

**Report Transmission Cover Page**

Bill To: City of Parksville 1116 Herring Gull Way Parksville, BC, Canada V9P 1R2	Project ID: Project Name: Full Spectrum Project Location: LSD: P.O.:	Lot ID: <b>1695092</b> Control Number: Date Received: Nov 17, 2023 Date Reported: Nov 23, 2023 Report Number: 2944821
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:**

- Nov 20, 2023 - Sample 1695092-1; 8988877: Reduction of analytical volume was necessary for chloride analysis to bring results within the analytical range for sample 1695092-1. Detection limits are adjusted accordingly.

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## Analytical Report

Bill To: City of Parksville 1116 Herring Gull Way Parksville, BC, Canada V9P 1R2	Project ID: Project Name: Full Spectrum Project Location: LSD: P.O.:	Lot ID: <b>1695092</b> Control Number: Date Received: Nov 17, 2023 Date Reported: Nov 23, 2023 Report Number: 2944821
Attn: Accounts Payable Sampled By: Barb Silenieks Company: City of Parksville	Proj. Acct. code:	

<b>Reference Number</b>	1695092-1
<b>Sample Date</b>	November 15, 2023
<b>Sample Time</b>	10:25
<b>Sample Location</b>	
<b>Sample Description</b>	Railway # 1 / 12.2 °C
<b>Sample Matrix</b>	Water

Analyte	Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments	
<b>Inorganic Nonmetallic Parameters</b>						
Cyanide	Total	mg/L	<0.002	0.002	0.2	Below MAC
<b>Metals Total</b>						
Calcium	Total	mg/L	34	0.01		
Magnesium	Total	mg/L	17	0.02		
Potassium	Total	mg/L	0.93	0.04		
Silicon	Total	mg/L	11	0.005		
Sodium	Total	mg/L	8.2	0.1	200	Below AO
Digestion	Preparation		Field Pres, digest as total Hg			
Mercury	Total	mg/L	<0.00001	0.00001	0.001	Below MAC
<b>Physical and Aggregate Properties</b>						
Colour	True	Colour units	<5	5		
Turbidity		NTU	0.12	0.1	0.1/0.3/1.0 OG	
<b>Routine Water</b>						
Digestion	Dissolved		Lab filtered & preserved Exceeded			
pH - Holding Time						
pH	at 25 °C		7.61	0.01	7.0-10.5	Within Range
Electrical Conductivity		µS/cm at 25 °C	353	1		
T-Alkalinity	as CaCO3	mg/L	121	5		
Chloride	Dissolved	mg/L	32.0	0.05	250	Below AO
Fluoride	Dissolved	mg/L	0.03	0.01	1.5	Below MAC
Nitrate - N	Dissolved	mg/L	1.36	0.01	10	Below MAC
Nitrite - N	Dissolved	mg/L	<0.01	0.01	1	Below MAC
Sulfate (SO4)	Dissolved	mg/L	7.4	0.1	500	Below AO
Hardness	as CaCO3 (dissolved)	mg/L	161	5		
Total Dissolved Solids	Calculated	mg/L	211	1	500	Below AO
Langelier Index			-0.2			
<b>Trace Metals Total</b>						
Aluminum	Total	mg/L	0.005	0.001	0.1 OG; 2.9 MAC	Below OG
Antimony	Total	mg/L	0.00002	0.00002	0.006	Below MAC
Arsenic	Total	mg/L	0.0004	0.0001	0.010	Below MAC
Barium	Total	mg/L	0.018	0.0001	2.0	Below MAC
Boron	Total	mg/L	0.014	0.002	5	Below MAC
Cadmium	Total	mg/L	<0.00001	0.00001	0.007	Below MAC
Chromium	Total	mg/L	0.0011	0.00005	0.05	Below MAC
Copper	Total	mg/L	0.0018	0.0002	1 AO; 2 MAC	Below AO
Iron	Total	mg/L	0.081	0.002	0.3	Below AO
Lead	Total	mg/L	0.00021	0.00001	0.005	Below MAC

**Analytical Report**

Bill To: City of Parksville 1116 Herring Gull Way Parksville, BC, Canada V9P 1R2	Project ID: Project Name: Full Spectrum Project Location: LSD: P.O.:	Lot ID: <b>1695092</b> Control Number: Date Received: Nov 17, 2023 Date Reported: Nov 23, 2023 Report Number: 2944821
Attn: Accounts Payable Sampled By: Barb Silenieks Company: City of Parksville	Proj. Acct. code:	

<b>Reference Number</b>	1695092-1
<b>Sample Date</b>	November 15, 2023
<b>Sample Time</b>	10:25
<b>Sample Location</b>	
<b>Sample Description</b>	Railway # 1 / 12.2 °C
<b>Sample Matrix</b>	Water

Analyte	Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
<b>Trace Metals Total - Continued</b>					
Manganese	Total	mg/L	0.009	0.001	0.02 AO; 0.12 MAC
Selenium	Total	mg/L	0.0002	0.0002	0.05
Strontium	Total	mg/L	0.11	0.0001	7.0
Uranium	Total	mg/L	0.00037	0.00001	0.02
Zinc	Total	mg/L	0.0040	0.0005	5.0

## Analytical Report

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Attn: Accounts Payable Sampled By: Barb Silenieks Company: City of Parksville	Proj. Acct. code:	

<b>Reference Number</b>	1695092-2
<b>Sample Date</b>	November 15, 2023
<b>Sample Time</b>	10:05
<b>Sample Location</b>	
<b>Sample Description</b>	Railway # 6 / 12.2 °C
<b>Sample Matrix</b>	Water

Analyte	Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments	
<b>Inorganic Nonmetallic Parameters</b>						
Cyanide	Total	mg/L	<0.002	0.002	0.2	Below MAC
<b>Metals Total</b>						
Calcium	Total	mg/L	28	0.01		
Magnesium	Total	mg/L	14	0.02		
Potassium	Total	mg/L	0.95	0.04		
Silicon	Total	mg/L	12	0.005		
Sodium	Total	mg/L	9.1	0.1	200	Below AO
Digestion	Preparation		Field Pres, digest as total Hg			
Mercury	Total	mg/L	<0.00001	0.00001	0.001	Below MAC
<b>Physical and Aggregate Properties</b>						
Colour	True	Colour units	<5	5		
Turbidity		NTU	0.15	0.1	0.1/0.3/1.0 OG	
<b>Routine Water</b>						
Digestion	Dissolved		Lab filtered & preserved Exceeded			
pH - Holding Time						
pH	at 25 °C		7.49	0.01	7.0-10.5	Within Range
Electrical Conductivity		µS/cm at 25 °C	300	1		
T-Alkalinity	as CaCO3	mg/L	110	5		
Chloride	Dissolved	mg/L	25.3	0.05	250	Below AO
Fluoride	Dissolved	mg/L	0.03	0.01	1.5	Below MAC
Nitrate - N	Dissolved	mg/L	0.86	0.01	10	Below MAC
Nitrite - N	Dissolved	mg/L	<0.01	0.01	1	Below MAC
Sulfate (SO4)	Dissolved	mg/L	4.9	0.1	500	Below AO
Hardness	as CaCO3 (dissolved)	mg/L	130	5		
Total Dissolved Solids	Calculated	mg/L	186	1	500	Below AO
Langelier Index			-0.4			
<b>Trace Metals Total</b>						
Aluminum	Total	mg/L	0.005	0.001	0.1 OG; 2.9 MAC	Below OG
Antimony	Total	mg/L	0.00003	0.00002	0.006	Below MAC
Arsenic	Total	mg/L	0.0005	0.0001	0.010	Below MAC
Barium	Total	mg/L	0.017	0.0001	2.0	Below MAC
Boron	Total	mg/L	0.013	0.002	5	Below MAC
Cadmium	Total	mg/L	0.00003	0.00001	0.007	Below MAC
Chromium	Total	mg/L	0.00073	0.00005	0.05	Below MAC
Copper	Total	mg/L	0.0005	0.0002	1 AO; 2 MAC	Below AO
Iron	Total	mg/L	0.026	0.002	0.3	Below AO
Lead	Total	mg/L	0.00003	0.00001	0.005	Below MAC

**Analytical Report**

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Attn: Accounts Payable Sampled By: Barb Silenieks Company: City of Parksville	Proj. Acct. code:	

<b>Reference Number</b>	1695092-2
<b>Sample Date</b>	November 15, 2023
<b>Sample Time</b>	10:05
<b>Sample Location</b>	
<b>Sample Description</b>	Railway # 6 / 12.2 °C
<b>Sample Matrix</b>	Water

Analyte	Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
<b>Trace Metals Total - Continued</b>					
Manganese	Total	mg/L	0.005	0.001	0.02 AO; 0.12 MAC
Selenium	Total	mg/L	<0.0002	0.0002	0.05
Strontium	Total	mg/L	0.086	0.0001	7.0
Uranium	Total	mg/L	0.00034	0.00001	0.02
Zinc	Total	mg/L	0.0013	0.0005	5.0

## Analytical Report

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Attn: Accounts Payable Sampled By: Barb Silenieks Company: City of Parksville	Proj. Acct. code:	

<b>Reference Number</b>	1695092-3
<b>Sample Date</b>	November 15, 2023
<b>Sample Time</b>	09:45
<b>Sample Location</b>	
<b>Sample Description</b>	Springwood # 7 / 12.2 °C
<b>Sample Matrix</b>	Water

Analyte	Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments	
<b>Inorganic Nonmetallic Parameters</b>						
Cyanide	Total	mg/L	<0.002	0.002	0.2	Below MAC
<b>Metals Total</b>						
Calcium	Total	mg/L	48	0.01		
Magnesium	Total	mg/L	24	0.02		
Potassium	Total	mg/L	1.1	0.04		
Silicon	Total	mg/L	12	0.005		
Sodium	Total	mg/L	8.7	0.1	200	Below AO
Digestion	Preparation		Field Pres, digest as total Hg			
Mercury	Total	mg/L	<0.00001	0.00001	0.001	Below MAC
<b>Physical and Aggregate Properties</b>						
Colour	True	Colour units	<5	5		
Turbidity		NTU	0.25	0.1	0.1/0.3/1.0 OG	
<b>Routine Water</b>						
Digestion	Dissolved		Lab filtered & preserved Exceeded			
pH - Holding Time						
pH	at 25 °C		7.47	0.01	7.0-10.5	Within Range
Electrical Conductivity		µS/cm at 25 °C	456	1		
T-Alkalinity	as CaCO3	mg/L	199	5		
Chloride	Dissolved	mg/L	22.1	0.05	250	Below AO
Fluoride	Dissolved	mg/L	0.02	0.01	1.5	Below MAC
Nitrate - N	Dissolved	mg/L	1.14	0.01	10	Below MAC
Nitrite - N	Dissolved	mg/L	<0.01	0.01	1	Below MAC
Sulfate (SO4)	Dissolved	mg/L	8.2	0.1	500	Below AO
Hardness	as CaCO3 (dissolved)	mg/L	220	5		
Total Dissolved Solids	Calculated	mg/L	273	1	500	Below AO
Langelier Index			0.03			
<b>Trace Metals Total</b>						
Aluminum	Total	mg/L	0.002	0.001	0.1 OG; 2.9 MAC	Below OG
Antimony	Total	mg/L	0.00009	0.00002	0.006	Below MAC
Arsenic	Total	mg/L	0.0003	0.0001	0.010	Below MAC
Barium	Total	mg/L	0.0087	0.0001	2.0	Below MAC
Boron	Total	mg/L	0.011	0.002	5	Below MAC
Cadmium	Total	mg/L	<0.00001	0.00001	0.007	Below MAC
Chromium	Total	mg/L	0.00073	0.00005	0.05	Below MAC
Copper	Total	mg/L	0.0023	0.0002	1 AO; 2 MAC	Below AO
Iron	Total	mg/L	0.037	0.002	0.3	Below AO
Lead	Total	mg/L	0.00062	0.00001	0.005	Below MAC

**Analytical Report**

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Attn: Accounts Payable Sampled By: Barb Silenieks Company: City of Parksville	Proj. Acct. code:	

<b>Reference Number</b>	1695092-3
<b>Sample Date</b>	November 15, 2023
<b>Sample Time</b>	09:45
<b>Sample Location</b>	
<b>Sample Description</b>	Springwood # 7 / 12.2 °C
<b>Sample Matrix</b>	Water

Analyte		Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
<b>Trace Metals Total - Continued</b>						
Manganese	Total	mg/L	0.016	0.001	0.02 AO; 0.12 MAC	Below AO
Selenium	Total	mg/L	<0.0002	0.0002	0.05	Below MAC
Strontium	Total	mg/L	0.13	0.0001	7.0	Below MAC
Uranium	Total	mg/L	0.00045	0.00001	0.02	Below MAC
Zinc	Total	mg/L	0.0024	0.0005	5.0	Below AO

## Analytical Report

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Attn: Accounts Payable Sampled By: Barb Silenieks Company: City of Parksville	Proj. Acct. code:	

<b>Reference Number</b>	1695092-4
<b>Sample Date</b>	November 15, 2023
<b>Sample Time</b>	09:25
<b>Sample Location</b>	
<b>Sample Description</b>	Ermieskin / 12.2 °C
<b>Sample Matrix</b>	Water

Analyte	Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments	
<b>Inorganic Nonmetallic Parameters</b>						
Cyanide	Total	mg/L	<0.002	0.002	0.2	Below MAC
<b>Metals Total</b>						
Calcium	Total	mg/L	34	0.01		
Magnesium	Total	mg/L	16	0.02		
Potassium	Total	mg/L	0.88	0.04		
Silicon	Total	mg/L	11	0.005		
Sodium	Total	mg/L	10	0.1	200	Below AO
Digestion	Preparation		Field Pres, digest as total Hg			
Mercury	Total	mg/L	<0.00001	0.00001	0.001	Below MAC
<b>Physical and Aggregate Properties</b>						
Colour	True	Colour units	<5	5		
Turbidity		NTU	<0.10	0.1	0.1/0.3/1.0 OG	
<b>Routine Water</b>						
Digestion	Dissolved		Lab filtered & preserved Exceeded			
pH - Holding Time						
pH	at 25 °C		7.46	0.01	7.0-10.5	Within Range
Electrical Conductivity		µS/cm at 25 °C	345	1		
T-Alkalinity	as CaCO3	mg/L	126	5		
Chloride	Dissolved	mg/L	27.6	0.05	250	Below AO
Fluoride	Dissolved	mg/L	0.03	0.01	1.5	Below MAC
Nitrate - N	Dissolved	mg/L	1.33	0.01	10	Below MAC
Nitrite - N	Dissolved	mg/L	<0.01	0.01	1	Below MAC
Sulfate (SO4)	Dissolved	mg/L	7.1	0.1	500	Below AO
Hardness	as CaCO3 (dissolved)	mg/L	153	5		
Total Dissolved Solids	Calculated	mg/L	209	1	500	Below AO
Langelier Index			-0.3			
<b>Trace Metals Total</b>						
Aluminum	Total	mg/L	0.003	0.001	0.1 OG; 2.9 MAC	Below OG
Antimony	Total	mg/L	0.00002	0.00002	0.006	Below MAC
Arsenic	Total	mg/L	0.0003	0.0001	0.010	Below MAC
Barium	Total	mg/L	0.012	0.0001	2.0	Below MAC
Boron	Total	mg/L	0.013	0.002	5	Below MAC
Cadmium	Total	mg/L	<0.00001	0.00001	0.007	Below MAC
Chromium	Total	mg/L	0.00057	0.00005	0.05	Below MAC
Copper	Total	mg/L	0.011	0.0002	1 AO; 2 MAC	Below AO
Iron	Total	mg/L	0.016	0.002	0.3	Below AO
Lead	Total	mg/L	0.00017	0.00001	0.005	Below MAC



**Analytical Report**

Bill To: City of Parksville 1116 Herring Gull Way Parksville, BC, Canada V9P 1R2	Project ID: Project Name: Full Spectrum Project Location: LSD: P.O.:	Lot ID: <b>1695092</b> Control Number: Date Received: Nov 17, 2023 Date Reported: Nov 23, 2023 Report Number: 2944821
Attn: Accounts Payable Sampled By: Barb Silenieks Company: City of Parksville	Proj. Acct. code:	

<b>Reference Number</b>	1695092-4
<b>Sample Date</b>	November 15, 2023
<b>Sample Time</b>	09:25
<b>Sample Location</b>	
<b>Sample Description</b>	Ermineskin / 12.2 °C
<b>Sample Matrix</b>	Water

Analyte		Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
<b>Trace Metals Total - Continued</b>						
Manganese	Total	mg/L	0.008	0.001	0.02 AO; 0.12 MAC	Below AO
Selenium	Total	mg/L	<0.0002	0.0002	0.05	Below MAC
Strontium	Total	mg/L	0.11	0.0001	7.0	Below MAC
Uranium	Total	mg/L	0.00025	0.00001	0.02	Below MAC
Zinc	Total	mg/L	0.012	0.0005	5.0	Below AO

## Analytical Report

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Attn: Accounts Payable Sampled By: Barb Silenieks Company: City of Parksville	Proj. Acct. code:	

<b>Reference Number</b>	1695092-5
<b>Sample Date</b>	November 15, 2023
<b>Sample Time</b>	10:45
<b>Sample Location</b>	
<b>Sample Description</b>	Works Yard / 12.2 °C
<b>Sample Matrix</b>	Water

Analyte	Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments	
<b>Inorganic Nonmetallic Parameters</b>						
Cyanide	Total	mg/L	<0.002	0.002	0.2	Below MAC
<b>Metals Total</b>						
Calcium	Total	mg/L	16	0.01		
Magnesium	Total	mg/L	5.9	0.02		
Potassium	Total	mg/L	0.42	0.04		
Silicon	Total	mg/L	5.6	0.005		
Sodium	Total	mg/L	10	0.1	200	Below AO
Digestion	Preparation		Field Pres, digest as total Hg			
Mercury	Total	mg/L	<0.00001	0.00001	0.001	Below MAC
<b>Physical and Aggregate Properties</b>						
Colour	True	Colour units	<5	5		
Turbidity		NTU	<0.10	0.1	0.1/0.3/1.0 OG	
<b>Routine Water</b>						
Digestion	Dissolved		Lab filtered & preserved Exceeded			
pH - Holding Time						
pH	at 25 °C		7.46	0.01	7.0-10.5	Within Range
Electrical Conductivity		µS/cm at 25 °C	184	1		
T-Alkalinity	as CaCO3	mg/L	65	5		
Chloride	Dissolved	mg/L	15.2	0.05	250	Below AO
Fluoride	Dissolved	mg/L	0.02	0.01	1.5	Below MAC
Nitrate - N	Dissolved	mg/L	0.53	0.01	10	Below MAC
Nitrite - N	Dissolved	mg/L	<0.01	0.01	1	Below MAC
Sulfate (SO4)	Dissolved	mg/L	3.6	0.1	500	Below AO
Hardness	as CaCO3 (dissolved)	mg/L	66	5		
Total Dissolved Solids	Calculated	mg/L	108	1	500	Below AO
Langelier Index			-0.9			
<b>Trace Metals Total</b>						
Aluminum	Total	mg/L	0.011	0.001	0.1 OG; 2.9 MAC	Below OG
Antimony	Total	mg/L	0.00002	0.00002	0.006	Below MAC
Arsenic	Total	mg/L	0.0001	0.0001	0.010	Below MAC
Barium	Total	mg/L	0.011	0.0001	2.0	Below MAC
Boron	Total	mg/L	0.010	0.002	5	Below MAC
Cadmium	Total	mg/L	<0.00001	0.00001	0.007	Below MAC
Chromium	Total	mg/L	0.00025	0.00005	0.05	Below MAC
Copper	Total	mg/L	0.015	0.0002	1 AO; 2 MAC	Below AO
Iron	Total	mg/L	0.013	0.002	0.3	Below AO
Lead	Total	mg/L	0.00025	0.00001	0.005	Below MAC

**Analytical Report**

Bill To: City of Parksville 1116 Herring Gull Way Parksville, BC, Canada V9P 1R2	Project ID: Project Name: Full Spectrum Project Location: LSD: P.O.:	Lot ID: <b>1695092</b> Control Number: Date Received: Nov 17, 2023 Date Reported: Nov 23, 2023 Report Number: 2944821
Attn: Accounts Payable Sampled By: Barb Silenieks Company: City of Parksville	Proj. Acct. code:	

<b>Reference Number</b>	1695092-5
<b>Sample Date</b>	November 15, 2023
<b>Sample Time</b>	10:45
<b>Sample Location</b>	
<b>Sample Description</b>	Works Yard / 12.2 °C
<b>Sample Matrix</b>	Water

Analyte	Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
<b>Trace Metals Total - Continued</b>					
Manganese	Total	mg/L	0.003	0.001	0.02 AO; 0.12 MAC
Selenium	Total	mg/L	<0.0002	0.0002	0.05
Strontium	Total	mg/L	0.049	0.0001	7.0
Uranium	Total	mg/L	0.00007	0.00001	0.02
Zinc	Total	mg/L	0.0065	0.0005	5.0

**Analytical Report**

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Attn: Accounts Payable Sampled By: Barb Silenieks Company: City of Parksville	Proj. Acct. code:	

<b>Reference Number</b>	1695092-6
<b>Sample Date</b>	November 20, 2023
<b>Sample Time</b>	10:30
<b>Sample Location</b>	
<b>Sample Description</b>	Railway # 1 / 1.6 °C
<b>Sample Matrix</b>	Water

Analyte	Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
<b>Microbiological Analysis</b>					
Total Coliforms	Enzyme Substrate Test	MPN/100 mL	<1.0	1.0	0 per 100 mL Below MAC
Escherichia coli	Enzyme Substrate Test	MPN/100 mL	<1.0	1.0	0 per 100 mL Below MAC

**Analytical Report**

Bill To: City of Parksville 1116 Herring Gull Way Parksville, BC, Canada V9P 1R2	Project ID: Project Name: Full Spectrum Project Location: LSD: P.O.:	Lot ID: <b>1695092</b> Control Number: Date Received: Nov 17, 2023 Date Reported: Nov 23, 2023 Report Number: 2944821
Attn: Accounts Payable Sampled By: Barb Silenieks Company: City of Parksville	Proj. Acct. code:	

<b>Reference Number</b>	1695092-7
<b>Sample Date</b>	November 20, 2023
<b>Sample Time</b>	10:20
<b>Sample Location</b>	
<b>Sample Description</b>	Railway # 6 / 1.6 °C
<b>Sample Matrix</b>	Water

Analyte	Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
<b>Microbiological Analysis</b>					
Total Coliforms	Enzyme Substrate Test	MPN/100 mL	<1.0	1.0	0 per 100 mL Below MAC
Escherichia coli	Enzyme Substrate Test	MPN/100 mL	<1.0	1.0	0 per 100 mL Below MAC

**Analytical Report**

Bill To: City of Parksville 1116 Herring Gull Way Parksville, BC, Canada V9P 1R2	Project ID: Project Name: Full Spectrum Project Location: LSD: P.O.:	Lot ID: <b>1695092</b> Control Number: Date Received: Nov 17, 2023 Date Reported: Nov 23, 2023 Report Number: 2944821
Attn: Accounts Payable Sampled By: Barb Silenieks Company: City of Parksville	Proj. Acct. code:	

<b>Reference Number</b>	1695092-8
<b>Sample Date</b>	November 20, 2023
<b>Sample Time</b>	09:25
<b>Sample Location</b>	
<b>Sample Description</b>	Springwood # 7 / 1.6 °C
<b>Sample Matrix</b>	Water

Analyte	Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
<b>Microbiological Analysis</b>					
Total Coliforms	Enzyme Substrate Test	MPN/100 mL	<1.0	1.0	0 per 100 mL Below MAC
Escherichia coli	Enzyme Substrate Test	MPN/100 mL	<1.0	1.0	0 per 100 mL Below MAC

**Analytical Report**

Bill To: City of Parksville 1116 Herring Gull Way Parksville, BC, Canada V9P 1R2	Project ID: Project Name: Full Spectrum Project Location: LSD: P.O.:	Lot ID: <b>1695092</b> Control Number: Date Received: Nov 17, 2023 Date Reported: Nov 23, 2023 Report Number: 2944821
Attn: Accounts Payable Sampled By: Barb Silenieks Company: City of Parksville	Proj. Acct. code:	

<b>Reference Number</b>	1695092-9
<b>Sample Date</b>	November 20, 2023
<b>Sample Time</b>	10:40
<b>Sample Location</b>	
<b>Sample Description</b>	Ermineskin / 1.6 °C
<b>Sample Matrix</b>	Water


Analyte	Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
<b>Microbiological Analysis</b>					
Total Coliforms	Enzyme Substrate Test	MPN/100 mL	<1.0	1.0	0 per 100 mL Below MAC
Escherichia coli	Enzyme Substrate Test	MPN/100 mL	<1.0	1.0	0 per 100 mL Below MAC

**Analytical Report**

Bill To: City of Parksville 1116 Herring Gull Way Parksville, BC, Canada V9P 1R2	Project ID: Project Name: Full Spectrum Project Location: LSD: P.O.:	Lot ID: <b>1695092</b> Control Number: Date Received: Nov 17, 2023 Date Reported: Nov 23, 2023 Report Number: 2944821
Attn: Accounts Payable Sampled By: Barb Silenieks Company: City of Parksville	Proj. Acct. code:	

<b>Reference Number</b>	1695092-10
<b>Sample Date</b>	November 20, 2023
<b>Sample Time</b>	10:55
<b>Sample Location</b>	
<b>Sample Description</b>	Works Yard / 1.6 °C
<b>Sample Matrix</b>	Water

Analyte	Units	Result	Nominal Detection Limit	Guideline Limit	Guideline Comments
<b>Microbiological Analysis</b>					
Total Coliforms	Enzyme Substrate Test	MPN/100 mL	<1.0	1.0	0 per 100 mL Below MAC
Escherichia coli	Enzyme Substrate Test	MPN/100 mL	<1.0	1.0	0 per 100 mL Below MAC

Approved by:   
 Randy Neumann, B.Sc  
 Director



## Methodology and Notes

Bill To: City of Parksville 1116 Herring Gull Way Parksville, BC, Canada V9P 1R2	Project ID: Project Name: Full Spectrum Project Location: LSD: P.O.:	Lot ID: <b>1695092</b> Control Number: Date Received: Nov 17, 2023 Date Reported: Nov 23, 2023 Report Number: 2944821
Attn: Accounts Payable Sampled By: Barb Silenieks Company: City of Parksville	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	Nov 20, 2023	Element Vancouver
Alk, pH, EC, Turb in water (BC)	APHA	* Conductivity, 2510 B	Nov 20, 2023	Element Vancouver
Alk, pH, EC, Turb in water (BC)	APHA	* pH - Electrometric Method, 4500-H+ B	Nov 20, 2023	Element Vancouver
Anions by IEC in water (VAN)	APHA	* Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	Nov 17, 2023	Element Vancouver
Cyanide (Total) in water	US EPA	* US EPA method, 335.3	Nov 22, 2023	Element Edmonton - Roper Road
Mercury Low Level (Total) in water (VAN)	EPA	* Mercury in Water by Cold Vapor Atomic Fluorescence Spectrometry, 245.7	Nov 21, 2023	Element Vancouver
Metals SemiTrace (Dissolved) in water (VAN)	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	Nov 20, 2023	Element Vancouver
Metals SemiTrace (Total) in Water (VAN)	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	Nov 20, 2023	Element Vancouver
Total and E-Coli - Colilert - DW (VAN)	APHA	Enzyme Substrate Test, APHA 9223 B	Nov 21, 2023	Element Vancouver
Trace Metals (Total) in Water (VAN)	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	Nov 20, 2023	Element Vancouver
True Color in water (VAN)	APHA	* Spectrophotometric - Single Wavelength Method, 2120 C	Nov 18, 2023	Element Vancouver
Turbidity - Water (VAN)	APHA	* Turbidity - Nephelometric Method, 2130 B	Nov 17, 2023	Element Vancouver

\* Reference Method Modified

## References

APHA	Standard Methods for the Examination of Water and Wastewater
EPA	Environmental Protection Agency Test Methods - US
US EPA	US Environmental Protection Agency Test Methods

## Guidelines

Guideline Description	Health Canada GCDWQ
Guideline Source	Guidelines for Canadian Drinking Water Quality, Health Canada, Sept 2020
Guideline Comments	MAC = Maximum Acceptable Concentration AO = Aesthetic Objective OG = Operational Guideline for Water Treatment Plants (does not apply to private groundwater wells). Refer to Health Canada for complete guidelines at <a href="http://www.hc-sc.gc.ca">www.hc-sc.gc.ca</a>

## Comments:

- Nov 20, 2023 - Sample 1695092-1; 8988877: Reduction of analytical volume was necessary for chloride analysis to bring results within the analytical range for sample 1695092-1. Detection limits are adjusted accordingly.

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**Methodology and Notes**

Bill To: City of Parksville 1116 Herring Gull Way Parksville, BC, Canada V9P 1R2	Project ID: Project Name: Full Spectrum Project Location: LSD: P.O.:	Lot ID: <b>1695092</b> Control Number: Date Received: Nov 17, 2023 Date Reported: Nov 23, 2023 Report Number: 2944821
Attn: Accounts Payable Sampled By: Barb Silenieks Company: City of Parksville	Proj. Acct. code:	

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The comparison of test results to guideline limits is provided for information purposes only. This is not to be taken as a statement of conformance / nonconformance to any guideline, regulation or limit. The data user is responsible for all conclusions drawn with respect to the data and is advised to consult official regulatory references when evaluating compliance.

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.



**Project Information**

Project ID:  
 Project Name: Full spectrum  
 Project Location:  
 Legal Location:  
 PO/AFE#:  
 Proj. Acct. Code:  
 Quote #:

**Invoice To**  
 Company: City of Parksville  
 Address:  
 Attention:  
 Phone:  
 Cell:  
 E-mail:  
 Government Funded Work YES / NO  
 SRP #  
 Agreement ID:

**Report To**  
 Company: City of Parksville  
 Address:  
 Attention:  
 Phone:  
 Cell:  
 Fax:  
 E-mail 1:  
 E-mail 2:  
 Copy of Invoice: YES / NO

**Additional Reports to**  
 1) Name:  
 E-mail:  
 2) Name:  
 E-mail:

**Sample Custody**

Sampled by: Barb Silenieks  
 Company: City of Parksville  
 I authorize Element to proceed with the work indicated on this form:  
 Signature: [Signature]  
 Date/Time: NOV. 20 11:00

**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.

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

**Report Results**

- Email  QA/QC
- Online  PDF
- Fax  Excel

**Requirements**

- HCDWQ  SPIGEC
- AB Tier 1  BCCSR

Other (list below)

Number of Containers  
 MeOH Field Preserved?  
Microbiology Analysis

#	✓	MeOH Field Preserved?	Microbiology Analysis
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			

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	#	✓
1	<u>Railway #1</u>			<u>Nov. 20 10:30</u>				<input checked="" type="checkbox"/>
2	<u>Railway #6</u>			<u>Nov. 20 10:20</u>				<input checked="" type="checkbox"/>
3	<u>Springwood #7</u>			<u>Nov. 20 9:25</u>				<input checked="" type="checkbox"/>
4	<u>Grimeskin</u>			<u>Nov. 20 10:40</u>				<input checked="" type="checkbox"/>
5	<u>Public Works Yard</u>			<u>Nov. 20 10:55</u>				<input checked="" type="checkbox"/>
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

**Enter tests above**  
 (✓ relevant samples below)

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>)

Lot: 1695092<sup>COC</sup>



Temp. received: 1.06 °C  
 Date/Time stamp: NOV 21 9:00  
 Delivery Method:  
 Waybill: PURULATOR  
 Received by: JB