December 21, 2017

ISSUED FOR USE
FILE: 704-ENW.VENW03140-01

School District 68 (Nanaimo-Ladysmith)
395 Wakesiah Road
Nanaimo, BC V9R 3K6

Via Email: BHackwood@sd68.bc.ca; Chris.Baker@sd68.bc.ca

Attention: Mr. Brian Hackwood, Maintenance Manager

Subject: Domestic Water Testing (Lead) Inventory – Departure Bay Elementary

1.0 INTRODUCTION

Tetra Tech Canada Inc. (Tetra Tech) was retained School District 68 Nanaimo-Ladysmith (SD 68) to conduct a domestic water testing inventory at Departure Bay Elementary located in SD 68. Tetra Tech understands that the BC Ministry of Education has issued a directive to protect drinking water. The directive requires that a systematic investigation of public drinking water supplies at select schools in the District be undertaken. The investigation is based on procedures set forth by the Vancouver Island Health Authority (VIHA), modified per Health Canada guidelines, to ascertain risk and mitigation.

Tetra Tech understands that the sampling schedule, collection, testing and reporting of results needs to be completed by December 22, 2017 in order to allow sufficient time for SD 68 to implement mitigation measures prior to its deadline of March 31, 2018.

Carrie McVeigh, of SD 68, provided Tetra Tech with authorization to proceed with the inventory on October 24, 2017.

2.0 METHODOLOGY

Tetra Tech completed the domestic water testing inventory program at Departure Bay Elementary on November 27th and December 11th, 2017. The 2017 sampling program was conducted as per the protocols established during the 2016 program. The methodologies employed during the field program are detailed in the following subsections.

2.1 Sampling Locations

Tetra Tech reviewed plans for the facility prior to commencing the field work to identify potential sampling locations. The facility was then assessed in the field and sampling locations were selected based on the probability of human consumption at a location. The sampling locations included one point that was closest to the location where the water supply enters the building, one that is the furthest point from where the water supply enters the building and from points where human consumption of water occurred or was reasonably likely to occur. The sampling locations for Departure Bay Elementary are shown on the attached Figures 1 and 2.

Drinking fountains and kitchen sinks were all considered to have a high probability of human consumption of water and were always sampled. Sinks with visible evidence of human consumption of water, such as water bottles, cups, or electric kettles were also considered to have a high probability of human consumption of water and were sampled.

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Washrooms and utility sinks, unless there was other evidence of human consumption of water (such as an electric kettle) were considered to be a low probability of human consumption of water and only representative samples were collected.

2.2 Drinking Water Sampling

Sampling was conducted in the early hours of Monday, November 27th and December 11th, 2017 in order collect water samples representative of an approximate worse-case scenario of water that had remained in contact with the school's plumbing over the course of a weekend. Two samples were collected at each sample location; during initial sampling the first was collected immediately prior to any water line flushing (0 second sample); the second collected after thirty seconds of water line flushing (30 second sample).

The process for the sequence of analysis for a sample location is as follows:

- Only the pre-flush (0 second) sample is initially submitted for laboratory analysis;
- If the analytical result exceeds the *Guidelines for Canadian Drinking Water Quality* (GCDWQ) Maximum Allowable Concentration (MAC), the 30 second sample would be submitted for further analysis; and
- If the 30 second sample analytical result exceeds the GCDWQ MAC, additional samples would be collected after flushing with cold water for 2 minutes and 5 minutes at a subsequent sampling event and both samples submitted for analysis.

Water samples were collected directly from the sample point into clean, labeled, new laboratory-supplied containers pre-charged with preservative for total lead. Sampling personnel wore new nitrile gloves prior to collecting each sample. Samples were kept in a cooler with ice after collection until being brought back to Tetra Tech's Nanaimo office, where samples not immediately submitted to the laboratory were stored in refrigerated conditions.

2.3 Analytical Testing

Maxxam is a Canadian Association for Laboratory Accreditation (CALA) accredited laboratory that is qualified to analyze the samples using British Columbia Ministry of Environment (MOE)-approved procedures. All water samples submitted were analyzed for total lead.

2.4 Quality Assurance / Quality Control

During the sampling program, Tetra Tech implemented a Quality Assurance/Quality Control (QA/QC) program to ensure the integrity of the sampling methodology and analytical testing. The QA/QC program adhered to Tetra Tech's in-house Quality Management System (QMS), which was designed to generate representative samples, minimize the potential for cross-contamination between sampling locations and samples, and reduce the potential for systematic bias.

The QA/QC program included the following tasks:

- Recording the results of field activities in the field concurrently with the activities;
- Use of clean, new sampling gloves at each sampling location;
- Placing samples into new, labeled laboratory-supplied containers;
- Transporting samples to Maxxam in chilled coolers using chain-of-custody procedures;

- Using a Canadian Association for Laboratory Accreditation (CALA) accredited laboratory that is qualified to analyze the samples using MOE-approved procedures;
- Independently verifying the sample concentrations flagged by Maxxam as being greater than Health Canada guidelines; and
- Conducting a review of this report by a qualified senior Tetra Tech professional to ensure that the report meets Tetra Tech technical and reporting requirements.

Laboratory Quality Assurance / Quality Control Program

Water samples were submitted to Maxxam, a CALA accredited laboratory. Laboratory testing was conducted using methods outlined in the British Columbia Environmental Laboratory Manual. Laboratory QA/QC reports are attached to the laboratory reports presented in Appendix B. Samples included in the QA/QC reports consist of laboratory batches and will include random samples from the lab report and potentially other projects to complete a batch.

The Laboratories noted any sample deficiencies, such as unacceptable headspace, broken jars or bottles, etc. As well, the laboratory measured the temperature of samples received by the laboratory in Burnaby.

3.0 ASSESSMENT STANDARDS

As per the guidance from the Vancouver Island Health Authority (VIHA), Tetra Tech compared the sample analytical results to the *Guidelines for Canadian Drinking Water Quality* (GCDWQ) published by Health Canada, February 2017. The guidelines list a Maximum Acceptable Concentration (MAC) for lead of 10 µg/L (0.010 mg/L). The MAC for lead is based on chronic effects and is intended to apply to average concentrations in water consumed for extended periods. No immediately toxic concentration for lead is listed, however exposure to lead should nevertheless be kept to a minimum.

4.0 ANALYTICAL RESULTS

A total of 18 sample locations were identified; two samples were collected at each location (i.e., 0 second sample and 30 second sample). Tetra Tech collected water 0 and 30 second samples from Departure Bay Elementary on November 27th, 2017. All 18 pre-flush (0 second) samples were submitted for laboratory analysis of total lead.

Five of the 18 pre-flush (0 second samples) contained concentration of total lead greater than the GCDWQ MAC.

Three samples were collected at the west end of the school near the Gymnasium: sample DB12 was collected from the kitchen off the Gymnasium, DB13 was collected from a drinking water fountain outside the Gymnasium, DB14 was collected from a sink in the boy's change room outside the Gymnasium. Two samples were collected at the east end of the school: DB15 was collected from a sink in Classroom 301 and DB16 was collected from a sink in Room 310. The 30 second sample for all these locations was submitted for laboratory analysis of total lead.

The 30 second samples at DB14 and DB15 contained concentrations of total lead greater than the GCDWQ MAC.

Tetra Tech collected 2 minute and 5 minute flush samples from DB14 and DB15 on December 11th and submitted it for laboratory analysis of total lead.

Both the 2 minute and 5 minute samples at DB14 and DB15 contained total lead concentrations less than the GCDWQ MAC.

Sampling locations are shown on Figures 1 and 2. Laboratory testing results for Departure Bay Elementary are summarized in the table below. The complete laboratory certificate is provided as Appendix B.

Table 1: Laboratory Testing Results

Sample ID	Sample Date	MAC	Total Lead (µg/L)
0 Second Samples			
DB01-0s	11/27/2017	10 µg/L	3.23
DB02-0s	11/27/2017		8.49
DB03-0s	11/27/2017		4.75
DB04-0s	11/27/2017		1.55
DB05-0s	11/27/2017		1.20
DB06-0s	11/27/2017		3.92
DB07-0s	11/27/2017		3.65
DB08-0s	11/27/2017		4.72
DB09-0s	11/27/2017		0.81
DB10-0s	11/27/2017		1.19
DB11-0s	11/27/2017		3.08
DB12-0s	11/27/2017		**125**
DB13-0s	11/27/2017		**41.2**
DB14-0s	11/27/2017		**35.9**
DB15-0s	11/27/2017		**18.2**
DB16-0s	11/27/2017		**19.1**
DB17-0s	11/27/2017		7.95
DB18-0s	11/27/2017		0.83
30 Second Samples			
DB12-30s	11/27/2017	10 µg/L	3.74
DB13-30s	11/27/2017		6.00
DB14-30s	11/27/2017		**11.2**
DB15-30s	11/27/2017		**14.2**
DB16-30s	11/27/2017		2.19
2 Minute Sample			
DB14-2m	12/11/2017	10 µg/L	0.66
DB15-2m	12/11/2017		0.63
5 Minute Sample			
DB14-5m	12/11/2017	10 µg/L	0.92
DB15-5m	12/11/2017		0.91
Notes:	**Grey Fill**	Exceeds GCDWQ MAC	

5.0 DISCUSSION AND RECOMMENDATIONS

Tetra Tech's sampling program was based upon guidance from the Ministry of Health, found in the document *Guidance on Controlling Corrosion in Drinking Water Distribution Systems* (2009). The rationale is that for each sampling point, if the pre-flush (0 second) sample (Tier 1) contained elevated lead concentrations, it could indicate that the faucet or fittings are the source of lead. If a subsequent 30 second flush sample (Tier 2) contained elevated lead concentrations, the source of the lead would likely be the piping (plumbing) leading to the faucet; whereas low lead concentrations in the 30 second sample would further indicate that the source was likely the faucet and fittings. Finally, 2 and 5 minute flush samples (if required) should be drawing water directly from the water supply piping within the building and would indicate if flushing is feasible for lowering the lead concentration in water within the building.

The Health Canada guidance recommend that Tier 2 sampling (30 second samples) take place when Tier 1 sampling identifies more than 10% of sites with lead concentrations above the MAC, and then only at the 10% of sampling sites with the highest lead concentration. Rather, Tetra Tech ran every 30 second sample for locations where the 0 second sample was above the MAC to show that flushing was adequate to lower the lead concentration in the drinking water at each point of concern.

The guidance from the Ministry of Health recommended that samples be collected after the sampling points had been stagnant for a minimum of 8 hours but not longer than 24 hours in order to simulate the worst case daily scenario for lead in drinking water consumption. Based on guidance from VIHA, SD 68 directed Tetra Tech to collect samples Monday mornings prior to any staff or students arriving at the facilities in order to simulate a worst-case scenario for stagnant water. As such, lead concentrations reported represent what could be expected following a weekend and would likely be lower on subsequent weekday mornings.

Five of 18 pre-flush (0 second) samples collected at Departure Bay Elementary contained concentrations of lead greater than the GCDWQ MAC. Lead concentrations at sample locations DB12, DB13 and DB16 exceeded the MAC for the 0 second samples but was below the guideline for the 30 second samples. Lead concentrations at DB14 and DB15 exceeded the MAC for both 0 and 30 second samples but were below in the guideline for the 2 and 5 minute samples.

As previously noted, where lead concentrations are elevated in 0 second samples, the contributing source is likely the fixture (i.e., faucet or fittings). Where the 30 second sample is also elevated the source is likely the plumbing immediately behind the fixture. Since lead concentrations at locations DB12, DB13 and DB16 exceeded the MAC for the 0 second sample but not for the 30 second sample, there is potentially a lead source in the fixture at these locations. At DB14 and DB15 the plumbing behind the fixture may also be a contributing source.

Flushing is adequate to lower the lead concentrations at all sample points in Departure Bay Elementary. Signage stating "Water Quality – First thing in the morning… Run the water for two minutes before drinking. Throughout the day… Let the water run until it is cold before drinking" should be maintained throughout the facility at each point where drinking water could be consumed.

6.0 SUMMARY AND CONCLUSIONS

Five pre-flush (0 second) samples (DB12 through DB16) collected at Departure Bay Elementary contained concentrations of total lead greater than the GCDWQ MAC of 10µg/L (0.010 mg/L). Of those five locations, three had concentrations of lead below the MAC in the corresponding 30 second samples. Samples DB14 and DB15 had

concentrations of lead exceeding the GCDWQ for both the 0 second and 30 second samples but were below for the 2 minute and 5 minute sample.

Tetra Tech recommends that SD 68 continue with its ongoing procedure of conducting a 2 minute flush at each drinking water consumption point each morning; and running taps/faucets until cold prior to consuming water. Signage stating "Water Quality – First thing in the morning… Run the water for two minutes before drinking. Throughout the day… Let the water run until it is cold before drinking" should be maintained at all water consumption points.

Tetra Tech recommends that the facility be inspected on a routine basis to ensure that the above noted signage is present and in good condition at each point where drinking water could be consumed. Tetra Tech further recommends that a bulletin be provided to staff summarizing the drinking water quality results at the facility and reminding them of the above procedure. Staff should then instruct students and visitors in the drinking water procedure.

7.0 CLOSURE

This report has been prepared based on the scope of work and for the use of School District 68, which includes distribution as required for the purposes for which this assessment was commissioned. The assessment has been carried out in accordance with generally accepted professional practice. No other warranty is made, either express or implied. Professional judgment has been applied in developing the recommendations in this report.

This report was prepared by personnel with professional experience in investigations of this nature and who specifically conducted the investigations at this Site. Reference should be made to the 'Geoenvironmental Report – Limitations on the Use of this Document' attached in Appendix A that forms a part of this report.

We trust this report meets your present requirements. If you have any questions or comments, please contact the undersigned.

Respectfully submitted,
Tetra Tech Canada Inc.

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/dr

Attachments: Figure 1 - Departure Bay Elementary Sample Locations (Main and Upper Floors)
Figure 2 - Departure Bay Elementary Sample Location (Lower Floor)
Appendix A - Limitations on the Use of this Document
Appendix B - Laboratory Report

FIGURES

Figure 1 Departure Bay Elementary Sample Locations (Main and Upper Floors)
Figure 2 Departure Bay Elementary Sample Location (Lower Floor)

ENCLOSED SPACES

Floor Hatches

1 – In Kindergarten Room
4 – Door To Crawl Room 209
6 – Door To Crawl Storage Room Below Stage

Ceiling Hatches

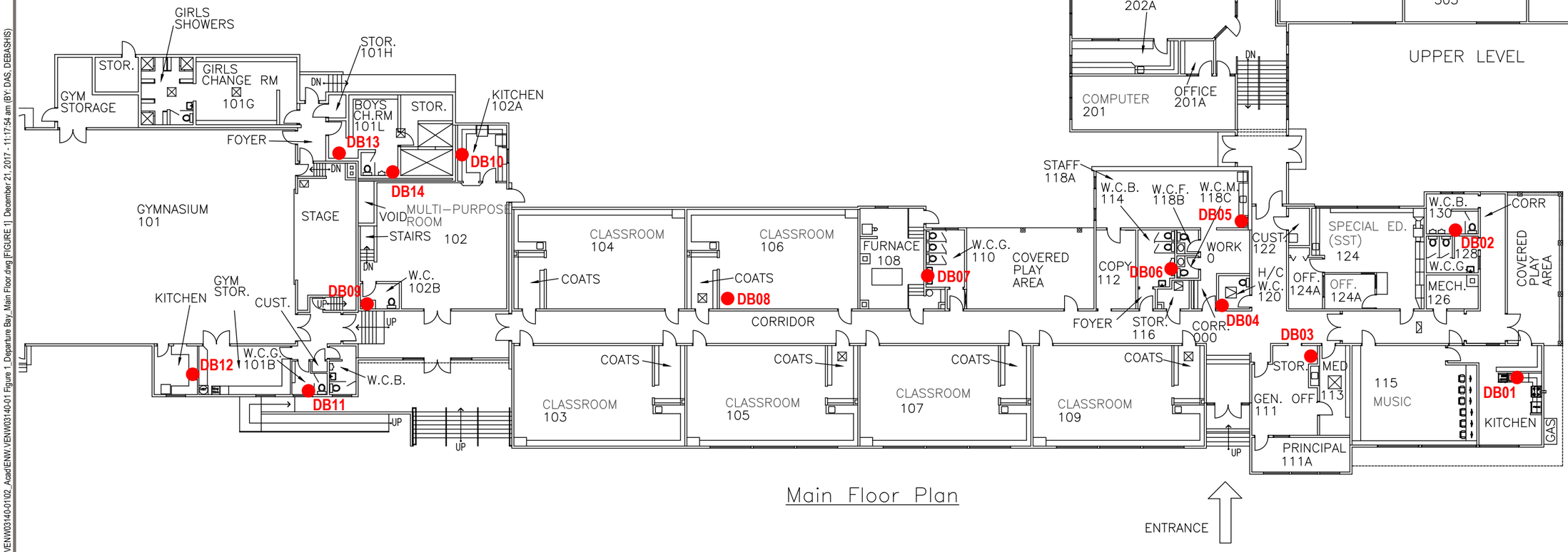
2 – Custodian Room 122
8 – Corridor Outside Mech Rm 4

Doors To Air Handling Units

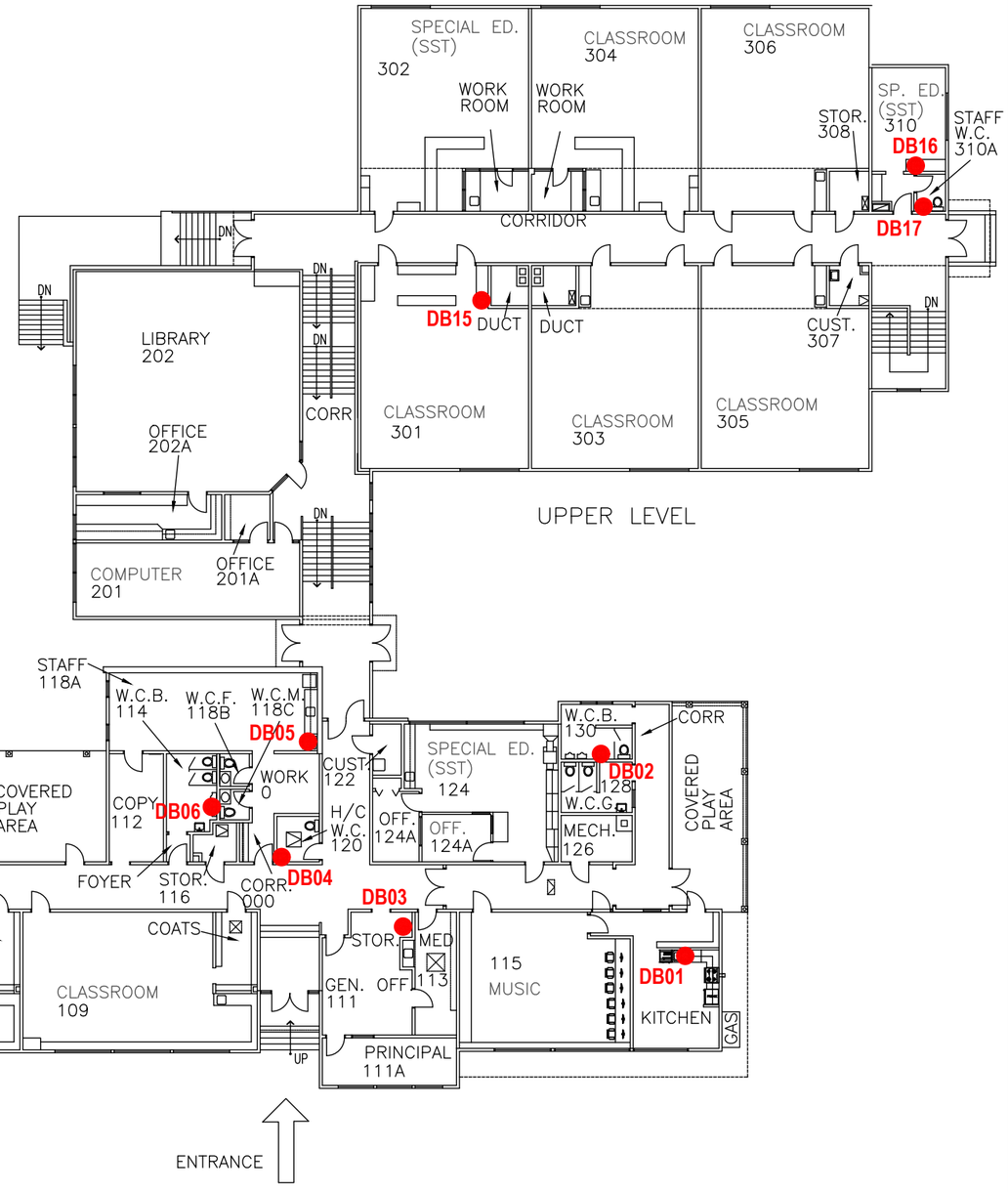
3 – Door "P"
5 – Furnace Room 108
7 – AH3 Furnace Rm Below Stage

Roof Access

Ladder From Custodian Rm 307 To Roof



Main Floor Plan



UPPER LEVEL

NOTES:

1) BASE DRAWING IS PROVIDED BY CLIENT
2) DRAWING NOT TO SCALE

LEGEND:

● - SAMPLE LOCATION

CLIENT

School District 68

DOMESTIC WATER TESTING (LEAD) INVENTORY
DEPARTURE BAY ELEMENTARY SCHOOL
3004 DEPARTURE BAY ROAD, NANAIMO, BC

DEPARTURE BAY ELEMENTARY
SAMPLE LOCATIONS (MAIN & UPPER FLOORS)

TETRA TECH

PROJECT NO.	DWN	CKD	REV
ENW.VENW03140-01	DBD	SW	0

OFFICE	DATE
EDM	December 2017

Figure 1

Roof Access

Ladder From Custodian Rm 307 To Roof

ENCLOSED SPACES

Floor Hatches

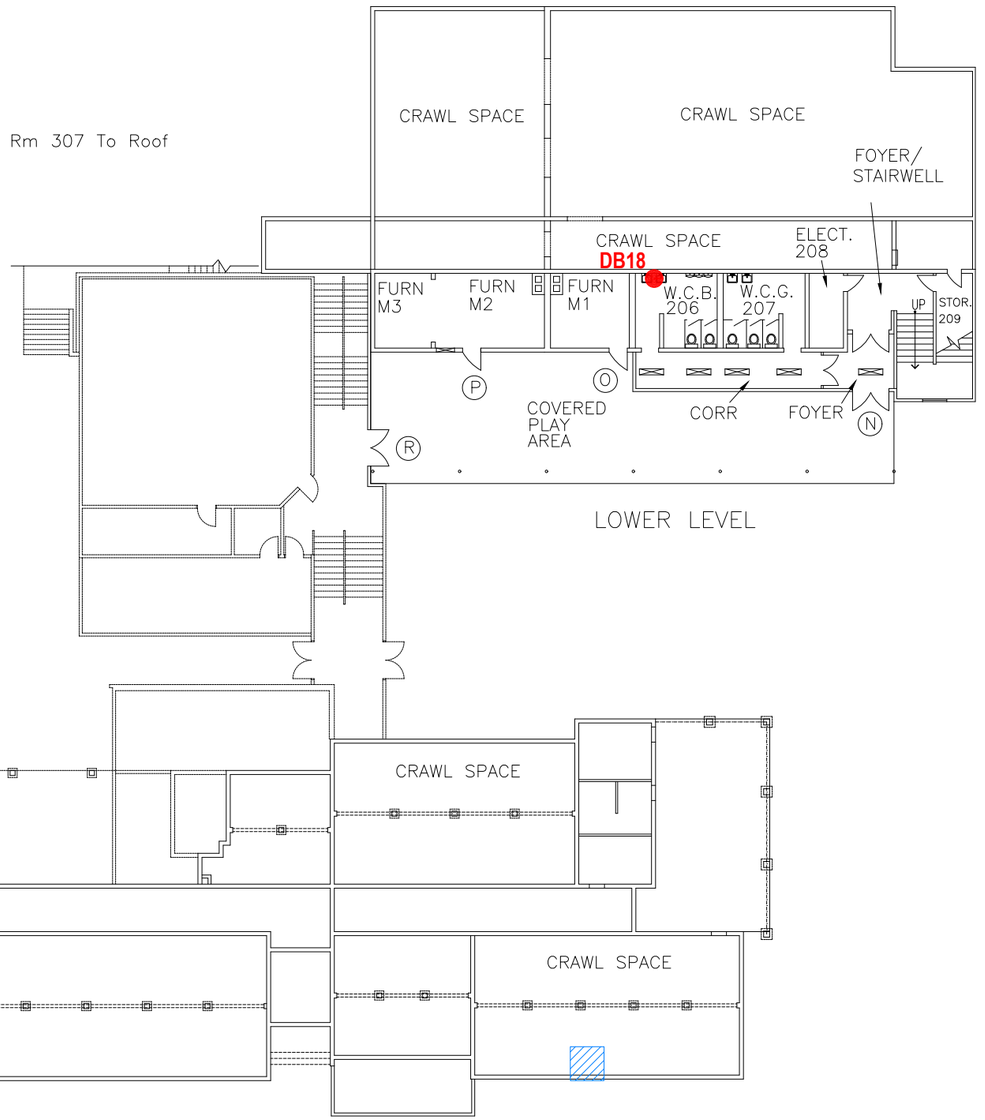
1 – In Kindergarten Room
4 – Door To Crawl Room 209
6 – Door To Crawl Storage Room Below Stage

Ceiling Hatches

2 – Custodian Room 122
8 – Corridor Outside Mech Rm 4

Doors To Air Handling Units

3 – Door "P"
5 – Furnace Room 108
7 – AH3 Furnace Rm Below Stage



CRAWL SPACE PLAN

NOTES:

1) BASE DRAWING IS PROVIDED BY CLIENT
2) DRAWING NOT TO SCALE

LEGEND:

- WATER ENTRY POINT
- SAMPLE LOCATION

CLIENT

School District 68

DOMESTIC WATER TESTING (LEAD) INVENTORY
DEPARTURE BAY ELEMENTARY SCHOOL
3004 DEPARTURE BAY ROAD, NANAIMO, BC

DEPARTURE BAY ELEMENTARY
SAMPLE LOCATIONS (LOWER FLOOR)

TETRA TECH

PROJECT NO.	DWN	CKD	REV
ENW.VENW03140-01	DBD	SW	0

OFFICE: EDM
DATE: December 2017

Figure 2

APPENDIX A

LIMITATIONS ON THE USE OF THIS DOCUMENT

LIMITATIONS ON USE OF THIS DOCUMENT

GEOENVIRONMENTAL

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If any error or omission is detected by the Client or an Authorized Party, the error or omission must be immediately brought to the attention of TETRA TECH.

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While TETRA TECH endeavours to verify the accuracy of such information, TETRA TECH accepts no responsibility for the accuracy or the reliability of such information even where inaccurate or unreliable information impacts any recommendations, design or other deliverables and causes the Client or an Authorized Party loss or damage.

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The Client, and any Authorized Party, acknowledges that the Professional Document is based on limited data and that the conclusions, opinions, and recommendations contained in the Professional Document are the result of the application of professional judgment to such limited data.

The Professional Document is not applicable to any other sites, nor should it be relied upon for types of development other than those to which it refers. Any variation from the site conditions present, or variation in assumed conditions which might form the basis of design or recommendations as outlined in this report, at or on the development proposed as of the date of the Professional Document requires a supplementary investigation and assessment.

TETRA TECH is neither qualified to, nor is it making, any recommendations with respect to the purchase, sale, investment or development of the property, the decisions on which are the sole responsibility of the Client.

1.7 NOTIFICATION OF AUTHORITIES

In certain instances, the discovery of hazardous substances or conditions and materials may require that regulatory agencies and other persons be informed and the client agrees that notification to such bodies or persons as required may be done by TETRA TECH in its reasonably exercised discretion.

APPENDIX B

LABORATORY REPORT

Maxxam
A Bureau Veritas Group Company

Success Through Science®

Your Project #: ENW.VENW03140-01
Your C.O.C. #: 541404-03-01

Attention:Shawneen Walker

TETRA TECH CANADA INC.
#1 - 4376 BOBAN DRIVE
NANAIMO, BC
Canada V9T 6A7

Report Date: 2017/12/14
Report #: R2491584
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B7A9892
Received: 2017/12/12, 08:35

Sample Matrix: DRINKING WATER
Samples Received: 8

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Elements by CRC ICPMS (total)	8	N/A	2017/12/14	BBY7SOP-00003,	BCLM2005,EPA6020bR2m

Remarks:

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

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

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

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Letitia Prefontaine, B.Sc., Senior Project Manager
Email: LPrefontaine@maxxam.ca
Phone# (604)639-2616

==========

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

Maxxam Job #: B7A9892
Report Date: 2017/12/14

TETRA TECH CANADA INC.
Client Project #: ENW.VENW03140-01
Sampler Initials: SW

ELEMENTS BY ATOMIC SPECTROSCOPY (DRINKING WATER)

Maxxam ID			SQ8479	SQ8480	SQ8481	SQ8482	SQ8483	SQ8484		
Sampling Date			2017/12/11	2017/12/11	2017/12/11	2017/12/11	2017/12/11	2017/12/11		
COC Number			541404-03-01	541404-03-01	541404-03-01	541404-03-01	541404-03-01	541404-03-01		
	UNITS	MAC	WS23-2M	WS23-5M	SD07-2M	SD07-5M	DB14-2M	DB14-5M	RDL	QC Batch
Total Metals by ICPMS										
Total Lead (Pb)	ug/L	10	0.64	0.93	0.86	0.80	0.66	0.92	0.20	8861363

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit

Maxxam ID			SQ8485	SQ8486		
Sampling Date			2017/12/11	2017/12/11		
COC Number			541404-03-01	541404-03-01		
	UNITS	MAC	DB15-2M	DB15-5M	RDL	QC Batch
Total Metals by ICPMS						
Total Lead (Pb)	ug/L	10	0.63	0.91	0.20	8861363

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit

Maxxam Analytics International Corporation o/a Maxxam Analytics Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Maxxam Job #: B7A9892
Report Date: 2017/12/14

TETRA TECH CANADA INC.
Client Project #: ENW.VENW03140-01
Sampler Initials: SW

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	5.7°C

Samples received with incomplete Chain of Custody. Sampling times not provided.
MAC: The guidelines that have been included in this report have been taken from the Canadian Drinking Water Quality Summary Table, February 2017.

Criteria A = Maximum Acceptable Concentration (MAC) / Criteria B = Aesthetic Objectives (AO) / Criteria C = Operational Guidance Values (OG)
It is recommended to consult these guidelines when interpreting your data since there are non-numerical guidelines that are not included on this report.

Turbidity Guidelines:
1. Chemically assisted filtration: less than or equal to 0.3 NTU in 95% of the measurements or 95% of the time each month. Shall not exceed 1.0 NTU at any time.
2. Slow sand / diatomaceous earth filtration: less than or equal to 1.0 NTU in 95% of the measurements or 95% of the time each month. Shall not exceed 3.0 NTU at any time.
3. Membrane filtration: less than or equal to 0.1 NTU in 99% of the measurements made or at least 99% of the time each calendar month. Shall not exceed 0.3 NTU at any time.

Results relate only to the items tested.

Maxxam Analytics International Corporation o/a Maxxam Analytics Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Maxxam Job #: B7A9892
Report Date: 2017/12/14

QUALITY ASSURANCE REPORT

TETRA TECH CANADA INC.
Client Project #: ENW.VENW03140-01
Sampler Initials: SW

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8861363	Total Lead (Pb)	2017/12/14	97	80 - 120	99	80 - 120	<0.20	ug/L	3.6	20

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

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

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

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

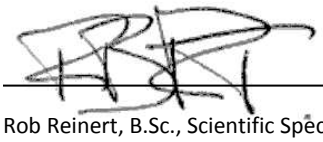
Maxxam Analytics International Corporation o/a Maxxam Analytics Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Maxxam Job #: B7A9892
Report Date: 2017/12/14

TETRA TECH CANADA INC.
Client Project #: ENW.VENW03140-01
Sampler Initials: SW

VALIDATION SIGNATURE PAGE

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



Rob Reinert, B.Sc., Scientific Specialist

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

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

Page 1 of 1

B7A9892_COC

INVOICE TO:

Company Name: #1433 TETRA TECH CANADA INC.
Contact Name: Shawneen Walker
Address: #1 - 4376 BOBAN DRIVE, NANAIMO BC V9T 6A7
Phone: (250) 756-2256 x Fax: (250) 756-2686 x
Email: smwalker@eba.ca; EBA.Labdata@tetratech.com

Report Information

Company Name:
Contact Name: Shawneen Walker
Address: shawneen.walker@tetratech.com
Phone: Fax:
Email: ~~smwalker@eba.ca~~; EBA.Labdata@tetratech.com

Project Information

Quotation #: B71611
P.O. #:
Project #: ENW.VENW03140-01
Project Name:
Site #:
Sampled By: SJW

Bottle Order #: 541404
Project Manager: Lalita Preforaine
C#541404-03-01

Regulatory Criteria:
- [ ] CSR
- [x] CCME
- [x] BC Water Quality
- [ ] Other

Special Instructions:

SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects
Regular (Standard) TAT: [x]
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.
Job Specific Rush TAT (if applies to entire submission)
1 DAY [ ] 2 Day [ ] 3 Day [ ] Date Required: [ ]
Rush Confirmation Number: (call lab for #)

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Metals Field Filtered ? (Y / N)	Lead - Drinking Water	# of Bottles	Comments
1		WS23-2m	17/12/11		Water		X	1	
2		WS23-5m							
3		SD07-2m							
4		SD07-5m							
5		DB14-2m							
6		DB15-5m							
7		DB15-2m							
8		DB15-5m	↓		↓		↓	↓	
9									
10									

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Shawneen Walker	17/12/11	08:00	EVA SYCORA	2017/12/12	08:35	

Lab Use Only: Time Sensitive [ ] | Temperature (°C) on Receipt: 8,2,7 | Custody Seal Intact on Cooler? N/A [ ] Yes [ ] No

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

White: Maxxam Yellow: Client

ICE-N/A

Maxxam Analytics International Corporation o/a Maxxam Analytics

Your Project #: ENW.VENW03140-01

Attention:Shawneen Walker

TETRA TECH CANADA INC.
#1 - 4376 BOBAN DRIVE
NANAIMO, BC
Canada V9T 6A7

Your C.O.C. #: 540796-06-01, 540796-07-01, 540796-08-01, 540796-09-01, 540796-10-01, 540796-11-01, 540796-12-01

Report Date: 2017/12/05
Report #: R2486758
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B7A6034
Received: 2017/11/28, 08:55

Sample Matrix: DRINKING WATER
Samples Received: 56

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Elements by CRC ICPMS (total)	34	N/A	2017/12/02	BBY7SOP-00003,	BCLM2005,EPA6020bR2m
Elements by CRC ICPMS (total)	22	N/A	2017/12/04	BBY7SOP-00003,	BCLM2005,EPA6020bR2m

Remarks:

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

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

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

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

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Maxxam Analytics International Corporation o/a Maxxam Analytics Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Your Project #: ENW.VENW03140-01

Attention:Shawneen Walker

TETRA TECH CANADA INC.
#1 - 4376 BOBAN DRIVE
NANAIMO, BC
Canada V9T 6A7

Your C.O.C. #: 540796-06-01, 540796-07-01, 540796-08-01, 540796-09-01, 540796-10-01, 540796-11-01, 540796-12-01

Report Date: 2017/12/05
Report #: R2486758
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B7A6034
Received: 2017/11/28, 08:55

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Letitia Prefontaine, B.Sc., Senior Project Manager
Email: LPrefontaine@maxxam.ca
Phone# (604)639-2616

==========

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Maxxam Job #: B7A6034
Report Date: 2017/12/05

TETRA TECH CANADA INC.
Client Project #: ENW.VENW03140-01
Sampler Initials: BB

ELEMENTS BY ATOMIC SPECTROSCOPY (DRINKING WATER)

Maxxam ID			SO7002		SO7003	SO7004	SO7005		
Sampling Date			2017/11/27		2017/11/27	2017/11/27	2017/11/27		
COC Number			540796-06-01		540796-06-01	540796-06-01	540796-06-01		
	UNITS	MAC	WS01-OS	QC Batch	WS02-OS	WS03-OS	WS04-OS	RDL	QC Batch
Total Metals by ICPMS									
Total Lead (Pb)	ug/L	10	0.79	8848411	**13.0**	**17.1**	9.66	0.20	8848362

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit

Maxxam ID			SO7006	SO7007	SO7008	SO7009		SO7010		
Sampling Date			2017/11/27	2017/11/27	2017/11/27	2017/11/27		2017/11/27		
COC Number			540796-06-01	540796-06-01	540796-06-01	540796-06-01		540796-06-01		
	UNITS	MAC	WS05-OS	WS06-OS	WS07-OS	WS08-OS	QC Batch	WS09-OS	RDL	QC Batch
Total Metals by ICPMS										
Total Lead (Pb)	ug/L	10	9.07	3.66	**22.1**	0.26	8848333	3.60	0.20	8848362

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit

Maxxam ID			SO7011	SO7016	SO7017	SO7018		SO7019		
Sampling Date			2017/11/27	2017/11/27	2017/11/27	2017/11/27		2017/11/27		
COC Number			540796-06-01	540796-07-01	540796-07-01	540796-07-01		540796-07-01		
	UNITS	MAC	WS10-OS	WS11-OS	WS12-OS	WS13-OS	QC Batch	WS14-OS	RDL	QC Batch
Total Metals by ICPMS										
Total Lead (Pb)	ug/L	10	3.42	1.93	0.47	0.22	8848411	1.73	0.20	8848362

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit

Maxxam ID			SO7020		SO7029	SO7030		SO7031		
Sampling Date			2017/11/27		2017/11/27	2017/11/27		2017/11/27		
COC Number			540796-07-01		540796-08-01	540796-08-01		540796-08-01		
	UNITS	MAC	WS15-OS	QC Batch	WS22-OS	WS23-OS	QC Batch	WS24-OS	RDL	QC Batch
Total Metals by ICPMS										
Total Lead (Pb)	ug/L	10	0.74	8848362	3.56	**20.8**	8848333	1.25	0.20	8848362

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit

Maxxam Analytics International Corporation o/a Maxxam Analytics Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Maxxam Job #: B7A6034
Report Date: 2017/12/05

TETRA TECH CANADA INC.
Client Project #: ENW.VENW03140-01
Sampler Initials: BB

ELEMENTS BY ATOMIC SPECTROSCOPY (DRINKING WATER)

Maxxam ID			SO7032		SO7033		SO7034	SO7035		
Sampling Date			2017/11/27		2017/11/27		2017/11/27	2017/11/27		
COC Number			540796-08-01		540796-08-01		540796-08-01	540796-08-01		
	UNITS	MAC	WS25-OS	QC Batch	WS26-OS	QC Batch	WS27-OS	MB01-OS	RDL	QC Batch
Total Metals by ICPMS										
Total Lead (Pb)	ug/L	10	2.12	8848411	3.70	8848362	0.92	0.77	0.20	8848411

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit

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Maxxam Job #: B7A6034
Report Date: 2017/12/05

TETRA TECH CANADA INC.
Client Project #: ENW.VENW03140-01
Sampler Initials: BB

ELEMENTS BY ATOMIC SPECTROSCOPY (DRINKING WATER)

Maxxam ID			SO7036	SO7037		SO7042	SO7043	SO7044		
Sampling Date			2017/11/27	2017/11/27		2017/11/27	2017/11/27	2017/11/27		
COC Number			540796-08-01	540796-08-01		540796-09-01	540796-09-01	540796-09-01		
	UNITS	MAC	MB02-OS	MB03-OS	QC Batch	MB04-OS	MB05-OS	MB06-OS	RDL	QC Batch
Total Metals by ICPMS										
Total Lead (Pb)	ug/L	10	**17.7**	**11.4**	8848362	7.24	5.13	4.63	0.20	8848333

No Fill — No Exceedance
Grey — Exceeds 1 criteria policy/level
Black — Exceeds both criteria/levels
RDL = Reportable Detection Limit

Maxxam ID			SO7045		SO7046		SO7047		SO7048		
Sampling Date			2017/11/27		2017/11/27		2017/11/27		2017/11/27		
COC Number			540796-09-01		540796-09-01		540796-09-01		540796-09-01		
	UNITS	MAC	MB07-OS	QC Batch	MB08-OS	QC Batch	MB09-OS	QC Batch	MB10-OS	RDL	QC Batch
Total Metals by ICPMS											
Total Lead (Pb)	ug/L	10	1.94	8848362	8.92	8848333	6.20	8848362	0.32	0.20	8848411

No Fill — No Exceedance
Grey — Exceeds 1 criteria policy/level
Black — Exceeds both criteria/levels
RDL = Reportable Detection Limit

Maxxam ID			SO7049		SO7050	SO7051		SO7052		
Sampling Date			2017/11/27		2017/11/27	2017/11/27		2017/11/27		
COC Number			540796-09-01		540796-09-01	540796-09-01		540796-10-01		
	UNITS	MAC	MB11-OS	QC Batch	MB12-OS	MB13-OS	QC Batch	MB14-OS	RDL	QC Batch
Total Metals by ICPMS										
Total Lead (Pb)	ug/L	10	**18.9**	8848411	7.70	0.37	8848362	**32.4**	0.20	8848333

No Fill — No Exceedance
Grey — Exceeds 1 criteria policy/level
Black — Exceeds both criteria/levels
RDL = Reportable Detection Limit

Maxxam ID			SO7053		SO7054	SO7055		SO7056		
Sampling Date			2017/11/27		2017/11/27	2017/11/27		2017/11/27		
COC Number			540796-10-01		540796-10-01	540796-10-01		540796-10-01		
	UNITS	MAC	MB15-OS	QC Batch	DB01-OS	DB02-OS	QC Batch	DB03-OS	RDL	QC Batch
Total Metals by ICPMS										
Total Lead (Pb)	ug/L	10	**13.7**	8848333	3.23	8.49	8848362	4.75	0.20	8848411

No Fill — No Exceedance
Grey — Exceeds 1 criteria policy/level
Black — Exceeds both criteria/levels
RDL = Reportable Detection Limit

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TETRA TECH CANADA INC.
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Sampler Initials: BB

ELEMENTS BY ATOMIC SPECTROSCOPY (DRINKING WATER)

Maxxam ID			SO7057	SO7058		SO7059		SO7060		
Sampling Date			2017/11/27	2017/11/27		2017/11/27		2017/11/27		
COC Number			540796-10-01	540796-10-01		540796-10-01		540796-10-01		
	UNITS	MAC	DB04-OS	DB05-OS	QC Batch	DB06-OS	QC Batch	DB07-OS	RDL	QC Batch
Total Metals by ICPMS										
Total Lead (Pb)	ug/L	10	1.55	1.20	8848362	3.92	8848333	3.65	0.20	8848411

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit

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Maxxam Job #: B7A6034
Report Date: 2017/12/05

TETRA TECH CANADA INC.
Client Project #: ENW.VENW03140-01
Sampler Initials: BB

ELEMENTS BY ATOMIC SPECTROSCOPY (DRINKING WATER)

Maxxam ID			SO7061		SO7062	SO7063		SO7064		
Sampling Date			2017/11/27		2017/11/27	2017/11/27		2017/11/27		
COC Number			540796-10-01		540796-11-01	540796-11-01		540796-11-01		
	UNITS	MAC	DB08-OS	QC Batch	DB09-OS	DB10-OS	QC Batch	DB11-OS	RDL	QC Batch
Total Metals by ICPMS										
Total Lead (Pb)	ug/L	10	4.72	8848362	0.81	1.19	8848411	3.08	0.20	8848944

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit

Maxxam ID			SO7065	SO7066		SO7067		SO7068		
Sampling Date			2017/11/27	2017/11/27		2017/11/27		2017/11/27		
COC Number			540796-11-01	540796-11-01		540796-11-01		540796-11-01		
	UNITS	MAC	DB12-OS	DB13-OS	QC Batch	DB14-OS	QC Batch	DB15-OS	RDL	QC Batch
Total Metals by ICPMS										
Total Lead (Pb)	ug/L	10	**125**	**41.2**	8848944	**35.9**	8848411	**18.2**	0.20	8848944

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit

Maxxam ID			SO7069	SO7070		SO7071	SO7072		
Sampling Date			2017/11/27	2017/11/27		2017/11/27	2017/11/27		
COC Number			540796-11-01	540796-11-01		540796-11-01	540796-12-01		
	UNITS	MAC	DB16-OS	DB17-OS	QC Batch	DB18-OS	WS28-OS	RDL	QC Batch
Total Metals by ICPMS									
Total Lead (Pb)	ug/L	10	**19.1**	7.95	8848944	0.83	9.57	0.20	8850025

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit

Maxxam ID			SO7073		
Sampling Date			2017/11/27		
COC Number			540796-12-01		
	UNITS	MAC	WS29-OS	RDL	QC Batch
Total Metals by ICPMS					
Total Lead (Pb)	ug/L	10	8.73	0.20	8848944

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit

Maxxam Analytics International Corporation o/a Maxxam Analytics Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Maxxam Job #: B7A6034
Report Date: 2017/12/05

TETRA TECH CANADA INC.
Client Project #: ENW.VENW03140-01
Sampler Initials: BB

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	8.7°C
Package 2	10.3°C

Samples in one of the two coolers received were over temperature (past 10 degree average).
Samples received with incomplete Chain of Custody. Sampling times not provided.
All Chain of Custodies except 540796-06-01 were received with no relinquished date, time or signature.
MAC: The guidelines that have been included in this report have been taken from the Canadian Drinking Water Quality Summary Table, February 2017.

Criteria A = Maximum Acceptable Concentration (MAC) / Criteria B = Aesthetic Objectives (AO) / Criteria C = Operational Guidance Values (OG)
It is recommended to consult these guidelines when interpreting your data since there are non-numerical guidelines that are not included on this report.

Turbidity Guidelines:
1. Chemically assisted filtration: less than or equal to 0.3 NTU in 95% of the measurements or 95% of the time each month. Shall not exceed 1.0 NTU at any time.
2. Slow sand / diatomaceous earth filtration: less than or equal to 1.0 NTU in 95% of the measurements or 95% of the time each month. Shall not exceed 3.0 NTU at any time.
3. Membrane filtration: less than or equal to 0.1 NTU in 99% of the measurements made or at least 99% of the time each calendar month. Shall not exceed 0.3 NTU at any time.

Results relate only to the items tested.

Maxxam Analytics International Corporation o/a Maxxam Analytics Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

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Report Date: 2017/12/05

QUALITY ASSURANCE REPORT

TETRA TECH CANADA INC.
Client Project #: ENW.VENW03140-01
Sampler Initials: BB

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8848333	Total Lead (Pb)	2017/12/04	100	80 - 120	99	80 - 120	<0.20	ug/L	2.0	20
8848362	Total Lead (Pb)	2017/12/02	93	80 - 120	98	80 - 120	<0.20	ug/L	0.22	20
8848411	Total Lead (Pb)	2017/12/02	98	80 - 120	100	80 - 120	<0.20	ug/L	0.76	20
8848944	Total Lead (Pb)	2017/12/04	NC	80 - 120	98	80 - 120	<0.20	ug/L	3.2	20
8850025	Total Lead (Pb)	2017/12/04	99	80 - 120	98	80 - 120	<0.20	ug/L	1.6	20

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

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

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

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

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

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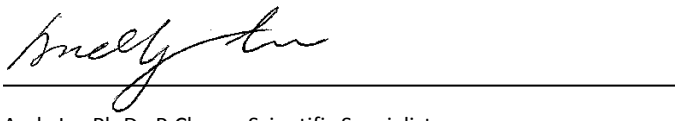
Maxxam Job #: B7A6034
Report Date: 2017/12/05

TETRA TECH CANADA INC.
Client Project #: ENW.VENW03140-01
Sampler Initials: BB

VALIDATION SIGNATURE PAGE

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



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

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Maxxam
A Bureau Veritas Group Company

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

Page 1 of 7

B7A6034_COC

C#540796-06-01

Bottle Order #: 540796

Project Manager: Letitia Prefontaine

INVOICE TO:		Report Information		Project Information	
Company Name	#1433 TETRA TECH CANADA INC.	Company Name		Quotation #	B60578
Contact Name	Shawneen Walker	Contact Name	Shawneen Walker	P.O. #	
Address	#1 - 4376 BOBAN DRIVE NANAIMO BC V9T 6A7	Address		Project #	ENW.VENW03140-01
				Project Name	
Phone	(250) 756-2256 x Fax: (250) 756-2686 x	Phone	Fax:	Site #	
Email	Shawneen.Walker@tetratech.com; EBA.Labdata@tetra	Email	Shawneen.Walker@tetratech.com; EBA.Labdata@tetrat	Sampled By	BB

Regulatory Criteria:
- ☐ CSR
- ☐ CCME
- ☐ BC Water Quality
- ☐ Other _____

Special Instructions:

SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Metals Field Filtered ? (Y / N)	ANALYSIS REQUESTED (PLEASE BE SPECIFIC): Lead	# of Bottles	Comments
1		WS01-Os	27-Nov-17		Water		✓		
2		WS02-Os					✓		
3		WS03-Os					✓		
4		WS04-Os					✓		
5		WS05-Os					✓		
6		WS06-Os					✓		
7		WS07-Os					✓		
8		WS08-Os					✓		
9		WS09-Os					✓		
10		WS10-Os	↓		↓		✓		

Turnaround Time (TAT) Required:

Please provide advance notice for rush projects

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

Job Specific Rush TAT (if applies to entire submission)
1 DAY ☐ 2 Day ☐ 3 Day ☐ Date Required: _____ ☐
Rush Confirmation Number: _____ (call lab for #)

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
[signature]	17/11/27	2:00pm	Maundeep Kaur Chana MANDEEPAS KAUR CHANA	2017/11/28	~~11:07~~ 8:55 MCN	2017/11/28

Lab Use Only

Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
☐	9,9,8 (ICE PRESENT)	N/A ☐ Yes ☐ No

10,10,11 (ICE N/A)

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

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B7A6034_COC

Bottle Order #: 540796

C#540796-07-01

Project Manager: Letitia Prefontaine

INVOICE TO:		Report Information		Project Information	
Company Name	#1433 TETRA TECH CANADA INC.	Company Name		Quotation #	B60578
Contact Name	Shawneen Walker	Contact Name	Shawneen Walker	P.O. #	
Address	#1 - 4376 BOBAN DRIVE NANAIMO BC V9T 6A7	Address		Project #	ENW.VENW03140-01
				Project Name	
Phone	(250) 756-2256 x Fax: (250) 756-2686 x	Phone	Fax:	Site #	
Email	Shawneen.Walker@tetratech.com; EBA.Labdata@tetra	Email	Shawneen.Walker@tetratech.com; EBA.Labdata@tetrat	Sampled By	BB

Regulatory Criteria:
- ☐ CSR
- ☐ CCME
- ☐ BC Water Quality
- ☐ Other _____

Special Instructions:

SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Metals Field Filtered ? (Y / N)	Lead	HWCD								# of Bottles	Comments
1		WS11-0s	27-Nov-17		Water		✓										
2		WS12-0s					✓										
3		WS13-0s					✓										
4		WS14-0s					✓										
5		WS15-0s					✓										
6		WS16-0s						✓									
7		WS17-0s						✓									
8		WS18-0s						✓									
9		WS19-0s						✓									
10		WS20-0s						✓									

Turnaround Time (TAT) Required:

Please provide advance notice for rush projects

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

Job Specific Rush TAT (if applies to entire submission)
1 DAY ☐ 2 Day ☐ 3 Day ☐ Date Required: _____ ☐
Rush Confirmation Number: _____ (call lab for #)

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
			Mandhraj Kaur Chana MANANERAJ KAR CHANA	2017/11/28	~~11:09~~ MON 8:55	2017/11/28

Lab Use Only: Time Sensitive ☐ | Temperature (°C) on Receipt: 9,9,8 (ICE PRESENT) N/A | Custody Seal Intact on Cooler? ☐ Yes ☐ No

10, 10, 11 (ICE N/A)

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

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B7A6034_COC

Bottle Order #: 540796

Project Manager: Letitia Prefontaine

C#540796-08-01

INVOICE TO:		Report Information		Project Information	
Company Name	#1433 TETRA TECH CANADA INC.	Company Name		Quotation #	B60578
Contact Name	Shawneen Walker	Contact Name	Shawneen Walker	P.O. #	
Address	#1 - 4376 BOBAN DRIVE NANAIMO BC V9T 6A7	Address		Project #	ENW.VENW03140-01
				Project Name	
Phone	(250) 756-2256 x Fax: (250) 756-2686 x	Phone	Fax:	Site #	
Email	Shawneen.Walker@tetratech.com; EBA.Labdata@tetra	Email	Shawneen.Walker@tetratech.com; EBA.Labdata@tetrat	Sampled By	

Regulatory Criteria:
- ☐ CSR
- ☐ CCME
- ☐ BC Water Quality
- ☐ Other

Special Instructions

SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Metals Field Filtered ? (Y / N)	Lead	HOCD								# of Bottles	Comments
1		WS21-Os	27-Nov-17		Water			✓									
2		WS22-Os	"		"		✓										
3		WS23-Os					✓										
4		WS24-Os					✓										
5		WS25-Os					✓										
6		WS26-Os					✓										
7		WS27-Os					✓										
8		MB01-Os					✓										
9		MB02-Os					✓										
10		MB03-Os	↓		↓		✓										

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Turnaround Time (TAT) Required:

Please provide advance notice for rush projects

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

Job Specific Rush TAT (if applies to entire submission)
1 DAY ☐ 2 Day ☐ 3 Day ☐ Date Required: _____ ☐
Rush Confirmation Number: _____ *(call lab for #)*

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
			Mandhirraj Kaur Channa MANDHERAJ KAURCHANA	2017/11/28	8:55	

Lab Use Only

Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
☐	9,9,8 (ICE PRESENT) N/A	☐ Yes ☐ No

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10, 10, 11 (ICE N/A)

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B7A6034_COC

Bottle Order #: 540796

INVOICE TO:		Report Information		Project Information	
Company Name	#1433 TETRA TECH CANADA INC.	Company Name		Quotation #	B60578
Contact Name	Shawneen Walker	Contact Name	Shawneen Walker	P.O. #	
Address	#1 - 4376 BOBAN DRIVE NANAIMO BC V9T 6A7	Address		Project #	ENW.VENW03140-01
				Project Name	
Phone	(250) 756-2256 x Fax: (250) 756-2686 x	Phone	Fax:	Site #	
Email	Shawneen.Walker@tetratech.com; EBA.Labdata@tetra	Email	Shawneen.Walker@tetratech.com; EBA.Labdata@tetrat	Sampled By	

C#540796-09-01

*roject Manager: Letitia Prefontaine

Regulatory Criteria:
- [ ] CSR
- [ ] CCME
- [ ] BC Water Quality
- [ ] Other _____

Special Instructions

Turnaround Time (TAT) Required:

Please provide advance notice for rush projects

Regular (Standard) TAT:
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Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
1 DAY [ ] 2 Day [ ] 3 Day [ ] Date Required: _____
Rush Confirmation Number: _____ (call lab for #)

SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Metals Field Filtered ? (Y / N)	Lead	# of Bottles	Comments
1		MB04-Os	27-Nov-17		Water		✓		
2		MB05-Os					✓		
3		MB06-Os					✓		
4		MB07-Os					✓		
5		MB08-Os					✓		
6		MB09-Os					✓		
7		MB10-Os					✓		
8		MB11-Os					✓		
9		MB12-Os					✓		
10		MB13-Os	↓		↓		✓		

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
			Manmeherjit Kaur Chana MANMEHERJIT KAUR CHANA	2017/11/28	8:55	

Lab Use Only: Time Sensitive [ ] | Temperature (°C) on Receipt: 9,9,8 (ICE PRESENT) N/A | Custody Seal Intact on Cooler? [ ] Yes [ ] No

10, 10, 11 (ICE N/A)

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B7A6034_COC

Bottle Order #: 540796

Project Manager: Latitia Prefontaine

C#540796-10-01

INVOICE TO:		Report Information		Project Information	
Company Name	#1433 TETRA TECH CANADA INC.	Company Name		Quotation #	B60578
Contact Name	Shawneen Walker	Contact Name	Shawneen Walker	P.O. #	
Address	#1 - 4376 BOBAN DRIVE NANAIMO BC V9T 6A7	Address		Project #	ENW.VENW03140-01
Phone	(250) 756-2256 x Fax: (250) 756-2686 x	Phone	Fax:	Project Name	
Email	Shawneen.Walker@tetratech.com; EBA.Labdata@tetra	Email	Shawneen.Walker@tetratech.com; EBA.Labdata@tetrat	Site #	
				Sampled By	

Regulatory Criteria:
- [ ] CSR
- [ ] CCME
- [ ] BC Water Quality
- [ ] Other _____

Special Instructions

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Turnaround Time (TAT) Required:

Please provide advance notice for rush projects

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

Job Specific Rush TAT (if applies to entire submission)
1 DAY [ ] 2 Day [ ] 3 Day [ ] Date Required: _____ [ ]
Rush Confirmation Number: _____ *(call lab for #)*

SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Metals Field Filtered ? (Y / N)	Lead	# of Bottles	Comments
1		MB14-05	27-Nov-17		Wate		✓		
2		MB15-05	"		"		✓		
3		DB01-05	"		"		✓		
4		DB02-05	"		"		✓		
5		DB03-05	"		"		✓		
6		DB04-05	"		"		✓		
7		DB05-05	"		"		✓		
8		DB06-05	"		"		✓		
9		DB07-05	"		"		✓		
10		DB08-05	✓		✓		✓		

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
			Manotheraj Kaur Chana MANDHERAJ KAUR CHANA	2017/11/28	8:55	

Lab Use Only

Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
[ ]	9,9,8 (ICE PRESENT)	N/A [ ] Yes [ ] No

10, 10, 11 (ICE N/A)

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B7A6034_COC

C#540796-11-01

Bottle Order #: 540796

Project Manager: Letitia Prefontaine

INVOICE TO:		Report Information		Project Information	
Company Name	#1433 TETRA TECH CANADA INC.	Company Name		Quotation #	B60578
Contact Name	Shawneen Walker	Contact Name	Shawneen Walker	P.O. #	
Address	#1 - 4376 BOBAN DRIVE NANAIMO BC V9T 6A7	Address		Project #	ENW.VENW03140-01
				Project Name	
Phone	(250) 756-2256 x Fax: (250) 756-2686 x	Phone	Fax:	Site #	
Email	Shawneen.Walker@tetratech.com; EBA.Labdata@tetra	Email	Shawneen.Walker@tetratech.com; EBA.Labdata@tetrat	Sampled By	

Regulatory Criteria:
- [ ] CSR
- [ ] CCME
- [ ] BC Water Quality
- [ ] Other

Special Instructions

Metals Field Filtered ? (Y / N)

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Turnaround Time (TAT) Required:

Please provide advance notice for rush projects

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

Job Specific Rush TAT (if applies to entire submission)
1 DAY [ ] 2 Day [ ] 3 Day [ ] Date Required: _____ [ ]
Rush Confirmation Number: _____ *(call lab for #)*

SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Metals Field Filtered ? (Y / N)	Lead										# of Bottles	Comments
1		DB09-0s	27-Nov-17		Water		✓											
2		DB10-0s	"		"		✓											
3		DB11-0s					✓											
4		DB12-0s					✓											
5		DB13-0s					✓											
6		DB14-0s					✓											
7		DB15-0s					✓											
8		DB16-0s					✓											
9		DB17-0s					✓											
10		DB18-0s	"		"		✓											

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Lab Use Only: Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
			Maindheraj Kaur Chana MANDHERAJ KAUR CHANA	2017/11/28	8:55		[ ]	9,9,8 (ICE PRESENT)	[ ] Yes [ ] No N/A

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10, 10, 11 (ICE N/A).

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B7A6034_COC

Bottle Order #: 540796

Project Manager: Letitia Prefontaine

C#540796-12-01

INVOICE TO:		Report Information		Project Information	
Company Name	#1433 TETRA TECH CANADA INC.	Company Name		Quotation #	B60578
Contact Name	Shawneen Walker	Contact Name	Shawneen Walker	P.O. #	
Address	#1 - 4376 BOBAN DRIVE NANAIMO BC V9T 6A7	Address		Project #	ENW.VENW03140-01
Phone	(250) 756-2256 x Fax: (250) 756-2686 x	Phone	Fax:	Project Name	
Email	Shawneen.Walker@tetratech.com; EBA.Labdata@tetra	Email	Shawneen.Walker@tetratech.com; EBA.Labdata@tetrat	Site #	
				Sampled By	

Regulatory Criteria:
- [ ] CSR
- [ ] CCME
- [ ] BC Water Quality
- [ ] Other

Special Instructions

SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Turnaround Time (TAT) Required:

Please provide advance notice for rush projects

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

Job Specific Rush TAT (if applies to entire submission)
1 DAY [ ] 2 Day [ ] 3 Day [ ] Date Required: _____
Rush Confirmation Number: _____ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Metals Field Filtered ? (Y / N)	Lead	# of Bottles	Comments
1		WS28-OS	27-Nov-17		Water		✓		
2		WS29-OS	↓		↓		✓		
3									
4									
5									
6									
7									
8									
9									
10									

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
			Mandheraj Kaur Chana MANDHEERAJ KAUR CHANA	2017/11/28	8:55	

Lab Use Only

Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
[ ]	9,9,8 (ICE PRESENT)	N/A [ ] Yes [ ] No

10, 10, 11 (ICE N/A)

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