium | μg/L | 0.0289446 | -0.099 | 0.099 | yes |
| Tellurium | μg/L | -0.0033786 | -0.050 | 0.050 | yes |
| Thallium | μg/L | 0.000613679 | -0.010 | 0.010 | yes |
| Thorium | µg/L | 0.0014226 | -0.050 | 0.050 | yes |
| Tin | µg/L | 0.00552401 | -0.099 | 0.099 | yes |
| Titanium | µg/L | 0.0488961 | -0.099 | 0.099 | yes |
| Uranium | µg/L | -0.000113668 | -0.010 | 0.010 | yes |
| Vanadium | µg/L | 0.020291 | -0.050 | 0.050 | yes |
| Zinc | µg/L | 0.151001 | -0.500 | 0.500 | yes |
| Zirconium | µg/L | 0.00111542 | -0.099 | 0.099 | yes |
| Date Acquired: | October 10, 2017 | | | | |
| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | Passed QC |
| Titanium | mg/L | 96.11 | 90 | 110 | yes |
| Date Acquired: | October 10, 2017 | | | | |
| Aluminum | µg/L | 97.70 | 80 | 120 | yes |
| Antimony | μg/L | 92.10 | 90 | 110 | yes |
| | | | | | |

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T: +1 (604) 514-3322 F: +1 (604) 514-3323 E: Surrey@exova.com W: www.exova.com

Quality Control



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1231069 |
|-------------|---------------------------|-------------------|-----------|-----------------|--------------|
| | PO Box 2703 | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Faro | Date Received: | Oct 5, 2017 |
| | Y1A 2C6 | LSD: | | Date Reported: | Oct 12, 2017 |
| Attn: | Accounts Payable | P.O.: | C00037999 | Report Number: | 2228556 |
| Sampled By: | Norbert Botca | Proj. Acct. code: | | | |
| Company: | YG-Environment | | | | |

Trace Metals Dissolved - Continued

| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | Passed QC |
|-------------------|------------------|------------|-------------|-------------|-----------|
| Arsenic | µg/L | 97.12 | 90 | 110 | yes |
| Barium | µg/L | 96.92 | 90 | 110 | yes |
| Beryllium | µg/L | 101.27 | 90 | 110 | yes |
| Boron | µg/L | 101.64 | 70 | 130 | yes |
| Cadmium | µg/L | 100.55 | 90 | 110 | yes |
| Chromium | µg/L | 96.40 | 90 | 110 | yes |
| Cobalt | µg/L | 96.33 | 90 | 110 | yes |
| Copper | µg/L | 96.45 | 90 | 110 | yes |
| Lead | µg/L | 98.55 | 90 | 110 | yes |
| Lithium | µg/L | 102.33 | 90 | 110 | yes |
| Molybdenum | µg/L | 92.19 | 90 | 110 | yes |
| Nickel | µg/L | 96.22 | 90 | 110 | yes |
| Selenium | µg/L | 101.70 | 90 | 110 | yes |
| Silver | µg/L | 99.97 | 90 | 110 | yes |
| Strontium | µg/L | 99.05 | 90 | 110 | yes |
| Thorium | µg/L | 91.27 | 90 | 110 | yes |
| Tin | µg/L | 91.13 | 90 | 110 | yes |
| Titanium | µg/L | 94.17 | 90 | 110 | yes |
| Uranium | µg/L | 98.70 | 90 | 110 | yes |
| Vanadium | µg/L | 97.44 | 90 | 110 | yes |
| Zinc | µg/L | 94.76 | 90 | 110 | yes |
| Date Acquired: | October 10, 2017 | | | | |
| Aluminum | µg/L | 89.42 | 80 | 120 | yes |
| Antimony | µg/L | 91.13 | 90 | 110 | yes |
| Arsenic | µg/L | 92.72 | 90 | 110 | yes |
| Barium | µg/L | 90.29 | 90 | 110 | yes |
| Beryllium | µg/L | 91.73 | 90 | 110 | yes |
| Boron | µg/L | 94.63 | 80 | 120 | yes |
| Cadmium | µg/L | 95.87 | 90 | 110 | yes |
| Chromium | µg/L | 92.91 | 90 | 110 | yes |
| Cobalt | µg/L | 90.20 | 90 | 110 | yes |
| Copper | µg/L | 90.57 | 90 | 110 | yes |
| Lead | µg/L | 94.84 | 90 | 110 | yes |
| Lithium | µg/L | 94.47 | 90 | 110 | yes |
| Molybdenum | µg/L | 93.88 | 90 | 110 | yes |
| Nickel | µg/L | 90.57 | 90 | 110 | yes |
| Selenium | µg/L | 97.43 | 90 | 110 | yes |
| Silver | µg/L | 95.48 | 90 | 110 | yes |
| Strontium | µg/L | 96.04 | 90 | 110 | yes |
| Thallium | µg/L | 94.75 | 90 | 110 | yes |
| Thorium | µg/L | 98.95 | 86 | 122 | yes |
| Tin | µg/L | 93.42 | 90 | 110 | yes |
| Titanium | mg/L | 98.15 | 90 | 110 | yes |
| Uranium | µg/L | 100.95 | 90 | 110 | yes |
| Vanadium | µg/L | 93.93 | 90 | 110 | yes |

Quality Control



| Bill To: | YTG DOE - Water Resources PO Box 2703 | Project ID: Project Name: | YOWN YOWN | Lot ID: Control Number: | 1231069 |
|-------------|--|------------------------------|--------------|----------------------------|--------------|
| | Whitehorse, YT, Canada | Project Location: | Faro | Date Received: | Oct 5, 2017 |
| | Y1A 2C6 | LSD: | | Date Reported: | Oct 12, 2017 |
| Attn: | Accounts Payable | P.O.: | C00037999 | Report Number: | 2228556 |
| Sampled By: | Norbert Botca | Proj. Acct. code: | | | |
| Company: | YG-Environment | | | | |

Trace Metals Dissolved - Continued

| Calibration Check | | Units | % Recovery | Lower Limit | Upper Limit | | Passed QC |
|--------------------|---------|------------|-------------|-------------|----------------|-------------------|-----------|
| Zinc | | µg/L | 93.91 | 90 | 110 | | yes |
| Date Acquired: | October | 10, 2017 | | | | | |
| Client Sample Repl | icates | Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Aluminum | | µg/L | 4 | 2 | 20 | 20.000 | yes |
| Antimony | | µg/L | 0.22 | 0.28 | 20 | 1.000 | yes |
| Arsenic | | µg/L | 0.9 | 0.9 | 20 | 1.000 | yes |
| Barium | | µg/L | 20.9 | 21.5 | 20 | 5.000 | yes |
| Beryllium | | µg/L | <0.05 | <0.05 | 20 | 1.000 | yes |
| Boron | | µg/L | 65 | 67 | 20 | 5.000 | yes |
| Cadmium | | µg/L | 0.02 | 0.01 | 20 | 0.500 | yes |
| Chromium | | µg/L | 0.29 | 0.31 | 20 | 5.000 | yes |
| Cobalt | | µg/L | 0.03 | 0.03 | 20 | 0.500 | yes |
| Copper | | µg/L | 1.3 | 1.4 | 20 | 5.000 | yes |
| Iron | | µg/L | <2 | <2 | 20 | 50.000 | yes |
| Lead | | µg/L | <0.01 | <0.01 | 20 | 0.500 | yes |
| Lithium | | µg/L | 2.1 | 2.0 | 20 | 5.000 | yes |
| Manganese | | µg/L | <1 | <1 | 20 | 0.500 | yes |
| Molybdenum | | µg/L | 0.81 | 0.86 | 20 | 0.500 | yes |
| Nickel | | µg/L | 4.2 | 4.3 | 20 | 5.000 | yes |
| Selenium | | µg/L | 10.2 | 10.2 | 20 | 0.500 | yes |
| Silver | | µg/L | 0.02 | 0.05 | 20 | 0.500 | yes |
| Strontium | | µg/L | 394.0 | 392.4 | 20 | 0.500 | yes |
| Tellurium | | µg/L | 0.05 | 0.09 | 20 | 0.500 | yes |
| Thallium | | µg/L | <0.01 | <0.01 | 20 | 0.100 | yes |
| Thorium | | µg/L | 0.20 | 0.20 | 20 | 0.100 | yes |
| Tin | | µg/L | <0.1 | <0.1 | 20 | 0.500 | yes |
| Titanium | | µg/L | 0.6 | 0.5 | 20 | 0.500 | yes |
| Uranium | | µg/L | 0.25 | 0.24 | 20 | 0.100 | yes |
| Vanadium | | µg/L | 0.87 | 0.82 | 20 | 0.500 | yes |
| Zinc | | µg/L | 0.9 | 0.99 | 20 | 5.000 | yes |
| Zirconium | | µg/L | 0.5 | 0.7 | 20 | 0.500 | yes |
| Date Acquired: | Octobe | r 10, 2017 | | | | | |
Methodology and Notes



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1231069 |
|-------------|---------------------------|-------------------|-----------|-----------------|--------------|
| | PO Box 2703 | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Faro | Date Received: | Oct 5, 2017 |
| | Y1A 2C6 | LSD: | | Date Reported: | Oct 12, 2017 |
| Attn: | Accounts Payable | P.O.: | C00037999 | Report Number: | 2228556 |
| Sampled By: | Norbert Botca | Proj. Acct. code: | | | |
| Company: | YG-Environment | | | | |

Method of Analysis

| Method Name | Reference | | Method | Date Analysis Started | Location |
|---|-----------|---|---|--------------------------|----------------|
| Alk, pH, EC, Turb in water (Surrey) | APHA | * | Alkalinity - Titration Method, 2320 B | Oct 7, 2017 | Exova Surrey |
| Alk, pH, EC, Turb in water (Surrey) | APHA | * | Conductivity, 2510 B | Oct 7, 2017 | Exova Surrey |
| Alk, pH, EC, Turb in water (Surrey) | APHA | * | pH - Electrometric Method, 4500-H+ B | Oct 7, 2017 | Exova Surrey |
| Ammonia-N in Water (Surrey) | APHA | * | Flow Injection Analysis, 4500-NH3 H | Oct 6, 2017 | Exova Surrey |
| Anions by IEC in water (Surrey) | APHA | * | lon Chromatography with Chemical Suppression of Eluent Cond., 4110 B | Oct 6, 2017 | Exova Surrey |
| Carbon Inorganic (Dissolved) in water(DIC) | APHA | | High-Temperature Combustion Method, 5310 B | Oct 11, 2017 | Exova Edmonton |
| Carbon Inorganic (Total) in water (TIC) | APHA | | High-Temperature Combustion Method, 5310 B | Oct 11, 2017 | Exova Edmonton |
| Carbon Organic (Dissolved) in water (DOC) | APHA | | High-Temperature Combustion Method, 5310 B | Oct 10, 2017 | Exova Edmonton |
| Carbon Organic (Total) in water (TOC) | APHA | | High-Temperature Combustion Method, 5310 B | Oct 10, 2017 | Exova Edmonton |
| Mercury Low Level (Dissolved) in water (Surrey) | EPA | * | Mercury in Water by Cold Vapor Atomic Fluorescence Spectrometry, 245.7 | Oct 6, 2017 | Exova Surrey |
| Metals SemiTrace (Dissolved) in water (Surrey) | US EPA | * | Metals & Trace Elements by ICP-AES, 6010C | Oct 10, 2017 | Exova Surrey |
| Phosphorus - total by Smartchem (Surrey) | APHA | * | Persulfate digestion method, 4500-P B5 | Oct 6, 2017 | Exova Surrey |
| Solids Dissolved (Total, Fixed and Volatile) - Surrey | APHA | * | Total Dissolved Solids Dried at 180 C, 2540 C | Oct 6, 2017 | Exova Surrey |
| Total and Kjeldahl Nitrogen (Total) in Water | ISO | * | Water Quality - Determination of nitrogen, ISO/TR 11905-2 | Oct 10, 2017 | Exova Edmonton |
| Trace Metals (dissolved) in Water (Surrey) | US EPA | * | Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8 | Oct 10, 2017 | Exova Surrey |
| | | | * Reference Method Modified | | |

References

| APHA | Standard Methods for the Examination of Water and Wastewater |
|--------|--|
| EPA | Environmental Protection Agency Test Methods - US |
| ISO | International Organization for Standardization |
| US EPA | US Environmental Protection Agency Test Methods |

Comments:

- Oct 11, 2017 Sample 1231069-1; 5864669: Reduction of analytical volume was necessary for anions due to matrix effects in sample 1231069-1. Detection limits are adjusted accordingly.
- Oct 11, 2017 Reduction of analytical volume was necessary for metals analysis to bring results within the analytical range for sample #1231069-1. Detection limits are adjusted accordingly.

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Methodology and Notes



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1231069 |
|-------------|---------------------------|-------------------|-----------|-----------------|--------------|
| | PO Box 2703 | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Faro | Date Received: | Oct 5, 2017 |
| | Y1A 2C6 | LSD: | | Date Reported: | Oct 12, 2017 |
| Attn: | Accounts Payable | P.O.: | C00037999 | Report Number: | 2228556 |
| Sampled By: | Norbert Botca | Proj. Acct. code: | | | |
| Company: | YG-Environment | | | | |

Please direct any inquiries regarding this report to our Client Services Group or to the Operations Manager at the coordinates indicated at the top left of this page. Results relate only to samples as submitted.

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Report Transmission Cover Page



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1232853 |
|-------------|---------------------------|-------------------|-----------------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Beaver Creek area, YT | Date Received: | Oct 16, 2017 |
| | Y1A 2C6 | LSD: | | Date Reported: | Oct 20, 2017 |
| Attn: | Accounts Payable | P.O.: | | Report Number: | 2231381 |
| Sampled By: | Norbert Botca | Proj. Acct. code: | | | |
| Company: | YG-Environment | | | | |

| Contact | Company | Address | | |
|-----------------------------|---------------------------|---------------------------------|------|----------------|
| Holly Goulding | YTG DOE - Water Resources | 202, 419 Range Road | | |
| | | Whitehorse, YT Y1A 3V1 | | |
| | | Phone: (867) 456-6583 | Fax: | (867) 667-3194 |
| | | Email: holly.goulding@gov.yk.ca | | |
| Delivery | <u>Format</u> | Deliverables | | |
| Email - Merge Reports | PDF | COC / Test Report | | |
| Email - Single Report | EQWin | Test Report | | |
| Email - Single Report | PDF | Invoice | | |
| John Miller | YTG DOE - Water Resources | 202, 419 Range Road | | |
| | | Whitehorse, YT Y1A 3V1 | | |
| | | Phone: (867) 667-3104 | Fax: | (867) 667-3194 |
| | | Email: john.miller@gov.yk.ca | | |
| Delivery | Format | Deliverables | | |
| Email - Multiple Reports By | / Lot EQWin | Test Report | | |
| Email - Multiple Reports By | / Lot PDF | COC / Test Report | | |
| Email - Single Report | PDF | COA | | |
| Email - Single Report | PDF | COR | | |
| Email - Single Report | PDF | Invoice | | |
| Norbert Botca | YTG DOE - Water Resources | 203, 1191 Front Street | | • |
| | | Whitehorse, YT Y1A 0K5 | | |
| | | Phone: (867) 667-3512 | Fax: | (867) 667-3194 |
| | | Email: norbert.botca@gov.yk.ca | | |
| Delivery | Format | Deliverables | | |
| Email - Multiple Reports By | / Lot EQWin | Test Report | | |
| Email - Multiple Reports By | / Lot PDF | COC / Test Report | | |
| Email - Single Report | PDF | COA | | |
| Email - Single Report | PDF | COR | | |
| Email - Single Report | PDF | Invoice | | |
| Tyler Williams | YTG DOE - Water Resources | 202, 419 Range Road | | • |
| | | Whitehorse, YT Y1A 3V1 | | |
| | | Phone: (867) 667-3233 | Fax: | (867) 667-3194 |
| | | Email: Tyler.Williams@gov.yk.ca | | |
| Delivery | <u>Format</u> | Deliverables | | |
| Email - Multiple Reports By | / Lot EQWin | Test Report | | |
| Email - Multiple Reports By | / Lot PDF | COC / Test Report | | |

Notes To Clients:

• Oct 18, 2017 - Sample 1232853-1; 5875524: Analysis was performed on sample 1232853-1, 1232853-2 and 1232853-3 that exceeded the recommended holding time for nitrite and nitrate analysis.

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Analytical Report



| Bill To: YTG DOE - Water Resources PO Box 2703 Whitehorse, YT, Canada Y1A 2C6 Attn: Accounts Payable Sampled By: Norbert Botca Company: YG-Environment | | Project ID: YOWN Project Name: YOWN Project Location: Beaver Creek area, YT LSD: P.O.: Proj. Acct. code: | | Lot ID: 1232853 Control Number: Date Received: Oct 16, 2017 Date Reported: Oct 20, 2017 Report Number: 2231381 | | |
|--|--------------------|---|---------------------------------------|---|-------------------------------------|-------------------|
| | | Reference Numbe | er 1232853-1 | 1232853-2 | 1232853-3 | |
| | | Sample Dat | e Oct 11, 2017 | Oct 11, 2017 | Oct 11, 2017 | |
| | | Sample Tim | e 16:40 | 18:00 | 13:50 | |
| | | Sample Descriptio | n YOWN-1607 / 2017254 / 7.9 °C / B | YOWN-1301 / 2017255 / 7.9 °C / B | YOWN-1614 / 2017256 / 7.9 °C / B | |
| | | Matri | x Water | Water | Water | |
| Analyte | | Units | Results | Results | Results | Nominal Detection |
| Inorganic Nonm | etallic Parameters | | | | | Linit |
| Nitrogen | Total | mg/L | 0.34 | 0.08 | 0.09 | 0.06 |
| Organic Carbon | Total Nonpurgeable | mg/L | 5.9 | 2.1 | 3.0 | 0.5 |
| Organic Carbon | Dissolved Nonpurge | eable mg/L | 4.2 | 1.0 | <0.5 | 0.5 |
| Inorganic carbor | n Total | mg/L | 13.2 | 30.8 | 15.0 | 0.5 |
| Inorganic carbor | n Dissolved | mg/L | 13.1 | 30.9 | 15.0 | 0.5 |
| Ammonia - N | | mg/L | 0.02 | 0.04 | 0.03 | 0.01 |
| Phosphorus | Total | mg/L | 0.021 | <0.003 | 0.539 | 0.003 |
| Metals Dissolve | d si i i | | | | | |
| Mercury | Dissolved | mg/L | <0.00001 | <0.00001 | <0.00001 | 0.00001 |
| Physical and Ag | gregate Properties | ~~~// | 66 | 170 | 150 | F |
| Solius Routino Water | Total Dissolved | mg/∟ | 00 | 170 | 150 | 5 |
| nH - Holding Tim | | | Exceeded | Exceeded | Exceeded | |
| pH Holding Hi | at 25 °C | | 8.13 | 7.98 | 9.23 | |
| Electrical Condu | ictivity | µS/cm at 25 ℃ | 130 | 291 | 268 | 1 |
| Calcium | Dissolved | mg/L | 17 | 49 | 9.5 | 0.01 |
| Magnesium | Dissolved | mg/L | 4.6 | 6.2 | 2.1 | 0.02 |
| Potassium | Dissolved | mg/L | 1.6 | 1.0 | 2.8 | 0.04 |
| Silicon | Dissolved | mg/L | 0.16 | 0.91 | 0.40 | 0.005 |
| Sodium | Dissolved | mg/L | 3.0 | 3.5 | 41 | 0.1 |
| Sulfur | Dissolved | mg/L | 0.38 | 6.4 | 8.3 | 0.02 |
| Bicarbonate | | mg/L | 82 | 194 | 74 | 5 |
| Carbonate | | mg/L | <6 | <6 | 12 | 6 |
| Hydroxide | 0.000 | mg/L | <5 | <5 | <5 | 5 |
| P-Alkalinity | as CaCO3 | mg/L | <5 | <5 | 10 | 5 |
| T-Alkalinity | as CaCO3 | mg/L | 0.41 | 159 | 81 | 5 |
| Eluorido | Dissolved | mg/L | 0.41 | 3.03 | 0.08 | 0.05 |
| Nitrate - N | Dissolved | mg/L | 0.04 ~0.01 | 0.01 | -0.01 | 0.01 |
| Nitrite - N | Dissolved | mg/L | <0.01 | <0.03 | <0.01 | 0.01 |
| Sulfate (SO4) | Dissolved | mg/L | 0.8 | 17.8 | 24.9 | 0.01 |
| Hardness | as CaCO3 (dissolve | ed) ma/L | 61 | 150 | 32 | 5 |
| Trace Metals Dis | ssolved | | • | | | - |
| Digestion | Dissolved | | Field filtered and Pres Dissol | Field filtered and Pres Dissol | Field filtered and Pres Dissol | |
| Titanium | Dissolved | mg/L | 0.004 | 0.011 | <0.002 | 0.002 |
| Aluminum | Dissolved | mg/L | 0.001 | <0.001 | 0.001 | 0.001 |
| Antimony | Dissolved | mg/L | 0.00003 | 0.00007 | 0.00004 | 0.00002 |

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Analytical Report



| Bill To: YTG DOE - Water Resources F PO Box 2703 F Whitehorse, YT, Canada F Y1A 2C6 F Attn: Accounts Payable Sampled By: Norbert Botca Company: YG-Environment | | Project ID: Project Name: Project Location: LSD: P.O.: Proj. Acct. code: | Project ID:YOWNProject Name:YOWNProject Location:Beaver Creek area, YTLSD:P.O.:Proj. Acct. code:Your State | | ot ID: 1232853 mber: eived: Oct 16, 2017 orted: Oct 20, 2017 mber: 2231381 | |
|--|----------------------|---|--|-------------------------------------|---|-------------------|
| | | Reference Number | 1232853-1 | 1232853-2 | 1232853-3 | |
| | | Sample Date | e Oct 11, 2017 | Oct 11, 2017 | Oct 11, 2017 | |
| | | Sample Time | e 16:40 | 18:00 | 13:50 | |
| | | Sample Location | 1 | | | |
| | | Sample Description | YOWN-1607 / 2017254 / 7.9 °C / B | YOWN-1301 / 2017255 / 7.9 °C / B | YOWN-1614 / 2017256 / 7.9 °C / B | |
| | | Matrix | water | Water | Water | |
| Analyte | | Units | Results | Results | Results | Nominal Detection |
| Trace Metals Di | issolved - Continued | | | | | |
| Arsenic | Dissolved | mg/L | <0.0001 | 0.0001 | 0.0027 | 0.0001 |
| Barium | Dissolved | mg/L | 0.0657 | 0.0263 | 0.0299 | 0.0001 |
| Beryllium | Dissolved | mg/L | <0.00005 | <0.00005 | <0.00005 | 0.00005 |
| Bismuth | Dissolved | mg/L | <0.0001 | <0.0001 | <0.0001 | 0.0001 |
| Boron | Dissolved | mg/L | 0.025 | 0.148 | 0.114 | 0.002 |
| Cadmium | Dissolved | mg/L | <0.00001 | <0.00001 | <0.00001 | 0.00001 |
| Chromium | Dissolved | mg/L | <0.00005 | 0.00010 | <0.00005 | 0.00005 |
| Cobalt | Dissolved | mg/L | <0.00002 | 0.00012 | <0.00002 | 0.00002 |
| Copper | Dissolved | mg/L | <0.0005 | <0.0005 | <0.0005 | 0.0005 |
| Iron | Dissolved | mg/L | <0.002 | <0.002 | 0.003 | 0.002 |
| Lead | Dissolved | mg/L | <0.00001 | <0.00001 | 0.00003 | 0.00001 |
| Lithium | Dissolved | mg/L | 0.0064 | 0.0016 | 0.0035 | 0.0005 |
| Manganese | Dissolved | mg/L | 0.005 | 0.163 | 0.004 | 0.001 |
| Molybdenum | Dissolved | mg/L | 0.00079 | 0.00029 | 0.00371 | 0.00002 |
| Nickel | Dissolved | mg/L | <0.0002 | 0.0005 | 0.0002 | 0.0002 |
| Selenium | Dissolved | mg/L | <0.0002 | <0.0002 | <0.0002 | 0.0002 |
| Silver | Dissolved | mg/L | <0.00001 | <0.00001 | <0.00001 | 0.00001 |
| Strontium | Dissolved | mg/L | 0.0721 | 0.1523 | 0.2044 | 0.0001 |
| Tellurium | Dissolved | mg/L | <0.00005 | <0.00005 | <0.00005 | 0.00005 |
| Thallium | Dissolved | mg/L | <0.00001 | <0.00001 | <0.00001 | 0.00001 |
| Thorium | Dissolved | mg/L | 0.00005 | <0.00005 | <0.00005 | 0.00005 |
| Tin | Dissolved | mg/L | <0.0001 | <0.0001 | <0.0001 | 0.0001 |
| Uranium | Dissolved | mg/L | 0.00002 | 0.00005 | <0.00001 | 0.00001 |
| Vanadium | Dissolved | mg/L | <0.00005 | <0.00005 | <0.00005 | 0.00005 |
| Zinc | Dissolved | mg/L | <0.0005 | 0.0066 | <0.0005 | 0.0005 |
| Zirconium | Dissolved | mg/L | 0.0003 | <0.0001 | <0.0001 | 0.0001 |

Mathier Approved by:

Mathieu Simoneau **Operations Manager**

Data have been validated by Analytical Quality Control and Exova's Integrated Data Validation System (IDVS). Generation and distribution of the report, and approval by the digitized signature above, are performed through a secure and controlled automatic process. Terms and Conditions: https://www.exova.com/media/1232/exova-canada-inc-standard-conditions-of-contract-short-form.pdf

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Quality Control



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1232853 |
|-------------|---------------------------|-------------------|-----------------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Beaver Creek area, YT | Date Received: | Oct 16, 2017 |
| | Y1A 2C6 | LSD: | | Date Reported: | Oct 20, 2017 |
| Attn: | Accounts Payable | P.O.: | | Report Number: | 2231381 |
| Sampled By: | Norbert Botca | Proj. Acct. code: | | | |
| Company: | YG-Environment | | | | |

Inorganic Nonmetallic Parameters

| Blanks | Units | Measured | Lower Limit | Upper Limit | | Passed QC |
|-------------------|------------------|-------------|-------------|----------------|-------------------|-----------|
| Phosphorus | mg/L | 0.0005 | -0.003 | 0.003 | | yes |
| Date Acquired: | October 17, 2017 | | | | | |
| Nitrogen | mg/L | 0.04285 | -0.04 | 0.08 | | yes |
| Organic Carbon | mg/L | 0.1027 | -0.5 | 0.5 | | yes |
| Inorganic carbon | mg/L | 0.2468 | -0.5 | 0.5 | | yes |
| Date Acquired: | October 18, 2017 | | | | | |
| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | | Passed QC |
| Phosphorus | mg/L | 101.16 | 90 | 110 | | yes |
| Date Acquired: | October 17, 2017 | | | | | |
| Phosphorus | mg/L | 91.00 | 80 | 120 | | yes |
| Date Acquired: | October 17, 2017 | | | | | |
| Client Sample Rep | licates Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Nitrogen | mg/L | . 110 | 105 | 10 | 0.06 | yes |
| Organic Carbon | mg/L | 35 | 35 | 10 | 1.0 | yes |
| Inorganic carbon | mg/L | 13.2 | 13.2 | 10 | 1.0 | yes |
| Date Acquired: | October 18, 2017 | | | | | |
| Control Sample | Units | Measured | Lower Limit | Upper Limit | | Passed QC |
| Organic Carbon | mg/L | <0.5 | -0.5 | 0.5 | | yes |
| Date Acquired: | October 18, 2017 | | | | | |
| Nitrogen | mg/L | 133 | 103.74 | 137.28 | | yes |
| Organic Carbon | mg/L | 120 | 109.1 | 139.7 | | yes |
| Inorganic carbon | mg/L | 45.3 | 39.0 | 57.0 | | yes |
| Date Acquired: | October 18, 2017 | | | | | |
| Nitrogen | mg/L | 14.7 | 13.27 | 16.93 | | yes |
| Organic Carbon | mg/L | 14.1 | 12.8 | 17.2 | | yes |
| Inorganic carbon | mg/L | 15.3 | 14.1 | 18.3 | | yes |
| Date Acquired: | October 18, 2017 | | | | | |
| Nitrogen | mg/L | 1.15 | 0.89 | 1.25 | | yes |
| Organic Carbon | mg/L | 3.0 | 2.4 | 4.0 | | yes |
| Inorganic carbon | mg/L | 3.2 | 2.7 | 4.1 | | yes |
| Date Acquired: | October 18, 2017 | | | | | |
| Phosphorus | mg/L | 0.445 | 0.389 | 0.503 | | yes |
| Date Acquired: | October 17, 2017 | | | | | |
| Metals Dissolved | I | | | | | |
| Blanks | Units | Measured | Lower Limit | Upper Limit | | Passed QC |
| Mercury | ng/L | -1 | -9.99 | 9.99 | | yes |
| Date Acquired: | October 17, 2017 | | | | | |
| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | | Passed QC |

108.40

Measured

90

yes

110

ng/L

Date Acquired: October 17, 2017 Certified Reference Material Units

Mercury

Quality Control



| Bill To: YT PC Wł | G DOE - Water Resources) Box 2703 hitehorse, YT, Canada | Project ID: Project Name: Project Location: | YOWN YOWN Beaver Creek ar | ea, YT | Lot I Control Numbe Date Receive | D: 1232853 er: ed: Oct 16, 2017 | |
|---------------------------|--|---|---------------------------------|-----------|--|--|------------|
| Y1 | A 2C6 | LSD: | | | Date Reporte | d: Oct 20, 2017 | |
| Attn: Ac | counts Payable | P.O.: | | | Report Number | er: 2231381 | |
| Sampled By: No | rbert Botca | Proj. Acct. code: | | | | | |
| Company: YG | G-Environment | | | | | | |
| Metals Dissolve | d - Continued | | | | | | |
| Certified Reference | ce Material Units | Measur | ed | Target | Lower Limit | Upper Limit | Passed QC |
| Mercury | μg/L | 0. | 04 | 0.04 | 0.02 | 0.05 | yes |
| Date Acquired: | October 17, 2017 | | | | | | |
| Client Sample Re | plicates Units | Replicate | el Rep | licate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Mercury | μg/L | <0. | 01 | <0.01 | 20 | 0.05 | yes |
| Date Acquired: | October 17, 2017 | | | | | | |
| Physical and Ag | ggregate Properties | | | | | | |
| Client Sample Re | plicates Units | Replicate | e1 Rep | licate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Solids | mg/L | 1 | 90 | 250 | 30 | 50.000 | yes |
| Date Acquired: | October 16, 2017 | | | | | | |
| Control Sample | Units | Measur | ed Low | er Limit | Upper Limit | | Passed QC |
| Solids | mg/L | 5 | 20 | 412.000 | 610.600 | | yes |
| Date Acquired: | October 16, 2017 | | | | | | |
| Solids | mg/L | | 28 | 18.000 | 37.200 | | yes |
| Date Acquired: | October 16, 2017 | | | | | | |
| Solids | ma/L | | <5 | -5.001 | 5.001 | | ves |
| Date Acquired: | October 16, 2017 | | | | | | , |
| Routine Water | | | | | | | |
| Blanks | Units | Measur | ed Low | er Limit | Upper Limit | | Passed QC |
| Calcium | mg/L | -0.00281 | 94 | -0.010 | 0.010 | | yes |
| Magnesium | mg/L | -0.000230 | 88 | -0.020 | 0.020 | | yes |
| Potassium | mg/L | | 0 | -0.040 | 0.040 | | yes |
| Silicon | mg/L | 0.002192 | 28 | -0.005 | 0.005 | | yes |
| Sodium Data Associated | mg/L | -0.0109 | 57 | -0.099 | 0.099 | | yes |
| Date Acquired: | October 16, 2017 | | | | | | |
| Chloride | mg/L | 0.005814 | 05 | -0.201 | 0.201 | | yes |
| Fluoride | mg/L | 0.000400 | 0 | -0.099 | 0.099 | | yes |
| Nitrate - N | mg/L | 0.002462 | | -0.010 | 0.010 | | yes |
| Sulfate (SO4) | mg/L | | 0 | -0.099 | 0.099 | | yes |
| Date Acquired: | October 17, 2017 | | 0 | 0.000 | 0.000 | | yes |
| Collibration Chool | | % Decey | | or Lincit | llanar limit | | Decord OC |
| Calcium | mg/l | % Recove | 81 LOW | | | | |
| Magnesium | mg/L | 95. | 94 | 90 | 110 | | yes ves |
| Potassium | mg/L | 99. | 15 | 90 | 110 | | ves |
| Silicon | ma/L | 93. | 50 | 90 | 110 | | ves |
| Sodium | mg/L | 91. | 13 | 90 | 110 | | yes |
| Date Acquired: | October 16, 2017 | | | | | | |
| Chloride | ma/L | <u>9</u> 2 | 20 | 85 | 115 | | Ves |
| Fluoride | ma/L | 93. | 71 | 85 | 115 | | ves |
| Nitrate - N | mg/L | 94. | 69 | 85 | 115 | | yes |
| Nitrite - N | mg/L | 93. | 65 | 90 | 110 | | yes |
| | 3 | | | | - | | , |

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Quality Control



| Bill To: Attn: | YTG DOE - Water Resources PO Box 2703 Whitehorse, YT, Canada Y1A 2C6 Accounts Payable | Project ID: Project Name: Project Location: LSD: P.O.: | YOWN YOWN Beaver C | reek area, YT | Lot ID Control Number Date Received Date Reported Report Number | 1232853 Oct 16, 2017 Oct 20, 2017 2231381 | |
|-------------------------|---|--|--------------------------|---------------|---|---|-----------|
| Sampled By: Company: | Norbert Botca YG-Environment | Proj. Acct. code: | | | | | |
| Routine Wate | r - Continued | | | | | | |
| Calibration Ch | eck Units | % Recove | ery | Lower Limit | Upper Limit | | Passed QC |
| Sulfate (SO4) | mg/L | 93. | .62 | 85 | 115 | | yes |
| Date Acquire | ed: October 17, 2017 | | | | | | |
| Chloride | mg/L | 93. | .88 | 90 | 110 | | yes |
| Fluoride | mg/L | 90. | .25 | 89 | 109 | | yes |
| Nitrate - N | mg/L | 93. | .94 | 88 | 108 | | yes |
| Nitrite - N | mg/L | 98. | .65 | 90 | 118 | | yes |
| Sulfate (SO4) | mg/L | 94. | .87 | 90 | 110 | | yes |
| Date Acquire | ed: October 17, 2017 | | | | | | |
| Calcium | mg/L | 102. | .98 | 90 | 110 | | yes |
| Magnesium | mg/L | 102. | .66 | 90 | 110 | | yes |
| Potassium | mg/L | 103. | .12 | 90 | 110 | | yes |
| Sodium | mg/L | 95. | .52 | 90 | 110 | | yes |
| Date Acquire | ed: October 16, 2017 | | | | | | |
| Certified Refer | ence Material Units | Measur | ed | Target | Lower Limit | Upper Limit | Passed QC |
| T-Alkalinity | mg/L | | 10 | 10 | 8 | 12 | yes |
| Date Acquire | ed: October 18, 2017 | | | | | | - |
| Client Sample | Replicates Units | Replicate | e 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Calcium | mg/L | 6 | 510 | 610 | 30 | 1.000 | ves |
| Magnesium | mg/L | 1 | 30 | 130 | 30 | 1.000 | ves |
| Potassium | mg/L | 2 | 2.3 | 2.3 | 30 | 1.000 | yes |
| Sodium | mg/L | | 54 | 53 | 30 | 1.000 | yes |
| Date Acquire | ed: October 16, 2017 | | | | | | |
| Ηα | | 7. | .12 | 7.09 | 10 | | ves |
| ' Electrical Cor | nductivity dS/m at 25 °C | 1.4 | 64 | 1.462 | 10 | 0.005 | ves |
| Bicarbonate | mg/L | 5 | 577 | 573 | 10 | 10 | yes |
| Hydroxide | mg/L | | <5 | <5 | 10 | 10 | yes |
| P-Alkalinity | mg/L | | <5 | <5 | 10 | 5 | yes |
| T-Alkalinity | mg/L | 4 | 74 | 470 | 10 | 5 | yes |
| Chloride | mg/L | 10 | 0.1 | 10.1 | 20 | 0.250 | yes |
| Nitrate - N | mg/L | <0. | .01 | <0.01 | 20 | 0.050 | yes |
| Nitrite - N | mg/L | <0. | .01 | <0.01 | 20 | 0.050 | yes |
| Sulfate (SO4) | mg/L | 28 | 8.9 | 28.7 | 20 | 0.500 | yes |
| Date Acquire | ed: October 17, 2017 | | | | | | |
| Replicates | Units | Replicate | e 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Chloride | mg/L | - 1. | .21 | 1.19 | 6 | 0.010 | yes |
| Nitrate - N | mg/L | 0. | .28 | 0.28 | 12 | 0.050 | yes |
| Sulfate (SO4) | mg/L | 4 | 4.2 | 4.2 | 6 | 0.010 | yes |
| Date Acquire | ed: October 17, 2017 | | | | | | |
| Control Sample | e Units | Measur | ed | Lower Limit | Upper Limit | | Passed QC |
| рН | | 9. | .58 | 9.17 | 10.81 | | yes |
| Electrical Cor | nductivity µS/cm at 25 °C | 2 | 15 | 194 | 250 | | yes |
| P-Alkalinity | mg/L | | 20 | 7 | 55 | | yes |
| T-Alkalinity | mg/L | 1 | 07 | 98 | 113 | | yes |
| Date Acquire | ed: October 18, 2017 | | | | | | |

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Quality Control



| Bill To: | YTG DOE - Water Resources PO Box 2703 Whitehorse, YT, Canada | Project ID: Project Name: Project Location: | YOWN YOWN Beaver Creek area, YT | Lot ID: Control Number: Date Received: | 1232853 Oct 16, 2017 |
|--------------|--|---|---------------------------------------|--|--------------------------------|
| A | Y1A 2C6 | LSD: | | Date Reported: | Oct 20, 2017 |
| Attn: | Accounts Payable | P.O.: | | Report Number: | 2231381 |
| Sampled By: | Norbert Botca | Proj. Acct. code: | | | |
| Company: | YG-Environment | | | | |
| Routine Wat | er - Continued | | | | |
| Control Samp | ole Units | Measur | ed Lower Limit | Upper Limit | Passed QC |
| nН | | 1 | 00 3.88 | 1 1 2 | VOC |

| pH | 4.00 | 3.88 | 4.12 | yes |
|--|------|------|------|-----|
| Date Acquired: October 18, 2017 | | | | |
| рН | 7.98 | 7.88 | 8.12 | yes |
| Date Acquired: October 18, 2017 | | | | |
| Electrical Conductivity µS/cm at 25 °C | 1333 | 1323 | 1503 | yes |
| Date Acquired: October 18, 2017 | | | | |

Trace Metals Dissolved

| Blanks | Units | Measured | Lower Limit | Upper Limit | Passed QC |
|-------------------|------------------|--------------|-------------|-------------|-----------|
| Aluminum | μg/L | 0.735133 | -0.990 | 0.990 | yes |
| Antimony | μg/L | 0.0117377 | -0.020 | 0.020 | yes |
| Arsenic | μg/L | 0.0102365 | -0.099 | 0.099 | yes |
| Barium | µg/L | 0.0307205 | -0.099 | 0.099 | yes |
| Beryllium | μg/L | 0.00114552 | -0.050 | 0.050 | yes |
| Bismuth | μg/L | 0.00590358 | -0.099 | 0.099 | yes |
| Boron | μg/L | 0.825769 | -2.001 | 2.001 | yes |
| Cadmium | μg/L | 0.00316674 | -0.010 | 0.010 | yes |
| Chromium | μg/L | 0.00748825 | -0.050 | 0.050 | yes |
| Cobalt | μg/L | 0.0034834 | -0.020 | 0.020 | yes |
| Copper | μg/L | 0.0391938 | -0.050 | 0.050 | yes |
| Iron | μg/L | 0.101526 | -2.001 | 2.001 | yes |
| Lead | µg/L | 0.00681827 | -0.010 | 0.010 | yes |
| Lithium | μg/L | 0.0320158 | -0.500 | 0.500 | yes |
| Manganese | μg/L | 0.0526316 | -0.990 | 0.990 | yes |
| Molybdenum | μg/L | 0.00972457 | -0.020 | 0.020 | yes |
| Nickel | μg/L | 0.0654066 | -0.200 | 0.200 | yes |
| Selenium | μg/L | 0.0145008 | -0.200 | 0.200 | yes |
| Silver | μg/L | 0.00772779 | -0.009 | 0.009 | yes |
| Strontium | μg/L | -0.00692057 | -0.099 | 0.099 | yes |
| Tellurium | μg/L | 0.000637904 | -0.050 | 0.050 | yes |
| Thallium | μg/L | 0.00901452 | -0.010 | 0.010 | yes |
| Thorium | μg/L | -0.000354077 | -0.050 | 0.050 | yes |
| Tin | μg/L | 0.0367453 | -0.099 | 0.099 | yes |
| Titanium | μg/L | 0.026203 | -0.099 | 0.099 | yes |
| Uranium | μg/L | 0.00687617 | -0.010 | 0.010 | yes |
| Vanadium | μg/L | 0.00610335 | -0.050 | 0.050 | yes |
| Zinc | μg/L | 0.0293186 | -0.500 | 0.500 | yes |
| Zirconium | μg/L | 0.0308286 | -0.099 | 0.099 | yes |
| Date Acquired: | October 16, 2017 | | | | |
| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | Passed QC |
| Titanium | mg/L | 93.65 | 90 | 110 | yes |
| Date Acquired: | October 16, 2017 | | | | |
| Aluminum | μg/L | 107.42 | 80 | 120 | yes |
| Antimony | μg/L | 90.02 | 90 | 110 | yes |

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Quality Control



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1232853 |
|-------------|---------------------------|-------------------|-----------------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Beaver Creek area, YT | Date Received: | Oct 16, 2017 |
| | Y1A 2C6 | LSD: | | Date Reported: | Oct 20, 2017 |
| Attn: | Accounts Payable | P.O.: | | Report Number: | 2231381 |
| Sampled By: | Norbert Botca | Proj. Acct. code: | | | |
| Company: | YG-Environment | | | | |

Trace Metals Dissolved - Continued

| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | Passed QC |
|--------------------------|------------------|------------|-------------|-------------|------------|
| Arsenic | µg/L | 96.60 | 90 | 110 | yes |
| Barium | µg/L | 97.30 | 90 | 110 | yes |
| Beryllium | µg/L | 107.81 | 90 | 110 | yes |
| Boron | µg/L | 105.43 | 70 | 130 | yes |
| Cadmium | µg/L | 99.15 | 90 | 110 | yes |
| Chromium | µg/L | 104.14 | 90 | 110 | yes |
| Cobalt | µg/L | 99.64 | 90 | 110 | yes |
| Copper | µg/L | 103.53 | 90 | 110 | yes |
| Lead | µg/L | 101.33 | 90 | 110 | yes |
| Lithium | µg/L | 105.20 | 90 | 110 | yes |
| Molybdenum | µg/L | 91.85 | 90 | 110 | yes |
| Nickel | µg/L | 98.95 | 90 | 110 | yes |
| Selenium | µg/L | 100.64 | 90 | 110 | yes |
| Silver | µg/L | 93.13 | 90 | 110 | yes |
| Strontium | µg/L | 94.28 | 90 | 110 | yes |
| Thorium | µg/L | 108.10 | 90 | 110 | yes |
| Tin | µg/L | 91.89 | 90 | 110 | yes |
| Titanium | µg/L | 92.51 | 90 | 110 | yes |
| Uranium | µg/L | 102.76 | 90 | 110 | yes |
| Vanadium | µg/L | 103.06 | 90 | 110 | yes |
| Zinc | µg/L | 97.68 | 90 | 110 | yes |
| Date Acquired: | October 16, 2017 | | | | |
| Aluminum | ua/l | 91.80 | 80 | 120 | Ves |
| Antimony | µg/l | 95.17 | 90 | 110 | ves |
| Arsenic | µg/l | 92.72 | 90 | 110 | ves |
| Barium | µg/l | 91.47 | 90 | 110 | ves |
| BervIlium | µg/l | 101.11 | 90 | 110 | ves |
| Boron | µg/l | 98.47 | 80 | 120 | ves |
| Cadmium | µg/l | 97.66 | 90 | 110 | ves |
| Chromium | µg/l | 97.30 | 90 | 110 | ves |
| Cobalt | µg/l | 91.69 | 90 | 110 | ves |
| Copper | µg/l | 90.23 | 90 | 110 | ves |
| Lead | µg/l | 92.59 | 90 | 110 | ves |
| Lithium | µg/l | 98.80 | 90 | 110 | ves |
| Molybdenum | µg/l | 96.40 | 90 | 110 | ves |
| Nickel | µg/L | 94 69 | 90 | 110 | yes |
| Selenium | μg/L | 95.28 | 90 | 110 | yes |
| Silver | µg/L | 106.15 | 90 | 110 | yes |
| Strontium | µg/L | 94.55 | 90 | 110 | yes |
| Thallium | ⊷a, – | 94 74 | 90 | 110 | yes ves |
| Thorium | ⊷a, – | 103.99 | 86 | 122 | yes ves |
| Tin | ⊷a, – | 96.23 | 90 | 110 | yes ves |
| Titanium | ⊷a, – | 91 48 | 90 | 110 | yes ves |
| Uranium | ⊷a, – | 95 49 | 90 | 110 | yes ves |
| Vanadium | ⊷a, – | 94 96 | 90 | 110 | yes ves |
| | M9' L | 0-1.00 | | 110 | yes |

Quality Control



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1232853 |
|-------------|---------------------------|-------------------|-----------------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Beaver Creek area, YT | Date Received: | Oct 16, 2017 |
| | Y1A 2C6 | LSD: | | Date Reported: | Oct 20, 2017 |
| Attn: | Accounts Payable | P.O.: | | Report Number: | 2231381 |
| Sampled By: | Norbert Botca | Proj. Acct. code: | | | |
| Company: | YG-Environment | | | | |

Trace Metals Dissolved - Continued

| Calibration Check | | Units | % Recovery | Lower Limit | Upper Limit | | Passed QC |
|-------------------|---------|------------|-------------|-------------|----------------|-------------------|-----------|
| Zinc | | µg/L | 101.65 | 90 | 110 | | yes |
| Date Acquired: | Octobe | r 16, 2017 | | | | | |
| Client Sample Rep | licates | Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Aluminum | | µg/L | <10 | <10 | 20 | 20.000 | yes |
| Antimony | | µg/L | 1.5 | 1.8 | 20 | 1.000 | yes |
| Arsenic | | µg/L | 2 | 2 | 20 | 1.000 | yes |
| Barium | | µg/L | 58 | 52 | 20 | 5.000 | yes |
| Beryllium | | µg/L | <0.5 | <0.5 | 20 | 1.000 | yes |
| Boron | | µg/L | 330 | 280 | 20 | 5.000 | yes |
| Cadmium | | µg/L | 0.1 | 0.1 | 20 | 0.500 | yes |
| Chromium | | µg/L | <0.5 | <0.5 | 20 | 5.000 | yes |
| Cobalt | | µg/L | 1.9 | 1.7 | 20 | 0.500 | yes |
| Copper | | µg/L | <5 | <5 | 20 | 5.000 | yes |
| Iron | | µg/L | <20 | <20 | 20 | 50.000 | yes |
| Lead | | µg/L | <0.1 | <0.1 | 20 | 0.500 | yes |
| Lithium | | µg/L | 157 | 135 | 20 | 5.000 | yes |
| Manganese | | µg/L | 680 | 600 | 20 | 0.500 | yes |
| Molybdenum | | µg/L | 1.4 | 1.3 | 20 | 0.500 | yes |
| Nickel | | µg/L | 8 | 8 | 20 | 5.000 | yes |
| Selenium | | µg/L | 4 | 4 | 20 | 0.500 | yes |
| Silver | | µg/L | <0.1 | <0.1 | 20 | 0.500 | yes |
| Strontium | | µg/L | 1777 | 1538 | 20 | 0.500 | yes |
| Tellurium | | µg/L | <0.5 | <0.5 | 20 | 0.500 | yes |
| Thallium | | µg/L | <0.1 | <0.1 | 20 | 0.100 | yes |
| Thorium | | µg/L | <0.5 | <0.5 | 20 | 0.100 | yes |
| Tin | | µg/L | <1 | <1 | 20 | 0.500 | yes |
| Titanium | | µg/L | 3 | 2 | 20 | 0.500 | yes |
| Uranium | | µg/L | 32.4 | 27.9 | 20 | 0.100 | yes |
| Vanadium | | µg/L | <0.5 | <0.5 | 20 | 0.500 | yes |
| Zinc | | µg/L | <5 | 6 | 20 | 5.000 | yes |
| Zirconium | | µg/L | <1 | 1 | 20 | 0.500 | yes |
| Date Acquired: | Octobe | r 16, 2017 | | | | | |

Methodology and Notes



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1232853 |
|-------------|---------------------------|-------------------|-----------------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Beaver Creek area, YT | Date Received: | Oct 16, 2017 |
| | Y1A 2C6 | LSD: | | Date Reported: | Oct 20, 2017 |
| Attn: | Accounts Payable | P.O.: | | Report Number: | 2231381 |
| Sampled By: | Norbert Botca | Proj. Acct. code: | | | |
| Company: | YG-Environment | | | | |

Method of Analysis

| Method Name | Reference | Method | Date Analysis Started | Location |
|---|-----------|---|--------------------------|----------------|
| Alk, pH, EC, Turb in water (Surrey) | APHA | * Alkalinity - Titration Method, 2320 B | Oct 18, 2017 | Exova Surrey |
| Alk, pH, EC, Turb in water (Surrey) | APHA | * Conductivity, 2510 B | Oct 18, 2017 | Exova Surrey |
| Alk, pH, EC, Turb in water (Surrey) | APHA | * pH - Electrometric Method, 4500-H+ B | Oct 18, 2017 | Exova Surrey |
| Ammonia-N in Water (Surrey) | APHA | * Flow Injection Analysis, 4500-NH3 H | Oct 19, 2017 | Exova Surrey |
| Anions by IEC in water (Surrey) | APHA | Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B | Oct 17, 2017 | Exova Surrey |
| Carbon Inorganic (Dissolved) in water(DIC) | APHA | High-Temperature Combustion Method, 5310 B | Oct 18, 2017 | Exova Edmonton |
| Carbon Inorganic (Total) in water (TIC) | APHA | High-Temperature Combustion Method, 5310 B | Oct 18, 2017 | Exova Edmonton |
| Carbon Organic (Dissolved) in water (DOC) | APHA | High-Temperature Combustion Method, 5310 B | Oct 18, 2017 | Exova Edmonton |
| Carbon Organic (Total) in water (TOC) | APHA | High-Temperature Combustion Method, 5310 B | Oct 18, 2017 | Exova Edmonton |
| Mercury Low Level (Dissolved) in water (Surrey) | EPA | * Mercury in Water by Cold Vapor Atomic Fluorescence Spectrometry, 245.7 | Oct 17, 2017 | Exova Surrey |
| Metals SemiTrace (Dissolved) in water (Surrey) | US EPA | * Metals & Trace Elements by ICP-AES, 6010C | Oct 16, 2017 | Exova Surrey |
| Phosphorus - total by Smartchem (Surrey) | APHA | * Persulfate digestion method, 4500-P B5 | Oct 17, 2017 | Exova Surrey |
| Solids Dissolved (Total, Fixed and Volatile) - Surrey | APHA | Total Dissolved Solids Dried at 180 C, 2540 C | Oct 16, 2017 | Exova Surrey |
| Total and Kjeldahl Nitrogen (Total) in Water | ISO | * Water Quality - Determination of nitrogen, ISO/TR 11905-2 | Oct 17, 2017 | Exova Edmonton |
| Trace Metals (dissolved) in Water (Surrey) | US EPA | Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8 | Oct 16, 2017 | Exova Surrey |
| | | * Reference Method Modified | | |

References

| APHA | Standard Methods for the Examination of Water and Wastewater |
|--------|--|
| EPA | Environmental Protection Agency Test Methods - US |
| ISO | International Organization for Standardization |
| US EPA | US Environmental Protection Agency Test Methods |

Comments:

• Oct 18, 2017 - Sample 1232853-1; 5875524: Analysis was performed on sample 1232853-1, 1232853-2 and 1232853-3 that exceeded the recommended holding time for nitrite and nitrate analysis.

Methodology and Notes



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1232853 |
|-------------|---------------------------|-------------------|-----------------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Beaver Creek area, YT | Date Received: | Oct 16, 2017 |
| | Y1A 2C6 | LSD: | | Date Reported: | Oct 20, 2017 |
| Attn: | Accounts Payable | P.O.: | | Report Number: | 2231381 |
| Sampled By: | Norbert Botca | Proj. Acct. code: | | | |
| Company: | YG-Environment | | | | |

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Report Transmission Cover Page



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1234110 |
|-------------|---------------------------|-------------------|--------------------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Haines Junction area, YT | Date Received: | Oct 20, 2017 |
| | Y1A 2C6 | LSD: | | Date Reported: | Oct 26, 2017 |
| Attn: | Accounts Payable | P.O.: | C00037999 | Report Number: | 2233684 |
| Sampled By: | Norbert Botca | Proj. Acct. code: | | | |
| Company: | YG-Environment | | | | |

| Contact | Company | Address | | |
|----------------------------|---------------------------|---------------------------------|------|----------------|
| Holly Goulding | YTG DOE - Water Resources | 202, 419 Range Road | | |
| | | Whitehorse, YT Y1A 3V1 | | |
| | | Phone: (867) 456-6583 | Fax: | (867) 667-3194 |
| | | Email: holly.goulding@gov.yk.ca | | |
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| Email - Single Report | EQWin | Test Report | | |
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| John Miller | YTG DOE - Water Resources | 202, 419 Range Road | | • |
| | | Whitehorse, YT Y1A 3V1 | | |
| | | Phone: (867) 667-3104 | Fax: | (867) 667-3194 |
| | | Email: john.miller@gov.yk.ca | | |
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| Email - Multiple Reports B | y Lot PDF | COC / Test Report | | |
| Email - Single Report | PDF | COA | | |
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| Norbert Botca | YTG DOE - Water Resources | 203, 1191 Front Street | | |
| | | Whitehorse, YT Y1A 0K5 | | |
| | | Phone: (867) 667-3512 | Fax: | (867) 667-3194 |
| | | Email: norbert.botca@gov.yk.ca | | |
| Delivery | Format | Deliverables | | |
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| Email - Multiple Reports B | y Lot PDF | COC / Test Report | | |
| Email - Single Report | PDF | COA | | |
| Email - Single Report | PDF | COR | | |
| Email - Single Report | PDF | Invoice | | |
| Tyler Williams | YTG DOE - Water Resources | 202, 419 Range Road | | |
| | | Whitehorse, YT Y1A 3V1 | | |
| | | Phone: (867) 667-3233 | Fax: | (867) 667-3194 |
| | | Email: Tyler.Williams@gov.yk.ca | | |
| Delivery | Format | Deliverables | | |
| Email - Multiple Reports B | y Lot EQWin | Test Report | | |
| Email - Multiple Reports B | y Lot PDF | COC / Test Report | | |

Notes To Clients:

• Oct 23, 2017 - Reduction of analytical volume was necessary for metals analysis to bring results within the analytical range for sample #1234110-1. Detection limits are adjusted accordingly.

• Oct 25, 2017 - Sample 1234110-4; 5883399: Reduction of analytical volume was necessary for sulfate to bring results within the analytical range for sample 1234110-4. Detection limits are adjusted accordingly.

• Oct 25, 2017 - Sample 1234110-1; 5883396: Reduction of analytical volume was necessary for anions due to matrix effects in sample 1234110-1. Detection limits are adjusted accordingly.

• Oct 25, 2017 - Sample 1234110-4; 5883399: Reduction of analytical volume was necessary for sulfate to bring results within the analytical range for

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Report Transmission Cover Page



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1234110 |
|-------------|---------------------------|-------------------|--------------------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Haines Junction area, YT | Date Received: | Oct 20, 2017 |
| | Y1A 2C6 | LSD: | | Date Reported: | Oct 26, 2017 |
| Attn: | Accounts Payable | P.O.: | C00037999 | Report Number: | 2233684 |
| Sampled By: | Norbert Botca | Proj. Acct. code: | | | |
| Company: | YG-Environment | | | | |

Notes To Clients:

sample 1234110-4. Detection limits are adjusted accordingly.

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Oct 25, 2017 - Total organic carbon was less than dissolved organic carbon for sample 1234110-4. The results were verified and are within expected measurement uncertainty.

[•] Oct 25, 2017 - Reduction of analytical volume was necessary for boron analysis to bring results within the analytical range for sample #1234110-1. Detection limits are adjusted accordingly.

[•] Oct 26, 2017 - Sample 1234110-1; 5883396: Reduction of analytical volume was necessary for fluoride to bring results within the analytical range for sample 1234110-1. Detection limits are adjusted accordingly.

Analytical Report



| Bill To: Attn: Sampled By: Company: | YTG DOE - Water Resources PO Box 2703 Whitehorse, YT, Canada Y1A 2C6 Accounts Payable Norbert Botca YG-Environment | Project ID: Project Name: Project Location: LSD: P.O.: Proj. Acct. code: | YOWN YOWN Haines Junction area, YT C00037999 | Lo Control Nurr Date Recei Date Repo Report Nurr | t ID: 1234110 aber: ved: Oct 20, 2017 rted: Oct 26, 2017 aber: 2233684 | |
|--|--|---|---|--|---|-------------------|
| | | Reference Numb | er 1234110-1 | 1234110-2 | 1234110-3 | |
| | | Sample Da | oct 17, 2017 | Oct 17, 2017 | Oct 17, 2017 | |
| | | Sample Tin | ne 13:18 | 11:40 | 10:35 | |
| | | Sample Location | on | | | |
| | | Sample Description | on YOWN-1506 / 2017259 / 4.1°C / B | YOWN-1514 / 2017257 / 4.1°C / B | YOWN-1515 / 2017258 / 4.1°C / B | |
| | | Mati | rix Water | Water | Water | |
| Analyte | | Units | Results | Results | Results | Nominal Detection |
| Inorganic Nonm | netallic Parameters | | | | | Linnt |
| Nitrogen | Total | mg/L | 0.69 | 1.31 | 0.34 | 0.06 |
| Organic Carbon | Total Nonpurgeable | mg/L | 0.9 | 1.4 | 0.7 | 0.5 |
| Organic Carbon | Dissolved Nonpurge | eable mg/L | <0.5 | 1.0 | <0.5 | 0.5 |
| Inorganic carbo | n Total | mg/L | 186 | 7.3 | 4 | 0.5 |
| Inorganic carbo | n Dissolved | mg/L | 188 | 7.3 | 4 | 0.5 |
| Ammonia - N | | mg/L | 0.30 | 0.85 | <0.01 | 0.01 |
| Phosphorus | Total | mg/L | 0.021 | 0.008 | 0.004 | 0.003 |
| Metals Dissolve | d | - | | | | |
| Mercury | Dissolved | mg/L | <0.00001 | <0.00001 | <0.00001 | 0.00001 |
| Physical and Ag | ggregate Properties | - | | | | |
| Solids | Total Dissolved | mg/L | 1000 | 26 | <5 | 5 |
| Routine Water | | | | | | |
| pH - Holding Tin | ne | | Exceeded | Exceeded | Exceeded | |
| рН | at 25 °C | | 11.12 | 9.12 | 7.76 | |
| Electrical Condu | uctivity | μS/cm at 2 °C | 5 432 | 1603 | 70 | 1 |
| Calcium | Dissolved | mg/L | 1.4 | 5.4 | 3.4 | 0.01 |
| Magnesium | Dissolved | mg/L | 0.70 | 0.37 | 0.21 | 0.02 |
| Potassium | Dissolved | mg/L | 1.0 | 1.5 | 0.73 | 0.04 |
| Silicon | Dissolved | mg/L | 3.2 | 0.085 | 0.16 | 0.005 |
| Sodium | Dissolved | mg/L | 400 | 5.4 | 1.6 | 0.1 |
| Sulfur | Dissolved | mg/L | 0.08 | 0.16 | 0.14 | 0.02 |
| Bicarbonate | | mg/L | <5 | 654 | 38 | 5 |
| Carbonate | | mg/L | 18 | 194 | <6 | 6 |
| Hydroxide | | mg/L | 33 | <5 | <5 | 5 |
| P-Alkalinity | as CaCO3 | mg/L | 111 | 162 | <5 | 5 |
| T-Alkalinity | as CaCO3 | mg/L | 126 | 861 | 31 | 5 |
| Chloride | Dissolved | mg/L | 26.9 | 3.91 | 0.17 | 0.05 |
| Fluoride | Dissolved | mg/L | 31 | 0.08 | 0.30 | 0.01 |
| Nitrate - N | Dissolved | mg/L | 0.2 | <0.01 | <0.01 | 0.01 |
| Nitrite - N | Dissolved | mg/L | <0.1 | <0.01 | <0.01 | 0.01 |
| Sulfate (SO4) | Dissolved | mg/L | 1 | <0.1 | 0.2 | 0.1 |
| Hardness | as CaCO3 (dissolve | ed) mg/L | 6.3 | 15 | 9.4 | 5 |
| Trace Metals Di | ssolved | | | | | |
| Digestion | Dissolved | | Field filtered and Pres Dissol | Field filtered and Pres Dissol | Field filtered and Pres Dissol | |
| Titanium | Dissolved | mg/L | <0.002 | <0.002 | <0.002 | 0.002 |
| Aluminum | Dissolved | mg/L | 0.002 | <0.001 | 0.001 | 0.001 |
| Antimony | Dissolved | mg/L | 0.00013 | 0.00006 | 0.00006 | 0.00002 |

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Analytical Report



| Bill To: Attn: Sampled By: Company: | YTG DOE - Water Resources PO Box 2703 Whitehorse, YT, Canada Y1A 2C6 Accounts Payable Norbert Botca YG-Environment | Project ID: Project Name: Project Location: LSD: P.O.: Proj. Acct. code: Reference Number | YOWN YOWN Haines Junction area, Y C00037999 | Lo Control Nun T Date Rece Date Report Report Nun 1234110-2 | 1234110 nber: ived: Oct 20, 2017 rted: Oct 26, 2017 nber: 2233684 | |
|--|--|---|--|--|---|----------------------------|
| | | Sample Date | Oct 17, 2017 | Oct 17, 2017 | Oct 17, 2017 | |
| | | Sample Time | 13:18 | 11:40 | 10:35 | |
| | | Sample Location | | - | | |
| | | Sample Description | YOWN-1506 / 2017259 / 4.1°C / B | YOWN-1514 / 2017257 / 4.1°C / B | YOWN-1515 / 2017258 / 4.1°C / B | |
| | | Matrix | Water | Water | Water | |
| Analyte | | Units | Results | Results | Results | Nominal Detection Limit |
| Trace Metals Di | ssolved - Continued | | | | | |
| Arsenic | Dissolved | mg/L | <0.0001 | <0.0001 | <0.0001 | 0.0001 |
| Barium | Dissolved | mg/L | 0.0200 | 0.0046 | 0.0079 | 0.0001 |
| Beryllium | Dissolved | mg/L | 0.00007 | <0.00005 | <0.00005 | 0.00005 |
| Bismuth | Dissolved | mg/L | <0.0001 | <0.0001 | <0.0001 | 0.0001 |
| Boron | Dissolved | mg/L | 18.86 | 0.050 | 0.021 | 0.002 |
| Cadmium | Dissolved | mg/L | <0.00001 | <0.00001 | <0.00001 | 0.00001 |
| Chromium | Dissolved | mg/L | <0.00005 | <0.00005 | <0.00005 | 0.00005 |
| Cobalt | Dissolved | mg/L | <0.00002 | <0.00002 | 0.00003 | 0.00002 |
| Copper | Dissolved | mg/L | <0.0005 | <0.0005 | <0.0005 | 0.0005 |
| Iron | Dissolved | mg/L | 0.148 | 0.012 | 0.003 | 0.002 |
| Lead | Dissolved | mg/L | <0.00001 | <0.00001 | <0.00001 | 0.00001 |
| Lithium | Dissolved | mg/L | 0.0156 | <0.0005 | 0.0108 | 0.0005 |
| Manganese | Dissolved | mg/L | 0.003 | 0.015 | 0.011 | 0.001 |
| Molybdenum | Dissolved | mg/L | 0.00003 | 0.00691 | 0.00262 | 0.00002 |
| Nickel | Dissolved | mg/L | < 0.0002 | 0.0003 | 0.0017 | 0.0002 |
| Selenium | Dissolved | mg/L | <0.0002 | <0.0002 | <0.0002 | 0.0002 |
| Silver | Dissolved | mg/L | 0.00001 | <0.00001 | <0.00001 | 0.00001 |
| Strontium | Dissolved | mg/L | 0.1365 | 0.0302 | 0.0161 | 0.0001 |
| Tellurium | Dissolved | mg/L | <0.00005 | <0.00005 | <0.00005 | 0.00005 |
| Thallium | Dissolved | mg/L | <0.00001 | <0.00001 | <0.00001 | 0.00001 |
| Thorium | Dissolved | mg/L | 0.00243 | <0.00005 | <0.00005 | 0.00005 |
| Tin | Dissolved | mg/L | <0.0001 | <0.0001 | <0.0001 | 0.0001 |
| Uranium | Dissolved | mg/L | 0.00025 | <0.00001 | <0.00001 | 0.00001 |
| Vanadium | Dissolved | mg/L | <0.00005 | <0.00005 | <0.00005 | 0.00005 |
| Zinc | Dissolved | mg/L | <0.0005 | <0.0005 | <0.0005 | 0.0005 |
| Zirconium | Dissolved | mg/L | 0.0116 | <0.0001 | <0.0001 | 0.0001 |

Analytical Report



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1234110 |
|-------------|---------------------------|-------------------|--------------------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Haines Junction area, YT | Date Received: | Oct 20, 2017 |
| | Y1A 2C6 | LSD: | | Date Reported: | Oct 26, 2017 |
| Attn: | Accounts Payable | P.O.: | C00037999 | Report Number: | 2233684 |
| Sampled By: | Norbert Botca | Proj. Acct. code: | | | |
| Company: | YG-Environment | | | | |
| | | Reference Numb | er 1234110-4 | | |

Oct 18, 2017

10:12

Sample Date

Sample Time

| | Sa Sam | ample Location ple Description | YOWN-1604 / 2017260 / 4.1°C / B | | | |
|--------------------------|------------------------|-----------------------------------|------------------------------------|---------|---------|-------------------|
| | | Matrix | Water | | | |
| Analyte | | Units | Results | Results | Results | Nominal Detection |
| Inorganic Nonmetallic Pa | arameters | | | | | Linit |
| Nitrogen | Total | mg/L | 0.35 | | | 0.06 |
| Organic Carbon | Total Nonpurgeable | mg/L | 0.8 | | | 0.5 |
| Organic Carbon | Dissolved Nonpurgeable | mg/L | 0.9 | | | 0.5 |
| Inorganic carbon | Total | mg/L | 5.1 | | | 0.5 |
| Inorganic carbon | Dissolved | mg/L | 5.1 | | | 0.5 |
| Ammonia - N | | mg/L | 0.03 | | | 0.01 |
| Phosphorus | Total | mg/L | < 0.003 | | | 0.003 |
| Metals Dissolved | | - | | | | |
| Mercury | Dissolved | mg/L | <0.00001 | | | 0.00001 |
| Physical and Aggregate | Properties | - | | | | |
| Solids | Total Dissolved | mg/L | 270 | | | 5 |
| Routine Water | | 0 | | | | |
| pH - Holding Time | | | Exceeded | | | |
| pH | at 25 °C | | 7.05 | | | |
| Electrical Conductivity | | µS/cm at 25 ℃ | 29 | | | 1 |
| Calcium | Dissolved | mg/L | 14 | | | 0.01 |
| Magnesium | Dissolved | mg/L | 5.9 | | | 0.02 |
| Potassium | Dissolved | mg/L | 2.6 | | | 0.04 |
| Silicon | Dissolved | mg/L | 0.010 | | | 0.005 |
| Sodium | Dissolved | mg/L | 38 | | | 0.1 |
| Sulfur | Dissolved | mg/L | 37 | | | 0.02 |
| Bicarbonate | | mg/L | 16 | | | 5 |
| Carbonate | | mg/L | <6 | | | 6 |
| Hydroxide | | mg/L | <5 | | | 5 |
| P-Alkalinity | as CaCO3 | mg/L | <5 | | | 5 |
| T-Alkalinity | as CaCO3 | mg/L | 13 | | | 5 |
| Chloride | Dissolved | mg/L | 1.30 | | | 0.05 |
| Fluoride | Dissolved | mg/L | 0.27 | | | 0.01 |
| Nitrate - N | Dissolved | mg/L | 0.01 | | | 0.01 |
| Nitrite - N | Dissolved | mg/L | <0.01 | | | 0.01 |
| Sulfate (SO4) | Dissolved | mg/L | 125 | | | 0.1 |
| Hardness | as CaCO3 (dissolved) | mg/L | 58 | | | 5 |
| Trace Metals Dissolved | | - | | | | |
| Digestion | Dissolved | | Field filtered and Pres Dissol | | | |
| Titanium | Dissolved | mg/L | <0.002 | | | 0.002 |
| Aluminum | Dissolved | mg/L | <0.001 | | | 0.001 |
| Antimony | Dissolved | mg/L | 0.00009 | | | 0.00002 |

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Analytical Report



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1234110 |
|-------------|---------------------------|-------------------|--------------------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Haines Junction area, YT | Date Received: | Oct 20, 2017 |
| | Y1A 2C6 | LSD: | | Date Reported: | Oct 26, 2017 |
| Attn: | Accounts Payable | P.O.: | C00037999 | Report Number: | 2233684 |
| Sampled By: | Norbert Botca | Proj. Acct. code: | | | |
| Company: | YG-Environment | | | | |

1234110-4

Reference Number

| | | Sample Date Sample Time | Oct 18, 2017 10:12 | | | |
|----------------------|-----------------|---------------------------------------|------------------------------------|---------|---------|----------------------------|
| | | Sample Location Sample Description | YOWN-1604 / 2017260 / 4.1°C / B | | | |
| | | Matrix | Water | | | |
| Analyte | | Units | Results | Results | Results | Nominal Detection Limit |
| Trace Metals Dissolv | ved - Continued | | | | | |
| Arsenic | Dissolved | mg/L | <0.0001 | | | 0.0001 |
| Barium | Dissolved | mg/L | 0.0026 | | | 0.0001 |
| Beryllium | Dissolved | mg/L | <0.00005 | | | 0.00005 |
| Bismuth | Dissolved | mg/L | <0.0001 | | | 0.0001 |
| Boron | Dissolved | mg/L | 0.026 | | | 0.002 |
| Cadmium | Dissolved | mg/L | <0.00001 | | | 0.00001 |
| Chromium | Dissolved | mg/L | <0.00005 | | | 0.00005 |
| Cobalt | Dissolved | mg/L | 0.00006 | | | 0.00002 |
| Copper | Dissolved | mg/L | <0.0005 | | | 0.0005 |
| Iron | Dissolved | mg/L | 0.740 | | | 0.002 |
| Lead | Dissolved | mg/L | <0.00001 | | | 0.00001 |
| Lithium | Dissolved | mg/L | 0.0092 | | | 0.0005 |
| Manganese | Dissolved | mg/L | 0.235 | | | 0.001 |
| Molybdenum | Dissolved | mg/L | 0.00266 | | | 0.00002 |
| Nickel | Dissolved | mg/L | 0.0009 | | | 0.0002 |
| Selenium | Dissolved | mg/L | <0.0002 | | | 0.0002 |
| Silver | Dissolved | mg/L | <0.00001 | | | 0.00001 |
| Strontium | Dissolved | mg/L | 0.1709 | | | 0.0001 |
| Tellurium | Dissolved | mg/L | <0.00005 | | | 0.00005 |
| Thallium | Dissolved | mg/L | <0.00001 | | | 0.00001 |
| Thorium | Dissolved | mg/L | <0.00005 | | | 0.00005 |
| Tin | Dissolved | mg/L | <0.0001 | | | 0.0001 |
| Uranium | Dissolved | mg/L | <0.00001 | | | 0.00001 |
| Vanadium | Dissolved | mg/L | <0.00005 | | | 0.00005 |
| Zinc | Dissolved | mg/L | <0.0005 | | | 0.0005 |
| Zirconium | Dissolved | mg/L | <0.0001 | | | 0.0001 |

Mathier amis

Mathieu Simoneau **Operations Manager**

Approved by:

Data have been validated by Analytical Quality Control and Exova's Integrated Data Validation System (IDVS). Generation and distribution of the report, and approval by the digitized signature above, are performed through a secure and controlled automatic process.

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Quality Control



| Whitehorse, YT, Canada Project Location: Haines Junction area, YT Date Receive Y1A 2C6 LSD: Date Reporte Attn: Accounts Payable P.O.: C00037999 Report Number Sampled By: Norbert Botca Proj. Acct. code: VG-Environment | dct 20, 2017 dct 26, 2017 r: 2233684 | |
|--|--|---------------|
| Inorganic Nonmetallic Parameters | | |
| Blanks Units Measured Lower Limit Upper Limit | | Passed QC |
| Ammonium - N μg/L -8.389 -110.00 10.00 | | yes |
| Prosphorus mg/L -0.001 -0.003 0.003 | | yes |
| Date Acquired. October 23, 2017 | | |
| Nitrogen mg/L 0 -0.04 0.08 | | yes |
| Organic Carbon mg/L 0.03132 -0.5 0.5 Inorganic carbon mg/L 0.1266 0.5 0.5 | | yes |
| Date Acquired: October 25, 2017 | | yes |
| Calibration Charles Units (/ Descurry Lewer Limit | | Deserved O.C. |
| Calibration Check Units % Recovery Lower Limit Upper Limit | | Passed QC |
| Animonium - N µg/L 110.27 65 115 | | yes |
| Date Acquired: October 23, 2017 | | yes |
| Ammonium N | | |
| Ammonum - N μg/L 114.72 70 130 | | yes |
| Phospholus ingle 100.00 00 120 | | yes |
| Date Acquired. October 25, 2017 | | D |
| Client Sample Replicates Units Replicate 1 Replicate 2 % RSD Criteria | Absolute Criteria | Passed QC |
| Nitrogen mg/L 0.66 10 Organia Carbon mg/L 7.2 7.2 10 | 0.06 | yes |
| Inorganic Carbon mg/l 188 188 10 | 1.0 | yes |
| Date Acquired: October 25, 2017 | 1.0 | yes |
| | 50.00 | |
| Annhonia - N Ing/L 2.09 2.09 20 | 50.00 | yes |
| | | - |
| Control Sample Units Measured Lower Limit Upper Limit | | Passed QC |
| Organic Carbon Ing/L <0.5 -0.5 0.5 | | yes |
| Date Acquired. October 24, 2017 | | |
| Nitrogen mg/L 126 103.74 137.28 | | yes |
| Organic Carbon mg/L 128 112.1 136.6 | | yes |
| Inorganic carbon Ingr 47.2 59.0 57.0 Data Acquired: October 25, 2017 | | yes |
| | | |
| Nitrogen mg/L 15.3 13.27 16.93 | | yes |
| Organic Carbon mg/L 14.9 12.8 17.2 Ipergenic carbon mg/L 16.4 12.5 18.2 | | yes |
| Date Acquired: October 25, 2017 | | yes |
| | | |
| Nitrogen mg/L 1.08 0.89 1.25 Organia Carbon mg/L 2.0 2.4 4.0 | | yes |
| $\frac{1}{2} \frac{1}{2} \frac{1}$ | | yes |
| Date Acquired: October 25, 2017 | | yes |
| Desphorus ma/l 0.445 0.290 0.502 | | |
| Friusphorus IIIg/L 0.445 0.389 0.503 | | yes |
| Date Acquired. October 25, 2017 | | |
| Metals Dissolved | | |
| Blanks Units Measured Lower Limit Upper Limit | | Passed QC |
| Mercury ng/L -0.3 -9.99 9.99 | | yes |

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Date Acquired: October 23, 2017

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Quality Control



| Bill To: YTG PO Whi Y1A Attn: Acc Sampled By: Norl Company: YG- | DOE - Water Resources Box 2703 tehorse, YT, Canada 2C6 ounts Payable bert Botca Environment | Project ID: Project Name: Project Location: LSD: P.O.: Proj. Acct. code: | ct ID: YOWN ct Name: YOWN ct Location: Haines Junction area, YT C00037999 Acct. code: | | Lot ID Control Number Date Received Date Reported Report Number | 1234110 Oct 20, 2017 Oct 26, 2017 2233684 | |
|---|---|---|---|-------------|---|---|--------------|
| Metals Dissolved | d - Continued | ~ - | | | | | |
| Calibration Check | Units | % Recove | ery | Lower Limit | Upper Limit | | Passed QC |
| Mercury | ng/L | 107 | .40 | 90 | 110 | | yes |
| Date Acquired: | October 23, 2017 | | | | | | D 100 |
| Certified Reference | e Material Units | Measur | ed | Target | Lower Limit | Upper Limit | Passed QC |
| Mercury | µg/L | 0 | .03 | 0.04 | 0.02 | 0.05 | yes |
| Date Acquired: | October 23, 2017 | | | | | | |
| Client Sample Rep | licates Units | Replicat | e 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Date Acquired: | µg/L October 23, 2017 | <0 | .01 | <0.01 | 20 | 0.05 | yes |
| Date Acquired. | October 23, 2017 | | | | | | |
| Physical and Ag | gregate Properties | | | | | | |
| Client Sample Rep | licates Units | Replicat | e 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Solids | mg/L | | 10 | <5 | 30 | 50.000 | yes |
| Date Acquired: | October 23, 2017 | | | | | | |
| Control Sample | Units | Measur | ed | Lower Limit | Upper Limit | | Passed QC |
| Solids | mg/L | 5 | 20 | 412.000 | 610.600 | | yes |
| Date Acquired: | October 23, 2017 | | | | | | |
| Solids | mg/L | | 32 | 18.000 | 37.200 | | yes |
| Date Acquired: | October 23, 2017 | | | | | | |
| Solids | mg/L | | <5 | -5.001 | 5.001 | | yes |
| Date Acquired: | October 23, 2017 | | | | | | |
| Routine Water | | | | | | | |
| Blanks | Units | Measur | ed | Lower Limit | Upper Limit | | Passed QC |
| Calcium | mg/L | -0.009536 | 614 | -0.010 | 0.010 | | yes |
| Magnesium | mg/L | -0.0110 | 800 | -0.020 | 0.020 | | yes |
| Potassium | mg/L | -0.002878 | 871 | -0.040 | 0.040 | | yes |
| Silicon | mg/L | 0.004938 | 899 | -0.005 | 0.005 | | yes |
| Sodium | mg/L | 0.00680 | 99 | -0.099 | 0.099 | | yes |
| Date Acquired: | October 23, 2017 | | | | | | |
| Chloride | mg/L | 0.0253 | 844 | -0.201 | 0.201 | | yes |
| Fluoride | mg/L | 0.007500 | 0 | -0.099 | 0.099 | | yes |
| Nitrate - N | mg/L | 0.007590 | 0 | -0.010 | 0.010 | | yes |
| Sulfate (SO4) | mg/L | | 0 | -0.099 | 0.099 | | yes |
| Date Acquired: | October 20, 2017 | | 0 | 0.000 | 0.000 | | yes |
| Calibration Check | | % Bocov | NF 1/ | Lower Limit | Uppor Limit | | Passad OC |
| Calcium | ma/l | /0 Recove | 54 | | | | 1 03350 40 |
| Magnesium | ma/l | 904 | .06 | 90 | 110 | | VAS |
| Potassium | ma/L | 95 | .90 | 90 | 110 | | ves |
| Silicon | mg/L | 93 | .14 | 90 | 110 | | yes |
| Sodium | mg/L | 94 | .02 | 90 | 110 | | yes |
| Date Acquired: | October 23, 2017 | | | | | | |
| Chloride | mg/L | 101 | .10 | 85 | 115 | | yes |
| | | | | | | | |

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Quality Control



| Bill To: Y F V Attn: A Sampled By: N | (TG DOE -) PO Box 2703 Whitehorse, (1A 2C6 Accounts Pa Norbert Boto (G-Environn | Water Resources 3 YT, Canada yable a | Project ID: Project Name: Project Location: LSD: P.O.: Proj. Acct. code: | YOWN YOWN Haines C0003 | I S Junction area, YT 7999 | Control N Date Re Date Re Report N | Lot ID: umber: ceived: ported: umber: | 1234110 Oct 20, 2017 Oct 26, 2017 2233684 | |
|--|--|--|---|---------------------------------|----------------------------------|---|---|---|--------------|
| Company. | | nent | | | | | | | |
| Routine Water | · - Contin | ued | 24 D | | | | •. | | D 100 |
| Calibration Che | CK | Units | % Recov | ery | Lower Limit | Upper Lin | nit | | Passed QC |
| Fluoride | | mg/L | 103 | 5.74 x 02 | 85 | 1 | 15 4 - | | yes |
| Nitrate - N | | mg/L | 99 | .93 | 68 | 1 | 15 | | yes |
| Nitrite - N | | mg/L | 95 | 0.62 | 90 | 1 | 10 | | yes |
| Suitate (SO4) | | mg/L | 102 | .40 | 68 | 1 | 15 | | yes |
| Date Acquire | d: Octobe | er 20, 2017 | | | | | | | |
| Chloride | | mg/L | 100 | 0.80 | 90 | 1 | 10 | | yes |
| Fluoride | | mg/L | 98 | 8.90 | 89 | 1 | 09 | | yes |
| Nitrate - N | | mg/L | 99 | .28 | 88 | 1 | 08 | | yes |
| Nitrite - N | | mg/L | 99 | 9.55 | 90 | 1 | 18 | | yes |
| Sulfate (SO4) | | mg/L | 102 | 2.28 | 90 | 1 | 10 | | yes |
| Date Acquire | d: Octobe | er 20, 2017 | | | | | | | |
| Calcium | | mg/L | 93 | 8.76 | 90 | 1 | 10 | | yes |
| Magnesium | | mg/L | 104 | .20 | 90 | 1 | 10 | | yes |
| Potassium | | mg/L | 103 | 3.63 | 90 | 1 | 10 | | yes |
| Sodium | | mg/L | 99 | .48 | 90 | 1 | 10 | | yes |
| Date Acquire | d: Octobe | er 23, 2017 | | | | | | | |
| Certified Refere | nce Materia | al Units | Measu | red | Target | Lower Lin | nit | Upper Limit | Passed QC |
| T-Alkalinity | | mg/L | | 10 | 10 | | 8 | 12 | yes |
| Date Acquire | d: Octobe | er 21. 2017 | | | | | | | 2 |
| Client Sample R | Replicates | Units | Replicat | e 1 | Replicate 2 | % RSD Crite | ria <i>I</i> | Absolute Criteria | Passed QC |
| Calcium | tophoutoo | ma/l | rophou | 420 | 400 | | 30 | 1 000 | ves |
| Magnesium | | mg/L | | 150 | 140 | | 30 | 1.000 | ves |
| Potassium | | mg/L | | 28 | 26 | | 30 | 1.000 | ves |
| Silicon | | mg/l | | 3.9 | 3.7 | | 30 | 0.150 | ves |
| Sodium | | mg/l | | 98 | 93 | | 30 | 1 000 | ves |
| Sulfur | | mg/l | | 440 | 430 | | 30 | 3,000 | ves |
| Date Acquire | d [.] Octobe | ar 23 2017 | | | | | 00 | 0.000 | ,00 |
| | u. 001000 | . 20, 2017 | | 0.00 | 7.04 | | 10 | | |
| pH Oblasida | | | 8 | 5.03 | 7.81 | | 10 | 0.050 | yes |
| Chionde | | mg/L | 4 | .97 | 4.96 | | 20 | 0.250 | yes |
| Fluoride | | mg/L | | 1.03 | 0.03 | | 20 | 0.050 | yes |
| Nilfale - N | | mg/L | C | 0.12 | 5.12 | | 20 | 0.050 | yes |
| Nume - N | | mg/L | <0 | 2.01 | <0.01 | | 20 | 0.050 | yes |
| Sullate (SO4) | | 111g/∟ | I | 3.0 | 13.0 | | 20 | 0.500 | yes |
| Date Acquire | d: Octobe | er 20, 2017 | | | | | | | |
| Replicates | | Units | Replicat | te 1 | Replicate 2 | % RSD Crite | ria A | Absolute Criteria | Passed QC |
| Chloride | | mg/L | 1 | .30 | 1.36 | | 6 | 0.010 | yes |
| Nitrate - N | | mg/L | C | 0.29 | 0.30 | | 12 | 0.050 | yes |
| Sulfate (SO4) | | mg/L | | 4.6 | 4.7 | | 6 | 0.010 | yes |
| Date Acquire | d: Octobe | er 20, 2017 | | | | | | | |
| Control Sample | | Units | Measu | red | Lower Limit | Upper Lin | nit | | Passed QC |
| рH | | | g | 9.69 | 9.17 | 10. | 81 | | yes |
| Electrical Cond | ductivity | µS/cm at 25 °C | : | 210 | 194 | 2 | 50 | | yes |
| P-Alkalinity | | mg/L | | 26 | 7 | | 55 | | yes |

Quality Control



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1234110 |
|-------------|---------------------------|-------------------|--------------------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Haines Junction area, YT | Date Received: | Oct 20, 2017 |
| | Y1A 2C6 | LSD: | | Date Reported: | Oct 26, 2017 |
| Attn: | Accounts Payable | P.O.: | C00037999 | Report Number: | 2233684 |
| Sampled By: | Norbert Botca | Proj. Acct. code: | | | |
| Company: | YG-Environment | | | | |

Routine Water - Continued

| Control Sample | Units | Measured | Lower Limit | Upper Limit | Passed QC |
|--------------------|-----------------------|----------|-------------|-------------|-----------|
| T-Alkalinity | mg/L | 106 | 98 | 113 | yes |
| Date Acquired: | October 21, 2017 | | | | |
| рH | | 4.04 | 3.88 | 4.12 | yes |
| Date Acquired: | October 21, 2017 | | | | |
| pН | | 7.97 | 7.88 | 8.12 | yes |
| Date Acquired: | October 21, 2017 | | | | |
| Electrical Conduct | tivity µS/cm at 25 °C | 1360 | 1323 | 1503 | yes |
| Date Acquired: | October 21, 2017 | | | | |

Trace Metals Dissolved

| Blanks | Units | Measured | Lower Limit | Upper Limit | Passed QC |
|-------------------|------------------|--------------|-------------|-------------|-----------|
| Aluminum | μg/L | 0.821638 | -0.990 | 0.990 | yes |
| Antimony | μg/L | 0.0198127 | -0.020 | 0.020 | yes |
| Arsenic | μg/L | -0.00653636 | -0.099 | 0.099 | yes |
| Barium | µg/L | 0.00880642 | -0.099 | 0.099 | yes |
| Beryllium | µg/L | -0.0164462 | -0.050 | 0.050 | yes |
| Bismuth | µg/L | 0.0137736 | -0.099 | 0.099 | yes |
| Boron | µg/L | 0.311859 | -2.001 | 2.001 | yes |
| Cadmium | µg/L | 0.00225781 | -0.010 | 0.010 | yes |
| Chromium | µg/L | 0.0064843 | -0.050 | 0.050 | yes |
| Cobalt | µg/L | 0.00399238 | -0.020 | 0.020 | yes |
| Copper | µg/L | 0.0235268 | -0.050 | 0.050 | yes |
| Iron | µg/L | 0.000638041 | -2.001 | 2.001 | yes |
| Lead | µg/L | 0.00238973 | -0.010 | 0.010 | yes |
| Lithium | µg/L | 0.0670326 | -0.500 | 0.500 | yes |
| Manganese | µg/L | 0.057273 | -0.990 | 0.990 | yes |
| Molybdenum | µg/L | -0.000248757 | -0.020 | 0.020 | yes |
| Nickel | µg/L | 0 | -0.200 | 0.200 | yes |
| Selenium | µg/L | 0.021818 | -0.200 | 0.200 | yes |
| Silver | µg/L | -0.00271131 | -0.009 | 0.009 | yes |
| Strontium | µg/L | 0.046068 | -0.099 | 0.099 | yes |
| Tellurium | µg/L | -0.0118794 | -0.050 | 0.050 | yes |
| Thallium | µg/L | 0.000715481 | -0.010 | 0.010 | yes |
| Thorium | μg/L | -0.00595299 | -0.050 | 0.050 | yes |
| Tin | µg/L | 0.00500916 | -0.099 | 0.099 | yes |
| Titanium | µg/L | -0.0451221 | -0.099 | 0.099 | yes |
| Uranium | µg/L | 0.000645327 | -0.010 | 0.010 | yes |
| Vanadium | µg/L | -0.0168469 | -0.050 | 0.050 | yes |
| Zinc | µg/L | 0.0187221 | -0.500 | 0.500 | yes |
| Zirconium | µg/L | 0.0526091 | -0.099 | 0.099 | yes |
| Date Acquired: | October 23, 2017 | | | | |
| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | Passed QC |
| Titanium | mg/L | 96.16 | 90 | 110 | yes |
| Date Acquired: | October 23, 2017 | | | | |

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Quality Control



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1234110 |
|-------------|---------------------------|-------------------|--------------------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Haines Junction area, YT | Date Received: | Oct 20, 2017 |
| | Y1A 2C6 | LSD: | | Date Reported: | Oct 26, 2017 |
| Attn: | Accounts Payable | P.O.: | C00037999 | Report Number: | 2233684 |
| Sampled By: | Norbert Botca | Proj. Acct. code: | | | |
| Company: | YG-Environment | | | | |

Trace Metals Dissolved - Continued

| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | Passed QC |
|--------------------|----------------|------------|-------------|-------------|-----------|
| Aluminum | µg/L | 110.88 | 80 | 120 | yes |
| Antimony | µg/L | 100.40 | 90 | 110 | yes |
| Arsenic | µg/L | 102.42 | 90 | 110 | yes |
| Barium | µg/L | 101.16 | 90 | 110 | yes |
| Beryllium | µg/L | 101.60 | 90 | 110 | yes |
| Boron | µg/L | 98.42 | 70 | 130 | yes |
| Cadmium | µg/L | 103.53 | 90 | 110 | yes |
| Chromium | µg/L | 106.38 | 90 | 110 | yes |
| Cobalt | µg/L | 105.38 | 90 | 110 | yes |
| Copper | µg/L | 102.40 | 90 | 110 | yes |
| Lead | µg/L | 108.42 | 90 | 110 | yes |
| Lithium | µg/L | 107.62 | 90 | 110 | yes |
| Molybdenum | µg/L | 98.22 | 90 | 110 | yes |
| Nickel | µg/L | 104.47 | 90 | 110 | yes |
| Selenium | µg/L | 101.04 | 90 | 110 | yes |
| Silver | µg/L | 99.57 | 90 | 110 | yes |
| Strontium | µg/L | 99.35 | 90 | 110 | yes |
| Thorium | µg/L | 98.86 | 90 | 110 | yes |
| Tin | µg/L | 100.26 | 90 | 110 | yes |
| Titanium | µg/L | 97.03 | 90 | 110 | yes |
| Uranium | µg/L | 105.78 | 90 | 110 | yes |
| Vanadium | µg/L | 105.94 | 90 | 110 | yes |
| Zinc | µg/L | 108.75 | 90 | 110 | yes |
| Date Acquired: Oct | tober 23, 2017 | | | | |
| Aluminum | µg/L | 96.73 | 80 | 120 | yes |
| Antimony | µg/L | 103.77 | 90 | 110 | yes |
| Arsenic | µg/L | 97.87 | 90 | 110 | yes |
| Barium | µg/L | 96.28 | 90 | 110 | yes |
| Beryllium | µg/L | 103.93 | 90 | 110 | yes |
| Boron | µg/L | 99.51 | 80 | 120 | yes |
| Cadmium | µg/L | 101.38 | 90 | 110 | yes |
| Chromium | µg/L | 100.14 | 90 | 110 | yes |
| Cobalt | µg/L | 99.18 | 90 | 110 | yes |
| Copper | µg/L | 95.54 | 90 | 110 | yes |
| Lead | µg/L | 103.13 | 90 | 110 | yes |
| Lithium | µg/L | 101.16 | 90 | 110 | yes |
| Molybdenum | µg/L | 100.66 | 90 | 110 | yes |
| Nickel | µg/L | 99.78 | 90 | 110 | yes |
| Selenium | µg/L | 98.44 | 90 | 110 | yes |
| Silver | µg/L | 106.64 | 90 | 110 | yes |
| Strontium | µg/L | 98.08 | 90 | 110 | yes |
| Thallium | µg/L | 101.94 | 90 | 110 | yes |
| Thorium | µg/L | 101.54 | 86 | 122 | yes |
| Tin | μg/L | 102.32 | 90 | 110 | yes |
| Titanium | µg/L | 96.48 | 90 | 110 | yes |
| | | | | | |

Quality Control



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1234110 |
|-------------|---------------------------|-------------------|--------------------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Haines Junction area, YT | Date Received: | Oct 20, 2017 |
| | Y1A 2C6 | LSD: | | Date Reported: | Oct 26, 2017 |
| Attn: | Accounts Payable | P.O.: | C00037999 | Report Number: | 2233684 |
| Sampled By: | Norbert Botca | Proj. Acct. code: | | | |
| Company: | YG-Environment | | | | |

Trace Metals Dissolved - Continued

| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | | Passed QC |
|-------------------|------------------|-------------|-------------|----------------|-------------------|-----------|
| Uranium | µg/L | 100.26 | 90 | 110 | | yes |
| Vanadium | µg/L | 101.43 | 90 | 110 | | yes |
| Zinc | µg/L | 90.36 | 90 | 110 | | yes |
| Date Acquired: | October 23, 2017 | | | | | |
| Client Sample Rep | licates Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Barium | µg/L | 2.0 | 2.0 | 20 | 5.000 | yes |
| Nickel | µg/L | 0.9 | 0.7 | 20 | 5.000 | yes |
| Strontium | µg/L | 0.4 | 0.4 | 20 | 0.500 | yes |
| Zinc | µg/L | 0.9 | 0.8 | 20 | 5.000 | yes |
| Date Acquired: | October 23, 2017 | | | | | |
| Titanium | mg/L | 0.025 | 0.025 | 30 | 0.012 | yes |
| Date Acquired: | October 23, 2017 | | | | | |

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Methodology and Notes



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1234110 |
|-------------|---------------------------|-------------------|--------------------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Haines Junction area, YT | Date Received: | Oct 20, 2017 |
| | Y1A 2C6 | LSD: | | Date Reported: | Oct 26, 2017 |
| Attn: | Accounts Payable | P.O.: | C00037999 | Report Number: | 2233684 |
| Sampled By: | Norbert Botca | Proj. Acct. code: | | | |
| Company: | YG-Environment | | | | |

Method of Analysis

| Method Name | Reference | | Method | Date Analysis Started | Location |
|---|-----------|---|---|--------------------------|----------------|
| Alk, pH, EC, Turb in water (Surrey) | APHA | * | Alkalinity - Titration Method, 2320 B | Oct 21, 2017 | Exova Surrey |
| Alk, pH, EC, Turb in water (Surrey) | APHA | * | Conductivity, 2510 B | Oct 21, 2017 | Exova Surrey |
| Alk, pH, EC, Turb in water (Surrey) | APHA | * | pH - Electrometric Method, 4500-H+ B | Oct 21, 2017 | Exova Surrey |
| Ammonia-N in Water (Surrey) | APHA | * | Flow Injection Analysis, 4500-NH3 H | Oct 24, 2017 | Exova Surrey |
| Anions by IEC in water (Surrey) | APHA | * | lon Chromatography with Chemical Suppression of Eluent Cond., 4110 B | Oct 20, 2017 | Exova Surrey |
| Carbon Inorganic (Dissolved) in water(DIC) | APHA | | High-Temperature Combustion Method, 5310 B | Oct 25, 2017 | Exova Edmonton |
| Carbon Inorganic (Total) in water (TIC) | APHA | | High-Temperature Combustion Method, 5310 B | Oct 25, 2017 | Exova Edmonton |
| Carbon Organic (Dissolved) in water (DOC) | APHA | | High-Temperature Combustion Method, 5310 B | Oct 24, 2017 | Exova Edmonton |
| Carbon Organic (Total) in water (TOC) | APHA | | High-Temperature Combustion Method, 5310 B | Oct 24, 2017 | Exova Edmonton |
| Mercury Low Level (Dissolved) in water (Surrey) | EPA | * | Mercury in Water by Cold Vapor Atomic Fluorescence Spectrometry, 245.7 | Oct 23, 2017 | Exova Surrey |
| Metals SemiTrace (Dissolved) in water (Surrey) | US EPA | * | Metals & Trace Elements by ICP-AES, 6010C | Oct 23, 2017 | Exova Surrey |
| Phosphorus - total by Smartchem (Surrey) | APHA | * | Persulfate digestion method, 4500-P B5 | Oct 23, 2017 | Exova Surrey |
| Solids Dissolved (Total, Fixed and Volatile) - Surrey | APHA | * | Total Dissolved Solids Dried at 180 C, 2540 C | Oct 23, 2017 | Exova Surrey |
| Total and Kjeldahl Nitrogen (Total) in Water | ISO | * | Water Quality - Determination of nitrogen, ISO/TR 11905-2 | Oct 23, 2017 | Exova Edmonton |
| Trace Metals (dissolved) in Water (Surrey) | US EPA | * | Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8 | Oct 23, 2017 | Exova Surrey |
| | | | * Reference Method Modified | | |

References

| APHA | Standard Methods for the Examination of Water and Wastewater |
|--------|--|
| EPA | Environmental Protection Agency Test Methods - US |
| ISO | International Organization for Standardization |
| US EPA | US Environmental Protection Agency Test Methods |

Comments:

- Oct 23, 2017 Reduction of analytical volume was necessary for metals analysis to bring results within the analytical range for sample #1234110-1. Detection limits are adjusted accordingly.
 Oct 25, 2017 - Sample 1234110-4; 5883399: Reduction of analytical volume was necessary for sulfate to bring results within the analytical range for
- Sample 1234110-4. Detection limits are adjusted accordingly.
 Oct 25, 2017 Sample 1234110-1; 5883396: Reduction of analytical volume was necessary for anions due to matrix effects in sample 1234110-1. Detection limits are adjusted accordingly.
- Oct 25, 2017 Sample 1234110-4; 5883399: Reduction of analytical volume was necessary for sulfate to bring results within the analytical range for sample 1234110-4. Detection limits are adjusted accordingly.
- Oct 25, 2017 Total organic carbon was less than dissolved organic carbon for sample 1234110-4. The results were verified and are within expected measurement uncertainty.

Methodology and Notes



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1234110 |
|-------------|---------------------------|-------------------|--------------------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Haines Junction area, YT | Date Received: | Oct 20, 2017 |
| | Y1A 2C6 | LSD: | | Date Reported: | Oct 26, 2017 |
| Attn: | Accounts Payable | P.O.: | C00037999 | Report Number: | 2233684 |
| Sampled By: | Norbert Botca | Proj. Acct. code: | | | |
| Company: | YG-Environment | | | | |

• Oct 25, 2017 - Reduction of analytical volume was necessary for boron analysis to bring results within the analytical range for sample #1234110-1. Detection limits are adjusted accordingly.

• Oct 26, 2017 - Sample 1234110-1; 5883396: Reduction of analytical volume was necessary for fluoride to bring results within the analytical range for sample 1234110-1. Detection limits are adjusted accordingly.

Please direct any inquiries regarding this report to our Client Services Group or to the Operations Manager at the coordinates indicated at the top left of this page. Results relate only to samples as submitted.

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Report Transmission Cover Page



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1234110 |
|-------------|---------------------------|-------------------|--------------------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Haines Junction area, YT | Date Received: | Oct 20, 2017 |
| | Y1A 2C6 | LSD: | | Date Reported: | Oct 26, 2017 |
| Attn: | Accounts Payable | P.O.: | C00037999 | Report Number: | 2233684 |
| Sampled By: | Norbert Botca | Proj. Acct. code: | | | |
| Company: | YG-Environment | | | | |

| Contact | Company | Address | | |
|----------------------------|---------------------------|---------------------------------|------|----------------|
| Holly Goulding | YTG DOE - Water Resources | 202, 419 Range Road | | |
| | | Whitehorse, YT Y1A 3V1 | | |
| | | Phone: (867) 456-6583 | Fax: | (867) 667-3194 |
| | | Email: holly.goulding@gov.yk.ca | | |
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| Email - Merge Reports | PDF | COC / Test Report | | |
| Email - Single Report | EQWin | Test Report | | |
| Email - Single Report | PDF | Invoice | | |
| John Miller | YTG DOE - Water Resources | 202, 419 Range Road | | • |
| | | Whitehorse, YT Y1A 3V1 | | |
| | | Phone: (867) 667-3104 | Fax: | (867) 667-3194 |
| | | Email: john.miller@gov.yk.ca | | |
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| Email - Single Report | PDF | COA | | |
| Email - Single Report | PDF | COR | | |
| Email - Single Report | PDF | Invoice | | |
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| | | Whitehorse, YT Y1A 0K5 | | |
| | | Phone: (867) 667-3512 | Fax: | (867) 667-3194 |
| | | Email: norbert.botca@gov.yk.ca | | |
| Delivery | Format | Deliverables | | |
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| Email - Multiple Reports B | y Lot PDF | COC / Test Report | | |
| Email - Single Report | PDF | COA | | |
| Email - Single Report | PDF | COR | | |
| Email - Single Report | PDF | Invoice | | |
| Tyler Williams | YTG DOE - Water Resources | 202, 419 Range Road | | |
| | | Whitehorse, YT Y1A 3V1 | | |
| | | Phone: (867) 667-3233 | Fax: | (867) 667-3194 |
| | | Email: Tyler.Williams@gov.yk.ca | | |
| Delivery | Format | Deliverables | | |
| Email - Multiple Reports B | y Lot EQWin | Test Report | | |
| Email - Multiple Reports B | y Lot PDF | COC / Test Report | | |

Notes To Clients:

• Oct 23, 2017 - Reduction of analytical volume was necessary for metals analysis to bring results within the analytical range for sample #1234110-1. Detection limits are adjusted accordingly.

• Oct 25, 2017 - Sample 1234110-4; 5883399: Reduction of analytical volume was necessary for sulfate to bring results within the analytical range for sample 1234110-4. Detection limits are adjusted accordingly.

• Oct 25, 2017 - Sample 1234110-1; 5883396: Reduction of analytical volume was necessary for anions due to matrix effects in sample 1234110-1. Detection limits are adjusted accordingly.

• Oct 25, 2017 - Sample 1234110-4; 5883399: Reduction of analytical volume was necessary for sulfate to bring results within the analytical range for

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Report Transmission Cover Page



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1234110 |
|-------------|---------------------------|-------------------|--------------------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Haines Junction area, YT | Date Received: | Oct 20, 2017 |
| | Y1A 2C6 | LSD: | | Date Reported: | Oct 26, 2017 |
| Attn: | Accounts Payable | P.O.: | C00037999 | Report Number: | 2233684 |
| Sampled By: | Norbert Botca | Proj. Acct. code: | | | |
| Company: | YG-Environment | | | | |

Notes To Clients:

sample 1234110-4. Detection limits are adjusted accordingly.

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Oct 25, 2017 - Total organic carbon was less than dissolved organic carbon for sample 1234110-4. The results were verified and are within expected measurement uncertainty.

[•] Oct 25, 2017 - Reduction of analytical volume was necessary for boron analysis to bring results within the analytical range for sample #1234110-1. Detection limits are adjusted accordingly.

[•] Oct 26, 2017 - Sample 1234110-1; 5883396: Reduction of analytical volume was necessary for fluoride to bring results within the analytical range for sample 1234110-1. Detection limits are adjusted accordingly.

Analytical Report



| Bill To: YTG DOE - Water Resources PO Box 2703 Whitehorse, YT, Canada Y1A 2C6 Attn: Accounts Payable Sampled By: Norbert Botca Company: YG-Environment | | Project ID: Project Name: Project Location: LSD: P.O.: Proj. Acct. code: | YOWN YOWN Haines Junction area, YT C00037999 | Lo Control Nurr Date Recei Date Repo Report Nurr | t ID: 1234110 hber: ived: Oct 20, 2017 rted: Oct 26, 2017 hber: 2233684 | |
|--|---------------------|---|---|--|--|-------------------|
| | | Reference Numb | er 1234110-1 | 1234110-2 | 1234110-3 | |
| | | Sample Da | oct 17, 2017 | Oct 17, 2017 | Oct 17, 2017 | |
| | | Sample Tin | ne 13:18 | 11:40 | 10:35 | |
| | | Sample Location | on | | | |
| | | Sample Description | on YOWN-1506 / 2017259 / 4.1°C / B | YOWN-1514 / 2017257 / 4.1°C / B | YOWN-1515 / 2017258 / 4.1°C / B | |
| | | Mati | rix Water | Water | Water | |
| Analyte | | Units | Results | Results | Results | Nominal Detection |
| Inorganic Nonm | netallic Parameters | | | | | Linint |
| Nitrogen | Total | mg/L | 0.69 | 1.31 | 0.34 | 0.06 |
| Organic Carbon | Total Nonpurgeable | mg/L | 0.9 | 1.4 | 0.7 | 0.5 |
| Organic Carbon | Dissolved Nonpurge | eable mg/L | <0.5 | 1.0 | <0.5 | 0.5 |
| Inorganic carbo | n Total | mg/L | 186 | 7.3 | 4 | 0.5 |
| Inorganic carbo | n Dissolved | mg/L | 188 | 7.3 | 4 | 0.5 |
| Ammonia - N | | mg/L | 0.30 | 0.85 | <0.01 | 0.01 |
| Phosphorus | Total | mg/L | 0.021 | 0.008 | 0.004 | 0.003 |
| Metals Dissolve | d | - | | | | |
| Mercury | Dissolved | mg/L | <0.00001 | <0.00001 | <0.00001 | 0.00001 |
| Physical and Ag | ggregate Properties | | | | | |
| Solids | Total Dissolved | mg/L | 1000 | 26 | <5 | 5 |
| Routine Water | | | | | | |
| pH - Holding Tin | ne | | Exceeded | Exceeded | Exceeded | |
| рН | at 25 °C | | 11.12 | 9.12 | 7.76 | |
| Electrical Condu | uctivity | μS/cm at 2 °C | 5 432 | 1603 | 70 | 1 |
| Calcium | Dissolved | mg/L | 1.4 | 5.4 | 3.4 | 0.01 |
| Magnesium | Dissolved | mg/L | 0.70 | 0.37 | 0.21 | 0.02 |
| Potassium | Dissolved | mg/L | 1.0 | 1.5 | 0.73 | 0.04 |
| Silicon | Dissolved | mg/L | 3.2 | 0.085 | 0.16 | 0.005 |
| Sodium | Dissolved | mg/L | 400 | 5.4 | 1.6 | 0.1 |
| Sulfur | Dissolved | mg/L | 0.08 | 0.16 | 0.14 | 0.02 |
| Bicarbonate | | mg/L | <5 | 654 | 38 | 5 |
| Carbonate | | mg/L | 18 | 194 | <6 | 6 |
| Hydroxide | | mg/L | 33 | <5 | <5 | 5 |
| P-Alkalinity | as CaCO3 | mg/L | 111 | 162 | <5 | 5 |
| T-Alkalinity | as CaCO3 | mg/L | 126 | 861 | 31 | 5 |
| Chloride | Dissolved | mg/L | 26.9 | 3.91 | 0.17 | 0.05 |
| Fluoride | Dissolved | mg/L | 31 | 0.08 | 0.30 | 0.01 |
| Nitrate - N | Dissolved | mg/L | 0.2 | <0.01 | <0.01 | 0.01 |
| Nitrite - N | Dissolved | mg/L | <0.1 | <0.01 | <0.01 | 0.01 |
| Sulfate (SO4) | Dissolved | mg/L | 1 | <0.1 | 0.2 | 0.1 |
| Hardness | as CaCO3 (dissolve | ed) mg/L | 6.3 | 15 | 9.4 | 5 |
| Trace Metals Di | ssolved | | | | | |
| Digestion | Dissolved | | Field filtered and Pres Dissol | Field filtered and Pres Dissol | Field filtered and Pres Dissol | |
| Titanium | Dissolved | mg/L | <0.002 | <0.002 | <0.002 | 0.002 |
| Aluminum | Dissolved | mg/L | 0.002 | <0.001 | 0.001 | 0.001 |
| Antimony | Dissolved | mg/L | 0.00013 | 0.00006 | 0.00006 | 0.00002 |

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Analytical Report



| Bill To: Attn: Sampled By: Company: | YTG DOE - Water Resources PO Box 2703 Whitehorse, YT, Canada Y1A 2C6 Accounts Payable Norbert Botca YG-Environment | Project ID: YOWN Project Name: YOWN Project Location: Haines Junction area, Y LSD: P.O.: C00037999 Proj. Acct. code: Reference Number 1234110-1 | | Lo Control Nun T Date Rece Date Report Report Nun 1234110-2 | 1234110 nber: ived: Oct 20, 2017 rted: Oct 26, 2017 nber: 2233684 | |
|--|--|---|------------------------------------|--|---|----------------------------|
| | | Sample Date | Oct 17, 2017 | Oct 17, 2017 | Oct 17, 2017 | |
| | | Sample Time | 13:18 | 11:40 | 10:35 | |
| | | Sample Location | | - | | |
| | | Sample Description | YOWN-1506 / 2017259 / 4.1°C / B | YOWN-1514 / 2017257 / 4.1°C / B | YOWN-1515 / 2017258 / 4.1°C / B | |
| | | Matrix | Water | Water | Water | |
| Analyte | | Units | Results | Results | Results | Nominal Detection Limit |
| Trace Metals Di | ssolved - Continued | | | | | |
| Arsenic | Dissolved | mg/L | <0.0001 | <0.0001 | <0.0001 | 0.0001 |
| Barium | Dissolved | mg/L | 0.0200 | 0.0046 | 0.0079 | 0.0001 |
| Beryllium | Dissolved | mg/L | 0.00007 | <0.00005 | <0.00005 | 0.00005 |
| Bismuth | Dissolved | mg/L | <0.0001 | <0.0001 | <0.0001 | 0.0001 |
| Boron | Dissolved | mg/L | 18.86 | 0.050 | 0.021 | 0.002 |
| Cadmium | Dissolved | mg/L | <0.00001 | <0.00001 | <0.00001 | 0.00001 |
| Chromium | Dissolved | mg/L | < 0.00005 | <0.00005 | <0.00005 | 0.00005 |
| Cobalt | Dissolved | mg/L | <0.00002 | <0.00002 | 0.00003 | 0.00002 |
| Copper | Dissolved | mg/L | <0.0005 | <0.0005 | <0.0005 | 0.0005 |
| Iron | Dissolved | mg/L | 0.148 | 0.012 | 0.003 | 0.002 |
| Lead | Dissolved | mg/L | <0.00001 | <0.00001 | <0.00001 | 0.00001 |
| Lithium | Dissolved | mg/L | 0.0156 | <0.0005 | 0.0108 | 0.0005 |
| Manganese | Dissolved | mg/L | 0.003 | 0.015 | 0.011 | 0.001 |
| Molybdenum | Dissolved | mg/L | 0.00003 | 0.00691 | 0.00262 | 0.00002 |
| Nickel | Dissolved | mg/L | < 0.0002 | 0.0003 | 0.0017 | 0.0002 |
| Selenium | Dissolved | mg/L | <0.0002 | <0.0002 | <0.0002 | 0.0002 |
| Silver | Dissolved | mg/L | 0.00001 | <0.00001 | <0.00001 | 0.00001 |
| Strontium | Dissolved | mg/L | 0.1365 | 0.0302 | 0.0161 | 0.0001 |
| Tellurium | Dissolved | mg/L | < 0.00005 | <0.00005 | <0.00005 | 0.00005 |
| Thallium | Dissolved | mg/L | <0.00001 | <0.00001 | <0.00001 | 0.00001 |
| Thorium | Dissolved | mg/L | 0.00243 | <0.00005 | <0.00005 | 0.00005 |
| Tin | Dissolved | mg/L | <0.0001 | <0.0001 | <0.0001 | 0.0001 |
| Uranium | Dissolved | mg/L | 0.00025 | <0.00001 | <0.00001 | 0.00001 |
| Vanadium | Dissolved | mg/L | <0.00005 | <0.00005 | <0.00005 | 0.00005 |
| Zinc | Dissolved | mg/L | <0.0005 | <0.0005 | <0.0005 | 0.0005 |
| Zirconium | Dissolved | mg/L | 0.0116 | <0.0001 | <0.0001 | 0.0001 |

Analytical Report



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1234110 |
|-------------|---------------------------|-------------------|--------------------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Haines Junction area, YT | Date Received: | Oct 20, 2017 |
| | Y1A 2C6 | LSD: | | Date Reported: | Oct 26, 2017 |
| Attn: | Accounts Payable | P.O.: | C00037999 | Report Number: | 2233684 |
| Sampled By: | Norbert Botca | Proj. Acct. code: | | | |
| Company: | YG-Environment | | | | |
| | | Reference Numb | er 1234110-4 | | |

Oct 18, 2017

10:12

Sample Date

Sample Time

| | Sa Sam | ample Location ple Description | YOWN-1604 / 2017260 / 4.1°C / B | | | |
|--------------------------|---------------------------------------|-----------------------------------|------------------------------------|---------|---------|-------------------|
| | | Matrix | Water | | | |
| Analyte | | Units | Results | Results | Results | Nominal Detection |
| Inorganic Nonmetallic Pa | arameters | | | | | Linit |
| Nitrogen | Total | mg/L | 0.35 | | | 0.06 |
| Organic Carbon | Total Nonpurgeable | mg/L | 0.8 | | | 0.5 |
| Organic Carbon | Dissolved Nonpurgeable | mg/L | 0.9 | | | 0.5 |
| Inorganic carbon | Total | mg/L | 5.1 | | | 0.5 |
| Inorganic carbon | Dissolved | mg/L | 5.1 | | | 0.5 |
| Ammonia - N | | mg/L | 0.03 | | | 0.01 |
| Phosphorus | Total | mg/L | < 0.003 | | | 0.003 |
| Metals Dissolved | | - | | | | |
| Mercury | Dissolved | mg/L | <0.00001 | | | 0.00001 |
| Physical and Aggregate | Properties | - | | | | |
| Solids | Total Dissolved | mg/L | 270 | | | 5 |
| Routine Water | | 0 | | | | |
| pH - Holding Time | | | Exceeded | | | |
| pH | at 25 °C | | 7.05 | | | |
| Electrical Conductivity | | µS/cm at 25 ℃ | 29 | | | 1 |
| Calcium | Dissolved | mg/L | 14 | | | 0.01 |
| Magnesium | Dissolved | mg/L | 5.9 | | | 0.02 |
| Potassium | Dissolved | mg/L | 2.6 | | | 0.04 |
| Silicon | Dissolved | mg/L | 0.010 | | | 0.005 |
| Sodium | Dissolved | mg/L | 38 | | | 0.1 |
| Sulfur | Dissolved | mg/L | 37 | | | 0.02 |
| Bicarbonate | | mg/L | 16 | | | 5 |
| Carbonate | | mg/L | <6 | | | 6 |
| Hydroxide | | mg/L | <5 | | | 5 |
| P-Alkalinity | as CaCO3 | mg/L | <5 | | | 5 |
| T-Alkalinity | as CaCO3 | mg/L | 13 | | | 5 |
| Chloride | Dissolved | mg/L | 1.30 | | | 0.05 |
| Fluoride | Dissolved | mg/L | 0.27 | | | 0.01 |
| Nitrate - N | Dissolved | mg/L | 0.01 | | | 0.01 |
| Nitrite - N | Dissolved | mg/L | <0.01 | | | 0.01 |
| Sulfate (SO4) | Dissolved | mg/L | 125 | | | 0.1 |
| Hardness | as CaCO3 (dissolved) | mg/L | 58 | | | 5 |
| Trace Metals Dissolved | , , , , , , , , , , , , , , , , , , , | 0 | | | | |
| Digestion | Dissolved | | Field filtered and Pres Dissol | | | |
| Titanium | Dissolved | mg/L | <0.002 | | | 0.002 |
| Aluminum | Dissolved | mg/L | <0.001 | | | 0.001 |
| Antimony | Dissolved | mg/L | 0.00009 | | | 0.00002 |

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Analytical Report



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1234110 |
|-------------|---------------------------|-------------------|--------------------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Haines Junction area, YT | Date Received: | Oct 20, 2017 |
| | Y1A 2C6 | LSD: | | Date Reported: | Oct 26, 2017 |
| Attn: | Accounts Payable | P.O.: | C00037999 | Report Number: | 2233684 |
| Sampled By: | Norbert Botca | Proj. Acct. code: | | | |
| Company: | YG-Environment | | | | |

1234110-4

Reference Number

| | | Sample Date Sample Time | Oct 18, 2017 10:12 | | | |
|----------------------|-----------------|---------------------------------------|------------------------------------|---------|---------|----------------------------|
| | | Sample Location Sample Description | YOWN-1604 / 2017260 / 4.1°C / B | | | |
| | | Matrix | Water | | | |
| Analyte | | Units | Results | Results | Results | Nominal Detection Limit |
| Trace Metals Dissolv | ved - Continued | | | | | |
| Arsenic | Dissolved | mg/L | <0.0001 | | | 0.0001 |
| Barium | Dissolved | mg/L | 0.0026 | | | 0.0001 |
| Beryllium | Dissolved | mg/L | <0.00005 | | | 0.00005 |
| Bismuth | Dissolved | mg/L | <0.0001 | | | 0.0001 |
| Boron | Dissolved | mg/L | 0.026 | | | 0.002 |
| Cadmium | Dissolved | mg/L | <0.00001 | | | 0.00001 |
| Chromium | Dissolved | mg/L | <0.00005 | | | 0.00005 |
| Cobalt | Dissolved | mg/L | 0.00006 | | | 0.00002 |
| Copper | Dissolved | mg/L | <0.0005 | | | 0.0005 |
| Iron | Dissolved | mg/L | 0.740 | | | 0.002 |
| Lead | Dissolved | mg/L | <0.00001 | | | 0.00001 |
| Lithium | Dissolved | mg/L | 0.0092 | | | 0.0005 |
| Manganese | Dissolved | mg/L | 0.235 | | | 0.001 |
| Molybdenum | Dissolved | mg/L | 0.00266 | | | 0.00002 |
| Nickel | Dissolved | mg/L | 0.0009 | | | 0.0002 |
| Selenium | Dissolved | mg/L | <0.0002 | | | 0.0002 |
| Silver | Dissolved | mg/L | <0.00001 | | | 0.00001 |
| Strontium | Dissolved | mg/L | 0.1709 | | | 0.0001 |
| Tellurium | Dissolved | mg/L | <0.00005 | | | 0.00005 |
| Thallium | Dissolved | mg/L | <0.00001 | | | 0.00001 |
| Thorium | Dissolved | mg/L | <0.00005 | | | 0.00005 |
| Tin | Dissolved | mg/L | <0.0001 | | | 0.0001 |
| Uranium | Dissolved | mg/L | <0.00001 | | | 0.00001 |
| Vanadium | Dissolved | mg/L | <0.00005 | | | 0.00005 |
| Zinc | Dissolved | mg/L | <0.0005 | | | 0.0005 |
| Zirconium | Dissolved | mg/L | <0.0001 | | | 0.0001 |

Mathier amis

Mathieu Simoneau **Operations Manager**

Approved by:

Data have been validated by Analytical Quality Control and Exova's Integrated Data Validation System (IDVS). Generation and distribution of the report, and approval by the digitized signature above, are performed through a secure and controlled automatic process.

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Quality Control



| Attn: Accounts Payable P.O.: C00037999 Report Number: Sampled By: Norbert Botca Proj. Acct. code: Company: YG-Environment | Oct 20, 2017 Oct 26, 2017 2233684 | |
|--|---|-------------|
| Inorganic Nonmetallic Parameters | | |
| Blanks Units Measured Lower Limit Upper Limit | | Passed QC |
| Ammonium - N μg/L -8.389 -110.00 10.00 | | yes |
| Phosphorus mg/L -0.001 -0.003 0.003 | | yes |
| | | |
| Nitrogen mg/L 0 -0.04 0.08 | | yes |
| Organic Carbon mg/L 0.03132 -0.5 0.5 Inorganic carbon mg/L 0.1266 0.5 0.5 | | yes |
| Inorganic carbon Ing/L 0.1200 -0.0 0.0 Date Acquired: October 25, 2017 0.1200 -0.0 0.0 | | yes |
| Calibration Check Units (/ Decouvery Lewer Limit | | Deserved OC |
| Calibration Check Units % Recovery Lower Limit Upper Limit | | Passed QC |
| Animonium - N $\mu g/L$ 110.27 65 115 Phosphorus ma/l 100.12 00 110 | | yes |
| Date Acquired: October 23, 2017 | | yes |
| $\frac{114.70}{70} = \frac{70}{70} = \frac{120}{70}$ | | |
| Animonium - N $\mu g/L$ 114.72 70 130 | | yes |
| Phosphorus IIIg/L 100.00 00 120 | | yes |
| Date Acquired. October 25, 2017 | | |
| Client Sample Replicates Units Replicate 1 Replicate 2 % RSD Criteria | Absolute Criteria | Passed QC |
| Nitrogen mg/L 0.00 0.08 10 Organia Carbon mg/L 7.2 7.2 10 | 0.06 | yes |
| $\frac{1}{10}$ | 1.0 | yes |
| Date Acquired: October 25, 2017 | 1.0 | yes |
| | 50.00 | |
| Ammonia - N mg/L 2.09 2.09 20 | 50.00 | yes |
| | | |
| Control Sample Units Measured Lower Limit Upper Limit | | Passed QC |
| Organic Carbon mg/L <0.5 -0.5 0.5 | | yes |
| Date Acquired: October 24, 2017 | | |
| Nitrogen mg/L 126 103.74 137.28 | | yes |
| Organic Carbon mg/L 128 112.1 136.6 Instrancia carbon mg/L 47.2 20.0 57.0 | | yes |
| Inorganic carbon Ing/L 47.2 59.0 57.0 Date Acquired: October 25, 2017 | | yes |
| | | |
| Nitrogen mg/L 15.3 13.27 16.93 Owenie Carbon mg/L 14.0 40.0 47.0 | | yes |
| Organic Carbon mg/L 14.9 12.8 17.2 Instrancia carbon mg/L 16.4 13.5 18.3 | | yes |
| $\begin{array}{cccc} \text{Introganic Carbon} & \text{Int}_{L} & \text{IO.4} & \text{IS.5} & \text{IO.5} \\ \hline \end{array}$ | | yes |
| | | |
| Nitrogen mg/L 1.08 0.89 1.25 Organia Carbon mg/L 3.0 3.4 4.0 | | yes |
| $\frac{1}{100} \frac{1}{100} \frac{1}$ | | yes |
| Date Acquired: October 25, 2017 | | yes |
| Decemberile mall 0.445 0.200 0.502 | | |
| Friusphorus IIIg/L 0.445 0.389 0.503 | | yes |
| | | |
| Metals Dissolved | | |
| Blanks Units Measured Lower Limit Upper Limit | | Passed QC |
| Mercury ng/L -0.3 -9.99 9.99 | | yes |

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Date Acquired: October 23, 2017

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Quality Control



| Bill To: YTG PO Whi Y1A Attn: Acc Sampled By: Nork Company: YG- | DOE - Water Resources Box 2703 tehorse, YT, Canada 2C6 ounts Payable bert Botca Environment | Project ID: Project Name: Project Location: LSD: P.O.: Proj. Acct. code: | YOWN ne: YOWN ation: Haines Junction area, YT C00037999 code: | | Lot ID Control Number Date Received Date Reported Report Number | 1234110 Oct 20, 2017 Oct 26, 2017 2233684 | |
|---|---|---|---|-------------|---|---|--------------|
| Metals Dissolved | d - Continued | ~ - | | | | | |
| Calibration Check | Units | % Recove | ery | Lower Limit | Upper Limit | | Passed QC |
| Mercury | ng/L | 107 | .40 | 90 | 110 | | yes |
| Date Acquired: | October 23, 2017 | | | | | | D 100 |
| Certified Reference | e Material Units | Measur | ed | Target | Lower Limit | Upper Limit | Passed QC |
| Mercury | µg/L | 0 | .03 | 0.04 | 0.02 | 0.05 | yes |
| Date Acquired: | October 23, 2017 | | | | | | |
| Client Sample Rep | licates Units | Replicat | e 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Date Acquired: | µg/L October 23, 2017 | <0 | .01 | <0.01 | 20 | 0.05 | yes |
| Date Acquired. | October 23, 2017 | | | | | | |
| Physical and Ag | gregate Properties | | | | | | |
| Client Sample Rep | licates Units | Replicat | e 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Solids | mg/L | | 10 | <5 | 30 | 50.000 | yes |
| Date Acquired: | October 23, 2017 | | | | | | |
| Control Sample | Units | Measur | ed | Lower Limit | Upper Limit | | Passed QC |
| Solids | mg/L | 5 | 20 | 412.000 | 610.600 | | yes |
| Date Acquired: | October 23, 2017 | | | | | | |
| Solids | mg/L | | 32 | 18.000 | 37.200 | | yes |
| Date Acquired: | October 23, 2017 | | | | | | |
| Solids | mg/L | | <5 | -5.001 | 5.001 | | yes |
| Date Acquired: | October 23, 2017 | | | | | | |
| Routine Water | | | | | | | |
| Blanks | Units | Measur | ed | Lower Limit | Upper Limit | | Passed QC |
| Calcium | mg/L | -0.009536 | 614 | -0.010 | 0.010 | | yes |
| Magnesium | mg/L | -0.0110 | 800 | -0.020 | 0.020 | | yes |
| Potassium | mg/L | -0.002878 | 871 | -0.040 | 0.040 | | yes |
| Silicon | mg/L | 0.004938 | 899 | -0.005 | 0.005 | | yes |
| Sodium | mg/L | 0.00680 | 99 | -0.099 | 0.099 | | yes |
| Date Acquired: | October 23, 2017 | | | | | | |
| Chloride | mg/L | 0.0253 | 844 | -0.201 | 0.201 | | yes |
| Fluoride | mg/L | 0.007500 | 0 | -0.099 | 0.099 | | yes |
| Nitrate - N | mg/L | 0.007590 | 0 | -0.010 | 0.010 | | yes |
| Sulfate (SO4) | mg/L | | 0 | -0.099 | 0.099 | | yes |
| Date Acquired: | October 20, 2017 | | 0 | 0.000 | 0.000 | | yes |
| Calibration Check | | % Bocov | NF 1/ | Lower Limit | Uppor Limit | | Passad OC |
| Calcium | ma/l | /0 Recove | 54 | | | | 1 03350 40 |
| Magnesium | ma/l | 904 | .06 | 90 | 110 | | VAS |
| Potassium | ma/L | 95 | .90 | 90 | 110 | | ves |
| Silicon | mg/L | 93 | .14 | 90 | 110 | | yes |
| Sodium | mg/L | 94 | .02 | 90 | 110 | | yes |
| Date Acquired: | October 23, 2017 | | | | | | |
| Chloride | mg/L | 101 | .10 | 85 | 115 | | yes |
| | | | | | | | |

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Quality Control



| Bill To: Y F V Attn: A Sampled By: N | (TG DOE -) PO Box 2703 Whitehorse, (1A 2C6 Accounts Pa Norbert Boto (G-Environn | Water Resources 3 YT, Canada yable a | Project ID: Project Name: Project Location: LSD: P.O.: Proj. Acct. code: | YOWN YOWN Haines Junction area, YT C00037999 | | Control N Date Re Date Re Report N | Lot ID: umber: ceived: ported: umber: | 1234110 Oct 20, 2017 Oct 26, 2017 2233684 | |
|--|--|--|---|---|-------------|---|---|---|--------------|
| Company. | | nent | | | | | | | |
| Routine Water | · - Contin | ued | 24 D | | | | •. | | D 100 |
| Calibration Che | CK | Units | % Recov | ery | Lower Limit | Upper Lin | nit | | Passed QC |
| Fluoride | | mg/L | 103 | 5.74 x 02 | 85 | 1 | 15 | | yes |
| Nitrate - N | | mg/L | 99 | .93 | 68 | 1 | 10 | | yes |
| Nitrite - N | | mg/L | 95 | 0.62 | 90 | 1 | 10 | | yes |
| Suitate (SO4) | | mg/L | 102 | .40 | 68 | | 15 | | yes |
| Date Acquire | d: Octobe | er 20, 2017 | | | | | | | |
| Chloride | | mg/L | 100 | 0.80 | 90 | 1 | 10 | | yes |
| Fluoride | | mg/L | 98 | 8.90 | 89 | 1 | 09 | | yes |
| Nitrate - N | | mg/L | 99 | .28 | 88 | 1 | 08 | | yes |
| Nitrite - N | | mg/L | 99 | 9.55 | 90 | 1 | 18 | | yes |
| Sulfate (SO4) | | mg/L | 102 | 2.28 | 90 | 1 | 10 | | yes |
| Date Acquire | d: Octobe | er 20, 2017 | | | | | | | |
| Calcium | | mg/L | 93 | 8.76 | 90 | 1 | 10 | | yes |
| Magnesium | | mg/L | 104 | .20 | 90 | 1 | 10 | | yes |
| Potassium | | mg/L | 103 | 3.63 | 90 | 1 | 10 | | yes |
| Sodium | | mg/L | 99 | .48 | 90 | 1 | 10 | | yes |
| Date Acquire | d: Octobe | er 23, 2017 | | | | | | | |
| Certified Refere | nce Materia | al Units | Measu | red | Target | Lower Lin | nit | Upper Limit | Passed QC |
| T-Alkalinity | | mg/L | | 10 | 10 | | 8 | 12 | yes |
| Date Acquire | d: Octobe | er 21. 2017 | | | | | | | 2 |
| Client Sample R | Replicates | Units | Replicat | e 1 | Replicate 2 | % RSD Crite | ria A | Absolute Criteria | Passed QC |
| Calcium | tophoutoo | ma/l | rophou | 420 | 400 | | 30 | 1 000 | ves |
| Magnesium | | mg/L | | 150 | 140 | | 30 | 1 000 | ves |
| Potassium | | mg/L | | 2.8 | 26 | | 30 | 1 000 | ves |
| Silicon | | mg/L | | 39 | 3.7 | | 30 | 0.150 | yes |
| Sodium | | mg/L | | 98 | 93 | | 30 | 1 000 | ves |
| Sulfur | | mg/L | | 440 | 430 | | 30 | 3 000 | ves |
| Date Acquire | d [.] Octobe | ar 23 2017 | | | | | 00 | 0.000 | ,00 |
| | u. 001000 | . 20, 2017 | | 0.00 | 7.04 | | 10 | | |
| µ⊓ Oblarida | | | C | 0.03 | 7.01 | | 10 | 0.050 | yes |
| Chionde | | mg/L | 4 | .97 | 4.96 | | 20 | 0.250 | yes |
| Fluoride | | mg/L | C. | 1.03 | 0.03 | | 20 | 0.050 | yes |
| Nitrate - N | | mg/L | 5 | 0.12 | 5.12 | | 20 | 0.050 | yes |
| Nume - N | | mg/L | <0 | 2.01 | <0.01 | | 20 | 0.050 | yes |
| Sullate (SO4) | | 111g/∟ | I | 3.0 | 13.0 | | 20 | 0.500 | yes |
| Date Acquire | d: Octobe | er 20, 2017 | | | | | | | |
| Replicates | | Units | Replicat | te 1 | Replicate 2 | % RSD Crite | ria / | Absolute Criteria | Passed QC |
| Chloride | | mg/L | 1 | .30 | 1.36 | | 6 | 0.010 | yes |
| Nitrate - N | | mg/L | C |).29 | 0.30 | | 12 | 0.050 | yes |
| Sulfate (SO4) | | mg/L | | 4.6 | 4.7 | | 6 | 0.010 | yes |
| Date Acquire | d: Octobe | er 20, 2017 | | | | | | | |
| Control Sample | | Units | Measu | red | Lower Limit | Upper Lin | nit | | Passed QC |
| рH | | | g | 9.69 | 9.17 | 10. | 81 | | yes |
| Electrical Cond | ductivity | µS/cm at 25 °C | : | 210 | 194 | 2 | 50 | | yes |
| P-Alkalinity | | mg/L | | 26 | 7 | | 55 | | yes |
Quality Control



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1234110 |
|-------------|---------------------------|-------------------|--------------------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Haines Junction area, YT | Date Received: | Oct 20, 2017 |
| | Y1A 2C6 | LSD: | | Date Reported: | Oct 26, 2017 |
| Attn: | Accounts Payable | P.O.: | C00037999 | Report Number: | 2233684 |
| Sampled By: | Norbert Botca | Proj. Acct. code: | | | |
| Company: | YG-Environment | | | | |

Routine Water - Continued

| Control Sample | Units | Measured | Lower Limit | Upper Limit | Passed QC |
|--------------------|-----------------------|----------|-------------|-------------|-----------|
| T-Alkalinity | mg/L | 106 | 98 | 113 | yes |
| Date Acquired: | October 21, 2017 | | | | |
| pН | | 4.04 | 3.88 | 4.12 | yes |
| Date Acquired: | October 21, 2017 | | | | |
| pН | | 7.97 | 7.88 | 8.12 | yes |
| Date Acquired: | October 21, 2017 | | | | |
| Electrical Conduct | tivity µS/cm at 25 °C | 1360 | 1323 | 1503 | yes |
| Date Acquired: | October 21, 2017 | | | | |

Trace Metals Dissolved

| Blanks | Units | Measured | Lower Limit | Upper Limit | Passed QC |
|-------------------|------------------|--------------|-------------|-------------|-----------|
| Aluminum | µg/L | 0.821638 | -0.990 | 0.990 | yes |
| Antimony | µg/L | 0.0198127 | -0.020 | 0.020 | yes |
| Arsenic | µg/L | -0.00653636 | -0.099 | 0.099 | yes |
| Barium | µg/L | 0.00880642 | -0.099 | 0.099 | yes |
| Beryllium | µg/L | -0.0164462 | -0.050 | 0.050 | yes |
| Bismuth | µg/L | 0.0137736 | -0.099 | 0.099 | yes |
| Boron | µg/L | 0.311859 | -2.001 | 2.001 | yes |
| Cadmium | µg/L | 0.00225781 | -0.010 | 0.010 | yes |
| Chromium | µg/L | 0.0064843 | -0.050 | 0.050 | yes |
| Cobalt | µg/L | 0.00399238 | -0.020 | 0.020 | yes |
| Copper | µg/L | 0.0235268 | -0.050 | 0.050 | yes |
| Iron | µg/L | 0.000638041 | -2.001 | 2.001 | yes |
| Lead | µg/L | 0.00238973 | -0.010 | 0.010 | yes |
| Lithium | µg/L | 0.0670326 | -0.500 | 0.500 | yes |
| Manganese | µg/L | 0.057273 | -0.990 | 0.990 | yes |
| Molybdenum | µg/L | -0.000248757 | -0.020 | 0.020 | yes |
| Nickel | µg/L | 0 | -0.200 | 0.200 | yes |
| Selenium | µg/L | 0.021818 | -0.200 | 0.200 | yes |
| Silver | µg/L | -0.00271131 | -0.009 | 0.009 | yes |
| Strontium | µg/L | 0.046068 | -0.099 | 0.099 | yes |
| Tellurium | µg/L | -0.0118794 | -0.050 | 0.050 | yes |
| Thallium | µg/L | 0.000715481 | -0.010 | 0.010 | yes |
| Thorium | μg/L | -0.00595299 | -0.050 | 0.050 | yes |
| Tin | µg/L | 0.00500916 | -0.099 | 0.099 | yes |
| Titanium | µg/L | -0.0451221 | -0.099 | 0.099 | yes |
| Uranium | µg/L | 0.000645327 | -0.010 | 0.010 | yes |
| Vanadium | µg/L | -0.0168469 | -0.050 | 0.050 | yes |
| Zinc | µg/L | 0.0187221 | -0.500 | 0.500 | yes |
| Zirconium | µg/L | 0.0526091 | -0.099 | 0.099 | yes |
| Date Acquired: | October 23, 2017 | | | | |
| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | Passed QC |
| Titanium | mg/L | 96.16 | 90 | 110 | yes |
| Date Acquired: | October 23, 2017 | | | | |

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Quality Control



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1234110 |
|-------------|---------------------------|-------------------|--------------------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Haines Junction area, YT | Date Received: | Oct 20, 2017 |
| | Y1A 2C6 | LSD: | | Date Reported: | Oct 26, 2017 |
| Attn: | Accounts Payable | P.O.: | C00037999 | Report Number: | 2233684 |
| Sampled By: | Norbert Botca | Proj. Acct. code: | | | |
| Company: | YG-Environment | | | | |

Trace Metals Dissolved - Continued

| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | Passed QC |
|--------------------|----------------|------------|-------------|-------------|-----------|
| Aluminum | µg/L | 110.88 | 80 | 120 | yes |
| Antimony | µg/L | 100.40 | 90 | 110 | yes |
| Arsenic | µg/L | 102.42 | 90 | 110 | yes |
| Barium | µg/L | 101.16 | 90 | 110 | yes |
| Beryllium | µg/L | 101.60 | 90 | 110 | yes |
| Boron | µg/L | 98.42 | 70 | 130 | yes |
| Cadmium | µg/L | 103.53 | 90 | 110 | yes |
| Chromium | µg/L | 106.38 | 90 | 110 | yes |
| Cobalt | µg/L | 105.38 | 90 | 110 | yes |
| Copper | µg/L | 102.40 | 90 | 110 | yes |
| Lead | µg/L | 108.42 | 90 | 110 | yes |
| Lithium | µg/L | 107.62 | 90 | 110 | yes |
| Molybdenum | µg/L | 98.22 | 90 | 110 | yes |
| Nickel | µg/L | 104.47 | 90 | 110 | yes |
| Selenium | µg/L | 101.04 | 90 | 110 | yes |
| Silver | µg/L | 99.57 | 90 | 110 | yes |
| Strontium | µg/L | 99.35 | 90 | 110 | yes |
| Thorium | µg/L | 98.86 | 90 | 110 | yes |
| Tin | µg/L | 100.26 | 90 | 110 | yes |
| Titanium | µg/L | 97.03 | 90 | 110 | yes |
| Uranium | µg/L | 105.78 | 90 | 110 | yes |
| Vanadium | µg/L | 105.94 | 90 | 110 | yes |
| Zinc | µg/L | 108.75 | 90 | 110 | yes |
| Date Acquired: Oct | tober 23, 2017 | | | | |
| Aluminum | µg/L | 96.73 | 80 | 120 | yes |
| Antimony | µg/L | 103.77 | 90 | 110 | yes |
| Arsenic | µg/L | 97.87 | 90 | 110 | yes |
| Barium | µg/L | 96.28 | 90 | 110 | yes |
| Beryllium | µg/L | 103.93 | 90 | 110 | yes |
| Boron | µg/L | 99.51 | 80 | 120 | yes |
| Cadmium | µg/L | 101.38 | 90 | 110 | yes |
| Chromium | µg/L | 100.14 | 90 | 110 | yes |
| Cobalt | µg/L | 99.18 | 90 | 110 | yes |
| Copper | µg/L | 95.54 | 90 | 110 | yes |
| Lead | µg/L | 103.13 | 90 | 110 | yes |
| Lithium | µg/L | 101.16 | 90 | 110 | yes |
| Molybdenum | µg/L | 100.66 | 90 | 110 | yes |
| Nickel | µg/L | 99.78 | 90 | 110 | yes |
| Selenium | µg/L | 98.44 | 90 | 110 | yes |
| Silver | µg/L | 106.64 | 90 | 110 | yes |
| Strontium | µg/L | 98.08 | 90 | 110 | yes |
| Thallium | µg/L | 101.94 | 90 | 110 | yes |
| Thorium | µg/L | 101.54 | 86 | 122 | yes |
| Tin | μg/L | 102.32 | 90 | 110 | yes |
| Titanium | µg/L | 96.48 | 90 | 110 | yes |
| | | | | | |

Quality Control



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1234110 |
|-------------|---------------------------|-------------------|--------------------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Haines Junction area, YT | Date Received: | Oct 20, 2017 |
| | Y1A 2C6 | LSD: | | Date Reported: | Oct 26, 2017 |
| Attn: | Accounts Payable | P.O.: | C00037999 | Report Number: | 2233684 |
| Sampled By: | Norbert Botca | Proj. Acct. code: | | | |
| Company: | YG-Environment | | | | |

Trace Metals Dissolved - Continued

| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | | Passed QC |
|-------------------|------------------|-------------|-------------|----------------|-------------------|-----------|
| Uranium | µg/L | 100.26 | 90 | 110 | | yes |
| Vanadium | µg/L | 101.43 | 90 | 110 | | yes |
| Zinc | µg/L | 90.36 | 90 | 110 | | yes |
| Date Acquired: | October 23, 2017 | | | | | |
| Client Sample Rep | licates Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Barium | µg/L | 2.0 | 2.0 | 20 | 5.000 | yes |
| Nickel | µg/L | 0.9 | 0.7 | 20 | 5.000 | yes |
| Strontium | µg/L | 0.4 | 0.4 | 20 | 0.500 | yes |
| Zinc | µg/L | 0.9 | 0.8 | 20 | 5.000 | yes |
| Date Acquired: | October 23, 2017 | | | | | |
| Titanium | mg/L | 0.025 | 0.025 | 30 | 0.012 | yes |
| Date Acquired: | October 23, 2017 | | | | | |

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Methodology and Notes



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1234110 |
|-------------|---------------------------|-------------------|--------------------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Haines Junction area, YT | Date Received: | Oct 20, 2017 |
| | Y1A 2C6 | LSD: | | Date Reported: | Oct 26, 2017 |
| Attn: | Accounts Payable | P.O.: | C00037999 | Report Number: | 2233684 |
| Sampled By: | Norbert Botca | Proj. Acct. code: | | | |
| Company: | YG-Environment | | | | |

Method of Analysis

| Method Name | Reference | | Method | Date Analysis Started | Location |
|---|-----------|---|---|--------------------------|----------------|
| Alk, pH, EC, Turb in water (Surrey) | APHA | * | Alkalinity - Titration Method, 2320 B | Oct 21, 2017 | Exova Surrey |
| Alk, pH, EC, Turb in water (Surrey) | APHA | * | Conductivity, 2510 B | Oct 21, 2017 | Exova Surrey |
| Alk, pH, EC, Turb in water (Surrey) | APHA | * | pH - Electrometric Method, 4500-H+ B | Oct 21, 2017 | Exova Surrey |
| Ammonia-N in Water (Surrey) | APHA | * | Flow Injection Analysis, 4500-NH3 H | Oct 24, 2017 | Exova Surrey |
| Anions by IEC in water (Surrey) | APHA | * | lon Chromatography with Chemical Suppression of Eluent Cond., 4110 B | Oct 20, 2017 | Exova Surrey |
| Carbon Inorganic (Dissolved) in water(DIC) | APHA | | High-Temperature Combustion Method, 5310 B | Oct 25, 2017 | Exova Edmonton |
| Carbon Inorganic (Total) in water (TIC) | APHA | | High-Temperature Combustion Method, 5310 B | Oct 25, 2017 | Exova Edmonton |
| Carbon Organic (Dissolved) in water (DOC) | APHA | | High-Temperature Combustion Method, 5310 B | Oct 24, 2017 | Exova Edmonton |
| Carbon Organic (Total) in water (TOC) | APHA | | High-Temperature Combustion Method, 5310 B | Oct 24, 2017 | Exova Edmonton |
| Mercury Low Level (Dissolved) in water (Surrey) | EPA | * | Mercury in Water by Cold Vapor Atomic Fluorescence Spectrometry, 245.7 | Oct 23, 2017 | Exova Surrey |
| Metals SemiTrace (Dissolved) in water (Surrey) | US EPA | * | Metals & Trace Elements by ICP-AES, 6010C | Oct 23, 2017 | Exova Surrey |
| Phosphorus - total by Smartchem (Surrey) | APHA | * | Persulfate digestion method, 4500-P B5 | Oct 23, 2017 | Exova Surrey |
| Solids Dissolved (Total, Fixed and Volatile) - Surrey | APHA | * | Total Dissolved Solids Dried at 180 C, 2540 C | Oct 23, 2017 | Exova Surrey |
| Total and Kjeldahl Nitrogen (Total) in Water | ISO | * | Water Quality - Determination of nitrogen, ISO/TR 11905-2 | Oct 23, 2017 | Exova Edmonton |
| Trace Metals (dissolved) in Water (Surrey) | US EPA | * | Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8 | Oct 23, 2017 | Exova Surrey |
| | | | * Reference Method Modified | | |

References

| APHA | Standard Methods for the Examination of Water and Wastewater |
|--------|--|
| EPA | Environmental Protection Agency Test Methods - US |
| ISO | International Organization for Standardization |
| US EPA | US Environmental Protection Agency Test Methods |

Comments:

- Oct 23, 2017 Reduction of analytical volume was necessary for metals analysis to bring results within the analytical range for sample #1234110-1. Detection limits are adjusted accordingly.
 Oct 25, 2017 - Sample 1234110-4; 5883399: Reduction of analytical volume was necessary for sulfate to bring results within the analytical range for
- Sample 1234110-4. Detection limits are adjusted accordingly.
 Oct 25, 2017 Sample 1234110-1; 5883396: Reduction of analytical volume was necessary for anions due to matrix effects in sample 1234110-1. Detection limits are adjusted accordingly.
- Oct 25, 2017 Sample 1234110-4; 5883399: Reduction of analytical volume was necessary for sulfate to bring results within the analytical range for sample 1234110-4. Detection limits are adjusted accordingly.
- Oct 25, 2017 Total organic carbon was less than dissolved organic carbon for sample 1234110-4. The results were verified and are within expected measurement uncertainty.

Methodology and Notes



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1234110 |
|-------------|---------------------------|-------------------|--------------------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Haines Junction area, YT | Date Received: | Oct 20, 2017 |
| | Y1A 2C6 | LSD: | | Date Reported: | Oct 26, 2017 |
| Attn: | Accounts Payable | P.O.: | C00037999 | Report Number: | 2233684 |
| Sampled By: | Norbert Botca | Proj. Acct. code: | | | |
| Company: | YG-Environment | | | | |

• Oct 25, 2017 - Reduction of analytical volume was necessary for boron analysis to bring results within the analytical range for sample #1234110-1. Detection limits are adjusted accordingly.

• Oct 26, 2017 - Sample 1234110-1; 5883396: Reduction of analytical volume was necessary for fluoride to bring results within the analytical range for sample 1234110-1. Detection limits are adjusted accordingly.

Please direct any inquiries regarding this report to our Client Services Group or to the Operations Manager at the coordinates indicated at the top left of this page. Results relate only to samples as submitted.

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Report Transmission Cover Page



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1235288 |
|-------------|---------------------------|-------------------|--------------------|-----------------|--------------|
| | 202, 419 Range Road | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | McRae Creeks Well, | Date Received: | Oct 25, 2017 |
| | Y1A 3V1 | | whitehorse, YT | Date Reported: | Oct 31, 2017 |
| Attn: | John Miller | LSD: | 0 | Report Number: | 2235880 |
| Sampled By: | Norbert Botca | P.O.: | C00037999 | | |
| Company: | | Proj. Acct. code: | | | |

| Contact | Compan | у | Address | | | | | |
|---------------------------------------|--------|---------------------|--|------|--|--|--|--|
| Holly Goulding | YTG DO | E - Water Resources | 202, 419 Range Road | | | | | |
| | | | Whitehorse, YT Y1A 3V1 | | | | | |
| | | | Phone: (867) 456-6583 Fax: (867) 667-3 | 3194 | | | | |
| | | | Email: holly.goulding@gov.yk.ca | | | | | |
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| Email - Merge Reports | | PDF | COC / Test Report | | | | | |
| Email - Single Report | | EQWin | Test Report | | | | | |
| Email - Single Report | | PDF | Invoice | | | | | |
| John Miller | YTG DO | E - Water Resources | 202, 419 Range Road | | | | | |
| | | | Whitehorse, YT Y1A 3V1 | | | | | |
| | | | Phone: (867) 667-3104 Fax: (867) 667-3 | 3194 | | | | |
| | | | Email: john.miller@gov.yk.ca | | | | | |
| Delivery | | Format | Deliverables | | | | | |
| Email - Multiple Reports By Lot EQWin | | EQWin | Test Report | | | | | |
| Email - Multiple Reports By Lot PDF | | PDF | COC / Test Report | | | | | |
| Email - Single Report | | PDF | COA | | | | | |
| Email - Single Report | | PDF | Invoice | | | | | |
| Norbert Botca | YTG DO | E - Water Resources | 203, 1191 Front Street | | | | | |
| | | | Whitehorse, YT Y1A 0K5 | | | | | |
| | | | Phone: (867) 667-3512 Fax: (867) 667-3 | 3194 | | | | |
| | | | Email: norbert.botca@gov.yk.ca | | | | | |
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| Email - Single Report | | PDF | Invoice | | | | | |
| Tyler Williams | YTG DO | E - Water Resources | 202, 419 Range Road | | | | | |
| | | | Whitehorse, YT Y1A 3V1 | | | | | |
| | | | Phone: (867) 667-3233 Fax: (867) 667-3 | 3194 | | | | |
| | | | Email: Tyler.Williams@gov.yk.ca | | | | | |
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Analytical Report



| Bill To: Attn: Sampled By: Company: | YTG DOE - Water Resources 202, 419 Range Road Whitehorse, YT, Canada Y1A 3V1 John Miller Norbert Botca | Projec Projec Projec LSD: P.O.: Proj. <i>A</i> | et ID: et Name: et Location: Acct. code: | YOW YOW McRa white | 'N Nae Creeks Well, horse, YT 137999 | Lot ID: Control Number: Date Received: Date Reported: Report Number: | 1235288 Oct 25, 2017 Oct 31, 2017 2235880 | |
|--|---|---|--|-----------------------------|--|--|---|-------------------|
| | | Refer San Sampl | ence Numbe Sample Dat Sample Tim nple Locatio e Descriptio | er te ie in in | 1235288-1 Oct 24, 2017 13:45 YOWN-1101 / 2017264 / B | | | |
| | | | Matri | ix | Water | | | |
| Analyte | | | Units | | Results | Results | Results | Nominal Detection |
| Inorganic Nonm | etallic Parameters | | | | | | | |
| Nitrogen | Total | | mg/L | | 0.32 | | | 0.06 |
| Organic Carbon | Total Nonpurgeable | • | mg/L | | 2.0 | | | 0.5 |
| Organic Carbon | Dissolved Nonpurg | eable | mg/L | | 1.5 | | | 0.5 |
| Inorganic carbor | n Total | | mg/L | | 35.7 | | | 0.5 |
| Inorganic carbor | n Dissolved | | mg/L | | 34.5 | | | 0.5 |
| Ammonia - N | | | mg/L | | <0.01 | | | 0.01 |
| Phosphorus | Total | | mg/L | | 0.027 | | | 0.003 |
| Metals Dissolve | d | | | | | | | |
| Titanium | Dissolved | | mg/L | | 0.004 | | | 0.002 |
| Mercury | Dissolved | | mg/L | | <0.00001 | | | 0.00001 |
| Physical and Ag | gregate Properties | | | | | | | |
| Solids | Total Dissolved | | mg/L | | 160 | | | 5 |
| Routine Water | | | | | | | | |
| pH - Holding Tin | ne | | | | Exceeded | | | |
| рН | at 25 °C | | | | 7.82 | | | |
| Electrical Condu | ictivity | | µS/cm at 25 °C | 5 | 242 | | | 1 |
| Calcium | Dissolved | | mg/L | | 34 | | | 0.01 |
| Magnesium | Dissolved | | mg/L | | 9.4 | | | 0.02 |
| Potassium | Dissolved | | mg/L | | 1.8 | | | 0.04 |
| Silicon | Dissolved | | mg/L | | 9.7 | | | 0.005 |
| Sodium | Dissolved | | mg/L | | 3.7 | | | 0.1 |
| Sulfur | Dissolved | | mg/L | | 1.1 | | | 0.02 |
| Bicarbonate | | | mg/L | | 187 | | | 5 |
| Carbonate | | | mg/L | | <6 | | | 6 |
| Hydroxide | 0.000 | | mg/L | | <5 | | | 5 |
| P-Alkalinity | as CaCO3 | | mg/L | | <5 | | | 5 |
| I-Alkalinity | as CaCO3 | | mg/L | | 153 | | | 5 |
| Chloride | Dissolved | | mg/L | | 0.81 | | | 0.05 |
| | Dissolved | | mg/L | | 0.05 | | | 0.01 |
| Nitrate - N | Dissolved | | mg/L | | 0.16 | | | 0.01 |
| | Dissolved | | mg/L | | <0.01 | | | 0.01 |
| Suirate (SO4) | | I) | mg/L | | 1.5 | | | 0.1 |
| | | eu) | mg/∟ | | 123 | | | Э |
| Trace metals DI | souveu | | | | | | | |

| Digestion | Dissolved | | Field filtered and | |
|-----------|-----------|------|--------------------|-------|
| | | | Pres Dissol | |
| Titanium | Dissolved | mg/L | 0.004 | 0.002 |

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Analytical Report



| Bill To: | YTG DOE - Water Resources 202, 419 Range Road | Project ID: Project Name: | YOWN YOWN | Lot ID: Control Number: | 1235288 |
|----------------------------------|---|---|---|--|---|
| Attn: Sampled By: Company: | Whitehorse, YT, Canada Y1A 3V1 John Miller Norbert Botca | Project Location: LSD: P.O.: Proj. Acct. code: | McRae Creeks Well, whitehorse, YT C00037999 | Date Received: Date Reported: Report Number: | Oct 25, 2017 Oct 31, 2017 2235880 |

| | | Reference Number | 1235288-1 | | | |
|---------------------|-----------------|--------------------|----------------------------|---------|---------|----------------------------|
| | | Sample Date | Oct 24, 2017 | | | |
| | | Sample Time | 13:45 | | | |
| | | Sample Location | | | | |
| | | Sample Description | YOWN-1101 / 2017264 / B | | | |
| | | Matrix | Water | | | |
| Analyte | | Units | Results | Results | Results | Nominal Detection Limit |
| Trace Metals Dissol | ved - Continued | | | | | |
| Aluminum | Dissolved | mg/L | <0.001 | | | 0.001 |
| Antimony | Dissolved | mg/L | 0.00016 | | | 0.00002 |
| Arsenic | Dissolved | mg/L | 0.0002 | | | 0.0001 |
| Barium | Dissolved | mg/L | 0.0048 | | | 0.0001 |
| Beryllium | Dissolved | mg/L | <0.00005 | | | 0.00005 |
| Bismuth | Dissolved | mg/L | <0.0001 | | | 0.0001 |
| Boron | Dissolved | mg/L | 0.004 | | | 0.002 |
| Cadmium | Dissolved | mg/L | <0.00001 | | | 0.00001 |
| Chromium | Dissolved | mg/L | 0.00010 | | | 0.00005 |
| Cobalt | Dissolved | mg/L | <0.00002 | | | 0.00002 |
| Copper | Dissolved | mg/L | <0.0005 | | | 0.0005 |
| Iron | Dissolved | mg/L | <0.002 | | | 0.002 |
| Lead | Dissolved | mg/L | <0.00001 | | | 0.00001 |
| Lithium | Dissolved | mg/L | <0.0005 | | | 0.0005 |
| Manganese | Dissolved | mg/L | <0.001 | | | 0.001 |
| Molybdenum | Dissolved | mg/L | 0.00089 | | | 0.00002 |
| Nickel | Dissolved | mg/L | 0.0004 | | | 0.0002 |
| Selenium | Dissolved | mg/L | <0.0002 | | | 0.0002 |
| Silver | Dissolved | mg/L | <0.00001 | | | 0.00001 |
| Strontium | Dissolved | mg/L | 0.1610 | | | 0.0001 |
| Tellurium | Dissolved | mg/L | <0.00005 | | | 0.00005 |
| Thallium | Dissolved | mg/L | <0.00001 | | | 0.00001 |
| Thorium | Dissolved | mg/L | 0.00016 | | | 0.00005 |
| Tin | Dissolved | mg/L | 0.0001 | | | 0.0001 |
| Uranium | Dissolved | mg/L | 0.00152 | | | 0.00001 |
| Vanadium | Dissolved | mg/L | 0.00070 | | | 0.00005 |
| Zinc | Dissolved | mg/L | 0.00096 | | | 0.0005 |
| Zirconium | Dissolved | mg/L | <0.0001 | | | 0.0001 |

Nothiert mi Approved by:

Mathieu Simoneau **Operations Manager**

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Quality Control

Metals Dissolved



| Bill To: | ill To: YTG DOE - Water Resources Project ID: 202, 419 Range Road Project Name: Whitehorse, YT, Canada Project Location: Y1A 3V1 | | YOWN YOWN McRae whiteho | Creeks Well, rse, YT | Lot ID Control Number Date Received Date Reported | 1235288 Oct 25, 2017 Oct 31, 2017 | |
|-------------------------|---|----------------------------|--------------------------------------|-------------------------|--|--|-----------|
| Sampled By: Company: | Norbert Botca | P.O.: Proj. Acct. code: | P.O.: C00037999 Proj. Acct. code: | | Report Number | 2233660 | |
| Inorganic No | nmetallic Parameters | | | | | | |
| Blanks | Units | Measure | ed | Lower Limit | Upper Limit | | Passed QC |
| Ammonium - | ·N μg/L | -7.68 | 87 | -110.00 | 10.00 | | yes |
| Phosphorus | mg/L | -0.002 | 23 | -0.003 | 0.003 | | yes |
| Date Acquir | red: October 30, 2017 | | | | | | |
| Nitrogen | mg/L | | 0 | -0.04 | 0.08 | | yes |
| Inorganic car | rbon mg/L | 0.220 | 05 | -0.5 | 0.5 | | yes |
| Date Acquir | red: October 31, 2017 | | | | | | |
| Calibration Ch | neck Units | % Recove | ry | Lower Limit | Upper Limit | | Passed QC |
| Ammonium - | N μg/L | 107.6 | 64 | 85 | 115 | | yes |
| Phosphorus | mg/L | 101.1 | 10 | 90 | 110 | | yes |
| Date Acquir | red: October 30, 2017 | | | | | | |
| Ammonium - | ·N μg/L | 128.2 | 26 | 70 | 130 | | yes |
| Phosphorus | mg/L | 103.0 | 00 | 80 | 120 | | yes |
| Date Acquir | red: October 30, 2017 | | | | | | |
| Client Sample | Replicates Units | Replicate | e 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Nitrogen | mg/L | 0.3 | 32 | 0.27 | 10 | 0.06 | yes |
| Inorganic car | rbon mg/L | 35 | 5.7 | 35.7 | 10 | 1.0 | yes |
| Date Acquir | red: October 31, 2017 | | | | | | |
| Ammonia - N | N mg/L | 0.0 | 04 | 0.03 | 20 | 50.00 | yes |
| Date Acquir | red: October 27, 2017 | | | | | | |
| Control Samp | le Units | Measure | ed | Lower Limit | Upper Limit | | Passed QC |
| Nitrogen | mg/L | 1 [.] | 15 | 103.74 | 137.28 | | yes |
| Inorganic car | rbon mg/L | 47 | 7.3 | 38.5 | 53.5 | | yes |
| Date Acquir | red: October 31, 2017 | | | | | | |
| Nitrogen | mg/L | 14 | l.1 | 13.27 | 16.93 | | yes |
| Inorganic car | rbon mg/L | 16 | 6.6 | 14.1 | 18.3 | | yes |
| Date Acquir | red: October 31, 2017 | | | | | | |
| Nitrogen | mg/L | 1.0 | 05 | 0.89 | 1.25 | | yes |
| Inorganic car | rbon mg/L | 3 | 3.5 | 2.7 | 4.1 | | yes |
| Date Acquir | red: October 31, 2017 | | | | | | - |
| Phosphorus | ma/L | 0.46 | 65 | 0.389 | 0.503 | | ves |
| Date Acquir | red: October 30. 2017 | | | | | | ,,,, |
| | | | | | | | |

| Blanks | Units | Measured | Lower Limit | Upper Limit | Passed QC |
|-------------------|------------------|------------|-------------|-------------|-----------|
| Mercury | ng/L | -7.1 | -9.99 | 9.99 | yes |
| Date Acquired: | October 30, 2017 | | | | |
| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | Passed QC |
| Mercury | ng/L | 108.60 | 90 | 110 | yes |
| Date Acquired: | October 30, 2017 | | | | |
| Titanium | mg/L | 97.95 | 90 | 110 | yes |
| Date Acquired: | October 28, 2017 | | | | |

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Quality Control



| Bill To: YTG DOE - Water Resources 202, 419 Range Road Whitehorse, YT, Canada Y1A 3V1 Attn: John Miller Sampled By: Norbert Botca Company: | | Project ID:YOWNProject Name:YOWNProject Location:McRae Creeks Well, whitehorse, YTLSD:P.O.:P.O.:C00037999Proj. Acct. code:Volume | | | Lot ID Control Number Date Received Date Reported Report Number | 1235288 Oct 25, 2017 Oct 31, 2017 2235880 | | |
|--|----------|---|----------|-----|---|---|-------------------|-----------|
| Metals Disso | lved - (| Continued | | | | | | |
| Calibration Ch | neck | Units | % Recov | ery | Lower Limit | Upper Limit | | Passed QC |
| Titanium | | mg/L | 100 | .32 | 90 | 110 | | yes |
| Date Acquir | red: O | ctober 28, 2017 | | | | | | - |
| Certified Refer | rence Ma | aterial Units | Measu | red | Target | Lower Limit | Upper Limit | Passed QC |
| Mercurv | | ua/L | C | .04 | 0.04 | 0.02 | 0.05 | ves |
| Date Acquir | red: Oo | ctober 30, 2017 | | - | | | | , |
| Physical and | Aaare | gate Properties | | | | | | |
| Client Sample | Replica | tes Units | Replicat | e 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Solids | • | mg/L | • | 170 | 170 | 30 | 50.000 | yes |
| Date Acquir | red: O | ctober 26, 2017 | | | | | | - |
| Control Sampl | le | Units | Measu | red | Lower Limit | Upper Limit | | Passed QC |
| Solids | | ma/L | | 560 | 412.000 | 610.600 | | Ves |
| Date Acquir | red: O | ctober 26, 2017 | | | | | | , |
| Solide | | mg/l | | ~5 | -5 001 | 5 001 | | Vec |
| Data Acquir | rod: Or | nig/L | | <5 | -5.001 | 5.001 | | yes |
| Date Acquir | ieu. Ot | clober 20, 2017 | | | | | | |
| Routine Wate | ər | | | | | | | |
| Blanks | | Units | Measu | red | Lower Limit | Upper Limit | | Passed QC |
| Calcium | | mg/L | -0.00795 | 797 | -0.010 | 0.010 | | yes |
| Magnesium | | mg/L | 0.000408 | 688 | -0.020 | 0.020 | | yes |
| Potassium | | mg/L | -0.011 | 597 | -0.040 | 0.040 | | yes |
| Silicon | | mg/L | -0.00204 | 012 | -0.005 | 0.005 | | yes |
| Sodium | | mg/L | -0.0139 | 737 | -0.099 | 0.099 | | yes |
| Date Acquir | red: Oo | ctober 28, 2017 | | | | | | |
| Chloride | | mg/L | 0.0261 | 144 | -0.201 | 0.201 | | yes |
| Fluoride | | mg/L | | 0 | -0.099 | 0.099 | | yes |
| Nitrate - N | | mg/L | | 0 | -0.010 | 0.010 | | yes |
| Nitrite - N | | mg/L | | 0 | -0.099 | 0.099 | | yes |
| Sulfate (SO4 | l) | mg/L | | 0 | -0.990 | 0.990 | | yes |
| Date Acquir | red: Oo | ctober 26, 2017 | | | | | | |
| Calibration Ch | neck | Units | % Recov | ery | Lower Limit | Upper Limit | | Passed QC |
| Calcium | | mg/L | 100 | .70 | 90 | 110 | | yes |
| Magnesium | | mg/L | 103 | .75 | 90 | 110 | | yes |
| Potassium | | mg/L | 103 | .70 | 90 | 110 | | yes |
| Silicon | | mg/L | 102 | .34 | 90 | 110 | | yes |
| Sodium | | mg/L | 103 | .84 | 90 | 110 | | yes |
| Date Acquir | red: Oo | ctober 28, 2017 | | | | | | |
| Chloride | | mg/L | 101 | .03 | 85 | 115 | | yes |
| Fluoride | | mg/L | 100 | .78 | 85 | 115 | | yes |
| Nitrate - N | | mg/L | 99 | .49 | 85 | 115 | | yes |
| Nitrite - N | | mg/L | 94 | .93 | 90 | 110 | | yes |
| Sulfate (SO4 | ł) | mg/L | 102 | .26 | 85 | 115 | | yes |
| Date Acquir | red: Od | ctober 26, 2017 | | | | | | |

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Quality Control



| Bill To: Attn: Sampled By: Company: | YTG DOE - 202, 419 Ra Whitehorse Y1A 3V1 John Miller Norbert Bot | Water Resources ange Road , YT, Canada | Project ID:YOWNProject Name:YOWNProject Location:McRae Creeks Well, whitehorse, YTLSD:P.O.:P.O.:C00037999Proj. Acct. code:VOWN | | Lot ID Control Number Date Received Date Reported Report Number | 1235288 Oct 25, 2017 Oct 31, 2017 2235880 | | |
|--|---|--|---|-----|---|---|-------------------|-----------|
| Routine Wate | er - Contii | nued | | | | | | |
| Calibration Ch | neck | Units | % Recov | ery | Lower Limit | Upper Limit | | Passed QC |
| Chloride | | mg/L | 101 | .49 | 90 | 110 | | yes |
| Fluoride | | mg/L | 98 | .40 | 89 | 109 | | yes |
| Nitrate - N | | mg/L | 99 | .80 | 88 | 108 | | yes |
| Nitrite - N | | mg/L | 100 | .44 | 90 | 118 | | yes |
| Sulfate (SO4 | 4) | mg/L | 102 | .94 | 90 | 110 | | yes |
| Date Acquir | red: Octob | per 26, 2017 | | | | | | |
| Calcium | | mg/L | 101 | .68 | 90 | 110 | | yes |
| Magnesium | | mg/L | 106 | .06 | 90 | 110 | | yes |
| Potassium | | mg/L | 102 | .29 | 90 | 110 | | yes |
| Sodium | | mg/L | 103 | .46 | 90 | 110 | | yes |
| Date Acquir | red: Octob | per 28, 2017 | | | | | | |
| Certified Refe | rence Mater | ial Units | Measu | red | Target | Lower Limit | Upper Limit | Passed QC |
| T-Alkalinity | | mg/L | | 10 | 10 | 8 | 12 | yes |
| Date Acquir | red: Octob | oer 26, 2017 | | | | | | |
| Client Sample | Replicates | Units | Replicat | e 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| pН | | | 7 | .82 | 7.76 | 10 | | yes |
| Electrical Co | onductivity | dS/m at 25 °C | 0.2 | 242 | 0.239 | 10 | 0.005 | yes |
| Bicarbonate | | mg/L | | 187 | 190 | 10 | 10 | yes |
| Hydroxide | | mg/L | | <5 | <5 | 10 | 10 | yes |
| P-Alkalinity | | mg/L | | <5 | <5 | 10 | 5 | yes |
| T-Alkalinity | | mg/L | | 153 | 156 | 10 | 5 | yes |
| Chloride | | mg/L | 1 | 2.2 | 12.0 | 20 | 0.250 | yes |
| Fluoride | | mg/L | C | .10 | 0.10 | 20 | 0.050 | yes |
| Nitrate - N | | mg/L | C | .01 | <0.01 | 20 | 0.050 | yes |
| Nitrite - N | | mg/L | <0 | .01 | <0.01 | 20 | 0.050 | yes |
| Sulfate (SO4 | 4) | mg/L | | 9.4 | 9.4 | 20 | 0.500 | yes |
| Date Acquir | red: Octob | per 26, 2017 | | | | | | |
| Replicates | | Units | Replicat | e 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Chloride | | mg/L | 1 | .31 | 1.37 | 6 | 0.010 | yes |
| Nitrate - N | | mg/L | C | .30 | 0.31 | 12 | 0.050 | yes |
| Sulfate (SO4 | 1) | mg/L | | 4.6 | 4.6 | 6 | 0.010 | yes |
| Date Acquir | red: Octob | oer 26, 2017 | | | | | | |
| Control Samp | le | Units | Measu | red | Lower Limit | Upper Limit | | Passed QC |
| pН | | | g | .77 | 9.17 | 10.81 | | yes |
| Electrical Co | onductivity | µS/cm at 25 °C | : | 204 | 194 | 250 | | yes |
| P-Alkalinity | | mg/L | | 27 | 7 | 55 | | yes |
| T-Alkalinity | | mg/L | | 106 | 98 | 113 | | yes |
| Date Acquir | red: Octob | oer 26, 2017 | | | | | | |
| рН | | | 4 | .02 | 3.88 | 4.12 | | yes |
| Date Acquir | red: Octob | per 26, 2017 | | | | | | |
| рН | | | 7 | .98 | 7.88 | 8.12 | | yes |
| Date Acquir | red: Octob | per 26, 2017 | | | | | | - |

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Quality Control



| Bill To: Attn: Sampled By: Company: | YTG DOE - Water Resources 202, 419 Range Road Whitehorse, YT, Canada Y1A 3V1 John Miller Norbert Botca | | G DOE - Water ResourcesProject ID:YOWN2, 419 Range RoadProject Name:YOWNitehorse, YT, CanadaProject Location:McRae Creeks Well, whitehorse, YTA 3V1LSD:n MillerP.O.:C00037999Proj. Acct. code:Proj. Acct. code: | | Lot ID: Control Number: Date Received: Date Reported: Report Number: | 1235288 Oct 25, 2017 Oct 31, 2017 2235880 | | |
|--|---|----------------|--|------|--|---|--|-----------|
| Routine Wate | r - Contin | ued | | | | | | |
| Control Sample | e | Units | Measu | red | Lower Limit | Upper Limit | | Passed QC |
| Electrical Con | ductivity | µS/cm at 25 °C | 1; | 354 | 1323 | 1503 | | yes |
| Date Acquire | ed: Octobe | er 26, 2017 | | | | | | |
| Trace Metals | Dissolved | 1 | | | | | | |
| Blanks | | Units | Measu | red | Lower Limit | Upper Limit | | Passed QC |
| Aluminum | | µg/L | -0.333 | 685 | -0.990 | 0.990 | | ves |
| Antimony | | µg/L | | 0 | -0.020 | 0.020 | | ves |
| Arsenic | | µg/L | -0.00408 | 249 | -0.099 | 0.099 | | ves |
| Barium | | μg/L | -0.0468 | 386 | -0.099 | 0.099 | | ves |
| Bervllium | | ua/L | 0.0200 | 366 | -0.050 | 0.050 | | ves |
| Bismuth | | µg/L | -0.0790 | 753 | -0.099 | 0.099 | | ves |
| Boron | | µg/L | -0.282 | 445 | -2.001 | 2.001 | | ves |
| Cadmium | | µg/L | -0.0006003 | 325 | -0.010 | 0.010 | | ves |
| Chromium | | ua/L | | 0 | -0.050 | 0.050 | | ves |
| Cobalt | | ua/L | -0.00294 | 358 | -0.020 | 0.020 | | ves |
| Copper | | ua/L | -0.0279 | 074 | -0.050 | 0.050 | | ves |
| Iron | | ua/L | -1.03 | 605 | -2.001 | 2.001 | | ves |
| Lead | | ua/L | | 0 | -0.010 | 0.010 | | ves |
| Lithium | | µg/L | 0.0256 | 691 | -0.500 | 0.500 | | ves |
| Manganese | | µg/L | -0.009073 | 391 | -0.990 | 0.990 | | ves |
| Molvbdenum | | ua/L | | 0 | -0.020 | 0.020 | | ves |
| Nickel | | ua/L | -0.000669 | 503 | -0.200 | 0.200 | | ves |
| Selenium | | ua/L | -0.0388 | 904 | -0.200 | 0.200 | | ves |
| Silver | | ua/L | | 0 | -0.009 | 0.009 | | ves |
| Strontium | | ua/L | 0.00179 | 736 | -0.099 | 0.099 | | ves |
| Tellurium | | ua/L | | 0 | -0.050 | 0.050 | | ves |
| Thallium | | ua/L | -0.00976 | 736 | -0.010 | 0.010 | | ves |
| Thorium | | ua/L | | 0 | -0.050 | 0.050 | | ves |
| Tin | | ua/L | | 0 | -0.099 | 0.099 | | ves |
| Titanium | | µg/L | 0.000705 | 694 | -0.099 | 0.099 | | ves |
| Uranium | | µg/L | -0.00666 | 794 | -0.010 | 0.010 | | ves |
| Vanadium | | ua/L | | 0 | -0.050 | 0.050 | | ves |
| Zinc | | ua/L | 0.0506 | 524 | -0.500 | 0.500 | | ves |
| Zirconium | | ua/L | -0.033 | 219 | -0.099 | 0.099 | | ves |
| Date Acquire | ed: Octobe | er 28, 2017 | | | | | | , |
| Calibration Che | eck | Units | % Recov | ery | Lower Limit | Upper Limit | | Passed QC |
| Aluminum | | µg/L | 109 | 0.03 | 80 | 120 | | yes |
| Antimony | | µg/L | 91 | .96 | 90 | 110 | | yes |
| Arsenic | | µg/L | 99 | .35 | 90 | 110 | | yes |
| Barium | | µg/L | 103 | 8.87 | 90 | 110 | | yes |
| Beryllium | | µg/L | 100 |).51 | 90 | 110 | | yes |
| Boron | | µg/L | 105 | 5.73 | 70 | 130 | | yes |
| Cadmium | | µg/L | 102 | 2.93 | 90 | 110 | | yes |
| Chromium | | µg/L | 100 | .67 | 90 | 110 | | yes |

Quality Control

Page 7 of 9
EXOVA

| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1235288 |
|-------------|---------------------------|-------------------|--------------------|-----------------|--------------|
| | 202, 419 Range Road | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | McRae Creeks Well, | Date Received: | Oct 25, 2017 |
| | Y1A 3V1 | | whitehorse, YT | Date Reported: | Oct 31, 2017 |
| Attn: | John Miller | LSD: | 0 | Report Number: | 2235880 |
| Sampled By: | Norbert Botca | P.O.: | C00037999 | | |
| Company: | | Proj. Acct. code: | | | |

Trace Metals Dissolved - Continued

| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | Passed QC |
|-------------------|------------------|------------|-------------|-------------|-----------|
| Cobalt | µg/L | 102.33 | 90 | 110 | yes |
| Copper | µg/L | 100.87 | 90 | 110 | yes |
| Lead | µg/L | 98.98 | 90 | 110 | yes |
| Lithium | µg/L | 104.04 | 90 | 110 | yes |
| Molybdenum | µg/L | 96.90 | 90 | 110 | yes |
| Nickel | µg/L | 107.83 | 90 | 110 | yes |
| Selenium | µg/L | 100.09 | 90 | 110 | yes |
| Silver | µg/L | 91.26 | 90 | 110 | yes |
| Strontium | µg/L | 102.59 | 90 | 110 | yes |
| Thorium | µg/L | 108.26 | 90 | 110 | yes |
| Tin | µg/L | 98.39 | 90 | 110 | yes |
| Titanium | µg/L | 98.86 | 90 | 110 | yes |
| Uranium | µg/L | 99.72 | 90 | 110 | yes |
| Vanadium | µg/L | 101.64 | 90 | 110 | yes |
| Zinc | µg/L | 96.86 | 90 | 110 | yes |
| Date Acquired: | October 28, 2017 | | | | |
| Aluminum | µg/L | 98.96 | 80 | 120 | yes |
| Antimony | µg/L | 92.33 | 90 | 110 | yes |
| Arsenic | µg/L | 97.00 | 90 | 110 | yes |
| Barium | µg/L | 97.65 | 90 | 110 | yes |
| Beryllium | µg/L | 98.46 | 90 | 110 | yes |
| Boron | µg/L | 101.67 | 80 | 120 | yes |
| Cadmium | µg/L | 99.03 | 90 | 110 | yes |
| Chromium | µg/L | 95.52 | 90 | 110 | yes |
| Cobalt | µg/L | 96.79 | 90 | 110 | yes |
| Copper | µg/L | 93.18 | 90 | 110 | yes |
| Lead | µg/L | 94.36 | 90 | 110 | yes |
| Lithium | µg/L | 98.39 | 90 | 110 | yes |
| Molybdenum | µg/L | 105.01 | 90 | 110 | yes |
| Nickel | µg/L | 97.26 | 90 | 110 | yes |
| Selenium | µg/L | 98.91 | 90 | 110 | yes |
| Silver | µg/L | 95.54 | 90 | 110 | yes |
| Strontium | µg/L | 99.97 | 90 | 110 | yes |
| Thallium | µg/L | 96.43 | 90 | 110 | yes |
| Thorium | µg/L | 98.95 | 86 | 122 | yes |
| Tin | µg/L | 103.22 | 90 | 110 | yes |
| Titanium | µg/L | 91.54 | 90 | 110 | yes |
| Uranium | µg/L | 95.47 | 90 | 110 | yes |
| Vanadium | µg/L | 95.63 | 90 | 110 | yes |
| Zinc | µg/L | 99.89 | 90 | 110 | yes |
| Date Acquired: | October 28, 2017 | | | | |

Methodology and Notes



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1235288 |
|-------------|---------------------------|-------------------|--------------------|-----------------|--------------|
| | 202, 419 Range Road | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | McRae Creeks Well, | Date Received: | Oct 25, 2017 |
| | Y1A 3V1 | 1.05 | whitehorse, YT | Date Reported: | Oct 31, 2017 |
| Attn: | John Miller | LSD: | 000007000 | Report Number: | 2235880 |
| Sampled By: | Norbert Botca | P.O.: | C00037999 | | |
| Company: | | Proj. Acct. code: | | | |

Method of Analysis

| Method Name | Reference | | Method | Date Analysis Started | Location |
|---|-----------|---|---|--------------------------|----------------|
| Alk, pH, EC, Turb in water (Surrey) | APHA | * | Alkalinity - Titration Method, 2320 B | Oct 26, 2017 | Exova Surrey |
| Alk, pH, EC, Turb in water (Surrey) | APHA | * | Conductivity, 2510 B | Oct 26, 2017 | Exova Surrey |
| Alk, pH, EC, Turb in water (Surrey) | APHA | * | pH - Electrometric Method, 4500-H+ B | Oct 26, 2017 | Exova Surrey |
| Ammonia-N in Water (Surrey) | APHA | * | Flow Injection Analysis, 4500-NH3 H | Oct 27, 2017 | Exova Surrey |
| Anions by IEC in water (Surrey) | APHA | * | lon Chromatography with Chemical Suppression of Eluent Cond., 4110 B | Oct 26, 2017 | Exova Surrey |
| Carbon Inorganic (Dissolved) in water(DIC) | APHA | | High-Temperature Combustion Method, 5310 B | Oct 31, 2017 | Exova Edmonton |
| Carbon Inorganic (Total) in water (TIC) | APHA | | High-Temperature Combustion Method, 5310 B | Oct 31, 2017 | Exova Edmonton |
| Carbon Organic (Dissolved) in water (DOC) | APHA | | High-Temperature Combustion Method, 5310 B | Oct 30, 2017 | Exova Edmonton |
| Carbon Organic (Total) in water (TOC) | APHA | | High-Temperature Combustion Method, 5310 B | Oct 27, 2017 | Exova Edmonton |
| Mercury Low Level (Dissolved) in water (Surrey) | EPA | * | Mercury in Water by Cold Vapor Atomic Fluorescence Spectrometry, 245.7 | Oct 30, 2017 | Exova Surrey |
| Metals SemiTrace (Dissolved) in water (Surrey) | US EPA | * | Metals & Trace Elements by ICP-AES, 6010C | Oct 28, 2017 | Exova Surrey |
| Phosphorus - total by Smartchem (Surrey) | APHA | * | Persulfate digestion method, 4500-P B5 | Oct 30, 2017 | Exova Surrey |
| Solids Dissolved (Total, Fixed and Volatile) - Surrey | APHA | * | Total Dissolved Solids Dried at 180 C, 2540 C | Oct 26, 2017 | Exova Surrey |
| Total and Kjeldahl Nitrogen (Total) in Water | ISO | * | Water Quality - Determination of nitrogen, ISO/TR 11905-2 | Oct 27, 2017 | Exova Edmonton |
| Trace Metals (dissolved) in Water (Surrey) | US EPA | * | Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8 | Oct 28, 2017 | Exova Surrey |
| | | | * Reference Method Modified | | |

References

APHAStandard Methods for the Examination of Water and WastewaterEPAEnvironmental Protection Agency Test Methods - USISOInternational Organization for StandardizationUS EPAUS Environmental Protection Agency Test Methods

Methodology and Notes



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1235288 |
|-------------|---------------------------|-------------------|--------------------|-----------------|--------------|
| | 202, 419 Range Road | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | McRae Creeks Well, | Date Received: | Oct 25, 2017 |
| | Y1A 3V1 | 1.00 | whitehorse, YT | Date Reported: | Oct 31, 2017 |
| Attn: | John Miller | LSD: | 000007000 | Report Number: | 2235880 |
| Sampled By: | Norbert Botca | P.O.: | C00037999 | | |
| Company: | | Proj. Acct. code: | | | |

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Report Transmission Cover Page



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1236284 |
|-------------|---------------------------|-------------------|-----------------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Whitehorse Area(Marsh | Date Received: | Oct 30, 2017 |
| | Y1A 2C6 | | and Labarge) | Date Reported: | Nov 3, 2017 |
| Attn: | Accounts Payable | LSD: | | Report Number: | 2237858 |
| Sampled By: | Norbert Botca | P.O.: | C00037999 | | |
| Company: | YG-Environment | Proj. Acct. code: | | | |

| Contact | Company | Address | | |
|-----------------------------|---------------------------|---------------------------------|------|----------------|
| Holly Goulding | YTG DOE - Water Resources | 202, 419 Range Road | | |
| | | Whitehorse, YT Y1A 3V1 | | |
| | | Phone: (867) 456-6583 | Fax: | (867) 667-3194 |
| | | Email: holly.goulding@gov.yk.ca | | |
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| John Miller | YTG DOE - Water Resources | 202, 419 Range Road | | · · |
| | | Whitehorse, YT Y1A 3V1 | | |
| | | Phone: (867) 667-3104 | Fax: | (867) 667-3194 |
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| Email - Single Report | PDF | Invoice | | |
| Norbert Botca | YTG DOE - Water Resources | 203, 1191 Front Street | | |
| | | Whitehorse, YT Y1A 0K5 | | |
| | | Phone: (867) 667-3512 | Fax: | (867) 667-3194 |
| | | Email: norbert.botca@gov.yk.ca | | |
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| Email - Single Report | PDF | COA | | |
| Email - Single Report | PDF | COR | | |
| Email - Single Report | PDF | Invoice | | |
| Tyler Williams | YTG DOE - Water Resources | 202, 419 Range Road | | |
| | | Whitehorse, YT Y1A 3V1 | | |
| | | Phone: (867) 667-3233 | Fax: | (867) 667-3194 |
| | | Email: Tyler.Williams@gov.yk.ca | | |
| Delivery | Format | Deliverables | | |
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| Email - Multiple Reports B | / Lot PDF | COC / Test Report | | |

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Analytical Report



| Bill To: Attn: Sampled By: Company: | YTG DOE - Water Resources PO Box 2703 Whitehorse, YT, Canada Y1A 2C6 Accounts Payable Norbert Botca YG-Environment | Projec Projec Projec LSD: P.O.: Proj. / | et ID: t Name: t Location: Acct. code: ence Number | YOWN YOWN Whitehorse Area(Marsh and Labarge) C00037999 | Lot ID: Control Number: Date Received: Date Reported: Report Number: 1236284-2 | 1236284 Oct 30, 2017 Nov 3, 2017 2237858 | |
|--|--|--|--|--|---|--|----------------------------|
| | | Refer | Sample Date | Oct 26, 2017 | Oct 26, 2017 | | |
| | | • | Sample Time | 13:30 | 11:05 | | |
| | | Sar Sampl | nple Location e Description | YOWN-1610 / 2017270 / 11.3 °C / B | YOWN-1501 / 2017271 / 11.3 °C / B | | |
| | | | Matrix | Water | Water | | |
| Analyte | | | Units | Results | Results | Results | Nominal Detection Limit |
| Inorganic Nonm | netallic Parameters | | | | | | |
| Nitrogen | Total | | mg/L | 0.67 | 0.10 | | 0.06 |
| Organic Carbon | Total Nonpurgeable | ; | mg/L | 3.2 | 1.1 | | 0.5 |
| Organic Carbon | Dissolved Nonpurg | eable | mg/L | 2.3 | <0.5 | | 0.5 |
| Inorganic carbor | n Total | | mg/L | 56.9 | 8.1 | | 0.5 |
| Inorganic carbor | n Dissolved | | mg/L | 56.4 | 1.7 | | 0.5 |
| Ammonia - N | | | mg/L | 0.06 | 0.09 | | 0.01 |
| Phosphorus | Total | | mg/L | 0.010 | 0.076 | | 0.003 |
| Metals Dissolve | d | | | | | | |
| Titanium | Dissolved | | mg/L | 0.008 | <0.002 | | 0.002 |
| Mercury | Dissolved | | mg/L | <0.00001 | <0.00001 | | 0.00001 |
| Physical and Ag | ggregate Properties | | | | | | |
| Solids | Total Dissolved | | mg/L | 250 | 170 | | 5 |
| Routine Water | | | | | | | |
| Digestion | Dissolved | | | Field filtered and Pres Dissol | Field filtered and Pres Dissol | | |
| nH | at 25 °C | | | 7 93 | 8 50 | | |
| Electrical Condu | uctivity | | µS/cm at 25 °C | 407 | 271 | | 1 |
| Calcium | Dissolved | | mg/L | 36 | 7.4 | | 0.01 |
| Magnesium | Dissolved | | mg/L | 22 | 1.1 | | 0.02 |
| Potassium | Dissolved | | mg/L | 0.96 | 0.58 | | 0.04 |
| Silicon | Dissolved | | mg/L | 0.72 | 3.1 | | 0.005 |
| Sodium | Dissolved | | mg/L | 2.8 | 50 | | 0.1 |
| Sulfur | Dissolved | | mg/L | 0.69 | 16 | | 0.02 |
| Bicarbonate | | | mg/L | 310 | 130 | | 5 |
| Carbonate | | | mg/L | <6 | <6 | | 6 |
| Hydroxide | | | mg/L | <5 | <5 | | 5 |
| P-Alkalinity | as CaCO3 | | mg/L | <5 | <5 | | 5 |
| T-Alkalinity | as CaCO3 | | mg/L | 254 | 106 | | 5 |
| Chloride | Dissolved | | mg/L | 0.61 | 0.55 | | 0.05 |
| Fluoride | Dissolved | | mg/L | 0.09 | 0.81 | | 0.01 |
| Nitrate - N | Dissolved | | mg/L | <0.01 | 0.01 | | 0.01 |
| Nitrite - N | Dissolved | | mg/L | <0.01 | <0.01 | | 0.01 |
| Sulfate (SO4) | Dissolved | | mg/L | 0.1 | 47.8 | | 0.1 |
| Hardness | as CaCO3 (dissolve | ed) | mg/L | 181 | 23 | | 5 |

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Analytical Report



| Bill To: Attn: Sampled By: Company: | YTG DOE - Water Resources PO Box 2703 Whitehorse, YT, Canada Y1A 2C6 Accounts Payable Norbert Botca YG-Environment | Project ID: Project Name: Project Location: LSD: P.O.: Proj. Acct. code: | YOWN YOWN Whitehorse Area(Marsh and Labarge) C00037999 | Lot ID: Control Number: Date Received: Date Reported: Report Number: | 1236284 Oct 30, 2017 Nov 3, 2017 2237858 | |
|--|--|---|--|--|--|-------------------|
| | | Reference Numbe | r 1236284-1 | 1236284-2 | | |
| | | Sample Date | • Oct 26, 2017 | Oct 26, 2017 | | |
| | | Sample Time | e 13:30 | 11:05 | | |
| | | Sample Location | 1 | | | |
| | | Sample Description | 1 YOWN-1610 / 2017270 / 11.3 °C / B | YOWN-1501 / 2017271 / 11.3 °C / B | | |
| | | Matrix | Water | Water | | |
| Analyte | | Units | Results | Results | Results | Nominal Detection |
| Trace Metals Di | issolved | | | | | Linin |
| Digestion | Dissolved | | Field filtered and Pres Dissol | Field filtered and Pres Dissol | | |
| Titanium | Dissolved | mg/L | 0.008 | <0.002 | | 0.002 |
| Aluminum | Dissolved | mg/L | <0.001 | <0.001 | | 0.001 |
| Antimony | Dissolved | mg/L | 0.00005 | 0.00008 | | 0.00002 |
| Arsenic | Dissolved | mg/L | 0.0001 | 0.0332 | | 0.0001 |
| Barium | Dissolved | mg/L | 0.0895 | 0.0238 | | 0.0001 |
| Beryllium | Dissolved | mg/L | <0.00005 | <0.00005 | | 0.00005 |
| Bismuth | Dissolved | mg/L | <0.0001 | <0.0001 | | 0.0001 |
| Boron | Dissolved | mg/L | 0.009 | 0.038 | | 0.002 |
| Cadmium | Dissolved | mg/L | <0.00001 | <0.00001 | | 0.00001 |
| Chromium | Dissolved | mg/L | <0.00005 | <0.00005 | | 0.00005 |
| Cobalt | Dissolved | mg/L | 0.00004 | <0.00002 | | 0.00002 |
| Copper | Dissolved | mg/L | 0.0034 | <0.0005 | | 0.0005 |
| Iron | Dissolved | mg/L | 6.75 | 0.055 | | 0.002 |
| Lead | Dissolved | mg/L | <0.00001 | <0.00001 | | 0.00001 |
| Lithium | Dissolved | mg/L | 0.0010 | <0.0005 | | 0.0005 |
| Manganese | Dissolved | mg/L | 0.234 | 0.004 | | 0.001 |
| Molybdenum | Dissolved | mg/L | 0.00100 | 0.01531 | | 0.00002 |
| Nickel | Dissolved | mg/L | 0.0028 | 0.0004 | | 0.0002 |
| Selenium | Dissolved | mg/L | <0.0002 | <0.0002 | | 0.0002 |
| Silver | Dissolved | mg/L | 0.00003 | <0.00001 | | 0.00001 |
| Strontium | Dissolved | mg/L | 0.1882 | 0.0874 | | 0.0001 |
| Tellurium | Dissolved | mg/L | 0.00018 | <0.00005 | | 0.00005 |
| Thallium | Dissolved | mg/L | <0.00001 | <0.00001 | | 0.00001 |
| Thorium | Dissolved | mg/L | 0.00048 | 0.00016 | | 0.00005 |
| l'in | Dissolved | mg/L | <0.0001 | <0.0001 | | 0.0001 |
| Uranium | Dissolved | mg/L | <0.00001 | 0.00049 | | 0.00001 |
| Vanadium | Dissolved | mg/L | <0.00005 | <0.00005 | | 0.00005 |
| ∠inc | Dissolved | mg/L | 0.0007 | 0.0011 | | 0.0005 |
| ∠irconium | Dissolved | mg/L | 0.0002 | 0.0012 | | 0.0001 |

Mathier Approved by:

Mathieu Simoneau

Operations Manager

Data have been validated by Analytical Quality Control and Exova's Integrated Data Validation System (IDVS). Generation and distribution of the report, and approval by the digitized signature above, are performed through a secure and controlled automatic process. Terms and Conditions: https://www.exova.com/media/1232/exova-canada-inc-standard-conditions-of-contract-short-form.pdf

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Quality Control



| Bill To: Attn: Sampled By: Company: | YTG DOE - Water Resources PO Box 2703 Whitehorse, YT, Canada Y1A 2C6 Accounts Payable Norbert Botca YG-Environment | Project ID: Project Name: Project Location: LSD: P.O.: Proj. Acct. code: | YOWN YOWN Whitehorse Area and Labarge) C00037999 | a(Marsh | Lot ID: Control Number: Date Received: Date Reported: Report Number: | 1236284 Oct 30, 2017 Nov 3, 2017 2237858 | |
|--|--|---|--|-----------|--|--|-----------|
| Inorganic No | nmetallic Parameters | | | | | | |
| Blanks | Units | Measur | ed Low | er Limit | Upper Limit | | Passed QC |
| Ammonium - | N μg/L | -13.3 | 08 | -110.00 | 10.00 | | yes |
| Phosphorus | mg/L | -0.00 | 16 | -0.003 | 0.003 | | yes |
| Date Acquir | ed: November 01, 2017 | | | | | | |
| Organic Carb | oon mg/L | 0.065 | 21 | -0.5 | 0.5 | | yes |
| Inorganic car | bon mg/L | 0.20 | 98 | -0.5 | 0.5 | | yes |
| Date Acquir | ed: November 03, 2017 | | | | | | |
| Calibration Ch | eck Units | % Recove | ery Low | er Limit | Upper Limit | | Passed QC |
| Ammonium - | N μg/L | 111. | .13 | 85 | 115 | | yes |
| Phosphorus | mg/L | 100. | .64 | 90 | 110 | | yes |
| Date Acquir | ed: November 01, 2017 | | | | | | |
| Ammonium - | N µg/L | 111. | .54 | 70 | 130 | | yes |
| Phosphorus | mg/L | 87. | .00 | 80 | 120 | | yes |
| Date Acquir | ed: November 01, 2017 | | | | | | |
| Client Sample | Replicates Units | Replicate | e1 Rep | olicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Organic Cark | oon mg/L | : | 3.2 | 3.3 | 10 | 1.0 | yes |
| Inorganic car | bon mg/L | 5 | 5.4 | 56.8 | 10 | 1.0 | yes |
| Date Acquir | ed: November 03, 2017 | | | | | | |
| Ammonia - N | l mg/L | 0. | .06 | 0.05 | 20 | 50.00 | yes |
| Date Acquir | ed: November 03, 2017 | | | | | | |
| Control Samp | le Units | Measur | ed Low | er Limit | Upper Limit | | Passed QC |
| Organic Carb | oon mg/L | < | 0.5 | -0.5 | 0.5 | | yes |
| Date Acquir | ed: November 02, 2017 | | | | | | |
| Organic Carb | oon mg/L | 1 | 21 | 109.1 | 139.7 | | yes |
| Inorganic car | bon mg/L | 4 | 8.6 | 39.0 | 57.0 | | yes |
| Date Acquir | ed: November 03, 2017 | | | | | | |
| Organic Carb | oon mg/L | 1 | 4.1 | 12.8 | 17.2 | | yes |
| Inorganic car | bon mg/L | 1 | 7.0 | 13.5 | 18.3 | | yes |
| Date Acquir | ed: November 03, 2017 | | | | | | |
| Organic Carb | oon mg/L | : | 2.8 | 2.4 | 4.0 | | yes |
| Inorganic car | bon mg/L | : | 3.6 | 2.7 | 3.9 | | yes |
| Date Acquir | ed: November 03, 2017 | | | | | | |
| Phosphorus | mg/L | 0.4 | 54 | 0.389 | 0.503 | | yes |
| Date Acquir | ed: November 01, 2017 | | | | | | |
| Metals Disso | lved | | | | | | |
| Blanks | Units | Measur | ed Low | er Limit | Upper Limit | | Passed QC |
| Mercurv | na/L | | 1.3 | -9.99 | 9.99 | | ves |
| Date Acquir | ed: November 01. 2017 | | | | | | , 50 |
| Calibration Ch | eck Units | % Recover | arv Low | er l imit | Upper Limit | | Passed OC |
| Mercurv | na/L | 100 | .60 | 90 | 110 | | ves |
| , | 5 | | | - | | | , |

Date Acquired: November 01, 2017

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Quality Control



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1236284 |
|-------------|---------------------------|-------------------|-----------------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Whitehorse Area(Marsh | Date Received: | Oct 30, 2017 |
| | Y1A 2C6 | 100 | and Labarge) | Date Reported: | Nov 3, 2017 |
| Attn: | Accounts Payable | LSD: | 000007000 | Report Number: | 2237858 |
| Sampled By: | Norbert Botca | P.U.: | C00037999 | | |
| Company: | YG-Environment | Proj. Acct. code: | | | |

Metals Dissolved - Continued

| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | | Passed QC |
|---------------------|-------------------|-------------|-------------|----------------|-------------------|-----------|
| Titanium | mg/L | 99.14 | 90 | 110 | | yes |
| Date Acquired: | October 31, 2017 | | | | | |
| Certified Reference | e Material Units | Measured | Target | Lower Limit | Upper Limit | Passed QC |
| Mercury | μg/L | 0.03 | 0.04 | 0.02 | 0.05 | yes |
| Date Acquired: | November 01, 2017 | | | | | |
| Client Sample Rep | licates Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Titanium | mg/L | 0.03 | <0.02 | 30 | 0.012 | yes |
| Date Acquired: | October 31, 2017 | | | | | |
| Mercury | μg/L | <0.01 | <0.01 | 20 | 0.05 | yes |
| Date Acquired: | November 01, 2017 | | | | | |
| • | | | | | | |

Physical and Aggregate Properties

| Passed QC | Absolute Criteria | % RSD Criteria | Replicate 2 | Replicate 1 | licates Units | Client Sample Repli |
|-----------|-------------------|----------------|-------------|-------------|------------------|---------------------|
|) yes | 50.000 | 30 | 240 | 250 | mg/L | Solids |
| | | | | | October 31, 2017 | Date Acquired: |
| Passed QC | | Upper Limit | Lower Limit | Measured | Units | Control Sample |
| yes | | 610.600 | 412.000 | 460 | mg/L | Solids |
| | | | | | October 31, 2017 | Date Acquired: |
| yes | | 37.200 | 18.000 | 26 | mg/L | Solids |
| | | | | | October 31, 2017 | Date Acquired: |
| yes | | 5.001 | -5.001 | <5 | mg/L | Solids |
| | | | | | October 31, 2017 | Date Acquired: |

Routine Water

| Blanks | Units | Measured | Lower Limit | Upper Limit | Passed QC |
|-------------------|------------------|-------------|-------------|-------------|-----------|
| Calcium | mg/L | -0.00243609 | -0.010 | 0.010 | yes |
| Magnesium | mg/L | -0.00921136 | -0.020 | 0.020 | yes |
| Potassium | mg/L | -0.0286447 | -0.040 | 0.040 | yes |
| Silicon | mg/L | 0.00178357 | -0.005 | 0.005 | yes |
| Sodium | mg/L | -0.00281304 | -0.099 | 0.099 | yes |
| Date Acquired: | October 31, 2017 | | | | |
| Chloride | mg/L | 0 | -0.201 | 0.201 | yes |
| Fluoride | mg/L | 0 | -0.099 | 0.099 | yes |
| Nitrate - N | mg/L | 0 | -0.010 | 0.010 | yes |
| Nitrite - N | mg/L | 0 | -0.099 | 0.099 | yes |
| Sulfate (SO4) | mg/L | 0 | -0.990 | 0.990 | yes |
| Date Acquired: | October 31, 2017 | | | | |
| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | Passed QC |
| Calcium | mg/L | 101.05 | 90 | 110 | yes |
| Magnesium | mg/L | 104.17 | 90 | 110 | yes |
| Potassium | mg/L | 101.30 | 90 | 110 | yes |
| Silicon | mg/L | 99.14 | 90 | 110 | yes |

Quality Control



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1236284 |
|-------------|---------------------------|-------------------|-----------------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Whitehorse Area(Marsh | Date Received: | Oct 30, 2017 |
| | Y1A 2C6 | | and Labarge) | Date Reported: | Nov 3, 2017 |
| Attn: | Accounts Payable | LSD: | | Report Number: | 2237858 |
| Sampled By: | Norbert Botca | P.O.: | C00037999 | | |
| Company: | YG-Environment | Proj. Acct. code: | | | |

Routine Water - Continued

| Calibration Check | ι | Jnits | % Recovery | Lower Limit | Upper Limit | | Passed QC |
|----------------------------|------------|---------------|-------------|-------------|----------------|-------------------|-----------|
| Sodium | r | ng/L | 101.79 | 90 | 110 | | yes |
| Date Acquired: | October 31 | , 2017 | | | | | |
| Chloride | r | ng/L | 101.32 | 85 | 115 | | yes |
| Fluoride | r | ng/L | 101.94 | 85 | 115 | | yes |
| Nitrate - N | r | ng/L | 100.37 | 85 | 115 | | yes |
| Nitrite - N | r | ng/L | 96.48 | 90 | 110 | | yes |
| Sulfate (SO4) | n | ng/L | 102.32 | 85 | 115 | | yes |
| Date Acquired: | October 31 | , 2017 | | | | | |
| Chloride | r | ng/L | 100.92 | 90 | 110 | | yes |
| Fluoride | r | ng/L | 97.01 | 89 | 109 | | yes |
| Nitrate - N | r | ng/L | 99.35 | 88 | 108 | | yes |
| Nitrite - N | r | ng/L | 99.99 | 90 | 118 | | yes |
| Sulfate (SO4) | n | ng/L | 102.44 | 90 | 110 | | yes |
| Date Acquired: | October 31 | , 2017 | | | | | |
| Calcium | r | ng/L | 104.68 | 90 | 110 | | yes |
| Magnesium | r | ng/L | 109.69 | 90 | 110 | | yes |
| Potassium | r | ng/L | 107.35 | 90 | 110 | | yes |
| Sodium | n | ng/L | 106.79 | 90 | 110 | | yes |
| Date Acquired: | October 31 | , 2017 | | | | | |
| Certified Reference | Material U | Jnits | Measured | Target | Lower Limit | Upper Limit | Passed QC |
| T-Alkalinity | n | ng/L | 9 | 10 | 8 | 12 | yes |
| Date Acquired: | October 31 | , 2017 | | | | | |
| Client Sample Repli | icates l | Jnits | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Calcium | n | ng/L | 130 | 120 | 30 | 1.000 | yes |
| Magnesium | r | ng/L | 70 | 68 | 30 | 1.000 | yes |
| Potassium | r | ng/L | 3.9 | 3.4 | 30 | 1.000 | yes |
| Silicon | n | ng/L | 4.0 | 4.2 | 30 | 0.150 | yes |
| Sodium | n | ng/L | 24 | 24 | 30 | 1.000 | yes |
| Sulfur | n | ng/L | 6.1 | 6.0 | 30 | 3.000 | yes |
| Date Acquired: | October 31 | , 2017 | | | | | |
| рН | | | 7.47 | 7.48 | 10 | | yes |
| Electrical Conducti | ivity c | lS/m at 25 °C | 0.543 | 0.544 | 10 | 0.005 | yes |
| Bicarbonate | r | ng/L | 310 | 309 | 10 | 10 | yes |
| Hydroxide | r | ng/L | <5 | <5 | 10 | 10 | yes |
| P-Alkalinity | r | ng/L | <5 | <5 | 10 | 5 | yes |
| T-Alkalinity | r | ng/L | 254 | 253 | 10 | 5 | yes |
| Chloride | r | ng/L | 2.84 | 2.84 | 20 | 0.250 | yes |
| Fluoride | n | ng/L | 0.01 | 0.01 | 20 | 0.050 | yes |
| Nitrate - N | n | ng/L | 0.12 | 0.13 | 20 | 0.050 | yes |
| Nitrite - N | r | ng/L | <0.01 | <0.01 | 20 | 0.050 | yes |
| Sulfate (SO4) | r | ng/L | 0.7 | 0.7 | 20 | 0.500 | yes |
| Data Assuirade | October 31 | 2017 | | | | | |

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Quality Control



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1236284 |
|-------------|---------------------------|-------------------|-----------------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Whitehorse Area(Marsh | Date Received: | Oct 30, 2017 |
| | Y1A 2C6 | 100 | and Labarge) | Date Reported: | Nov 3, 2017 |
| Attn: | Accounts Payable | LSD: | 000007000 | Report Number: | 2237858 |
| Sampled By: | Norbert Botca | P.U.: | C00037999 | | |
| Company: | YG-Environment | Proj. Acct. code: | | | |

Routine Water - Continued

| Replicates | | Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
|-------------------|---------|----------------|-------------|-------------|----------------|-------------------|-----------|
| Chloride | | mg/L | 1.30 | 1.33 | 6 | 0.010 | yes |
| Nitrate - N | | mg/L | 0.30 | 0.31 | 12 | 0.050 | yes |
| Sulfate (SO4) | | mg/L | 4.6 | 4.7 | 6 | 0.010 | yes |
| Date Acquired: | October | 31, 2017 | | | | | |
| Control Sample | | Units | Measured | Lower Limit | Upper Limit | | Passed QC |
| рН | | | 10.36 | 9.17 | 10.81 | | yes |
| Electrical Conduc | tivity | µS/cm at 25 °C | 234 | 194 | 250 | | yes |
| P-Alkalinity | | mg/L | 27 | 7 | 55 | | yes |
| T-Alkalinity | | mg/L | 103 | 98 | 113 | | yes |
| Date Acquired: | October | 31, 2017 | | | | | |
| рН | | | 4.00 | 3.88 | 4.12 | | yes |
| Date Acquired: | October | 31, 2017 | | | | | |
| рН | | | 7.97 | 7.88 | 8.12 | | yes |
| Date Acquired: | October | 31, 2017 | | | | | |
| Electrical Conduc | tivity | µS/cm at 25 °C | 1415 | 1323 | 1503 | | yes |
| Date Acquired: | October | 31, 2017 | | | | | |

Trace Metals Dissolved

| Blanks | Units | Measured | Lower Limit | Upper Limit | Passed QC |
|------------|-------|-------------|-------------|-------------|-----------|
| Aluminum | µg/L | 0 | -0.990 | 0.990 | yes |
| Antimony | µg/L | 0 | -0.020 | 0.020 | yes |
| Arsenic | µg/L | -0.00119566 | -0.099 | 0.099 | yes |
| Barium | µg/L | -0.0424485 | -0.099 | 0.099 | yes |
| Beryllium | µg/L | 0.0155321 | -0.050 | 0.050 | yes |
| Bismuth | µg/L | 0.0144213 | -0.099 | 0.099 | yes |
| Boron | µg/L | 1.31325 | -2.001 | 2.001 | yes |
| Cadmium | µg/L | 0.00254575 | -0.010 | 0.010 | yes |
| Chromium | µg/L | -0.00200521 | -0.050 | 0.050 | yes |
| Cobalt | µg/L | -0.00200723 | -0.020 | 0.020 | yes |
| Copper | µg/L | 0 | -0.050 | 0.050 | yes |
| Iron | µg/L | -0.0443874 | -2.001 | 2.001 | yes |
| Lead | µg/L | 0 | -0.010 | 0.010 | yes |
| Lithium | µg/L | -0.0138493 | -0.500 | 0.500 | yes |
| Manganese | µg/L | -0.0770282 | -0.990 | 0.990 | yes |
| Molybdenum | µg/L | 0 | -0.020 | 0.020 | yes |
| Nickel | µg/L | -0.010572 | -0.200 | 0.200 | yes |
| Selenium | µg/L | 0 | -0.200 | 0.200 | yes |
| Silver | µg/L | 0.00386933 | -0.009 | 0.009 | yes |
| Strontium | µg/L | -0.0117704 | -0.099 | 0.099 | yes |
| Tellurium | µg/L | 0.0426897 | -0.050 | 0.050 | yes |
| Thallium | µg/L | 0.00363098 | -0.010 | 0.010 | yes |
| Thorium | µg/L | 0.029791 | -0.050 | 0.050 | yes |
| Tin | µg/L | 0.0339383 | -0.099 | 0.099 | yes |
| | | | | | |

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Quality Control



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1236284 |
|-------------|---------------------------|-------------------|-----------------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Whitehorse Area(Marsh | Date Received: | Oct 30, 2017 |
| | Y1A 2C6 | | and Labarge) | Date Reported: | Nov 3, 2017 |
| Attn: | Accounts Payable | LSD: | 000007000 | Report Number: | 2237858 |
| Sampled By: | Norbert Botca | P.U.: | C00037999 | | |
| Company: | YG-Environment | Proj. Acct. code: | | | |

Trace Metals Dissolved - Continued

| Blanks | Units | Measured | Lower Limit | Upper Limit | Passed QC |
|-------------------|------------------|------------|-------------|-------------|-----------|
| Titanium | µg/L | 0 | -0.099 | 0.099 | yes |
| Uranium | µg/L | 0.0090832 | -0.010 | 0.010 | yes |
| Vanadium | μg/L | 0 | -0.050 | 0.050 | yes |
| Zinc | μg/L | 0 | -0.500 | 0.500 | yes |
| Zirconium | μg/L | 0 | -0.099 | 0.099 | yes |
| Date Acquired: | October 31, 2017 | | | | |
| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | Passed QC |
| Aluminum | µg/L | 112.03 | 80 | 120 | yes |
| Antimony | µg/L | 109.10 | 90 | 110 | yes |
| Arsenic | µg/L | 101.59 | 90 | 110 | yes |
| Barium | µg/L | 97.54 | 90 | 110 | yes |
| Beryllium | µg/L | 98.07 | 90 | 110 | yes |
| Boron | µg/L | 99.58 | 70 | 130 | yes |
| Cadmium | µg/L | 101.96 | 90 | 110 | yes |
| Chromium | µg/L | 104.50 | 90 | 110 | yes |
| Cobalt | µg/L | 100.79 | 90 | 110 | yes |
| Copper | µg/L | 104.31 | 90 | 110 | yes |
| Lead | µg/L | 99.86 | 90 | 110 | yes |
| Lithium | µg/L | 98.50 | 90 | 110 | yes |
| Molybdenum | µg/L | 90.10 | 90 | 110 | yes |
| Nickel | µg/L | 107.25 | 90 | 110 | yes |
| Selenium | µg/L | 104.96 | 90 | 110 | yes |
| Silver | µg/L | 100.93 | 90 | 110 | yes |
| Strontium | µg/L | 104.97 | 90 | 110 | yes |
| Thorium | µg/L | 95.47 | 90 | 110 | yes |
| Tin | μg/L | 107.72 | 90 | 110 | yes |
| Titanium | µg/L | 99.20 | 90 | 110 | yes |
| Uranium | μg/L | 98.90 | 90 | 110 | yes |
| Vanadium | μg/L | 100.72 | 90 | 110 | yes |
| Zinc | μg/L | 101.74 | 90 | 110 | yes |
| Date Acquired: | October 31, 2017 | | | | |
| Aluminum | μg/L | 94.30 | 80 | 120 | yes |
| Antimony | µg/L | 92.40 | 90 | 110 | yes |
| Arsenic | μg/L | 96.86 | 90 | 110 | yes |
| Barium | μg/L | 96.59 | 90 | 110 | yes |
| Beryllium | μg/L | 98.17 | 90 | 110 | yes |
| Boron | μg/L | 105.18 | 80 | 120 | yes |
| Cadmium | μg/L | 101.05 | 90 | 110 | yes |
| Chromium | μg/L | 98.41 | 90 | 110 | yes |
| Cobalt | μg/L | 95.21 | 90 | 110 | yes |
| Copper | μg/L | 93.86 | 90 | 110 | yes |
| Lead | μg/L | 93.01 | 90 | 110 | yes |
| Lithium | μg/L | 92.05 | 90 | 110 | yes |
| Molybdenum | μg/L | 93.23 | 90 | 110 | yes |
| | | | | | |

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Quality Control



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1236284 |
|-------------|---------------------------|-------------------|-----------------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Whitehorse Area(Marsh | Date Received: | Oct 30, 2017 |
| | Y1A 2C6 | | and Labarge) | Date Reported: | Nov 3, 2017 |
| Attn: | Accounts Payable | LSD: | 000007000 | Report Number: | 2237858 |
| Sampled By: | Norbert Botca | P.O.: | C00037999 | | |
| Company: | YG-Environment | Proj. Acct. code: | | | |

Trace Metals Dissolved - Continued

| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | | Passed QC |
|---------------------|------------------|-------------|-------------|----------------|-------------------|-----------|
| Nickel | μg/L | 100.66 | 90 | 110 | | yes |
| Selenium | μg/L | 98.68 | 90 | 110 | | yes |
| Silver | μg/L | 92.42 | 90 | 110 | | yes |
| Strontium | μg/L | 97.55 | 90 | 110 | | yes |
| Thallium | μg/L | 95.02 | 90 | 110 | | yes |
| Thorium | μg/L | 96.26 | 86 | 122 | | yes |
| Tin | μg/L | 101.86 | 90 | 110 | | yes |
| Titanium | μg/L | 92.85 | 90 | 110 | | yes |
| Uranium | μg/L | 95.65 | 90 | 110 | | yes |
| Vanadium | μg/L | 95.64 | 90 | 110 | | yes |
| Zinc | μg/L | 99.65 | 90 | 110 | | yes |
| Date Acquired: | October 31, 2017 | | | | | |
| Client Sample Repli | icates Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Aluminum | μg/L | <10 | <10 | 20 | 20.000 | yes |
| Antimony | μg/L | 1.5 | 1.6 | 20 | 1.000 | yes |
| Arsenic | μg/L | 2 | 2 | 20 | 1.000 | yes |
| Barium | μg/L | 408 | 409 | 20 | 5.000 | yes |
| Beryllium | μg/L | <0.5 | <0.5 | 20 | 1.000 | yes |
| Boron | μg/L | 110 | 130 | 20 | 5.000 | yes |
| Cadmium | μg/L | 0.2 | 0.2 | 20 | 0.500 | yes |
| Chromium | μg/L | <0.5 | <0.5 | 20 | 5.000 | yes |
| Cobalt | μg/L | 67.1 | 66.8 | 20 | 0.500 | yes |
| Copper | μg/L | <5 | <5 | 20 | 5.000 | yes |
| Iron | μg/L | 3510 | 3670 | 20 | 50.000 | yes |
| Lead | μg/L | 0.6 | 0.6 | 20 | 0.500 | yes |
| Lithium | μg/L | 7 | 8 | 20 | 5.000 | yes |
| Manganese | μg/L | 4620 | 4760 | 20 | 0.500 | yes |
| Molybdenum | μg/L | 0.4 | 0.7 | 20 | 0.500 | yes |
| Nickel | µg/L | 116 | 121 | 20 | 5.000 | yes |
| Selenium | µg/L | <2 | <2 | 20 | 0.500 | yes |
| Silver | µg/L | <0.1 | <0.1 | 20 | 0.500 | yes |
| Strontium | µg/L | 1220 | 1229 | 20 | 0.500 | yes |
| Tellurium | µg/L | <0.5 | <0.5 | 20 | 0.500 | yes |
| Thallium | µg/L | <0.1 | <0.1 | 20 | 0.100 | yes |
| Thorium | µg/L | <0.5 | <0.5 | 20 | 0.100 | yes |
| Tin | µg/L | 4 | 3 | 20 | 0.500 | yes |
| Titanium | µg/L | <1 | <1 | 20 | 0.500 | yes |
| Uranium | µg/L | 0.9 | 0.9 | 20 | 0.100 | yes |
| Vanadium | μg/L | <0.5 | <0.5 | 20 | 0.500 | yes |
| Zinc | μg/L | 53 | 55 | 20 | 5.000 | yes |
| Zirconium | μg/L | <1 | <1 | 20 | 0.500 | yes |
| Date Acquired: | October 31, 2017 | | | | | |
| Titanium | mg/L | <0.002 | <0.002 | 30 | 0.012 | yes |
| Date Acquired: | October 31, 2017 | | | | | |

Quality Control



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1236284 |
|-------------|---------------------------|-------------------|-----------------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Whitehorse Area(Marsh | Date Received: | Oct 30, 2017 |
| | Y1A 2C6 | 1.00 | and Labarge) | Date Reported: | Nov 3, 2017 |
| Attn: | Accounts Payable | LSD: | 000007000 | Report Number: | 2237858 |
| Sampled By: | Norbert Botca | P.U.: | C00037999 | | |
| Company: | YG-Environment | Piuj. Acct. code: | | | |

Trace Metals Dissolved - Continued

Client Sample Replicates Units

Replicate 1

Replicate 2

% RSD Criteria

Absolute Criteria Passed QC

Methodology and Notes



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1236284 |
|-------------|---------------------------|-------------------|-----------------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Whitehorse Area(Marsh | Date Received: | Oct 30, 2017 |
| | Y1A 2C6 | 1.05 | and Labarge) | Date Reported: | Nov 3, 2017 |
| Attn: | Accounts Payable | LSD: | 000007000 | Report Number: | 2237858 |
| Sampled By: | Norbert Botca | P.U.: | C00037999 | | |
| Company: | YG-Environment | Proj. Acct. code: | | | |

Method of Analysis

| Method Name | Reference | | Method | Date Analysis Started | Location |
|---|-----------|---|---|--------------------------|----------------|
| Alk, pH, EC, Turb in water (Surrey) | APHA | * | Alkalinity - Titration Method, 2320 B | Oct 31, 2017 | Exova Surrey |
| Alk, pH, EC, Turb in water (Surrey) | APHA | * | Conductivity, 2510 B | Oct 31, 2017 | Exova Surrey |
| Alk, pH, EC, Turb in water (Surrey) | APHA | * | pH - Electrometric Method, 4500-H+ B | Oct 31, 2017 | Exova Surrey |
| Ammonia-N in Water (Surrey) | APHA | * | Flow Injection Analysis, 4500-NH3 H | Nov 3, 2017 | Exova Surrey |
| Anions by IEC in water (Surrey) | APHA | * | lon Chromatography with Chemical Suppression of Eluent Cond., 4110 B | Oct 31, 2017 | Exova Surrey |
| Carbon Inorganic (Dissolved) in water(DIC) | APHA | | High-Temperature Combustion Method, 5310 B | Nov 3, 2017 | Exova Edmonton |
| Carbon Inorganic (Total) in water (TIC) | APHA | | High-Temperature Combustion Method, 5310 B | Nov 3, 2017 | Exova Edmonton |
| Carbon Organic (Dissolved) in water (DOC) | APHA | | High-Temperature Combustion Method, 5310 B | Nov 2, 2017 | Exova Edmonton |
| Carbon Organic (Total) in water (TOC) | APHA | | High-Temperature Combustion Method, 5310 B | Nov 2, 2017 | Exova Edmonton |
| Mercury Low Level (Dissolved) in water (Surrey) | EPA | * | Mercury in Water by Cold Vapor Atomic Fluorescence Spectrometry, 245.7 | Oct 31, 2017 | Exova Surrey |
| Metals SemiTrace (Dissolved) in water (Surrey) | US EPA | * | Metals & Trace Elements by ICP-AES, 6010C | Oct 31, 2017 | Exova Surrey |
| Phosphorus - total by Smartchem (Surrey) | APHA | * | Persulfate digestion method, 4500-P B5 | Nov 1, 2017 | Exova Surrey |
| Solids Dissolved (Total, Fixed and Volatile) - Surrey | APHA | * | Total Dissolved Solids Dried at 180 C, 2540 C | Oct 31, 2017 | Exova Surrey |
| Total and Kjeldahl Nitrogen (Total) in Water | ISO | * | Water Quality - Determination of nitrogen, ISO/TR 11905-2 | Nov 3, 2017 | Exova Edmonton |
| Trace Metals (dissolved) in Water (Surrey) | US EPA | * | Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8 | Oct 31, 2017 | Exova Surrey |
| | | | * Reference Method Modified | | |

References

APHAStandard Methods for the Examination of Water and WastewaterEPAEnvironmental Protection Agency Test Methods - USISOInternational Organization for StandardizationUS EPAUS Environmental Protection Agency Test Methods

Methodology and Notes



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1236284 |
|-------------|---------------------------|------------------------|-----------------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Whitehorse Area(Marsh | Date Received: | Oct 30, 2017 |
| | Y1A 2C6 | | and Labarge) | Date Reported: | Nov 3, 2017 |
| Attn: | Accounts Payable | LSD: | 000027000 | Report Number: | 2237858 |
| Sampled By: | Norbert Botca | F.U Proj Acot codo: | 00037999 | | |
| Company: | YG-Environment | FTUJ. ACCL COUE. | | | |

Please direct any inquiries regarding this report to our Client Services Group or to the Operations Manager at the coordinates indicated at the top left of this page. Results relate only to samples as submitted.

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Report Transmission Cover Page



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1237716 |
|-------------|---------------------------|-------------------|-----------------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Grizzly Valley & Deep | Date Received: | Nov 6, 2017 |
| | Y1A 2C6 | | Creek | Date Reported: | Nov 10, 2017 |
| Attn: | Accounts Payable | LSD: | | Report Number: | 2240510 |
| Sampled By: | Norbert Botca | P.O.: | C00037999 | | |
| Company: | YG-Environment | Proj. Acct. code: | | | |

| Contact | Company | Address | | |
|-----------------------------|---------------------------|---------------------------------|------|----------------|
| Holly Goulding | YTG DOE - Water Resources | 202, 419 Range Road | | |
| | | Whitehorse, YT Y1A 3V1 | | |
| | | Phone: (867) 456-6583 | Fax: | (867) 667-3194 |
| | | Email: holly.goulding@gov.yk.ca | | |
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| Email - Merge Reports | PDF | COC / Test Report | | |
| Email - Single Report | EQWin | Test Report | | |
| Email - Single Report | PDF | Invoice | | |
| John Minder | YTG DOE - Water Resources | 202, 419 Range Road | | |
| | | Whitehorse, YT Y1A 3V1 | | |
| | | Phone: (867) 667-3102 | Fax: | (867) 667-3194 |
| | | Email: john.minder@gov.yk.ca | | |
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| Email - Multiple Reports By | Lot PDF | COC / Test Report | | |
| Email - Single Report | PDF | COA | | |
| Email - Single Report | PDF | COR | | |
| Email - Single Report | PDF | Invoice | | |
| Norbert Botca | YTG DOE - Water Resources | 203, 1191 Front Street | | |
| | | Whitehorse, YT Y1A 0K5 | | |
| | | Phone: (867) 667-3512 | Fax: | (867) 667-3194 |
| | | Email: norbert.botca@gov.yk.ca | | |
| Delivery | <u>Format</u> | Deliverables | | |
| Email - Multiple Reports By | Lot EQWin | Test Report | | |
| Email - Multiple Reports By | Lot PDF | COC / Test Report | | |
| Email - Single Report | PDF | COA | | |
| Email - Single Report | PDF | COR | | |
| Email - Single Report | PDF | Invoice | | |

Notes To Clients:

• Nov 08, 2017 - Sample 1237716-1; 5909319: Reduction of analytical volume was necessary for anions due to matrix effects in sample 1237716-1 and 1237716-2. Detection limits are adjusted accordingly.

Nov 09, 2017 - Reduction of analytical volume was necessary for metals analysis to bring results within the analytical range for sample. Detection limits are adjusted accordingly.

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Analytical Report



| Bill To: Attn: Sampled By: Company: | YTG DOE - Water Resources PO Box 2703 Whitehorse, YT, Canada Y1A 2C6 Accounts Payable Norbert Botca YG-Environment | Projec Projec Projec LSD: P.O.: Proj. | ct ID: ct Name: ct Location: Acct. code: | YOWN YOWN Grizzly Valley & Deep Creek C00037999 | Lot ID: Control Number: Date Received: Date Reported: Report Number: | 1237716 Nov 6, 2017 Nov 10, 2017 2240510 | |
|--|--|--|---|--|--|--|-------------------|
| | | Refer Sar Samp | rence Number Sample Date Sample Time nple Location le Description | 1237716-1 Nov 02, 2017 12:50 YOWN-1504 / 2017272 (2017) | 1237716-2 Nov 02, 2017 11:30 YOWN-1505 / | | |
| | | | Matrix | 201727272 C/B | 201727372 C7B | | |
| Analyta | | | | | Beculto | Deculto | Nominal Detection |
| Analyte | estallia Daramatara | | Units | Results | Results | Results | Limit |
| Nitrogon | | | ma/l | 0.52 | 0.22 | | 0.06 |
| Organic Carbor | | | mg/L | 0.55 | 0.33 | | 0.00 |
| Organic Carbor | | abla | mg/L | 5.0 | -0.5 | | 0.5 |
| Inorganic carbo | n Total | | mg/L | 102 | 52.8 | | 0.5 |
| Inorganic carbo | | | mg/L | 95.6 | 51.8 | | 0.5 |
| Ammonia - N | II Dissolved | | mg/L | 0.11 | 0.01 | | 0.0 |
| Animonia - N | Total | | mg/L | 0.11 | 0.01 | | 0.01 |
| Motals Dissolv | | | ing/L | 0.012 | 0.004 | | 0.003 |
| Titonium | Dissolved | | ma/l | 0.029 | 0.000 | | 0.002 |
| Moroury | Dissolved | | mg/L | <0.020 | <0.009 | | 0.002 |
| Physical and A | Dissolved | | ing/L | <0.00001 | <0.00001 | | 0.00001 |
| Solide | Total Dissolved | | ma/l | 1600 | 470 | | Б |
| Bouting Water | Total Dissolved | | mg/∟ | 1000 | 470 | | 5 |
| Digestion | Dissolved | | | Field filtered and Pres Dissol | Field filtered and Pres Dissol | | |
| pH - Holding Tir | me | | | Exceeded | Exceeded | | |
| pH Electrical Condu | at 25 °C | | uS/cm at 25 | 7.82 1866 | 8.18 742 | | 1 |
| | | | °C | 1000 | | | · |
| Calcium | Dissolved | | mg/L | 190 | 44 | | 0.01 |
| Magnesium | Dissolved | | mg/L | 170 | 37 | | 0.02 |
| Potassium | Dissolved | | mg/L | 0.82 | 0.95 | | 0.04 |
| Silicon | Dissolved | | mg/L | 6.1 | 4.1 | | 0.005 |
| Sodium | Dissolved | | mg/L | 32 | 64 | | 0.1 |
| Sulfur | Dissolved | | mg/L | 280 | 59 | | 0.02 |
| Bicarbonate | | | mg/L | 478 | 257 | | 5 |
| Carbonate | | | mg/L | <6 | <6 | | 6 |
| Hydroxide | | | mg/L | <5 | <5 | | 5 |
| P-Alkalinity | as CaCO3 | | mg/L | <5 | <5 | | 5 |
| T-Alkalinity | as CaCO3 | | mg/L | 392 | 211 | | 5 |
| Chloride | Dissolved | | mg/L | 6.6 | 12.4 | | 0.05 |
| Fluoride | Dissolved | | mg/L | 0.1 | 0.2 | | 0.01 |
| Nitrate - N | Dissolved | | mg/L | <0.1 | <0.1 | | 0.01 |
| Nitrite - N | Dissolved | | mg/L | <0.1 | <0.1 | | 0.01 |
| Sulfate (SO4) | Dissolved | | mg/L | 853 | 189 | | 0.1 |
| Hardness | as CaCO3 (dissolve | ed) | mg/L | 1180 | 260 | | 5 |

Field filtered and

Field filtered and

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Dissolved

Trace Metals Dissolved

Digestion

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Analytical Report



4007740

| PO Box 2703 Whitehorse, YT, Canada Y1A 2C6 Attn: Accounts Payable Sampled By: Norbert Botca Company: YG-Environment | | Project ID. YOWN Project Name: YOWN Project Location: Grizzly Valley & Deep Creek LSD: P.O.: C00037999 Proj. Acct. code: | | Lot ID: Control Number: Date Received: Date Reported: Report Number: | Nov 6, 2017 Nov 10, 2017 2240510 | |
|--|----------------------|--|---|--|--|-------------------|
| | | Reference Number Sample Date Sample Time Sample Location Sample Description | r 1237716-1 Nov 02, 2017 12:50 YOWN-1504 / | 1237716-2 Nov 02, 2017 11:30 YOWN-1505 / | | |
| | | | 2017272 / 2 °C / B | 2017273 / 2 °C / B | | |
| | | Matrix | Water | Water | | Naminal Datastian |
| Analyte | | Units | Results | Results | Results | Limit |
| Trace Metals D | issolved - Continued | | | | | |
| | 2 | | Pres Dissol | Pres Dissol | | |
| litanium | Dissolved | mg/L | 0.028 | 0.009 | | 0.002 |
| Aluminum | Dissolved | mg/L | 0.002 | < 0.001 | | 0.001 |
| Antimony | Dissolved | mg/L | 0.00027 | 0.00287 | | 0.00002 |
| Arsenic | Dissolved | mg/L | 0.0011 | 0.0022 | | 0.0001 |
| Bondlium | Dissolved | mg/L | <0.0005 | <0.0120 | | 0.0001 |
| Bismuth | Dissolved | mg/L | <0.00003 | <0.00003 | | 0.00003 |
| Boron | Dissolved | mg/L | 0.027 | 0.024 | | 0.0001 |
| Cadmium | Dissolved | mg/L | <0.027 | <0.024 | | 0.002 |
| Chromium | Dissolved | mg/L | <0.00001 | <0.00001 | | 0.00005 |
| Cobalt | Dissolved | mg/l | 0.00041 | 0.00025 | | 0.00002 |
| Copper | Dissolved | ma/L | <0.0005 | <0.0005 | | 0.0005 |
| Iron | Dissolved | mg/L | 0.913 | 0.315 | | 0.002 |
| Lead | Dissolved | mg/L | 0.00004 | <0.00001 | | 0.00001 |
| Lithium | Dissolved | mg/L | 0.0096 | 0.0181 | | 0.0005 |
| Manganese | Dissolved | mg/L | 0.293 | 0.101 | | 0.001 |
| Molybdenum | Dissolved | mg/L | 0.00366 | 0.00120 | | 0.00002 |
| Nickel | Dissolved | mg/L | 0.0008 | 0.0008 | | 0.0002 |
| Selenium | Dissolved | mg/L | <0.0002 | <0.0002 | | 0.0002 |
| Silver | Dissolved | mg/L | <0.00001 | <0.00001 | | 0.00001 |
| Strontium | Dissolved | mg/L | 2.632 | 2.968 | | 0.0001 |
| Tellurium | Dissolved | mg/L | <0.00005 | <0.00005 | | 0.00005 |
| Thallium | Dissolved | mg/L | <0.00001 | <0.00001 | | 0.00001 |
| Thorium | Dissolved | mg/L | 0.00089 | 0.00014 | | 0.00005 |
| Tin | Dissolved | mg/L | 0.0005 | <0.0001 | | 0.0001 |
| Uranium | Dissolved | mg/L | 0.00412 | 0.00050 | | 0.00001 |
| Vanadium | Dissolved | mg/L | <0.00005 | <0.00005 | | 0.00005 |

RhSeunson

0.0005

0.0001

Approved by: Randy Neumann, BSc

Vice President

0.0043

0.0001

0.0129

0.0005

Data have been validated by Analytical Quality Control and Exova's Integrated Data Validation System (IDVS). Generation and distribution of the report, and approval by the digitized signature above, are performed through a secure and controlled automatic process.

mg/L

mg/L

Dissolved

Dissolved

Zinc

Zirconium

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Quality Control



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1237716 |
|-------------|---------------------------|-------------------|-----------------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Grizzly Valley & Deep | Date Received: | Nov 6, 2017 |
| | Y1A 2C6 | | Creek | Date Reported: | Nov 10, 2017 |
| Attn: | Accounts Payable | LSD: | 000007000 | Report Number: | 2240510 |
| Sampled By: | Norbert Botca | P.O.: | C00037999 | | |
| Company: | YG-Environment | Proj. Acct. code: | | | |

Inorganic Nonmetallic Parameters

| Blanks | Units | Measured | Lower Limit | Upper Limit | | Passed QC |
|--------------------|-------------------|-------------|-------------|----------------|-------------------|-----------|
| Ammonium - N | µg/L | -11.74 | -110.00 | 10.00 | | yes |
| Phosphorus | mg/L | 0 | -0.003 | 0.003 | | yes |
| Date Acquired: | November 08, 2017 | | | | | |
| Nitrogen | mg/L | 0 | -0.04 | 0.08 | | yes |
| Organic Carbon | mg/L | 0.05823 | -0.5 | 0.5 | | yes |
| Inorganic carbon | mg/L | 0.172 | -0.5 | 0.5 | | yes |
| Date Acquired: | November 09, 2017 | | | | | |
| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | | Passed QC |
| Ammonium - N | μg/L | 104.65 | 85 | 115 | | yes |
| Phosphorus | mg/L | 98.36 | 90 | 110 | | yes |
| Date Acquired: | November 08, 2017 | | | | | |
| Ammonium - N | µg/L | 101.40 | 70 | 130 | | yes |
| Phosphorus | mg/L | 101.00 | 80 | 120 | | yes |
| Date Acquired: | November 08, 2017 | | | | | |
| Client Sample Repl | icates Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Nitrogen | mg/L | 0.53 | 0.57 | 10 | 0.06 | yes |
| Organic Carbon | mg/L | 5.6 | 6.1 | 10 | 1.0 | yes |
| Inorganic carbon | mg/L | 2.0 | 2.2 | 10 | 1.0 | yes |
| Date Acquired: | November 09, 2017 | | | | | |
| Ammonia - N | mg/L | <0.01 | <0.01 | 20 | 50.00 | yes |
| Date Acquired: | November 08, 2017 | | | | | |
| Control Sample | Units | Measured | Lower Limit | Upper Limit | | Passed QC |
| Organic Carbon | mg/L | <0.5 | -0.5 | 0.5 | | yes |
| Date Acquired: | November 08, 2017 | | | | | |
| Nitrogen | mg/L | 115 | 103.74 | 137.28 | | yes |
| Organic Carbon | mg/L | 128 | 109.1 | 139.7 | | yes |
| Inorganic carbon | mg/L | 48.0 | 39.0 | 57.0 | | yes |
| Date Acquired: | November 09, 2017 | | | | | |
| Nitrogen | mg/L | 14.0 | 13.27 | 16.93 | | yes |
| Organic Carbon | mg/L | 15.2 | 12.8 | 17.2 | | yes |
| Inorganic carbon | mg/L | 17.0 | 13.5 | 18.3 | | yes |
| Date Acquired: | November 09, 2017 | | | | | |
| Nitrogen | mg/L | 1.19 | 0.89 | 1.25 | | yes |
| Organic Carbon | mg/L | 3.7 | 2.4 | 4.0 | | yes |
| Inorganic carbon | mg/L | 3.6 | 2.7 | 3.9 | | yes |
| Date Acquired: | November 09, 2017 | | | | | |
| Phosphorus | mg/L | 0.449 | 0.389 | 0.503 | | yes |
| Date Acquired: | November 08, 2017 | | | | | |
| Metals Dissolved | I | | | | | |
| Blanks | Units | Measured | Lower Limit | Upper Limit | | Passed QC |
| Mercury | ng/L | 1.1 | -9.99 | 9.99 | | yes |

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Quality Control



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1237716 |
|-------------|---------------------------|-------------------|-----------------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Grizzly Valley & Deep | Date Received: | Nov 6, 2017 |
| | Y1A 2C6 | | Creek | Date Reported: | Nov 10, 2017 |
| Attn: | Accounts Payable | LSD: | 0 | Report Number: | 2240510 |
| Sampled By: | Norbert Botca | P.O.: | C00037999 | | |
| Company: | YG-Environment | Proj. Acct. code: | | | |

Metals Dissolved - Continued

| Blanks | Units | Measured | Lower Limit | Upper Limit | | Passed QC |
|--------------------|--------------------|-------------|-------------|----------------|-------------------|-----------|
| Date Acquired: | November 06, 2017 | | | | | |
| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | | Passed QC |
| Mercury | ng/L | 97.80 | 90 | 110 | | yes |
| Date Acquired: | November 06, 2017 | | | | | |
| Titanium | mg/L | 100.22 | 90 | 110 | | yes |
| Date Acquired: | November 08, 2017 | | | | | |
| Titanium | mg/L | 102.48 | 90 | 110 | | yes |
| Date Acquired: | November 08, 2017 | | | | | |
| Certified Referenc | e Material Units | Measured | Target | Lower Limit | Upper Limit | Passed QC |
| Mercury | μg/L | 0.03 | 0.04 | 0.02 | 0.05 | yes |
| Date Acquired: | November 06, 2017 | | | | | |
| Client Sample Rep | licates Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Mercury | μg/L | <0.01 | <0.01 | 20 | 0.05 | yes |
| Date Acquired: | November 06, 2017 | | | | | |
| Physical and Aq | gregate Properties | | | | | |
| Control Sample | Units | Measured | Lower Limit | Upper Limit | | Passed QC |
| Solids | mg/L | 520 | 412.000 | 610.600 | | yes |
| Date Acquired: | November 07, 2017 | | | | | |
| Solids | mg/L | <5 | -5.001 | 5.001 | | yes |
| Date Acquired: | November 07, 2017 | | | | | - |
| Routine Water | | | | | | |
| Blanks | Units | Measured | Lower Limit | Upper Limit | | Passed QC |
| Calcium | mg/L | 0 | -0.010 | 0.010 | | yes |
| Magnesium | mg/L | 0 | -0.020 | 0.020 | | yes |
| Potassium | mg/L | -0.0279255 | -0.040 | 0.040 | | yes |
| Silicon | mg/L | -0.00108072 | -0.005 | 0.005 | | yes |
| Sodium | mg/L | -0.0741568 | -0.099 | 0.099 | | yes |

| Date Acquired: | November 08, 2017 | | | | |
|---|---|--|---|---|--|
| Chloride | mg/L | 0.0122752 | -0.201 | 0.201 | yes |
| Fluoride | mg/L | 0 | -0.099 | 0.099 | yes |
| Nitrate - N | mg/L | 0 | -0.010 | 0.010 | yes |
| Nitrite - N | mg/L | 0 | -0.099 | 0.099 | yes |
| Sulfate (SO4) | mg/L | 0 | -0.990 | 0.990 | yes |
| Date Acquired: | November 07, 2017 | | | | |
| | | | | | |
| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | Passed QC |
| Calibration Check Calcium | Units mg/L | % Recovery 102.89 | Lower Limit 90 | Upper Limit 110 | Passed QC yes |
| Calibration Check Calcium Magnesium | Units mg/L mg/L | % Recovery 102.89 102.39 | Lower Limit 90 90 | Upper Limit 110 110 | Passed QC yes yes |
| Calibration Check Calcium Magnesium Potassium | Units mg/L mg/L mg/L | % Recovery 102.89 102.39 101.75 | Lower Limit 90 90 90 | Upper Limit 110 110 110 | Passed QC yes yes yes |
| Calibration Check Calcium Magnesium Potassium Silicon | Units mg/L mg/L mg/L mg/L | % Recovery 102.89 102.39 101.75 96.78 | Lower Limit 90 90 90 90 | Upper Limit 110 110 110 110 110 | Passed QC yes yes yes yes |
| Calibration Check Calcium Magnesium Potassium Silicon Sodium | Units mg/L mg/L mg/L mg/L mg/L | % Recovery 102.89 102.39 101.75 96.78 101.89 | Lower Limit 90 90 90 90 90 | Upper Limit 110 110 110 110 110 110 | Passed QC yes yes yes yes yes |

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Quality Control



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1237716 |
|-------------|---------------------------|-------------------|-----------------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Grizzly Valley & Deep | Date Received: | Nov 6, 2017 |
| | Y1A 2C6 | | Creek | Date Reported: | Nov 10, 2017 |
| Attn: | Accounts Payable | LSD: | 0 | Report Number: | 2240510 |
| Sampled By: | Norbert Botca | P.O.: | C00037999 | | |
| Company: | YG-Environment | Proj. Acct. code: | | | |

Routine Water - Continued

| Calibration Check | | Units | % Recovery | Lower Limit | Upper Limit | | Passed QC |
|---------------------|------------|----------------|-------------|-------------|----------------|-------------------|-----------|
| Date Acquired: | Novembe | r 08, 2017 | | | | | |
| Chloride | | mg/L | 101.34 | 85 | 115 | | yes |
| Fluoride | | mg/L | 106.55 | 85 | 115 | | yes |
| Nitrate - N | | mg/L | 100.48 | 85 | 115 | | yes |
| Nitrite - N | | mg/L | 96.45 | 90 | 110 | | yes |
| Sulfate (SO4) | | mg/L | 102.99 | 85 | 115 | | yes |
| Date Acquired: | Novembe | r 07, 2017 | | | | | |
| Chloride | | mg/L | 102.08 | 90 | 110 | | yes |
| Fluoride | | mg/L | 97.03 | 89 | 109 | | yes |
| Nitrate - N | | mg/L | 101.31 | 88 | 108 | | yes |
| Nitrite - N | | mg/L | 101.99 | 90 | 118 | | yes |
| Sulfate (SO4) | | mg/L | 104.53 | 90 | 110 | | yes |
| Date Acquired: | Novembe | r 07, 2017 | | | | | |
| Calcium | | mg/L | 103.07 | 90 | 110 | | yes |
| Magnesium | | mg/L | 105.02 | 90 | 110 | | yes |
| Potassium | | mg/L | 104.53 | 90 | 110 | | yes |
| Sodium | | mg/L | 101.42 | 90 | 110 | | yes |
| Date Acquired: | Novembe | r 08, 2017 | | | | | |
| Certified Reference | e Material | Units | Measured | Target | Lower Limit | Upper Limit | Passed QC |
| T-Alkalinity | | mg/L | 9 | 10 | 8 | 12 | yes |
| Date Acquired: | Novembe | r 07, 2017 | | | | | |
| Client Sample Rep | licates | Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Calcium | | mg/L | 11 | 11 | 30 | 1.000 | yes |
| Magnesium | | mg/L | 7.3 | 7.5 | 30 | 1.000 | yes |
| Date Acquired: | Novembe | r 08, 2017 | | | | | |
| рH | | | 7.32 | 7.34 | 10 | | ves |
| Electrical Conduc | tivity | dS/m at 25 °C | 0.654 | 0.657 | 10 | 0.005 | yes |
| Chloride | | mg/L | 3.45 | 3.46 | 20 | 0.250 | yes |
| Fluoride | | mg/L | 0.05 | 0.05 | 20 | 0.050 | yes |
| Nitrate - N | | mg/L | <0.01 | <0.01 | 20 | 0.050 | yes |
| Nitrite - N | | mg/L | <0.01 | <0.01 | 20 | 0.050 | yes |
| Sulfate (SO4) | | mg/L | 3.9 | 3.9 | 20 | 0.500 | yes |
| Date Acquired: | Novembe | r 07, 2017 | | | | | |
| Replicates | | Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Chloride | | mg/L | 1.39 | 1.35 | 6 | 0.010 | yes |
| Nitrate - N | | mg/L | 0.30 | 0.30 | 12 | 0.050 | yes |
| Sulfate (SO4) | | mg/L | 4.7 | 4.7 | 6 | 0.010 | yes |
| Date Acquired: | Novembe | r 07, 2017 | | | | | |
| Control Sample | | Units | Measured | Lower Limit | Upper Limit | | Passed QC |
| рН | | | 9.85 | 9.17 | 10.81 | | yes |
| Electrical Conduct | tivity | µS/cm at 25 °C | 237 | 194 | 250 | | yes |
| | | | | | | | |

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Quality Control



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1237716 |
|-------------|---------------------------|-------------------|-----------------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Grizzly Valley & Deep | Date Received: | Nov 6, 2017 |
| | Y1A 2C6 | 1.00 | Creek | Date Reported: | Nov 10, 2017 |
| Attn: | Accounts Payable | LSD: | 000037000 | Report Number: | 2240510 |
| Sampled By: | Norbert Botca | P.U.: | 00037999 | | |
| Company: | YG-Environment | Proj. Acct. code: | | | |

Routine Water - Continued

| Control Sample | Units | Measured | Lower Limit | Upper Limit | Passed QC |
|-------------------|-----------------------|----------|-------------|-------------|-----------|
| T-Alkalinity | mg/L | 102 | 98 | 113 | yes |
| Date Acquired: | November 07, 2017 | | | | |
| рН | | 4.03 | 3.88 | 4.12 | yes |
| Date Acquired: | November 07, 2017 | | | | |
| рН | | 8.01 | 7.88 | 8.12 | yes |
| Date Acquired: | November 07, 2017 | | | | |
| Electrical Conduc | tivity µS/cm at 25 °C | 1384 | 1323 | 1503 | yes |
| Date Acquired: | November 07, 2017 | | | | |

Trace Metals Dissolved

| Blanks | Units | Measured | Lower Limit | Upper Limit | Passed QC |
|-------------------|-------------------|--------------|-------------|-------------|-----------|
| Aluminum | µg/L | -0.964507 | -0.990 | 0.990 | yes |
| Antimony | µg/L | 0.0102766 | -0.020 | 0.020 | yes |
| Arsenic | µg/L | 0.0303342 | -0.099 | 0.099 | yes |
| Barium | µg/L | 0.00211356 | -0.099 | 0.099 | yes |
| Beryllium | µg/L | 0.0253291 | -0.050 | 0.050 | yes |
| Bismuth | µg/L | 0.0101914 | -0.099 | 0.099 | yes |
| Boron | µg/L | -1.19551 | -2.001 | 2.001 | yes |
| Cadmium | µg/L | -0.000691178 | -0.010 | 0.010 | yes |
| Chromium | µg/L | 0.00592518 | -0.050 | 0.050 | yes |
| Cobalt | µg/L | 0.0162042 | -0.020 | 0.020 | yes |
| Copper | µg/L | 0.030624 | -0.050 | 0.050 | yes |
| Iron | µg/L | -0.919698 | -2.001 | 2.001 | yes |
| Lead | µg/L | 0 | -0.010 | 0.010 | yes |
| Lithium | µg/L | 0.0634889 | -0.500 | 0.500 | yes |
| Manganese | µg/L | -0.000928955 | -0.990 | 0.990 | yes |
| Molybdenum | µg/L | 0.0100243 | -0.020 | 0.020 | yes |
| Nickel | µg/L | -0.0225284 | -0.200 | 0.200 | yes |
| Selenium | µg/L | 0.0220985 | -0.200 | 0.200 | yes |
| Silver | µg/L | 0.00686317 | -0.009 | 0.009 | yes |
| Strontium | µg/L | 0.022572 | -0.099 | 0.099 | yes |
| Tellurium | µg/L | -0.00748572 | -0.050 | 0.050 | yes |
| Thallium | µg/L | -0.000462928 | -0.010 | 0.010 | yes |
| Thorium | µg/L | -0.0032633 | -0.050 | 0.050 | yes |
| Tin | µg/L | -0.0168312 | -0.099 | 0.099 | yes |
| Titanium | µg/L | 0.0600738 | -0.099 | 0.099 | yes |
| Uranium | µg/L | 7.82491e-007 | -0.010 | 0.010 | yes |
| Vanadium | µg/L | -0.0200434 | -0.050 | 0.050 | yes |
| Zinc | µg/L | -0.152292 | -0.500 | 0.500 | yes |
| Zirconium | µg/L | 0.0336527 | -0.099 | 0.099 | yes |
| Date Acquired: | November 08, 2017 | | | | |
| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | Passed QC |
| Aluminum | µg/L | 102.38 | 80 | 120 | yes |
| | | | | | |

Quality Control



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1237716 |
|-------------|---------------------------|-------------------|-----------------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Grizzly Valley & Deep | Date Received: | Nov 6, 2017 |
| | Y1A 2C6 | | Creek | Date Reported: | Nov 10, 2017 |
| Attn: | Accounts Payable | LSD: | 0 | Report Number: | 2240510 |
| Sampled By: | Norbert Botca | P.O.: | C00037999 | | |
| Company: | YG-Environment | Proj. Acct. code: | | | |

Trace Metals Dissolved - Continued

| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | Passed QC |
|--------------------------|-------------------|------------|-------------|-------------|-------------|
| Antimony | µg/L | 105.21 | 90 | 110 | yes |
| Arsenic | μg/L | 98.50 | 90 | 110 | yes |
| Barium | μg/L | 96.37 | 90 | 110 | yes |
| Beryllium | μg/L | 94.84 | 90 | 110 | yes |
| Boron | μg/L | 103.67 | 70 | 130 | yes |
| Cadmium | μg/L | 97.94 | 90 | 110 | yes |
| Chromium | μg/L | 103.13 | 90 | 110 | yes |
| Cobalt | μg/L | 99.10 | 90 | 110 | yes |
| Copper | μg/L | 98.43 | 90 | 110 | yes |
| Lead | μg/L | 102.44 | 90 | 110 | yes |
| Lithium | μg/L | 107.18 | 90 | 110 | yes |
| Molybdenum | μg/L | 94.18 | 90 | 110 | yes |
| Nickel | μg/L | 101.29 | 90 | 110 | yes |
| Selenium | μg/L | 98.39 | 90 | 110 | yes |
| Silver | μg/L | 90.05 | 90 | 110 | yes |
| Strontium | μg/L | 95.45 | 90 | 110 | yes |
| Thorium | μg/L | 102.85 | 90 | 110 | yes |
| Tin | μg/L | 93.28 | 90 | 110 | yes |
| Titanium | μg/L | 93.90 | 90 | 110 | yes |
| Uranium | μg/L | 100.08 | 90 | 110 | yes |
| Vanadium | μg/L | 99.77 | 90 | 110 | yes |
| Zinc | μg/L | 105.18 | 90 | 110 | yes |
| Date Acquired: | November 08, 2017 | | | | |
| Aluminum | ua/L | 90.11 | 80 | 120 | ves |
| Antimony | ua/L | 106.21 | 90 | 110 | ves |
| Arsenic | ua/L | 93.82 | 90 | 110 | ves |
| Barium | ua/L | 94.04 | 90 | 110 | ves |
| Bervllium | ua/L | 90.43 | 90 | 110 | ves |
| Boron | ua/L | 93.56 | 80 | 120 | ves |
| Cadmium | ua/L | 95.46 | 90 | 110 | ves |
| Chromium | ua/L | 94.09 | 90 | 110 | ves |
| Cobalt | ua/L | 91.89 | 90 | 110 | ves |
| Copper | ua/L | 90.73 | 90 | 110 | ves |
| Lead | ua/L | 96.03 | 90 | 110 | ves |
| Lithium | ua/L | 96.70 | 90 | 110 | ves |
| Molvbdenum | ua/L | 96.00 | 90 | 110 | ves |
| Nickel | ug/L | 92.78 | 90 | 110 | ves |
| Selenium | ua/L | 95.61 | 90 | 110 | ves |
| Silver | ua/L | 108.13 | 90 | 110 | ves |
| Strontium | ua/L | 92.04 | 90 | 110 | ves |
| Thallium | µg/L | 98.34 | 90 | 110 | ves |
| Thorium | µg/L | 97.02 | 86 | 122 | ves |
| Tin | µg/L | 91.73 | 90 | 110 | ves |
| Titanium | ua/L | 90.90 | 90 | 110 | ves |
| | r: = | 00.00 | | | <i>y</i> 00 |

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Quality Control



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1237716 |
|-------------|---------------------------|-------------------|-----------------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Grizzly Valley & Deep | Date Received: | Nov 6, 2017 |
| | Y1A 2C6 | 1.00 | Creek | Date Reported: | Nov 10, 2017 |
| Attn: | Accounts Payable | LSD: | C000037000 | Report Number: | 2240510 |
| Sampled By: | Norbert Botca | P.U.: | C00037999 | | |
| Company: | YG-Environment | Proj. Acct. code: | | | |

Trace Metals Dissolved - Continued

| Calibration Check | Units | % Recovery | Lower Limit | Upper Limit | | Passed QC |
|-------------------|-------------------|-------------|-------------|----------------|-------------------|-----------|
| Uranium | μg/L | 96.77 | 90 | 110 | | yes |
| Vanadium | μg/L | 92.22 | 90 | 110 | | yes |
| Zinc | μg/L | 91.92 | 90 | 110 | | yes |
| Date Acquired: | November 08, 2017 | | | | | |
| Client Sample Rep | licates Units | Replicate 1 | Replicate 2 | % RSD Criteria | Absolute Criteria | Passed QC |
| Aluminum | μg/L | 2 | 2 | 20 | 20.000 | yes |
| Antimony | μg/L | 0.27 | 0.30 | 20 | 1.000 | yes |
| Arsenic | μg/L | 1.1 | 1.1 | 20 | 1.000 | yes |
| Barium | μg/L | 14.2 | 14.3 | 20 | 5.000 | yes |
| Beryllium | μg/L | <0.05 | <0.05 | 20 | 1.000 | yes |
| Boron | μg/L | 27 | 25 | 20 | 5.000 | yes |
| Cadmium | μg/L | <0.01 | <0.01 | 20 | 0.500 | yes |
| Chromium | μg/L | <0.05 | <0.05 | 20 | 5.000 | yes |
| Cobalt | μg/L | 0.41 | 0.40 | 20 | 0.500 | yes |
| Copper | μg/L | <0.5 | <0.5 | 20 | 5.000 | yes |
| Iron | μg/L | 913 | 913 | 20 | 50.000 | yes |
| Lead | μg/L | 0.04 | 0.17 | 20 | 0.500 | yes |
| Lithium | μg/L | 9.6 | 9.7 | 20 | 5.000 | yes |
| Manganese | μg/L | 293 | 293 | 20 | 0.500 | yes |
| Molybdenum | μg/L | 3.66 | 3.63 | 20 | 0.500 | yes |
| Nickel | μg/L | 0.8 | 0.8 | 20 | 5.000 | yes |
| Selenium | μg/L | <0.2 | <0.2 | 20 | 0.500 | yes |
| Silver | μg/L | <0.01 | 0.01 | 20 | 0.500 | yes |
| Strontium | μg/L | 2632 | 2648 | 20 | 0.500 | yes |
| Tellurium | μg/L | <0.05 | <0.05 | 20 | 0.500 | yes |
| Thallium | μg/L | <0.01 | <0.01 | 20 | 0.100 | yes |
| Thorium | μg/L | 0.89 | 0.8 | 20 | 0.100 | yes |
| Tin | μg/L | 0.5 | 0.7 | 20 | 0.500 | yes |
| Titanium | μg/L | 0.7 | 0.7 | 20 | 0.500 | yes |
| Uranium | μg/L | 4.12 | 4.19 | 20 | 0.100 | yes |
| Vanadium | μg/L | <0.05 | <0.05 | 20 | 0.500 | yes |
| Zinc | μg/L | 12.9 | 13.1 | 20 | 5.000 | yes |
| Zirconium | μg/L | 0.5 | 0.6 | 20 | 0.500 | yes |
| Date Acquired: | November 08, 2017 | | | | | |
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Methodology and Notes



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1237716 |
|-------------|---------------------------|-------------------|-----------------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Grizzly Valley & Deep | Date Received: | Nov 6, 2017 |
| | Y1A 2C6 | 100 | Creek | Date Reported: | Nov 10, 2017 |
| Attn: | Accounts Payable | LSD: | 000037000 | Report Number: | 2240510 |
| Sampled By: | Norbert Botca | P.U.: | 00037999 | | |
| Company: | YG-Environment | Proj. Acct. code: | | | |

Method of Analysis

| Method Name | Reference | | Method | Date Analysis Started | Location |
|---|-----------|---|---|--------------------------|----------------|
| Alk, pH, EC, Turb in water (Surrey) | APHA | * | Alkalinity - Titration Method, 2320 B | Nov 7, 2017 | Exova Surrey |
| Alk, pH, EC, Turb in water (Surrey) | APHA | * | Conductivity, 2510 B | Nov 7, 2017 | Exova Surrey |
| Alk, pH, EC, Turb in water (Surrey) | APHA | * | pH - Electrometric Method, 4500-H+ B | Nov 7, 2017 | Exova Surrey |
| Ammonia-N in Water (Surrey) | APHA | * | Flow Injection Analysis, 4500-NH3 H | Nov 8, 2017 | Exova Surrey |
| Anions by IEC in water (Surrey) | APHA | * | lon Chromatography with Chemical Suppression of Eluent Cond., 4110 B | Nov 7, 2017 | Exova Surrey |
| Carbon Inorganic (Dissolved) in water(DIC) | APHA | | High-Temperature Combustion Method, 5310 B | Nov 9, 2017 | Exova Edmonton |
| Carbon Inorganic (Total) in water (TIC) | APHA | | High-Temperature Combustion Method, 5310 B | Nov 9, 2017 | Exova Edmonton |
| Carbon Organic (Dissolved) in water (DOC) | APHA | | High-Temperature Combustion Method, 5310 B | Nov 8, 2017 | Exova Edmonton |
| Carbon Organic (Total) in water (TOC) | APHA | | High-Temperature Combustion Method, 5310 B | Nov 8, 2017 | Exova Edmonton |
| Mercury Low Level (Dissolved) in water (Surrey) | EPA | * | Mercury in Water by Cold Vapor Atomic Fluorescence Spectrometry, 245.7 | Nov 7, 2017 | Exova Surrey |
| Metals SemiTrace (Dissolved) in water (Surrey) | US EPA | * | Metals & Trace Elements by ICP-AES, 6010C | Nov 7, 2017 | Exova Surrey |
| Phosphorus - total by Smartchem (Surrey) | APHA | * | Persulfate digestion method, 4500-P B5 | Nov 8, 2017 | Exova Surrey |
| Solids Dissolved (Total, Fixed and Volatile) - Surrey | APHA | * | Total Dissolved Solids Dried at 180 C, 2540 C | Nov 7, 2017 | Exova Surrey |
| Total and Kjeldahl Nitrogen (Total) in Water | ISO | * | Water Quality - Determination of nitrogen, ISO/TR 11905-2 | Nov 8, 2017 | Exova Edmonton |
| Trace Metals (dissolved) in Water (Surrey) | US EPA | * | Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8 | Nov 7, 2017 | Exova Surrey |
| | | | " Reference Method Modified | | |

References

| APHA | Standard Methods for the Examination of Water and Wastewater |
|--------|--|
| EPA | Environmental Protection Agency Test Methods - US |
| ISO | International Organization for Standardization |
| US EPA | US Environmental Protection Agency Test Methods |

Comments:

- Nov 08, 2017 Sample 1237716-1; 5909319: Reduction of analytical volume was necessary for anions due to matrix effects in sample 1237716-1 and 1237716-2. Detection limits are adjusted accordingly.
- Nov 09, 2017 Reduction of analytical volume was necessary for metals analysis to bring results within the analytical range for sample. Detection limits are adjusted accordingly.

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Methodology and Notes



| Bill To: | YTG DOE - Water Resources | Project ID: | YOWN | Lot ID: | 1237716 |
|-------------|---------------------------|-------------------|-----------------------|-----------------|--------------|
| | PO Box 2703 | Project Name: | YOWN | Control Number: | |
| | Whitehorse, YT, Canada | Project Location: | Grizzly Valley & Deep | Date Received: | Nov 6, 2017 |
| | Y1A 2C6 | 1.00 | Creek | Date Reported: | Nov 10, 2017 |
| Attn: | Accounts Payable | LSD: | 000027000 | Report Number: | 2240510 |
| Sampled By: | Norbert Botca | P.U.: | C00037999 | | |
| Company: | YG-Environment | Proj. Acct. code: | | | |

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The test report shall not be reproduced except in full, without the written approval of the laboratory.

| Exova | | | T A A |
|-------|--|--|-------------|
|-------|--|--|-------------|

Testing Advising Assuring LOT:

Control Number

Environmental Sample Information Sheet NOTE Proper completion of this form is required in order to proceed with analysis

| Billing Address | | Report To: 🖌 | Copy of Re | oort To: | | | | | | | C | Copy | y of i | invoi | ice: | | | | | | | ĺ. | | | | |
|------------------|-----------------------|------------------------------------|----------------|-------------------------------------|---------------------------------------|------------------|-----------------|--------------------|--------|----------|--|--------|---------|--------|----------------------|-----------------|---------|---------|--------|------------|----------|---------------------|---------|--|--|--|
| Company: | Environment Yuk | - Water Resources Company: Same | | | | | | | | Ν | /lail iı | nvoice | e to ti | his ad | address for approval | | | | | | | | | | | |
| Address: | Room 203/ 1191 | Front Street | QA/QC Report | Address: | ess: | | | | | | | | | | | | | | | | | _ | l - | | | |
| | Whitehorse, YT. | | | | | | | | | | | | | | | | | | | | | | Í | | | |
| | Y1A 0K5 | | Denert Deputy | | | | ot: 123 | 37716 | COC | | | | | | | | | | | | Donord | Pocult: | 1 | | | |
| Attention | Norbort Rotas: 1 | aba Millor | Report Result: | Attention | | | | | | | | | | | | | | | | ſ | Eav | | | | | |
| Phone: | (867) 667-3512 | | | Phone: | | | | | | | | | | | | | | | | | Mai | \exists | | | | |
| Filone. | (867) 667-3194 | | Courier | Fax: | | | | | | | | | | | | | | | | (| Courier | H | | | | |
| Cell: | (007) 007-3134 | | Email | Cell | | | | | | | | | | | | | | | | | Emai | x | 1 | | | |
| Email: | norbert botca@g | ov vk ca: jobn miller@gov vk ca | e-Services | Email | | | | | | | | | | | | | | | | e-Se | arvices | ÊΙ | | | | |
| Email | norbentibutedagg | | | Eman. | | | | | | | | _ | | | | | _ | | | | | | ĺ. | | | |
| Information to | be included or | n Report and Invoice | RUSH Please | contact the labor | atory to con | firm rush date | s and times | before submi | tting | Sam | ple (| Custo | dy (F | Please | e Prir | nt) | | | | | | | i i | | | |
| | | | samples.(Up | on filling in this sectio | n client accepts | that a surcharge | will be applied | to this analysis). | | Sam | pled I | by: | | Norb | pert E | Botca | i. | Dat | e: | 2. | Nov- | 17 | | | | |
| Project ID: | YOWN | | | | Upon fi | lling out this : | section, clier | nt accepts th | nat | Com | pany | : Y | (G - | Envi | ronn | nent | Si | gnatu | re: N | В | | | | | | |
| Project Name: | YOWN | | | | surch | arges will be | attached to | this analysis | 5 | I auth | norize | e Exov | a to p | orocee | ed with | h the v | vork ir | ndicate | ed or | this form: | | | | | | |
| Project Location | : Grizzly Valley | & Deep Creek | | | Require | ed on: all ar | nalyses or | as indicat | ed | Date: | | | | | | Initia | ıl: | | | | | | Í. | | | |
| Legal Location: | | | | | | | | or | | | | | | | | | Sampl | е | | N. | กษณ | 17213 | Q: | | | |
| PO#: | | | | | | | | | | Rece | ived | by: | | | | 1 | Гетр. | 1 | | 11.82 | 20.0 | 2.6 2.63 | -In The | | | |
| Proj. Acct. Code | Ċ. | | Date required: | Date required: Date 7 ¹⁰ | | | | | | | | | 1° C | £ | 1 | | | | | | | | | | | |
| Agreement ID: | | | Signature: | | | | | | | Com | pany | | | | | | Time | | | 0 | . \ | | 1 | | | |
| | | | Norwest Autho | rization: | | | | | | | Cł | ieck h | ere if | Exova | a is re | quirec | to re | port re | esults | s direc | tly to a | é – | 1 | | | |
| Special Instruct | tions/Comments | | | | FOR LAB | JSE ONLY | | | | <u> </u> | regulatory body (Please include contact information) | | | | | | | | ł | | | | | | | |
| | | | | | Condition o | f containers/ | coolers upor | n arrival at la | ıb | | | ONSU | MPTI | ON | ne les | ang <u>r</u> | UTAL | | | | TOMA | <u>.</u> | | | | |
| | | | | | | | | | | 1 T | | | | | | | - | | | | | | ĺ – | | | |
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| | | | | | | | | | um tuo | 23E | | 0 | Ы | | <u>م ام</u> | N. | N M | 0 | | ER | , jõ |) | 1 | | | |
| Please indicate | which regulations you | are required to meet: | | | | | | | 20 | M | SIE | LU C | 3 1 | | Ĩ I | E | | 0 | r Ż | - N | 0 E | | 1 | | | |
| Sample No. | Station Code | Station Description | Sample Date | Sample Time hh:mm | Sample Class | Sampled Bv | Matrix | Sampling Method | • | | | 1-1- | | 1 | | <u>er - 1</u> 2 | | 19-201 | | | | County in county in | | | | |
| 1 2017272 | YOWN-1504 | YOWN Grizzly Valley | 2-Nov-2017 | 12:50 | В | NB | water | grab | 7 | x | xx | x | xx | x | xx | x | xx | x | x x | (X | xx | | Ĺ | | | |
| 2 2017273 | YOWN-1505 | YOWN Deep Creek | 2-Nov-2017 | 11:30 | В | NB | water | grab | 7 | x | x x | x | xx | x | xx | x | xx | x | xx | (X | xx | | Ì. | | | |
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| NOTE: All baza | ardous samples | nust be labeled according to WHMIS | quidelines | | | l | | | · | | 1000 | | _ | | | а <u>—</u> В | P | ane | _ | 1 of | 1 | | ļ. | | | |