

APPENDIX

B

CERTIFICATES OF ANALYSIS



Report ID: 402864-IAS
Report Date: 19-Jul-21
Date Received: 06-Jul-21

CERTIFICATE OF ANALYSIS

for
WSP Canada Inc
1135, boulevard Lebourgneuf
Quebec, QC G2K 0M5



921 College Hill Rd
Fredericton NB
Canada E3B 6Z9
Tel: 506.452.1212
Fax: 506.452.0594
www.rpc.ca

Attention: Francois Quinty

Project #: 211 -06686-00

Location: Near Rosaireville, NB

Analysis of Water

RPC Sample ID:		402864-1	402864-2	
Client Sample ID:		PL6-1	PL6-2	
Date Sampled:		6-Jul-21	6-Jul-21	
Analytes	Units	RL		
Nitrogen - Total	mg/L	0.2	0.8	0.4
Ammonia (as N)	mg/L	0.05	< 0.05	< 0.05
pH	units	-	5.6	4.9
Nitrate + Nitrite (as N)	mg/L	0.05	< 0.05	< 0.05
Nitrate (as N)	mg/L	0.05	< 0.05	< 0.05
Nitrite (as N)	mg/L	0.05	< 0.05	< 0.05
Phosphorus - Total	mg/L	0.002	3.35	0.35
Solids - Total Suspended	mg/L	5	< 5	< 5
Conductivity	μ S/cm	1	24	21
Hardness (as CaCO ₃)	mg/L	0.2	8.6	2.8

This report relates only to the sample(s) and information provided to the laboratory.

RL = Reporting Limit

Matthew Norman
Senior Chemist
Inorganic Analytical Chemistry

Krista Skinner
Chemical Technician
Inorganic Analytical Chemistry

Report ID: 402864-IAS
 Report Date: 19-Jul-21
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Attention: Francois Quinty

Project #: 211 -06686-00

Location: Near Rosaireville, NB

Analysis of Metals in Water

RPC Sample ID:			402864-1	402864-2	402864-3
Client Sample ID:			PL6-1	PL6-2	PL6-1 (dissolved)
Date Sampled:			6-Jul-21	6-Jul-21	6-Jul-21
Analytes	Units	RL			
Aluminum	µg/L	1	235	182	213
Antimony	µg/L	0.1	< 0.1	< 0.1	< 0.1
Arsenic	µg/L	1	< 1	< 1	< 1
Barium	µg/L	1	28	10	25
Beryllium	µg/L	0.1	< 0.1	< 0.1	< 0.1
Bismuth	µg/L	1	< 1	< 1	< 1
Boron	µg/L	1	2	1	2
Cadmium	µg/L	0.01	0.02	0.02	0.03
Calcium	µg/L	50	2880	840	2580
Chromium	µg/L	1	< 1	< 1	< 1
Cobalt	µg/L	0.1	0.3	0.5	0.3
Copper	µg/L	1	< 1	< 1	< 1
Iron	µg/L	20	1040	1900	940
Lead	µg/L	0.1	0.4	0.3	0.3
Lithium	µg/L	0.1	0.5	0.2	0.5
Magnesium	µg/L	10	580	230	550
Manganese	µg/L	1	84	103	81
Mercury	µg/L	0.025	2.74	0.05	-
Molybdenum	µg/L	0.1	< 0.1	< 0.1	< 0.1
Nickel	µg/L	1	< 1	< 1	< 1
Potassium	µg/L	20	200	40	280
Rubidium	µg/L	0.1	0.5	0.1	0.6
Selenium	µg/L	1	< 1	< 1	< 1
Silver	µg/L	0.1	< 0.1	< 0.1	< 0.1
Sodium	µg/L	50	1540	680	1400
Strontium	µg/L	1	12	3	12
Tellurium	µg/L	0.1	< 0.1	< 0.1	< 0.1
Thallium	µg/L	0.1	< 0.1	< 0.1	< 0.1
Tin	µg/L	0.1	< 0.1	< 0.1	< 0.1
Uranium	µg/L	0.1	< 0.1	< 0.1	< 0.1
Vanadium	µg/L	1	< 1	< 1	< 1
Zinc	µg/L	1	5	3	6

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Attention: Francois Quinty
Project #: 211 -06686-00
 Location: Near Rosaireville, NB

Analysis of Metals in Water

RPC Sample ID:		402864-4	
Client Sample ID:		PL6-2 (dissolved)	
Date Sampled:		6-Jul-21	
Analytes	Units	RL	
Aluminum	µg/L	1	161
Antimony	µg/L	0.1	< 0.1
Arsenic	µg/L	1	< 1
Barium	µg/L	1	10
Beryllium	µg/L	0.1	< 0.1
Bismuth	µg/L	1	< 1
Boron	µg/L	1	< 1
Cadmium	µg/L	0.01	0.02
Calcium	µg/L	50	840
Chromium	µg/L	1	< 1
Cobalt	µg/L	0.1	0.5
Copper	µg/L	1	< 1
Iron	µg/L	20	1480
Lead	µg/L	0.1	0.1
Lithium	µg/L	0.1	0.2
Magnesium	µg/L	10	200
Manganese	µg/L	1	104
Mercury	µg/L	0.025	-
Molybdenum	µg/L	0.1	< 0.1
Nickel	µg/L	1	< 1
Potassium	µg/L	20	60
Rubidium	µg/L	0.1	0.3
Selenium	µg/L	1	< 1
Silver	µg/L	0.1	< 0.1
Sodium	µg/L	50	660
Strontium	µg/L	1	3
Tellurium	µg/L	0.1	< 0.1
Thallium	µg/L	0.1	< 0.1
Tin	µg/L	0.1	< 0.1
Uranium	µg/L	0.1	< 0.1
Vanadium	µg/L	1	< 1
Zinc	µg/L	1	3

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Methods

<u>Analyte</u>	<u>RPC SOP #</u>	<u>Method Reference</u>	<u>Method Principle</u>
Ammonia	4.M47	APHA 4500-NH ₃ G	Phenate Colourimetry
pH	4.M03	APHA 4500-H ⁺ B	pH Electrode - Electrometric
Nitrate + Nitrite (as N)	4.M48	APHA 4500-NO ₃ H	Hydrazine Red., Derivatization, Colourimetry
Nitrite (as N)	4.M49	APHA 4500-NO ₂ - B	Ferrous Ammonium Sulfate Colourimetry
Nitrogen - Total	IAS-M57.01	ASTM D8083-16	Combustion/Chemiluminescence
Phosphorus - Total	4.M17	APHA 4500-P E	Digestion, Manual Colourimetry
Conductivity	4.M04	APHA 2510 B	Conductivity Meter - Electrode
Solids - Total Suspended	4.M05	APHA 2540 D	Filtration, Gravimetry
Trace Metals	4.M01/4.M29	EPA 200.8/EPA 200.7	ICP-MS/ICP-ES
Mercury	4.M52	EPA 245.1	Cold Vapor AAS

Report ID: 419655-IAS
Report Date: 17-Nov-21
Date Received: 03-Nov-21

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Fax: 506.452.0594
www.rpc.ca

Attention: Francois Quinty

Project #: 211-06686-00

Location: Peatland 6, Rosaireville, NB

Analysis of Water

RPC Sample ID:		419655-1	419655-2	
Client Sample ID:		PL6-1	PL6-2	
Date Sampled:		3-Nov-21	3-Nov-21	
Analytes	Units	RL		
Ammonia (as N)	mg/L	0.05	< 0.05	< 0.05
pH	units	-	5.4	4.6
Nitrate + Nitrite (as N)	mg/L	0.05	< 0.05	< 0.05
Nitrate (as N)	mg/L	0.05	< 0.05	< 0.05
Nitrite (as N)	mg/L	0.05	< 0.05	< 0.05
Nitrogen - Total	mg/L	0.2	0.6	0.6
Phosphorus - Total	mg/L	0.002	0.049	0.20
Solids - Total Suspended	mg/L	5	23	168
Conductivity	μ S/cm	1	24	26
Hardness (as CaCO ₃)	mg/L	0.2	7.7	2.3

This report relates only to the sample(s) and information provided to the laboratory.

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Peter Crowhurst, B.Sc., C.Chem.
Director
Inorganic Analytical Chemistry

Matthew Norman
Senior Chemist
Inorganic Analytical Chemistry

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Attention: Francois Quinty

Project #: 211-06686-00

Location: Peatland 6, Rosaireville, NB

Analysis of Metals in Water

RPC Sample ID:			419655-1	419655-2	419655-3
Client Sample ID:			PL6-1	PL6-2	PL6-1 (dissolved)
Date Sampled:			3-Nov-21	3-Nov-21	3-Nov-21
Analytes	Units	RL			
Aluminum	µg/L	1	197	191	161
Antimony	µg/L	0.1	< 0.1	< 0.1	< 0.1
Arsenic	µg/L	1	< 1	< 1	< 1
Barium	µg/L	1	27	8	23
Beryllium	µg/L	0.1	< 0.1	< 0.1	< 0.1
Bismuth	µg/L	1	< 1	< 1	< 1
Boron	µg/L	1	2	1	2
Cadmium	µg/L	0.01	0.02	0.01	0.01
Calcium	µg/L	50	2160	640	2140
Chromium	µg/L	1	< 1	< 1	< 1
Cobalt	µg/L	0.1	0.3	0.4	0.2
Copper	µg/L	1	< 1	< 1	< 1
Iron	µg/L	20	840	1760	710
Lead	µg/L	0.1	0.5	0.5	0.3
Lithium	µg/L	0.1	0.4	0.2	0.4
Magnesium	µg/L	10	550	170	520
Manganese	µg/L	1	95	96	81
Mercury	µg/L	0.025	< 0.025	< 0.025	-
Molybdenum	µg/L	0.1	< 0.1	< 0.1	< 0.1
Nickel	µg/L	1	< 1	< 1	< 1
Potassium	µg/L	20	210	50	160
Rubidium	µg/L	0.1	0.6	0.4	0.4
Selenium	µg/L	1	< 1	< 1	< 1
Silver	µg/L	0.1	< 0.1	< 0.1	< 0.1
Sodium	µg/L	50	1560	930	1470
Strontium	µg/L	1	11	3	10
Tellurium	µg/L	0.1	< 0.1	< 0.1	< 0.1
Thallium	µg/L	0.1	< 0.1	< 0.1	< 0.1
Tin	µg/L	0.1	< 0.1	< 0.1	< 0.1
Uranium	µg/L	0.1	< 0.1	< 0.1	< 0.1
Vanadium	µg/L	1	< 1	< 1	< 1
Zinc	µg/L	1	5	3	5

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Attention: Francois Quinty
Project #: 211-06686-00
 Location: Peatland 6, Rosaireville, NB

Analysis of Metals in Water

RPC Sample ID:		419655-4	
Client Sample ID:		PL6-2 (dissolved)	
Date Sampled:		3-Nov-21	
Analytes	Units	RL	
Aluminum	µg/L	1	105
Antimony	µg/L	0.1	< 0.1
Arsenic	µg/L	1	< 1
Barium	µg/L	1	7
Beryllium	µg/L	0.1	< 0.1
Bismuth	µg/L	1	< 1
Boron	µg/L	1	1
Cadmium	µg/L	0.01	0.01
Calcium	µg/L	50	650
Chromium	µg/L	1	< 1
Cobalt	µg/L	0.1	0.4
Copper	µg/L	1	< 1
Iron	µg/L	20	1000
Lead	µg/L	0.1	0.2
Lithium	µg/L	0.1	0.2
Magnesium	µg/L	10	160
Manganese	µg/L	1	94
Mercury	µg/L	0.025	-
Molybdenum	µg/L	0.1	< 0.1
Nickel	µg/L	1	< 1
Potassium	µg/L	20	60
Rubidium	µg/L	0.1	0.2
Selenium	µg/L	1	< 1
Silver	µg/L	0.1	< 0.1
Sodium	µg/L	50	960
Strontium	µg/L	1	2
Tellurium	µg/L	0.1	< 0.1
Thallium	µg/L	0.1	< 0.1
Tin	µg/L	0.1	< 0.1
Uranium	µg/L	0.1	< 0.1
Vanadium	µg/L	1	< 1
Zinc	µg/L	1	4

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Methods

<u>Analyte</u>	<u>RPC SOP #</u>	<u>Method Reference</u>	<u>Method Principle</u>
Ammonia	IAS-M47	APHA 4500-NH ₃ G	Phenate Colourimetry
pH	IAS-M03	APHA 4500-H ⁺ B	pH Electrode - Electrometric
Nitrate + Nitrite (as N)	IAS-M48	APHA 4500-NO ₃ H	Hydrazine Red., Derivatization, Colourimetry
Nitrite (as N)	IAS-M49	APHA 4500-NO ₂ - B	Ferrous Ammonium Sulfate Colourimetry
Nitrogen - Total	IAS-M57	ASTM D8083-16	Combustion/Chemiluminescence
Phosphorus - Total	IAS-M17	APHA 4500-P E	Digestion, Manual Colourimetry
Conductivity	IAS-M04	APHA 2510 B	Conductivity Meter - Electrode
Solids - Total Suspended	IAS-M05	APHA 2540 D	Filtration, Gravimetry
Trace Metals	IAS-M01/IAS-M29	EPA 200.8/EPA 200.7	ICP-MS/ICP-ES
Mercury	IAS-M52	EPA 245.1	Cold Vapor AAS

Report ID: 427907-IAS
Report Date: 31-Jan-22
Date Received: 20-Jan-22

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Attention: Francois Quinty

Project #: 211-06686-00

Analysis of Water

RPC Sample ID:		427907-1	427907-2	
Client Sample ID:		PL6-1	PL6-2	
Date Sampled:		20-Jan-22	20-Jan-22	
Analytes	Units	RL		
Ammonia (as N)	mg/L	0.05	0.09	< 0.05
pH	units	-	6.2	5.3
Nitrate + Nitrite (as N)	mg/L	0.05	< 0.05	0.05
Nitrate (as N)	mg/L	0.05	< 0.05	0.05
Nitrite (as N)	mg/L	0.05	< 0.05	< 0.05
Nitrogen - Total	mg/L	0.2	1.2	0.5
Phosphorus - Total	mg/L	0.002	0.029	0.012
Solids - Total Suspended	mg/L	5	< 5	5
Conductivity	$\mu\text{S}/\text{cm}$	1	28	21
Hardness (as CaCO_3)	mg/L	0.2	7.6	2.7

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Peter Crowhurst, B.Sc., C.Chem.
Director
Inorganic Analytical Chemistry

Matthew Norman
Senior Chemist
Inorganic Analytical Chemistry

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 Report Date: 31-Jan-22
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Attention: Francois Quinty

Project #: 211-06686-00

Analysis of Metals in Water

RPC Sample ID:			427907-1	427907-2	427907-3
Client Sample ID:			PL6-1	PL6-2	PL6-1 (dissolved)
Date Sampled:			20-Jan-22	20-Jan-22	20-Jan-22
Analytes	Units	RL			
Aluminum	mg/L	0.001	0.177	0.125	0.157
Antimony	mg/L	0.0001	< 0.0001	< 0.0001	< 0.0001
Arsenic	mg/L	0.001	< 0.001	< 0.001	< 0.001
Barium	mg/L	0.001	0.023	0.008	0.021
Beryllium	mg/L	0.0001	< 0.0001	< 0.0001	< 0.0001
Bismuth	mg/L	0.001	< 0.001	< 0.001	< 0.001
Boron	mg/L	0.001	0.002	< 0.001	0.002
Cadmium	mg/L	0.00001	0.00003	0.00002	0.00003
Calcium	mg/L	0.05	2.19	0.73	2.14
Chromium	mg/L	0.001	< 0.001	< 0.001	< 0.001
Cobalt	mg/L	0.0001	0.0002	0.0004	0.0002
Copper	mg/L	0.001	0.002	< 0.001	0.003
Iron	mg/L	0.02	0.69	1.11	0.65
Lead	mg/L	0.0001	0.0005	0.0003	0.0004
Lithium	mg/L	0.0001	0.0004	0.0002	0.0004
Magnesium	mg/L	0.01	0.52	0.21	0.51
Manganese	mg/L	0.001	0.083	0.116	0.079
Mercury	mg/L	0.000025	< 0.000025	< 0.000025	-
Molybdenum	mg/L	0.0001	< 0.0001	< 0.0001	< 0.0001
Nickel	mg/L	0.001	< 0.001	< 0.001	< 0.001
Potassium	mg/L	0.02	0.75	0.10	0.72
Rubidium	mg/L	0.0001	0.0011	0.0004	0.0010
Selenium	mg/L	0.001	< 0.001	< 0.001	< 0.001
Silver	mg/L	0.0001	< 0.0001	< 0.0001	< 0.0001
Sodium	mg/L	0.05	2.26	0.97	2.20
Strontium	mg/L	0.001	0.010	0.003	0.009
Tellurium	mg/L	0.0001	< 0.0001	< 0.0001	< 0.0001
Thallium	mg/L	0.0001	< 0.0001	< 0.0001	< 0.0001
Tin	mg/L	0.0001	0.0001	< 0.0001	0.0001
Uranium	mg/L	0.0001	< 0.0001	< 0.0001	< 0.0001
Vanadium	mg/L	0.001	< 0.001	< 0.001	< 0.001
Zinc	mg/L	0.001	0.020	0.003	0.022

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Attention: Francois Quinty
Project #: 211-06686-00

Analysis of Metals in Water

RPC Sample ID:		427907-4	
Client Sample ID:		PL6-2 (dissolved)	
Date Sampled:		20-Jan-22	
Analytes	Units	RL	
Aluminum	mg/L	0.001	0.114
Antimony	mg/L	0.0001	< 0.0001
Arsenic	mg/L	0.001	< 0.001
Barium	mg/L	0.001	0.007
Beryllium	mg/L	0.0001	< 0.0001
Bismuth	mg/L	0.001	< 0.001
Boron	mg/L	0.001	< 0.001
Cadmium	mg/L	0.00001	0.00002
Calcium	mg/L	0.05	0.72
Chromium	mg/L	0.001	< 0.001
Cobalt	mg/L	0.0001	0.0004
Copper	mg/L	0.001	< 0.001
Iron	mg/L	0.02	1.04
Lead	mg/L	0.0001	0.0002
Lithium	mg/L	0.0001	0.0001
Magnesium	mg/L	0.01	0.20
Manganese	mg/L	0.001	0.114
Mercury	mg/L	0.000025	-
Molybdenum	mg/L	0.0001	< 0.0001
Nickel	mg/L	0.001	< 0.001
Potassium	mg/L	0.02	0.08
Rubidium	mg/L	0.0001	0.0004
Selenium	mg/L	0.001	< 0.001
Silver	mg/L	0.0001	< 0.0001
Sodium	mg/L	0.05	0.92
Strontium	mg/L	0.001	0.003
Tellurium	mg/L	0.0001	< 0.0001
Thallium	mg/L	0.0001	< 0.0001
Tin	mg/L	0.0001	< 0.0001
Uranium	mg/L	0.0001	< 0.0001
Vanadium	mg/L	0.001	< 0.001
Zinc	mg/L	0.001	0.005

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Methods

<u>Analyte</u>	<u>RPC SOP #</u>	<u>Method Reference</u>	<u>Method Principle</u>
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pH	IAS-M03	APHA 4500-H ⁺ B	pH Electrode - Electrometric
Nitrate + Nitrite (as N)	IAS-M48	APHA 4500-NO ₃ H	Hydrazine Red., Derivatization, Colourimetry
Nitrite (as N)	IAS-M49	APHA 4500-NO ₂ - B	Ferrous Ammonium Sulfate Colourimetry
Nitrogen - Total	IAS-M57	ASTM D8083-16	Combustion/Chemiluminescence
Phosphorus - Total	IAS-M17	APHA 4500-P E	Digestion, Manual Colourimetry
Conductivity	IAS-M04	APHA 2510 B	Conductivity Meter - Electrode
Solids - Total Suspended	IAS-M05	APHA 2540 D	Filtration, Gravimetry
Trace Metals	IAS-M01/IAS-M29	EPA 200.8/EPA 200.7	ICP-MS/ICP-ES
Mercury	IAS-M52	EPA 245.1	Cold Vapor AAS

Report ID: 407470-IAS
Report Date: 19-Aug-21
Date Received: 06-Aug-21

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921 College Hill Rd
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Canada E3B 6Z9
Tel: 506.452.1212
Fax: 506.452.0594
www.rpc.ca

Attention: Francois Quinty

Project #: 211-06686

Location: Rosaireville, NB

Analysis of Metals in Soil

RPC Sample ID:	407470-1	407470-2	407470-3
Client Sample ID:	PL6- 10cm	PL6- 30cm	PL6- 70cm
Date Sampled:	5-Aug-21	5-Aug-21	5-Aug-21
Analytes	Units	RL	
Mercury	mg/kg	0.01	0.02
			< 0.01
			0.02

This report relates only to the sample(s) and information provided to the laboratory.

RL = Reporting Limit



Matthew Norman
Senior Chemist
Inorganic Analytical Chemistry



Brannen Burhoe
Supervisor
Inorganic Analytical Services

Report ID: 407470-IAS
Report Date: 19-Aug-21
Date Received: 06-Aug-21

CERTIFICATE OF ANALYSIS

for
WSP Canada Inc
1135, boulevard Lebourgneuf
Quebec, QC G2K 0M5

rpc

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General Report Comments

Mercury was analyzed by Cold Vapour AAS (SOP 4.M52 & SOP 4.M53).

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Methods

<u>Analyte</u>	<u>RPC SOP #</u>	<u>Method Reference</u>	<u>Method Principle</u>
Mercury	IAS-M53	EPA 245.5	Cold Vapor AAS

