

**Report Transmission Cover Page**

Bill To: City of Parksville 1116 Herring Gull Way Parksville, BC, Canada V9P 1R2	Project ID: Project Name: THM + HAA Project Location: LSD: P.O.:	Lot ID: <b>1694376</b> Control Number: Date Received: Nov 15, 2023 Date Reported: Nov 21, 2023 Report Number: 2943469
Attn: Accounts Payable Sampled By: Barb Silenieks Company: City of Parksville	Proj. Acct. code:	

Contact	Company	Address
<b>Accounts Payable</b>	<b>City of Parksville</b>	1116 Herring Gull Way Parksville, BC V9P 1R2 Phone: (250) 951-2489 Fax: Email: ap@parksville.ca
<u>Delivery</u>	<u>Format</u>	<u>Deliverables</u>
Email	PDF	Invoice
<b>Barbara Silenieks</b>	<b>City of Parksville</b>	1116 Herring Gull Way Parksville, BC V9P 1R2 Phone: (250) 951-2489 Fax: Email: bsilenieks@parksville.ca
<u>Delivery</u>	<u>Format</u>	<u>Deliverables</u>
Email	PDF	COA
Email - Merge	PDF	COC / Test Report
Email - Merge	Standard Crosstab Without Tabs	Test Report

**Notes To Clients:**

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## Analytical Report

Bill To: City of Parksville 1116 Herring Gull Way Parksville, BC, Canada V9P 1R2	Project ID: Project Name: THM + HAA Project Location: LSD: P.O.:	Lot ID: <b>1694376</b> Control Number: Date Received: Nov 15, 2023 Date Reported: Nov 21, 2023 Report Number: 2943469
Attn: Accounts Payable	Proj. Acct. code:	
Sampled By: Barb Silenieks		
Company: City of Parksville		


	Reference Number	1694376-1	1694376-2	1694376-3		
	Sample Date	Nov 14, 2023	Nov 14, 2023	Nov 14, 2023		
	Sample Time	09:15	09:30	09:40		
	Sample Location					
	Sample Description	Community Park / 5.6 °C	Temple / 5.6 °C	Ermieskin / 5.6 °C		
	Matrix	Water	Water	Water		
Analyte	Units	Results	Results	Results	Nominal Detection Limit	
<b>Haloacetic Acids - Water</b>						
Monochloroacetic Acid	µg/L	<2.0	<2.0	<2.0	2.0	
Monobromoacetic Acid	µg/L	<2.0	<2.0	<2.0	2.0	
Dichloroacetic Acid	µg/L	7.4	4.5	<2.0	2.0	
Trichloroacetic Acid	µg/L	5.2	3.1	<2.0	2.0	
Bromochloroacetic Acid	µg/L	<2.0	<2.0	<2.0	2.0	
Dibromoacetic Acid	µg/L	<2.0	<2.0	<2.0	2.0	
Total Haloacetic Acids (HAA6)	µg/L	12.6	7.5	<12.0	12.0	
2,3-Dibromopropionic acid	%	96	94	100	50-150	
<b>VOC Screen - Water</b>						
Bromodichloromethane	µg/L	4.5	4.6	1.9	0.5	
Bromoform	µg/L	0.7	1.0	1.0	0.5	
Chloroform	µg/L	19.2	11.5	2.8	0.5	
Dibromochloromethane	µg/L	2.5	3.5	2.3	0.5	
Total Trihalomethanes	µg/L	26.9	20.6	8.0		
<b>VOC - Water - Surrogate Recovery</b>						
Bromofluorobenzene	EPA Surrogate	%	104	106	105	50-140
Dibromofluoromethane	EPA Surrogate	%	90	101	92	50-140
Toluene-d8	EPA Surrogate	%	107	111	107	50-140

**Analytical Report**

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<b>Reference Number</b>	1694376-4	1694376-5
<b>Sample Date</b>	Nov 14, 2023	Nov 14, 2023
<b>Sample Time</b>	08:30	08:20
<b>Sample Location</b>		
<b>Sample Description</b>	Public Works / 5.6 °C	WTP / 5.6 °C

Analyte	Matrix	Units	Results		Nominal Detection Limit
			Water	Water	
<b>Haloacetic Acids - Water</b>					
Monochloroacetic Acid		µg/L	<2.0	<2.0	2.0
Monobromoacetic Acid		µg/L	<2.0	<2.0	2.0
Dichloroacetic Acid		µg/L	9.7	8.2	2.0
Trichloroacetic Acid		µg/L	7.3	5.4	2.0
Bromochloroacetic Acid		µg/L	<2.0	<2.0	2.0
Dibromoacetic Acid		µg/L	<2.0	<2.0	2.0
Total Haloacetic Acids (HAA6)		µg/L	17.0	13.6	12.0
2,3-Dibromopropionic acid		%	100	97	50-150
<b>VOC Screen - Water</b>					
Bromodichloromethane		µg/L	4.0	1.6	0.5
Bromoform		µg/L	0.6	<0.5	0.5
Chloroform		µg/L	23.2	22.5	0.5
Dibromochloromethane		µg/L	1.9	<0.5	0.5
Total Trihalomethanes		µg/L	29.6	24.1	
<b>VOC - Water - Surrogate Recovery</b>					
Bromofluorobenzene	EPA Surrogate	%	105	102	50-140
Dibromofluoromethane	EPA Surrogate	%	93	91	50-140
Toluene-d8	EPA Surrogate	%	110	104	50-140

Approved by:   
 Mike Yohemas, BSc  
 General Manager

**Methodology and Notes**

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**Method of Analysis**

Method Name	Reference	Method	Date Analysis Started	Location
Haloacetic Acids - Water	US EPA	* Determination of Haloacetic Acids and Dalapon in drinking water by liquid-liquid microextraction, derivatization, and gas chromatography with electron capture detection, 552.3	Nov 16, 2023	Element Calgary
VOC - BC Water	US EPA	* Volatile Organic Compounds by GCMS / Purge and Trap for Aqueous Samples, 8260/5030  <i>* Reference Method Modified</i>	Nov 15, 2023	Element Vancouver

**References**

US EPA                      US Environmental Protection Agency Test Methods

Please direct any inquiries regarding this report to our Client Services group.  
 Results relate only to samples as submitted.

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



Invoice To		Report To		Additional Reports to	
Company:	City of Parksville	Company:	City of Parksville	1) Name:	
Address:		Address:		E-mail:	
Attention:		Attention:		2) Name:	
Phone:		Phone:		E-mail:	
Cell:		Cell:		<b>Sample Custody</b> Sampled by: <u>Barb Silenick</u> Company: City of Parksville I authorize Element to proceed with the work indicated on this form: Signature: <u>[Signature]</u> Date/Time: <u>Nov. 14 10:30</u>	
E-mail:		Fax:			
Government Funded Work	YES / NO	E-mail 1:			
SRP #		E-mail 2:			
Agreement ID:		Copy of Invoice:	YES / NO		

**Project Information**

Project ID: \_\_\_\_\_

Project Name: THM + HAA

Project Location: \_\_\_\_\_

Legal Location: \_\_\_\_\_

PO/AFE#: \_\_\_\_\_

Proj. Acct. Code: \_\_\_\_\_

Quote #: \_\_\_\_\_

**RUSH Priority**

Same Day (200%)  
 Next Day/Two Day (100%)  
 Three or Four Days (50%)  
 5 to 7 Days (Regular TAT)

When "ASAP" is requested, turn around will default to a 100% RUSH priority, with pricing and turn around time to match. Please contact the lab prior to submitting RUSH samples. If not all samples require RUSH, please indicate in the special instructions.

**Report Results**

Email     QA/QC  
 Online     PDF  
 Fax     Excel

**Requirements**

HCDWQ     SPIGEC  
 AB Tier 1     BCCSR  
 Other (list below)

Date Required \_\_\_\_\_

Special Instructions/Comments (please include contact information including phone number if different from above).

Site I.D.	Sample Description	Depth start end in cm m	Date/Time sampled	Matrix	Sampling method	#	Number of Containers	MeOH Field Preserved?	Enter tests above (✓ relevant samples below)													
1	Community Park		Nov. 14 9:15			4			✓	✓												
2	Temple		Nov. 14 9:30			4			✓	✓												
3	Ermineskin		Nov. 14 9:40			4			✓	✓												
4	Public Works		Nov. 14 8:30			4			✓	✓												
5	WTP		Nov. 14 8:20			4			✓	✓												
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						

Please indicate any potentially hazardous samples

[Submission of this form acknowledges acceptance of Element's Standard of terms and conditions \(https://www.element.com/terms/terms-and-conditions\)](https://www.element.com/terms/terms-and-conditions)

Page \_\_\_\_\_ of \_\_\_\_\_ Control # \_\_\_\_\_

ED 120-06

Lot # or affix barcode here

Lot: 1694376 COC

Temp. received: 5.6 °C

Date/Time stamp: 23 NOV 15 9:09

Delivery Method: Carried

Waybill: \_\_\_\_\_

Received by: [Signature]