



Teck Washington Incorporated
Pend Oreille Mine
P.O. Box 7 1382 Pend Oreille Mine Road
Metaline Falls, WA USA 99153

Victor Christensen
General Manager

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4/8/2021

Ms. Cynthia Wall
Mr. Pat Hallinan
Washington Department of Ecology
Eastern Regional Office
4601 North Monroe
Spokane, WA 99205-1259

7019 1120 6875 9817

Re: Pend Oreille Mine Q1 2021 Groundwater and Surface Water Data Submittal

Dear Ms. Wall & Mr. Hallinan,

The Pend Oreille Mine (POM) is required under Section S6, National Pollutant Discharge Elimination System (NPDES) Permit No. WA-0001317 to submit to Ecology quarterly groundwater and surface water quality data. POM hereby submits groundwater and surface water data for the Q1, 2021 period.

Please note that no water was detected in MW-3 and thus not sampled. MW-3 will be sampled in Q2 2021.

If you have any questions, please feel free to contact Bruce A. Howard at (509) 446-5348.

Sincerely,

Victor Christensen
General Manager
Pend Oreille Operations

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3/2/2021	Well	MW-02	MW-03	MW-01-04	MW-05	MW-06	MW-07	MW-08	MW-09
Static Depth	Ft	86.35	-	253.53	120.5	118.82	115.85	119.3	127.4
Temp	F°	45.5	-	45.6	48.2	47.5	45.8	47.4	48.3
pH	s.u.	7.24	-	7.09	6.87	7.23	7.14	7.33	6.86
Mercury	mg/L	<0.00020	-	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Aluminum	mg/L	<0.08	-	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
Cadmium	mg/L	<0.0020	-	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Calcium	mg/L	78.7	-	85.1	164	115	97.1	111	163
Chromium	mg/L	<0.0060	-	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Iron	mg/L	<0.020	-	0.238	<0.020	<0.020	<0.020	0.172	<0.020
Magnesium	mg/L	22.7	-	33.4	62.3	38.9	32.4	37.5	71
Manganese	mg/L	<0.0010	-	0.0465	<0.00100	0.0413	<0.00100	0.0517	<0.00100
Potassium	mg/L	2.3	-	3.64	4.29	3.43	3.12	3.46	4.81
Silica	mg/L	19.5	-	15.7	23.4	19.3	20.7	18.8	23.7
Silver	mg/L	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0500	<0.0050	<0.0050
Sodium	mg/L	6.19	-	6.73	5.92	4.48	4.93	4.67	6.76
Copper	mg/L	<0.00100	-	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Lead	mg/L	<0.00300	-	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300	<0.00300
Zinc	mg/L	<0.0050	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Hardness	mg/L	290	-	350	667	446	376	431	700
Conductivity	umhos/cm	363	-	435	749	505	439	488	787
Ammonia as N	mg/L	<0.030	-	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Nitrate/Nitrite	mg/L	0.401	-	9.1	0.088	0.05	0.212	<0.050	<1.0
Bicarbonate	mg/L	261	-	272	337	269	333	273	299
Carbonate	mg/L	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	299
T. Alkalinity	mg/L	261	-	272	337	269	333	273	299
T. Diss. Solids	mg/L	354	-	427	868	551	420	537	920
T. Susp. Solids	mg/L	<5.0	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Orthophosphate	mg/L	0.0253	-	<0.0100	0.0689	0.0841	0.0457	0.0653	0.0879
Chloride	mg/L	16.2	-	16.1	3.01	4.63	4.15	5.56	3.34
Fluoride	mg/L	<0.100	-	<0.10	<0.100	<0.100	<0.100	<0.100	<0.100
Sulfate as SO4	mg/L	31.4	-	41.3	352	173	54.2	153	410

2/24/2021	Site	SW-02	SW-05	SW-06	SW-07	SW-10
pH	SU	7.63	7.89	7.94	7.98	8.15
TSS	mg/L	<5.0	6	<5.0	<5.0	11
Cond.	umhos/cm	193	845	729	181	919
Hardness	mg/L	96.6	488	404	88	538
Turbidity	NTU	0.56	<0.200	<0.200	0.591	1.9
Temp.	°C	0.22	4.28	4.88	3.5	3.11
Nitrates	mg/L	<0.050	0.059	0.263	0.098	0.179
Ammonia	mg/L	<0.030	<0.030	<0.030	<0.030	<0.030
Sulfate	mg/L	7.74	181	115	7.09	189
Total Calcium	mg/L	26.2	121	109	23.8	131
Copper	mg/L	<0.0010	<0.00100	<0.00100	<0.00100	<0.00100
Total Zinc	mg/L	<0.010	<0.0100	0.0198	<0.0100	<0.010
Total Lead	mg/L	<0.00300	<0.0030	<0.00300	<0.00300	<0.00300
Total Magnesium	mg/L	7.56	45.3	32	6.93	51.1
Radium	pCi/l	<1.00	<1.00	<1.00	<1.00	<1.00
Total Uranium	mg/L	<0.00100	0.00634	0.00454	<0.00100	0.0073

Well ID: MW 2

Static Water Level at Start: 86.35 At End: 86.35

Date: 3-2-21

Bottom Depth: 100.5

Sample Collection Time: 11:23

Samplers: RVS/SV

Sample ID: 210302-MW2

Revised 9/20/2020

[illegible]

Additional Comments:

Well Name	MW2	MW3	MW4	MW5	MW6	MW7	MW8	MW9
Well Depth	100.5'	188.5'	300'	159'	142'	138'	145'	185'
PSI	60	110	160	90	75	75	75	110
Charge	8	12	12	8	8	8	8	12
Exhaust	15	15	17	15	15	15	15	15

Well Name	MW301	MW302	MW303
Well Depth	15.0'	15.0'	13.0'

Well ID: MW4

Static Water Level at Start: 253.53 At End: 253.52

Date: 3-2-21

Bottom Depth: 300

Sample Collection Time: 2:43

Samplers: KVS/SV

Sample ID: 210302 MW4

[illegible]

Additional Comments: _____

Well Name	MW2	MW3	MW4	MW5	MW6	MW7	MW8	MW9
Well Depth	100.5'	188.5'	300'	159'	142'	138'	145'	185'
PSI	60	110	160	90	75	75	75	110
Charge	8	12	12	8	8	8	8	12
Exhaust	15	15	17	15	15	15	15	15

Well Name	MW301	MW302	MW303
Well Depth	15.0'	15.0'	13.0'

Monitor Well Purging Form

Well ID: <u>MW 5</u>	Static Water Level at Start: <u>120.5</u> At End: <u>120.5</u>
Date: <u>3-2-2021</u>	Bottom Depth: <u>159</u>
Sample Collection Time: <u>9:47</u>	Samplers: <u>RVS / SV</u>
Sample ID: <u>210302-MW5</u>	

[illegible]

Additional Comments: _____

Well Name	MW2	MW3	MW4	MW5	MW6	MW7	MW8	MW9
Well Depth	100.5'	188.5'	300'	159'	142'	138'	145'	185'
PSI	60	110	160	90	75	75	75	110
Charge	8	12	12	8	8	8	8	12
Exhaust	15	15	17	15	15	15	15	15

Well Name	MW301	MW302	MW303
Well Depth	15.0'	15.0'	13.0'

Well ID: MW-6

Static Water Level at Start: 118.82 At End: 118.84

Date: 3-2-21

Bottom Depth: 142

Sample Collection Time: 11:53

Samplers: RVS/PSV

Sample ID: 210302

[illegible]

Additional Comments: _____

Well Name	MW2	MW3	MW4	MW5	MW6	MW7	MW8	MW9
Well Depth	100.5'	188.5'	300'	159'	142'	138'	145'	185'
PSI	60	110	160	90	75	75	75	110
Charge	8	12	12	8	8	8	8	12
Exhaust	15	15	17	15	15	15	15	15

Well Name	MW301	MW302	MW303
Well Depth	15.0'	15.0'	13.0'

Monitor Well Purging Form

Well ID: MW-7

Date: 3-2-21

Sample Collection Time: 10:56

Sample ID: 210302-MW7

Static Water Level at Start: 115.85 At End: 115.85

Bottom Depth: 138

Samplers: RVS/SV

[illegible]

Well Name	MW2	MW3	MW4	MW5	MW6	MW7	MW8	MW9
Well Depth	100.5'	188.5'	300'	159'	142'	138'	145'	185'
PSI	60	110	160	90	75	75	75	110
Charge	8	12	12	8	8	8	8	12
Exhaust	15	15	17	15	15	15	15	15

Well Name	MW301	MW302	MW303
Well Depth	15.0'	15.0'	13.0'

Well ID: MW-8

Static Water Level at Start: 119.3 At End: 119.3

Date: 3-2-21

Bottom Depth: 145

Sample Collection Time: 10:34

Samplers: RVS/SV

Sample ID: 210302-mw8

[illegible]

Additional Comments: Flow rate variable - had to use Freeze out

Well Name	MW2	MW3	MW4	MW5	MW6	MW7	MW8	MW9
Well Depth	100.5'	188.5'	300'	159'	142'	138'	145'	185'
PSI	60	110	160	90	75	75	75	110
Charge	8	12	12	8	8	8	8	12
Exhaust	15	15	17	15	15	15	15	15

Well Name	MW301	MW302	MW303
Well Depth	15.0'	15.0'	13.0'

Monitor Well Purging Form

Well ID: MW-9 Static Water Level at Start: 127.4 At End: 127.4

Date: 03/02/01 Bottom Depth: 185'

Sample Collection Time: 9:16 Samplers: RV5/5V

Sample ID: 210302-MW9

[illegible]

Well Name	MW2	MW3	MW4	MW5	MW6	MW7	MW8	MW9
Well Depth	100.5'	188.5'	300'	159'	142'	138'	145'	185'
PSI	60	110	160	90	75	75	75	110
Charge	8	12	12	8	8	8	8	12
Exhaust	15	15	17	15	15	15	15	15

S:/Enviornmental/Forms/Monitoring well purging form.xls



Sample Receipt Confirmation

One Government Gulch - PO Box 929

Work Order

Kellogg, ID 83837-0929

X1C0079

(208) 784-1258

Date Received: 04-Mar-21 09:00

Date Due: 18-Mar-21 (10 day TAT)

Client: **Teck Washington Inc.**

Project Manager: **Connor R. Williams**

Project: **MW and SW Quarterly Samples WA0001317 / WA0001317**

Report To:

Teck Washington Inc.
Bruce Howard
PO Box 7
Metaline Falls, WA 99153
Phone: (509) 446-5348
Fax: 509-446-5346

Invoice To:

Teck Washington Inc.
Bruce Howard
PO Box 7
Metaline Falls, WA 99153
Phone: (509) 446-5348
Fax: 509-446-5346

Cooler information for	Default Cooler	Temp: 0.2°C	Q6: Cooler temp outside 0-6°C	No	
Custody Seals Yes	Containers Intact Yes	COC/Labels Agree Yes	Preservation Confirmed Yes	Received On Ice Yes	
Cooler information for	New Cooler	Temp: 0.4°C	Q6: Cooler temp outside 0-6°C	No	
Custody Seals Yes	Containers Intact Yes	COC/Labels Agree Yes	Preservation Confirmed Yes	Received On Ice Yes	

Sample information and analyses assigned

SVL ID: X1C0079-01 Client ID: **210302-MW2** [Ground Water] 02-Mar-21 11:23 (GMT-08:00) Pacific Time (US &

Analyses Assigned:
Teck WA - Quarterly Monitoring Well
(extended)

SVL ID: X1C0079-02 Client ID: **210302-MW4** [Ground Water] 02-Mar-21 14:43 (GMT-08:00) Pacific Time (US &

Analyses Assigned:
Teck WA - Quarterly Monitoring Well
(extended)

SVL ID: X1C0079-03 Client ID: **210302-MW5** [Ground Water] 02-Mar-21 09:47 (GMT-08:00) Pacific Time (US &

Analyses Assigned:
Teck WA - Quarterly Monitoring Well
(extended)

SVL ID: X1C0079-04 Client ID: **210302-MW6** [Ground Water] 02-Mar-21 11:53 (GMT-08:00) Pacific Time (US &

Analyses Assigned:
Teck WA - Quarterly Monitoring Well
(extended)

SVL ID: X1C0079-05 Client ID: **210302-MW7** [Ground Water] 02-Mar-21 10:56 (GMT-08:00) Pacific Time (US &

Analyses Assigned:
Teck WA - Quarterly Monitoring Well
(extended)

SVL ID: X1C0079-06 Client ID: **210302-MW8** [Ground Water] 02-Mar-21 10:34 (GMT-08:00) Pacific Time (US &

Analyses Assigned:
Teck WA - Quarterly Monitoring Well
(extended)

SVL ID: X1C0079-07 Client ID: **210302-MW9** [Ground Water] 02-Mar-21 09:16 (GMT-08:00) Pacific Time (US &

Analyses Assigned:
Teck WA - Quarterly Monitoring Well
(extended)



Sample Receipt Confirmation

One Government Gulch - PO Box 929

Work Order

Kellogg, ID 83837-0929

X1C0079

(208) 784-1258

Date Received: 04-Mar-21 09:00

Date Due: 18-Mar-21 (10 day TAT)

Client: **Teck Washington Inc.**

Project Manager: **Connor R. Williams**

Project: **MW and SW Quarterly Samples WA0001317 / WA0001317**

Analysis groups included in this work order

Teck WA - Quarterly Monitoring Well (extended)

300.0 Cl	300.0 F	300.0 SO4	350.1 NH3
353.2 NO3+NO2	Alk Tot CaCO3	Conductivity by EPA 120.1	D 200.8 Cu
D 200.8 Pb	D 200.8 Zn	-Hardness	Phos-Ortho SM 4500-P-E
T 245.1 Hg	TDS SM 2540C	TR 200.7 Ag	TR 200.7 Al
TR 200.7 Ca	TR 200.7 Cd	TR 200.7 Cr	TR 200.7 K
TR 200.7 Mg	TR 200.7 Na	TR 200.7 SiO2	TR 200.8 Cu
TR 200.8 Fe	TR 200.8 Mn	TR 200.8 Pb	TR 200.8 Zn
TSS 2540D			

Solid samples will be analyzed on an as-received, wet-weight basis unless otherwise instructed.

Reviewed By _____

Date _____

Samples will be disposed 30 days from report date (45 for soils). Longer archiving must be requested.
Please contact SVL (208-784-1258) if you have questions regarding the receipt of these samples.



Sample Receipt Confirmation

One Government Gulch - PO Box 929

Work Order

Kellogg, ID 83837-0929

X1C0079

(208) 784-1258

Date Received: 04-Mar-21 09:00

Date Due: 18-Mar-21 (10 day TAT)

Client: **Teck Washington Inc.**

Project Manager: **Connor R. Williams**

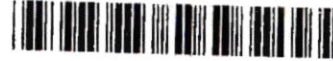
Project: **MW and SW Quarterly Samples WA0001317 / WA0001317**

	X1C0079-01 210302-MW2 Water	X1C0079-02 210302-MW4 Water	X1C0079-03 210302-MW5 Water	X1C0079-04 210302-MW6 Water	X1C0079-05 210302-MW7 Water	X1C0079-06 210302-MW8 Water	X1C0079-07 210302-MW9 Water
Conductivity by EPA 120.1	X	X	X	X	X	X	X
TR 200.7 Ag	X	X	X	X	X	X	X
TR 200.7 Al	X	X	X	X	X	X	X
TR 200.7 Ca	X	X	X	X	X	X	X
TR 200.7 Cd	X	X	X	X	X	X	X
TR 200.7 Cr	X	X	X	X	X	X	X
TR 200.7 K	X	X	X	X	X	X	X
TR 200.7 Mg	X	X	X	X	X	X	X
TR 200.7 Na	X	X	X	X	X	X	X
TR 200.7 SiO2	X	X	X	X	X	X	X
D 200.8 Cu	X	X	X	X	X	X	X
D 200.8 Pb	X	X	X	X	X	X	X
D 200.8 Zn	X	X	X	X	X	X	X
TR 200.8 Cu	X	X	X	X	X	X	X
TR 200.8 Fe	X	X	X	X	X	X	X
TR 200.8 Mn	X	X	X	X	X	X	X
TR 200.8 Pb	X	X	X	X	X	X	X
TR 200.8 Zn	X	X	X	X	X	X	X
T 245.1 Hg	X	X	X	X	X	X	X
300.0 Cl	X	X	X	X	X	X	X
300.0 F	X	X	X	X	X	X	X
300.0 SO4	X	X	X	X	X	X	X
350.1 NH3	X	X	X	X	X	X	X
353.2 NO3+NO2	X	X	X	X	X	X	X
Alk Tot CaCO3	X	X	X	X	X	X	X
-Hardness	X	X	X	X	X	X	X
TDS SM 2540C	X	X	X	X	X	X	X
TSS 2540D	X	X	X	X	X	X	X
Phos-Ortho SM 4500-P-E	X	X	X	X	X	X	X

Work Order: **X1C0079**
 Teck Washington Inc.

Chain Of Custody

Monitor



Page 1 of 1

FOR SVL USE Only

SVL Job #

Client: Pend Oreille Mine
 Contact: Bruce Howard
 Address: P.O. Box 7
 Metaline Falls, WA 99153

Phone Number: 509-446-5348
 Fax Number: 509-446-2830

PO#:
 Project Name: PDO

Samplers Signature

0:20 / 0:40

Lab Name: SVL Analytical, Inc. (208) 784-1258 FAX (208) 783-0891
 Address: One Government Gulch, Kellogg, ID 83837-0929

Sample ID	Collection		Miscellaneous			Preservative					Analyses Required						PUMP-BLDR	Static Water Lvl	
	Date	Time	Collected by:	Matrix From Table 1	No. of Containers	Sample Filtered	Unpreserved	HNO3	HNO3-Filtered	H2SO4	Unpreserved - Filtered	TSS, TDS, Cond., Silica, SO4, Hardness, Alkalinity Bicarb, Chloride, Fluoride	Pb, Zn, Ca, Mg, K, Al, Na, Cr, Fe, Mn, Ag, Cd, Hg, Cu, (Total)	Cu, Pb, Zn (Dissolved)	NH3-N, NO2+NO3-N	Ortho Phosphate			
210302-MW2	3/2/2021	11:23	RVS	2	5	Y/N	1	1	1	1	1		X	X	X	X	X	PUMP-BLDR	Static Water Lvl
210302-MW3	3/2/2021		RVS	2	5	Y/N	1	1	1	1	1		X	X	X	X	X	PUMP-BLDR	Static Water Lvl: NO SAMPLE
210302-MW4	3/2/2021	2:43	RVS	2	5	Y/N	1	1	1	1	1		X	X	X	X	X	PUMP-BLDR	Static Water Lvl:
210302-MW5	3/2/2021	9:47	RVS	2	5	Y/N	1	1	1	1	1		X	X	X	X	X	PUMP-BLDR	Static Water Lvl:
210302-MW6	3/2/2021	11:53	RVS	2	5	Y/N	1	1	1	1	1		X	X	X	X	X	PUMP-BLDR	Static Water Lvl
210302-MW7	3/2/2021	10:56	RVS	2	5	Y/N	1	1	1	1	1		X	X	X	X	X	PUMP-BLDR	Static Water Lvl:
210302-MW8	3/2/2021	10:34	RVS	2	5	Y/N	1	1	1	1	1		X	X	X	X	X	PUMP-BLDR	Static Water Lvl
210302-MW9	3/2/2021	9:16	RVS	2	5	Y/N	1	1	1	1	1		X	X	X	X	X	PUMP-BLDR	Static Water Lvl:
Relinquished By: <i>[Signature]</i>			Date: 03/02/21			Time:			Received By: <i>[Signature]</i>			Date: 3/4/21			Time: 9:00				
Relinquished By:			Date:			Time:			Received By:			Date:			Time:				

SAMPLE RECEIPT/CHAIN-OF-CUSTODY CHECKLIST

The following items were checked for completeness, correctness, and compliance to project specifications using the Chain-of-Custody (COC) and other supporting information.

Date of acceptance: 3/4/21

By: CR Seuy

SVL Work No: 110079

Item	Description	V	NA	Comments
1	Client or project name	—		Teck WA
2	Date and time of receipt at lab	—		3/4/21 900
3	Received by	—		CR Seuy
4	Temperature blank or cooler temperature	—		Temp. 0.2C
5	Were the sample(s) received on ice	—		
6	Custody tape/bottle seals	—		
7	Shipper's air bill	—		12E1W8760392009381
8	Condition of samples upon receipt (leaking; bubbles in VOA vials)	—		good
9	Analysis requested for each sample	—		
10	Sample matrix description	—		
11	The correct preservative for the analysis requested	—		
12	Did an SVL employee preserve sample(s) upon receipt		—	
13	Additional Information	—		0.4 12E1W8760392009381

V- Verified NA- Not Applicable

Comments:



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net

Teck Washington Inc.
PO Box 7
Metaline Falls, WA 99153

Project Name: MW and SW Quarterly Samples WA0001317 / WA0001317

Work Order: **X1C0079**

Reported: 19-Mar-21 18:45

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
210302-MW2 / WA0001317_MW2	X1C0079-01	Ground Water	02-Mar-21 11:23	RVS	04-Mar-2021	
210302-MW4 / WA0001317_MW4	X1C0079-02	Ground Water	02-Mar-21 14:43	RVS	04-Mar-2021	
210302-MW5 / WA0001317_MW5	X1C0079-03	Ground Water	02-Mar-21 09:47	RVS	04-Mar-2021	
210302-MW6 / WA0001317_MW6	X1C0079-04	Ground Water	02-Mar-21 11:53	RVS	04-Mar-2021	
210302-MW7 / WA0001317_MW7	X1C0079-05	Ground Water	02-Mar-21 10:56	RVS	04-Mar-2021	
210302-MW8 / WA0001317_MW8	X1C0079-06	Ground Water	02-Mar-21 10:34	RVS	04-Mar-2021	
210302-MW9 / WA0001317_MW9	X1C0079-07	Ground Water	02-Mar-21 09:16	RVS	04-Mar-2021	

Solid samples are analyzed on an as-received, wet-weight basis, unless otherwise requested.

Sample preparation is defined by the client as per their Data Quality Objectives.

This report supercedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section.

Analyses were performed in accordance with SVL standard operating procedures and calibrations were performed and met SVL internal QC criteria.

The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.

This report shall not be reproduced except in full, without the written approval of SVL Analytical, Inc.



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net

Teck Washington Inc.
PO Box 7
Metaline Falls, WA 99153

Project Name: MW and SW Quarterly Samples WA0001317 / WA0001317

Work Order: X1C0079

Reported: 19-Mar-21 18:45

Client Sample ID: 210302-MW2 : WA0001317_MW2

Sampled: 02-Mar-21 11:23

SVL Sample ID: X1C0079-01 (Ground Water)

Received: 04-Mar-21

Sampled By: RVS

Sample Report Page 1 of 1

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X111190	AM	03/17/21 07:55	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.027		X111004	AS	03/17/21 08:19	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0008		X111004	AS	03/17/21 08:19	
EPA 200.7	Calcium	78.7	mg/L	0.100	0.035		X111004	AS	03/17/21 08:19	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0010		X111004	AS	03/17/21 08:19	
EPA 200.7	Magnesium	22.7	mg/L	0.500	0.045		X111004	AS	03/17/21 08:19	
EPA 200.7	Potassium	2.30	mg/L	0.50	0.09		X111004	AS	03/17/21 08:19	
EPA 200.7	Silica (SiO2)	19.5	mg/L	0.17	0.06		X111004	AS	03/17/21 08:19	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0010		X111004	AS	03/17/21 08:19	
EPA 200.7	Sodium	6.19	mg/L	0.50	0.06		X111004	AS	03/17/21 08:19	
EPA 200.8	Copper	< 0.00100	mg/L	0.00100	0.00036	2	X111053	JFB	03/16/21 10:50	
EPA 200.8	Iron	< 0.020	mg/L	0.020	0.012	2	X111053	JFB	03/16/21 10:50	
EPA 200.8	Lead	< 0.00300	mg/L	0.00300	0.00014	2	X111053	JFB	03/16/21 10:50	
EPA 200.8	Manganese	< 0.00100	mg/L	0.00100	0.00033	2	X111053	JFB	03/16/21 10:50	
EPA 200.8	Zinc	< 0.0050	mg/L	0.0050	0.0020	2	X111053	JFB	03/16/21 10:50	
SM 2340 B	Hardness (as CaCO3)	290	mg/L	2.31	0.271		N/A		03/17/21 08:19	
Metals (Dissolved)										
EPA 200.8	Copper	< 0.00100	mg/L	0.00100	0.00036		X111101	JFB	03/15/21 17:59	
EPA 200.8	Lead	< 0.00300	mg/L	0.00300	0.00014		X111101	JFB	03/15/21 17:59	
EPA 200.8	Zinc	< 0.0050	mg/L	0.0050	0.0020		X111101	JFB	03/15/21 17:59	
Classical Chemistry Parameters										
EPA 120.1	Specific conductance@25°C	363	µmhos/cm	5.00			X111020	WJW	03/08/21 14:15	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X112185	DT	03/19/21 12:15	
EPA 353.2	Nitrate+Nitrite as N	0.401	mg/L	0.050	0.040		X111261	DT	03/15/21 14:24	
SM 2320 B	Total Alkalinity	261	mg/L as CaCO3	1.0			X112083	KAG	03/16/21 14:20	
SM 2320 B	Bicarbonate	261	mg/L as CaCO3	1.0			X112083	KAG	03/16/21 14:20	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X112083	KAG	03/16/21 14:20	
SM 2540 C	Total Diss. Solids	354	mg/L	10			X111017	WW	03/08/21 14:45	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X111019	WW	03/08/21 14:15	
SM 4500-P-E	Orthophosphate as P	0.0253	mg/L	0.0100	0.0035		X110195	MWD	03/04/21 13:41	H3
Anions by Ion Chromatography										
EPA 300.0	Chloride	16.2	mg/L	2.00	1.40	10	X110224	RS	03/12/21 00:33	D2
EPA 300.0	Fluoride	< 0.100	mg/L	0.100	0.062		X110224	RS	03/12/21 00:16	
EPA 300.0	Sulfate as SO4	31.4	mg/L	0.30	0.18		X110224	RS	03/12/21 00:16	

Cation/Anion Balance and TDS Ratios

Cation Sum: 6.13 meq/L Anion Sum: 6.36 meq/L C/A Balance: -1.84 % Calculated TDS: 335 TDS/cTDS: 1.06 TDS/eC: 0.98

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Dave Tryon
Project Manager

SVL holds the following certifications:

AZ:0538, ID:ID00019 & ID00965 (Microbiology), NV:ID000192007A, SC:58004001, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 2 of 13



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

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Teck Washington Inc.
PO Box 7
Metaline Falls, WA 99153

Project Name: MW and SW Quarterly Samples WA0001317 / WA0001317Work Order: **X1C0079**

Reported: 19-Mar-21 18:45

Client Sample ID: **210302-MW4 : WA0001317_MW4**SVL Sample ID: **X1C0079-02 (Ground Water)****Sample Report Page 1 of 1**

Sampled: 02-Mar-21 14:43

Received: 04-Mar-21

Sampled By: RVS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Total)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X111190	AM	03/17/21 07:57	
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Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.027		X111004	AS	03/17/21 08:28	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0008		X111004	AS	03/17/21 08:28	
EPA 200.7	Calcium	85.1	mg/L	0.100	0.035		X111004	AS	03/17/21 08:28	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0010		X111004	AS	03/17/21 08:28	
EPA 200.7	Magnesium	33.4	mg/L	0.500	0.045		X111004	AS	03/17/21 08:28	
EPA 200.7	Potassium	3.64	mg/L	0.50	0.09		X111004	AS	03/17/21 08:28	
EPA 200.7	Silica (SiO2)	15.7	mg/L	0.17	0.06		X111004	AS	03/17/21 08:28	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0010		X111004	AS	03/17/21 08:28	
EPA 200.7	Sodium	6.73	mg/L	0.50	0.06		X111004	AS	03/17/21 08:28	
EPA 200.8	Copper	< 0.00100	mg/L	0.00100	0.00036	2	X111053	JFB	03/16/21 10:58	
EPA 200.8	Iron	0.238	mg/L	0.020	0.012	2	X111053	JFB	03/16/21 10:58	
EPA 200.8	Lead	< 0.00300	mg/L	0.00300	0.00014	2	X111053	JFB	03/16/21 10:58	
EPA 200.8	Manganese	0.0465	mg/L	0.00100	0.00033	2	X111053	JFB	03/16/21 10:58	
EPA 200.8	Zinc	< 0.0050	mg/L	0.0050	0.0020	2	X111053	JFB	03/16/21 10:58	
SM 2340 B	Hardness (as CaCO3)	350	mg/L	2.31	0.271		N/A		03/17/21 08:28	

Metals (Dissolved)

EPA 200.8	Copper	< 0.00100	mg/L	0.00100	0.00036		X111101	JFB	03/15/21 18:08	
EPA 200.8	Lead	< 0.00300	mg/L	0.00300	0.00014		X111101	JFB	03/15/21 18:08	
EPA 200.8	Zinc	< 0.0050	mg/L	0.0050	0.0020		X111101	JFB	03/15/21 18:08	

Classical Chemistry Parameters

EPA 120.1	Specific conductance@25°C	435	µmhos/cm	5.00			X111020	WJW	03/08/21 14:15	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X112185	DT	03/19/21 12:17	
EPA 353.2	Nitrate+Nitrite as N	9.10	mg/L	0.100	0.080	2	X111261	DT	03/15/21 15:09	D2
SM 2320 B	Total Alkalinity	272	mg/L as CaCO3	1.0			X112083	KAG	03/16/21 14:27	
SM 2320 B	Bicarbonate	272	mg/L as CaCO3	1.0			X112083	KAG	03/16/21 14:27	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X112083	KAG	03/16/21 14:27	
SM 2540 C	Total Diss. Solids	427	mg/L	10			X111017	WW	03/08/21 14:45	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X111019	WW	03/08/21 14:15	
SM 4500-P-E	Orthophosphate as P	< 0.0100	mg/L	0.0100	0.0035		X110195	MWD	03/04/21 13:41	

Anions by Ion Chromatography

EPA 300.0	Chloride	16.1	mg/L	2.00	1.40	10	X110224	RS	03/12/21 01:43	D2
EPA 300.0	Fluoride	< 0.100	mg/L	0.100	0.062		X110224	RS	03/12/21 01:26	
EPA 300.0	Sulfate as SO4	41.3	mg/L	0.30	0.18		X110224	RS	03/12/21 01:26	

Cation/Anion Balance and TDS Ratios

Cation Sum: 7.40 meq/L Anion Sum: 7.40 meq/L C/A Balance: -0.04 % Calculated TDS: 405 TDS/cTDS: 1.05 TDS/eC: 0.98

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Dave Tryon
Project Manager

SVL holds the following certifications:

AZ:0538, ID:ID00019 & ID00965 (Microbiology), NV:ID000192007A, SC:58004001, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 3 of 13



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

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Teck Washington Inc.
PO Box 7
Metaline Falls, WA 99153

Project Name: MW and SW Quarterly Samples WA0001317 / WA0001317

Work Order: X1C0079

Reported: 19-Mar-21 18:45

Client Sample ID: 210302-MW5 : WA0001317_MW5

Sampled: 02-Mar-21 09:47

Received: 04-Mar-21

Sampled By: RVS

SVL Sample ID: X1C0079-03 (Ground Water)

Sample Report Page 1 of 1

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X111190	AM	03/17/21 07:59	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.027		X111004	AS	03/17/21 08:32	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0008		X111004	AS	03/17/21 08:32	
EPA 200.7	Calcium	164	mg/L	0.100	0.035		X111004	AS	03/17/21 08:32	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0010		X111004	AS	03/17/21 08:32	
EPA 200.7	Magnesium	62.3	mg/L	0.500	0.045		X111004	AS	03/17/21 08:32	
EPA 200.7	Potassium	4.29	mg/L	0.50	0.09		X111004	AS	03/17/21 08:32	
EPA 200.7	Silica (SiO ₂)	23.4	mg/L	0.17	0.06		X111004	AS	03/17/21 08:32	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0010		X111004	AS	03/17/21 08:32	
EPA 200.7	Sodium	5.92	mg/L	0.50	0.06		X111004	AS	03/17/21 08:32	
EPA 200.8	Copper	< 0.00100	mg/L	0.00100	0.00036	2	X111053	JFB	03/16/21 11:01	
EPA 200.8	Iron	< 0.020	mg/L	0.020	0.012	2	X111053	JFB	03/16/21 11:01	
EPA 200.8	Lead	< 0.00300	mg/L	0.00300	0.00014	2	X111053	JFB	03/16/21 11:01	
EPA 200.8	Manganese	< 0.00100	mg/L	0.00100	0.00033	2	X111053	JFB	03/16/21 11:01	
EPA 200.8	Zinc	< 0.0050	mg/L	0.0050	0.0020	2	X111053	JFB	03/16/21 11:01	
SM 2340 B	Hardness (as CaCO ₃)	667	mg/L	2.31	0.271		N/A		03/17/21 08:32	
Metals (Dissolved)										
EPA 200.8	Copper	< 0.00100	mg/L	0.00100	0.00036		X111101	JFB	03/15/21 18:11	
EPA 200.8	Lead	< 0.00300	mg/L	0.00300	0.00014		X111101	JFB	03/15/21 18:11	
EPA 200.8	Zinc	< 0.0050	mg/L	0.0050	0.0020		X111101	JFB	03/15/21 18:11	
Classical Chemistry Parameters										
EPA 120.1	Specific conductance@25°C	749	µmhos/cm	5.00			X111020	WJW	03/08/21 14:15	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X112185	DT	03/19/21 12:19	
EPA 353.2	Nitrate+Nitrite as N	0.088	mg/L	0.050	0.040		X111261	DT	03/15/21 14:37	
SM 2320 B	Total Alkalinity	337	mg/L as CaCO ₃	1.0			X112083	KAG	03/16/21 14:38	
SM 2320 B	Bicarbonate	337	mg/L as CaCO ₃	1.0			X112083	KAG	03/16/21 14:38	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO ₃	1.0			X112083	KAG	03/16/21 14:38	
SM 2540 C	Total Diss. Solids	868	mg/L	10			X111017	WW	03/08/21 14:45	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X111019	WW	03/08/21 14:15	
SM 4500-P-E	Orthophosphate as P	0.0689	mg/L	0.0100	0.0035		X110195	MWD	03/04/21 13:42	H3
Anions by Ion Chromatography										
EPA 300.0	Chloride	3.01	mg/L	0.20	0.14		X110224	RS	03/12/21 03:11	
EPA 300.0	Fluoride	< 0.100	mg/L	0.100	0.062		X110224	RS	03/12/21 03:11	
EPA 300.0	Sulfate as SO ₄	352	mg/L	3.00	1.80	10	X110224	RS	03/12/21 03:28	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 13.7 meq/L Anion Sum: 14.2 meq/L C/A Balance: -1.71 % Calculated TDS: 818 TDS/cTDS: 1.06 TDS/eC: 1.16

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Dave Tryon
Project Manager

SVL holds the following certifications:

AZ:0538, ID:ID00019 & ID00965 (Microbiology), NV:ID000192007A, SC:58004001, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 4 of 13



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Kellogg, ID 83837-0929

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Teck Washington Inc.
PO Box 7
Metaline Falls, WA 99153

Project Name: MW and SW Quarterly Samples WA0001317 / WA0001317Work Order: **X1C0079**

Reported: 19-Mar-21 18:45

Client Sample ID: **210302-MW6 : WA0001317_MW6**

Sampled: 02-Mar-21 11:53

SVL Sample ID: **X1C0079-04 (Ground Water)****Sample Report Page 1 of 1**

Received: 04-Mar-21

Sampled By: RVS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X111190	AM	03/17/21 08:08	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.027		X111004	AS	03/17/21 08:35	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0008		X111004	AS	03/17/21 08:35	
EPA 200.7	Calcium	115	mg/L	0.100	0.035		X111004	AS	03/17/21 08:35	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0010		X111004	AS	03/17/21 08:35	
EPA 200.7	Magnesium	38.9	mg/L	0.500	0.045		X111004	AS	03/17/21 08:35	
EPA 200.7	Potassium	3.43	mg/L	0.50	0.09		X111004	AS	03/17/21 08:35	
EPA 200.7	Silica (SiO2)	19.3	mg/L	0.17	0.06		X111004	AS	03/17/21 08:35	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0010		X111004	AS	03/17/21 08:35	
EPA 200.7	Sodium	4.48	mg/L	0.50	0.06		X111004	AS	03/17/21 08:35	
EPA 200.8	Copper	< 0.00100	mg/L	0.00100	0.00036	2	X111053	JFB	03/16/21 11:04	
EPA 200.8	Iron	< 0.020	mg/L	0.020	0.012	2	X111053	JFB	03/16/21 11:04	
EPA 200.8	Lead	< 0.00300	mg/L	0.00300	0.00014	2	X111053	JFB	03/16/21 11:04	
EPA 200.8	Manganese	0.0413	mg/L	0.00100	0.00033	2	X111053	JFB	03/16/21 11:04	
EPA 200.8	Zinc	< 0.0050	mg/L	0.0050	0.0020	2	X111053	JFB	03/16/21 11:04	
SM 2340 B	Hardness (as CaCO3)	446	mg/L	2.31	0.271		N/A		03/17/21 08:35	
Metals (Dissolved)										
EPA 200.8	Copper	< 0.00100	mg/L	0.00100	0.00036		X111101	JFB	03/15/21 18:14	
EPA 200.8	Lead	< 0.00300	mg/L	0.00300	0.00014		X111101	JFB	03/15/21 18:14	
EPA 200.8	Zinc	< 0.0050	mg/L	0.0050	0.0020		X111101	JFB	03/15/21 18:14	
Classical Chemistry Parameters										
EPA 120.1	Specific conductance@25°C	505	µmhos/cm	5.00			X111020	WJW	03/08/21 14:15	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X112185	DT	03/19/21 12:21	
EPA 353.2	Nitrate+Nitrite as N	0.050	mg/L	0.050	0.040		X111261	DT	03/15/21 14:39	
SM 2320 B	Total Alkalinity	269	mg/L as CaCO3	1.0			X112083	KAG	03/16/21 14:47	
SM 2320 B	Bicarbonate	269	mg/L as CaCO3	1.0			X112083	KAG	03/16/21 14:47	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X112083	KAG	03/16/21 14:47	
SM 2540 C	Total Diss. Solids	551	mg/L	10			X111017	WW	03/08/21 14:45	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X111019	WW	03/08/21 14:15	
SM 4500-P-E	Orthophosphate as P	0.0841	mg/L	0.0100	0.0035		X110195	MWD	03/04/21 13:42	H3
Anions by Ion Chromatography										
EPA 300.0	Chloride	4.63	mg/L	0.20	0.14		X110224	RS	03/12/21 03:46	
EPA 300.0	Fluoride	< 0.100	mg/L	0.100	0.062		X110224	RS	03/12/21 03:46	
EPA 300.0	Sulfate as SO4	173	mg/L	3.00	1.80	10	X110224	RS	03/12/21 04:04	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 9.23 meq/L Anion Sum: 9.12 meq/L C/A Balance: 0.61 % Calculated TDS: 521 TDS/cTDS: 1.06 TDS/eC: 1.09

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Dave Tryon
Project Manager

SVL holds the following certifications:

AZ:0538, ID:ID00019 & ID00965 (Microbiology), NV:ID000192007A, SC:58004001, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 5 of 13



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

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Teck Washington Inc.
PO Box 7
Metaline Falls, WA 99153

Project Name: MW and SW Quarterly Samples WA0001317 / WA0001317

Work Order: X1C0079

Reported: 19-Mar-21 18:45

Client Sample ID: 210302-MW7 : WA0001317_MW7

Sampled: 02-Mar-21 10:56

Received: 04-Mar-21

Sampled By: RVS

SVL Sample ID: X1C0079-05 (Ground Water)

Sample Report Page 1 of 1

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X111190	AM	03/17/21 08:10	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.027		X111004	AS	03/17/21 08:38	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0008		X111004	AS	03/17/21 08:38	
EPA 200.7	Calcium	97.1	mg/L	0.100	0.035		X111004	AS	03/17/21 08:38	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0010		X111004	AS	03/17/21 08:38	
EPA 200.7	Magnesium	32.4	mg/L	0.500	0.045		X111004	AS	03/17/21 08:38	
EPA 200.7	Potassium	3.12	mg/L	0.50	0.09		X111004	AS	03/17/21 08:38	
EPA 200.7	Silica (SiO ₂)	20.7	mg/L	0.17	0.06		X111004	AS	03/17/21 08:38	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0010		X111004	AS	03/17/21 08:38	
EPA 200.7	Sodium	4.93	mg/L	0.50	0.06		X111004	AS	03/17/21 08:38	
EPA 200.8	Copper	< 0.00100	mg/L	0.00100	0.00036	2	X111053	JFB	03/16/21 11:13	
EPA 200.8	Iron	< 0.020	mg/L	0.020	0.012	2	X111053	JFB	03/16/21 11:13	
EPA 200.8	Lead	< 0.00300	mg/L	0.00300	0.00014	2	X111053	JFB	03/16/21 11:13	
EPA 200.8	Manganese	< 0.00100	mg/L	0.00100	0.00033	2	X111053	JFB	03/16/21 11:13	
EPA 200.8	Zinc	< 0.0050	mg/L	0.0050	0.0020	2	X111053	JFB	03/16/21 11:13	
SM 2340 B	Hardness (as CaCO ₃)	376	mg/L	2.31	0.271		N/A		03/17/21 08:38	
Metals (Dissolved)										
EPA 200.8	Copper	< 0.00100	mg/L	0.00100	0.00036		X111101	JFB	03/15/21 18:17	
EPA 200.8	Lead	< 0.00300	mg/L	0.00300	0.00014		X111101	JFB	03/15/21 18:17	
EPA 200.8	Zinc	< 0.0050	mg/L	0.0050	0.0020		X111101	JFB	03/15/21 18:17	
Classical Chemistry Parameters										
EPA 120.1	Specific conductance@25°C	439	µmhos/cm	5.00			X111020	WJW	03/08/21 14:15	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X112185	DT	03/19/21 12:23	
EPA 353.2	Nitrate+Nitrite as N	0.212	mg/L	0.050	0.040		X111261	DT	03/15/21 14:41	
SM 2320 B	Total Alkalinity	333	mg/L as CaCO ₃	1.0			X112083	KAG	03/16/21 14:54	
SM 2320 B	Bicarbonate	333	mg/L as CaCO ₃	1.0			X112083	KAG	03/16/21 14:54	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO ₃	1.0			X112083	KAG	03/16/21 14:54	
SM 2540 C	Total Diss. Solids	420	mg/L	10			X111017	WW	03/08/21 14:45	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X111019	WW	03/08/21 14:15	
SM 4500-P-E	Orthophosphate as P	0.0457	mg/L	0.0100	0.0035		X110195	MWD	03/04/21 13:43	H3
Anions by Ion Chromatography										
EPA 300.0	Chloride	4.15	mg/L	0.20	0.14		X110224	RS	03/11/21 19:35	
EPA 300.0	Fluoride	< 0.100	mg/L	0.100	0.062		X110224	RS	03/11/21 19:35	
EPA 300.0	Sulfate as SO ₄	54.2	mg/L	3.00	1.80	10	X110224	RS	03/11/21 19:52	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 7.81 meq/L Anion Sum: 7.92 meq/L C/A Balance: -0.69 % Calculated TDS: 417 TDS/cTDS: 1.01 TDS/eC: 0.96

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Dave Tryon
Project Manager

SVL holds the following certifications:

AZ:0538, ID:ID00019 & ID00965 (Microbiology), NV:ID000192007A, SC:58004001, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 6 of 13



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

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Teck Washington Inc.
PO Box 7
Metaline Falls, WA 99153

Project Name: MW and SW Quarterly Samples WA0001317 / WA0001317

Work Order: X1C0079

Reported: 19-Mar-21 18:45

Client Sample ID: 210302-MW8 : WA0001317_MW8

SVL Sample ID: X1C0079-06 (Ground Water)

Sample Report Page 1 of 1

Sampled: 02-Mar-21 10:34

Received: 04-Mar-21

Sampled By: RVS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X111190	AM	03/17/21 08:12	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.027		X111004	AS	03/17/21 08:42	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0008		X111004	AS	03/17/21 08:42	
EPA 200.7	Calcium	111	mg/L	0.100	0.035		X111004	AS	03/17/21 08:42	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0010		X111004	AS	03/17/21 08:42	
EPA 200.7	Magnesium	37.5	mg/L	0.500	0.045		X111004	AS	03/17/21 08:42	
EPA 200.7	Potassium	3.46	mg/L	0.50	0.09		X111004	AS	03/17/21 08:42	
EPA 200.7	Silica (SiO ₂)	18.8	mg/L	0.17	0.06		X111004	AS	03/17/21 08:42	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0010		X111004	AS	03/17/21 08:42	
EPA 200.7	Sodium	4.67	mg/L	0.50	0.06		X111004	AS	03/17/21 08:42	
EPA 200.8	Copper	< 0.00100	mg/L	0.00100	0.00036	2	X111053	JFB	03/16/21 11:16	
EPA 200.8	Iron	0.172	mg/L	0.020	0.012	2	X111053	JFB	03/16/21 11:16	
EPA 200.8	Lead	< 0.00300	mg/L	0.00300	0.00014	2	X111053	JFB	03/16/21 11:16	
EPA 200.8	Manganese	0.0517	mg/L	0.00100	0.00033	2	X111053	JFB	03/16/21 11:16	
EPA 200.8	Zinc	< 0.0050	mg/L	0.0050	0.0020	2	X111053	JFB	03/16/21 11:16	
SM 2340 B	Hardness (as CaCO ₃)	431	mg/L	2.31	0.271		N/A		03/17/21 08:42	
Metals (Dissolved)										
EPA 200.8	Copper	< 0.00100	mg/L	0.00100	0.00036		X111101	JFB	03/15/21 18:31	
EPA 200.8	Lead	< 0.00300	mg/L	0.00300	0.00014		X111101	JFB	03/15/21 18:31	
EPA 200.8	Zinc	< 0.0050	mg/L	0.0050	0.0020		X111101	JFB	03/15/21 18:31	
Classical Chemistry Parameters										
EPA 120.1	Specific conductance@25°C	488	µmhos/cm	5.00			X111020	WJW	03/08/21 14:15	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X112185	DT	03/19/21 12:35	
EPA 353.2	Nitrate+Nitrite as N	< 0.050	mg/L	0.050	0.040		X111261	DT	03/15/21 14:43	
SM 2320 B	Total Alkalinity	273	mg/L as CaCO ₃	1.0			X112083	KAG	03/16/21 15:02	
SM 2320 B	Bicarbonate	273	mg/L as CaCO ₃	1.0			X112083	KAG	03/16/21 15:02	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO ₃	1.0			X112083	KAG	03/16/21 15:02	
SM 2540 C	Total Diss. Solids	537	mg/L	10			X111017	WW	03/08/21 14:45	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X111019	WW	03/08/21 14:15	
SM 4500-P-E	Orthophosphate as P	0.0653	mg/L	0.0100	0.0035		X110195	MWD	03/04/21 13:43	H3
Anions by Ion Chromatography										
EPA 300.0	Chloride	5.56	mg/L	0.20	0.14		X110224	RS	03/11/21 20:10	
EPA 300.0	Fluoride	< 0.100	mg/L	0.100	0.062		X110224	RS	03/11/21 20:10	
EPA 300.0	Sulfate as SO ₄	153	mg/L	3.00	1.80	10	X110224	RS	03/11/21 20:27	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 8.93 meq/L Anion Sum: 8.81 meq/L C/A Balance: 0.70 % Calculated TDS: 498 TDS/cTDS: 1.08 TDS/eC: 1.10

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Dave Tryon
Project Manager

SVL holds the following certifications:

AZ:0538, ID:ID00019 & ID00965 (Microbiology), NV:ID000192007A, SC:58004001, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 7 of 13



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

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Teck Washington Inc.
PO Box 7
Metaline Falls, WA 99153

Project Name: MW and SW Quarterly Samples WA0001317 / WA0001317Work Order: **X1C0079**

Reported: 19-Mar-21 18:45

Client Sample ID: **210302-MW9 : WA0001317_MW9**

Sampled: 02-Mar-21 09:16

SVL Sample ID: **X1C0079-07 (Ground Water)**

Received: 04-Mar-21

Sampled By: RVS

Sample Report Page 1 of 1

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Total)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X111190	AM	03/17/21 08:13	
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Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.027		X111004	AS	03/17/21 08:53	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0008		X111004	AS	03/17/21 08:53	
EPA 200.7	Calcium	163	mg/L	0.100	0.035		X111004	AS	03/17/21 08:53	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0010		X111004	AS	03/17/21 08:53	
EPA 200.7	Magnesium	71.0	mg/L	0.500	0.045		X111004	AS	03/17/21 08:53	
EPA 200.7	Potassium	4.81	mg/L	0.50	0.09		X111004	AS	03/17/21 08:53	
EPA 200.7	Silica (SiO ₂)	23.7	mg/L	0.17	0.06		X111004	AS	03/17/21 08:53	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0010		X111004	AS	03/17/21 08:53	
EPA 200.7	Sodium	6.76	mg/L	0.50	0.06		X111004	AS	03/17/21 08:53	
EPA 200.8	Copper	< 0.00100	mg/L	0.00100	0.00036	2	X111053	JFB	03/16/21 11:19	
EPA 200.8	Iron	< 0.020	mg/L	0.020	0.012	2	X111053	JFB	03/16/21 11:19	
EPA 200.8	Lead	< 0.00300	mg/L	0.00300	0.00014	2	X111053	JFB	03/16/21 11:19	
EPA 200.8	Manganese	< 0.00100	mg/L	0.00100	0.00033	2	X111053	JFB	03/16/21 11:19	
EPA 200.8	Zinc	< 0.0050	mg/L	0.0050	0.0020	2	X111053	JFB	03/16/21 11:19	
SM 2340 B	Hardness (as CaCO ₃)	700	mg/L	2.31	0.271		N/A		03/17/21 08:53	

Metals (Dissolved)

EPA 200.8	Copper	< 0.00100	mg/L	0.00100	0.00036		X111101	JFB	03/15/21 18:34	
EPA 200.8	Lead	< 0.00300	mg/L	0.00300	0.00014		X111101	JFB	03/15/21 18:34	
EPA 200.8	Zinc	< 0.0050	mg/L	0.0050	0.0020		X111101	JFB	03/15/21 18:34	

Classical Chemistry Parameters

EPA 120.1	Specific conductance@25°C	787	µmhos/cm	5.00			X111020	WJW	03/08/21 14:15	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X112185	DT	03/19/21 12:37	
EPA 353.2	Nitrate+Nitrite as N	< 0.050	mg/L	0.050	0.040		X111260	HJL	03/17/21 12:21	
SM 2320 B	Total Alkalinity	299	mg/L as CaCO ₃	1.0			X112083	KAG	03/16/21 15:10	
SM 2320 B	Bicarbonate	299	mg/L as CaCO ₃	1.0			X112083	KAG	03/16/21 15:10	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO ₃	1.0			X112083	KAG	03/16/21 15:10	
SM 2540 C	Total Diss. Solids	920	mg/L	10			X111017	WW	03/08/21 14:45	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X111019	WW	03/08/21 14:15	
SM 4500-P-E	Orthophosphate as P	0.0879	mg/L	0.0100	0.0035		X110195	MWD	03/04/21 13:45	H3

Anions by Ion Chromatography

EPA 300.0	Chloride	3.34	mg/L	0.20	0.14		X110224	RS	03/11/21 20:45	
EPA 300.0	Fluoride	< 0.100	mg/L	0.100	0.062		X110224	RS	03/11/21 20:45	
EPA 300.0	Sulfate as SO ₄	410	mg/L	3.00	1.80	10	X110224	RS	03/11/21 21:03	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 14.4 meq/L Anion Sum: 14.6 meq/L C/A Balance: -0.74 % Calculated TDS: 862 TDS/cTDS: 1.07 TDS/eC: 1.17

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Dave Tryon
Project Manager

SVL holds the following certifications:

AZ:0538, ID:ID00019 & ID00965 (Microbiology), NV:ID000192007A, SC:58004001, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 8 of 13



Teck Washington Inc.
PO Box 7
Metaline Falls, WA 99153

Project Name: MW and SW Quarterly Samples WA0001317 / WA0001317

Work Order: X1C0079

Reported: 19-Mar-21 18:45

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X111190	17-Mar-21	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Aluminum	mg/L	<0.080	0.027	0.080	X111004	17-Mar-21	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0008	0.0020	X111004	17-Mar-21	
EPA 200.7	Calcium	mg/L	<0.100	0.035	0.100	X111004	17-Mar-21	
EPA 200.7	Chromium	mg/L	<0.0060	0.0010	0.0060	X111004	17-Mar-21	
EPA 200.7	Magnesium	mg/L	<0.500	0.045	0.500	X111004	17-Mar-21	
EPA 200.7	Potassium	mg/L	<0.50	0.09	0.50	X111004	17-Mar-21	
EPA 200.7	Silica (SiO ₂)	mg/L	<0.17	0.06	0.17	X111004	17-Mar-21	
EPA 200.7	Silver	mg/L	<0.0050	0.0010	0.0050	X111004	17-Mar-21	
EPA 200.7	Sodium	mg/L	<0.50	0.06	0.50	X111004	17-Mar-21	
EPA 200.8	Copper	mg/L	<0.00100	0.00036	0.00100	X111053	16-Mar-21	
EPA 200.8	Iron	mg/L	<0.020	0.012	0.020	X111053	16-Mar-21	
EPA 200.8	Lead	mg/L	<0.00300	0.00014	0.00300	X111053	16-Mar-21	
EPA 200.8	Manganese	mg/L	<0.00100	0.00033	0.00100	X111053	16-Mar-21	
EPA 200.8	Zinc	mg/L	<0.0050	0.0020	0.0050	X111053	16-Mar-21	
Metals (Dissolved)								
EPA 200.8	Copper	mg/L	<0.00100	0.00036	0.00100	X111101	15-Mar-21	
EPA 200.8	Copper	mg/L	<0.00100	0.00036	0.00100	X111101	15-Mar-21	
EPA 200.8	Lead	mg/L	<0.00300	0.00014	0.00300	X111101	15-Mar-21	
EPA 200.8	Lead	mg/L	<0.00300	0.00014	0.00300	X111101	15-Mar-21	
EPA 200.8	Zinc	mg/L	<0.0050	0.0020	0.0050	X111101	15-Mar-21	
EPA 200.8	Zinc	mg/L	<0.0050	0.0020	0.0050	X111101	15-Mar-21	
Classical Chemistry Parameters								
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X112185	19-Mar-21	
EPA 353.2	Nitrate+Nitrite as N	mg/L	<0.050	0.040	0.050	X111260	17-Mar-21	
EPA 353.2	Nitrate+Nitrite as N	mg/L	<0.050	0.040	0.050	X111261	15-Mar-21	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	<1.0		1.0	X112083	16-Mar-21	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	<1.0		1.0	X112083	16-Mar-21	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0		1.0	X112083	16-Mar-21	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X111017	08-Mar-21	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X111019	08-Mar-21	
SM 4500-P-E	Orthophosphate as P	mg/L	<0.0100	0.0035	0.0100	X110195	04-Mar-21	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.14	0.20	X110224	11-Mar-21	
EPA 300.0	Fluoride	mg/L	<0.100	0.062	0.100	X110224	11-Mar-21	
EPA 300.0	Sulfate as SO ₄	mg/L	<0.30	0.18	0.30	X110224	11-Mar-21	

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total)									
EPA 245.1	Mercury	mg/L	0.00476	0.00500	95.2	85 - 115	X111190	17-Mar-21	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)									
EPA 200.7	Aluminum	mg/L	1.01	1.00	101	85 - 115	X111004	17-Mar-21	
EPA 200.7	Cadmium	mg/L	1.00	1.00	100	85 - 115	X111004	17-Mar-21	
EPA 200.7	Calcium	mg/L	19.2	20.0	96.2	85 - 115	X111004	17-Mar-21	
EPA 200.7	Chromium	mg/L	1.02	1.00	102	85 - 115	X111004	17-Mar-21	
EPA 200.7	Magnesium	mg/L	19.2	20.0	96.2	85 - 115	X111004	17-Mar-21	
EPA 200.7	Potassium	mg/L	20.0	20.0	100	85 - 115	X111004	17-Mar-21	
EPA 200.7	Silica (SiO ₂)	mg/L	10.0	10.7	93.6	85 - 115	X111004	17-Mar-21	

SVL holds the following certifications:

AZ:0538, ID:ID00019 & ID00965 (Microbiology), NV:ID000192007A, SC:58004001, UT(TNI):ID000192015-1, WA:C573



Teck Washington Inc.
PO Box 7
Metaline Falls, WA 99153

Project Name: MW and SW Quarterly Samples WA0001317 / WA0001317

Work Order: X1C0079

Reported: 19-Mar-21 18:45

Quality Control - LABORATORY CONTROL SAMPLE Data (Continued)

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136) (Continued)									
EPA 200.7	Silver	mg/L	0.0474	0.0500	94.8	85 - 115	X111004	17-Mar-21	
EPA 200.7	Sodium	mg/L	18.1	19.0	95.5	85 - 115	X111004	17-Mar-21	
EPA 200.8	Copper	mg/L	0.0246	0.0250	98.4	85 - 115	X111053	16-Mar-21	
EPA 200.8	Iron	mg/L	0.189	0.195	97.0	85 - 115	X111053	16-Mar-21	
EPA 200.8	Lead	mg/L	0.0234	0.0250	93.7	85 - 115	X111053	16-Mar-21	
EPA 200.8	Manganese	mg/L	0.0242	0.0250	96.6	85 - 115	X111053	16-Mar-21	
EPA 200.8	Zinc	mg/L	0.0244	0.0250	97.6	85 - 115	X111053	16-Mar-21	

Metals (Dissolved)

EPA 200.8	Copper	mg/L	0.0253	0.0250	101	85 - 115	X111101	15-Mar-21	
EPA 200.8	Lead	mg/L	0.0241	0.0250	96.4	85 - 115	X111101	15-Mar-21	
EPA 200.8	Zinc	mg/L	0.0265	0.0250	106	85 - 115	X111101	15-Mar-21	

Classical Chemistry Parameters

EPA 120.1	Specific conductance@25°C	µmhos/cm	402	415	96.9	94.4 - 106	X111020	08-Mar-21	
EPA 350.1	Ammonia as N	mg/L	1.09	1.00	109	90 - 110	X112185	19-Mar-21	
EPA 353.2	Nitrate+Nitrite as N	mg/L	2.07	2.00	104	90 - 110	X111261	15-Mar-21	
EPA 353.2	Nitrate+Nitrite as N	mg/L	2.05	2.00	103	90 - 110	X111260	17-Mar-21	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	97.5	99.3	98.2	94.3 - 106	X112083	16-Mar-21	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	98.7	99.3	99.4	94.3 - 106	X112083	16-Mar-21	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	97.5	99.3	98.2	95.1 - 106	X112083	16-Mar-21	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	98.7	99.3	99.4	95.1 - 106	X112083	16-Mar-21	
SM 4500-P-E	Orthophosphate as P	mg/L	0.737	0.743	99.2	90 - 110	X110195	04-Mar-21	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.04	3.00	101	90 - 110	X110224	11-Mar-21	
EPA 300.0	Fluoride	mg/L	2.00	2.00	100	90 - 110	X110224	11-Mar-21	
EPA 300.0	Sulfate as SO ₄	mg/L	10.3	10.0	103	90 - 110	X110224	11-Mar-21	

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
EPA 120.1	Specific conductance@25°C	µmhos/cm	363	363	0.0	20	X111020 - X1C0079-01	08-Mar-21	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X112083 - X1C0044-01	16-Mar-21	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X112083 - X1C0044-01	16-Mar-21	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X112083 - X1C0044-01	16-Mar-21	
SM 2540 C	Total Diss. Solids	mg/L	264	286	8.0	10	X111017 - X1C0081-02	08-Mar-21	
SM 2540 C	Total Diss. Solids	mg/L	415	427	2.9	10	X111017 - X1C0079-02	08-Mar-21	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X111019 - X1C0081-02	08-Mar-21	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X111019 - X1C0079-02	08-Mar-21	



Teck Washington Inc.
PO Box 7
Metaline Falls, WA 99153

Project Name: MW and SW Quarterly Samples WA0001317 / WA0001317

Work Order: X1C0079

Reported: 19-Mar-21 18:45

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total)										
EPA 245.1	Mercury	mg/L	0.00104	<0.000200	0.00100	104	70 - 130	X111190 - X1C0079-03	17-Mar-21	
EPA 245.1	Mercury	mg/L	0.00104	<0.000200	0.00100	104	70 - 130	X111190 - X1C0114-07	17-Mar-21	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Aluminum	mg/L	1.02	<0.080	1.00	102	70 - 130	X111004 - X1C0079-01	17-Mar-21	
EPA 200.7	Aluminum	mg/L	0.999	<0.080	1.00	99.9	70 - 130	X111004 - X1C0114-07	17-Mar-21	
EPA 200.7	Cadmium	mg/L	1.02	<0.0020	1.00	102	70 - 130	X111004 - X1C0079-01	17-Mar-21	
EPA 200.7	Cadmium	mg/L	1.01	<0.0020	1.00	101	70 - 130	X111004 - X1C0114-07	17-Mar-21	
EPA 200.7	Calcium	mg/L	101	78.7	20.0	110	70 - 130	X111004 - X1C0079-01	17-Mar-21	
EPA 200.7	Calcium	mg/L	57.0	39.1	20.0	89.8	70 - 130	X111004 - X1C0114-07	17-Mar-21	
EPA 200.7	Chromium	mg/L	1.03	<0.0060	1.00	103	70 - 130	X111004 - X1C0079-01	17-Mar-21	
EPA 200.7	Chromium	mg/L	1.01	<0.0060	1.00	101	70 - 130	X111004 - X1C0114-07	17-Mar-21	
EPA 200.7	Magnesium	mg/L	42.9	22.7	20.0	101	70 - 130	X111004 - X1C0079-01	17-Mar-21	
EPA 200.7	Magnesium	mg/L	37.3	18.8	20.0	92.4	70 - 130	X111004 - X1C0114-07	17-Mar-21	
EPA 200.7	Potassium	mg/L	23.1	2.30	20.0	104	70 - 130	X111004 - X1C0079-01	17-Mar-21	
EPA 200.7	Potassium	mg/L	26.4	6.46	20.0	99.9	70 - 130	X111004 - X1C0114-07	17-Mar-21	
EPA 200.7	Silica (SiO2)	mg/L	30.5	19.5	10.7	103	70 - 130	X111004 - X1C0079-01	17-Mar-21	
EPA 200.7	Silica (SiO2)	mg/L	32.1	22.6	10.7	88.7	70 - 130	X111004 - X1C0114-07	17-Mar-21	
EPA 200.7	Silver	mg/L	0.0491	<0.0050	0.0500	98.2	70 - 130	X111004 - X1C0079-01	17-Mar-21	
EPA 200.7	Silver	mg/L	0.0483	<0.0050	0.0500	96.6	70 - 130	X111004 - X1C0114-07	17-Mar-21	
EPA 200.7	Sodium	mg/L	25.3	6.19	19.0	101	70 - 130	X111004 - X1C0079-01	17-Mar-21	
EPA 200.7	Sodium	mg/L	49.4	31.8	19.0	92.6	70 - 130	X111004 - X1C0114-07	17-Mar-21	
EPA 200.8	Copper	mg/L	0.0236	<0.00100	0.0250	94.3	70 - 130	X111053 - X1C0079-01	16-Mar-21	
EPA 200.8	Iron	mg/L	0.189	<0.020	0.195	97.0	70 - 130	X111053 - X1C0079-01	16-Mar-21	
EPA 200.8	Lead	mg/L	0.0223	<0.00300	0.0250	89.1	70 - 130	X111053 - X1C0079-01	16-Mar-21	
EPA 200.8	Manganese	mg/L	0.0240	<0.00100	0.0250	96.1	70 - 130	X111053 - X1C0079-01	16-Mar-21	
EPA 200.8	Zinc	mg/L	0.0245	<0.0050	0.0250	98.1	70 - 130	X111053 - X1C0079-01	16-Mar-21	
Metals (Dissolved)										
EPA 200.8	Copper	mg/L	0.0241	<0.00100	0.0250	94.2	70 - 130	X111101 - X1C0079-01	15-Mar-21	
EPA 200.8	Lead	mg/L	0.0227	<0.00300	0.0250	91.0	70 - 130	X111101 - X1C0079-01	15-Mar-21	
EPA 200.8	Zinc	mg/L	0.0247	<0.0050	0.0250	98.9	70 - 130	X111101 - X1C0079-01	15-Mar-21	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	mg/L	1.07	<0.030	1.00	107	90 - 110	X112185 - X1C0079-01	19-Mar-21	
EPA 350.1	Ammonia as N	mg/L	1.06	<0.030	1.00	106	90 - 110	X112185 - X1C0110-01	19-Mar-21	
EPA 353.2	Nitrate+Nitrite as N	mg/L	4.95	2.95	2.00	100	90 - 110	X111261 - X1C0048-01	15-Mar-21	
EPA 353.2	Nitrate+Nitrite as N	mg/L	2.60	0.401	2.00	110	90 - 110	X111261 - X1C0079-01	15-Mar-21	
EPA 353.2	Nitrate+Nitrite as N	mg/L	2.24	0.158	2.00	104	90 - 110	X111260 - X1C0081-01	17-Mar-21	
EPA 353.2	Nitrate+Nitrite as N	mg/L	2.06	<0.050	2.00	103	90 - 110	X111260 - X1C0108-01	17-Mar-21	
SM 4500-P-E	Orthophosphate as P	mg/L	0.542	0.0253	0.500	103	75 - 125	X110195 - X1C0079-01	04-Mar-21	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	19.3	16.1	3.00	109	90 - 110	X110224 - X1C0079-02	12-Mar-21	D2
EPA 300.0	Fluoride	mg/L	1.90	<0.100	2.00	91.5	90 - 110	X110224 - X1C0079-02	12-Mar-21	
EPA 300.0	Sulfate as SO4	mg/L	51.2	41.3	10.0	99.5	90 - 110	X110224 - X1C0079-02	12-Mar-21	



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net

Teck Washington Inc.
PO Box 7
Metaline Falls, WA 99153

Project Name: MW and SW Quarterly Samples WA0001317 / WA0001317Work Order: **X1C0079**

Reported: 19-Mar-21 18:45

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Total)										
EPA 245.1	Mercury	mg/L	0.00105	0.00104	0.00100	1.0	20	105	X111190 - X1C0079-03	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Aluminum	mg/L	1.01	1.02	1.00	1.4	20	101	X111004 - X1C0079-01	
EPA 200.7	Cadmium	mg/L	1.02	1.02	1.00	0.3	20	102	X111004 - X1C0079-01	
EPA 200.7	Calcium	mg/L	100	101	20.0	0.5	20	108	X111004 - X1C0079-01	
EPA 200.7	Chromium	mg/L	1.02	1.03	1.00	0.6	20	102	X111004 - X1C0079-01	
EPA 200.7	Magnesium	mg/L	42.4	42.9	20.0	1.3	20	98.7	X111004 - X1C0079-01	
EPA 200.7	Potassium	mg/L	22.9	23.1	20.0	1.0	20	103	X111004 - X1C0079-01	
EPA 200.7	Silica (SiO2)	mg/L	30.3	30.5	10.7	0.9	20	101	X111004 - X1C0079-01	
EPA 200.7	Silver	mg/L	0.0492	0.0491	0.0500	0.3	20	98.5	X111004 - X1C0079-01	
EPA 200.7	Sodium	mg/L	24.9	25.3	19.0	1.4	20	98.6	X111004 - X1C0079-01	
EPA 200.8	Copper	mg/L	0.0242	0.0236	0.0250	2.7	20	96.9	X111053 - X1C0079-01	
EPA 200.8	Iron	mg/L	0.193	0.189	0.195	2.2	20	99.1	X111053 - X1C0079-01	
EPA 200.8	Lead	mg/L	0.0232	0.0223	0.0250	4.0	20	92.8	X111053 - X1C0079-01	
EPA 200.8	Manganese	mg/L	0.0250	0.0240	0.0250	3.8	20	99.8	X111053 - X1C0079-01	
EPA 200.8	Zinc	mg/L	0.0252	0.0245	0.0250	2.7	20	101	X111053 - X1C0079-01	
Metals (Dissolved)										
EPA 200.8	Copper	mg/L	0.0226	0.0241	0.0250	6.3	20	88.4	X111101 - X1C0079-01	
EPA 200.8	Lead	mg/L	0.0214	0.0227	0.0250	6.0	20	85.6	X111101 - X1C0079-01	
EPA 200.8	Zinc	mg/L	0.0231	0.0247	0.0250	6.8	20	92.4	X111101 - X1C0079-01	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	mg/L	1.02	1.07	1.00	4.6	20	102	X112185 - X1C0079-01	
EPA 353.2	Nitrate+Nitrite as N	mg/L	2.24	2.24	2.00	0.2	20	104	X11260 - X1C0081-01	
EPA 353.2	Nitrate+Nitrite as N	mg/L	4.99	4.95	2.00	0.8	20	102	X11261 - X1C0048-01	
SM 4500-P-E	Orthophosphate as P	mg/L	0.542	0.542	0.500	0.1	20	103	X110195 - X1C0079-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	18.9	19.3	3.00	2.2	20	95.0	X110224 - X1C0079-02	D2
EPA 300.0	Fluoride	mg/L	1.92	1.90	2.00	1.1	20	92.5	X110224 - X1C0079-02	
EPA 300.0	Sulfate as SO4	mg/L	51.1	51.2	10.0	0.2	20	98.8	X110224 - X1C0079-02	

SVL holds the following certifications:

AZ:0538, ID:ID00019 & ID00965 (Microbiology), NV:ID000192007A, SC:58004001, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 12 of 13



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

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Teck Washington Inc.
PO Box 7
Metaline Falls, WA 99153

Project Name: MW and SW Quarterly Samples WA0001317 / WA0001317

Work Order: **X1C0079**

Reported: 19-Mar-21 18:45

Notes and Definitions

D2	Sample required dilution due to high concentration of target analyte.
H3	Sample was received and/or analysis requested past holding time.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

SVL holds the following certifications:

AZ:0538, ID:ID00019 & ID00965 (Microbiology), NV:ID000192007A, SC:58004001, UT(TNI):ID000192015-1, WA:C573



Quarterly Surface Water Sample Logbook

No.: 00010
Date: 02/24/2021

DATE & SAMPLE TECHNICIAN(S)

Sample Technician(s)	Theresa ODonnell
Quarter	Q1

SURFACE WATER SAMPLING

Surface Water Site Name	SW-07 - PO River above 3 Mile Cr
-------------------------	----------------------------------

FIELD PARAMETERS

Time of reading	09:17 AM
Temperature F°	38.2
pH	7.98
ORP mV	71.0
µS/cm	158.9
NTU	1.68
DO mg/L	11.56
TDS mg/L	103
Other comments	
NA	

SAMPLE SITE NOTES

Time Sample Collected	9:17 am
Sample Type(s)	Field Parameters + Chemistry
What equipment used/downloaded?	ProDSS
Any abnormal water conditions or improvements observed?	
None observed	
Other comments	
NA	

Photo



Surface Water Site Name

SW-05 - Frog Creek West

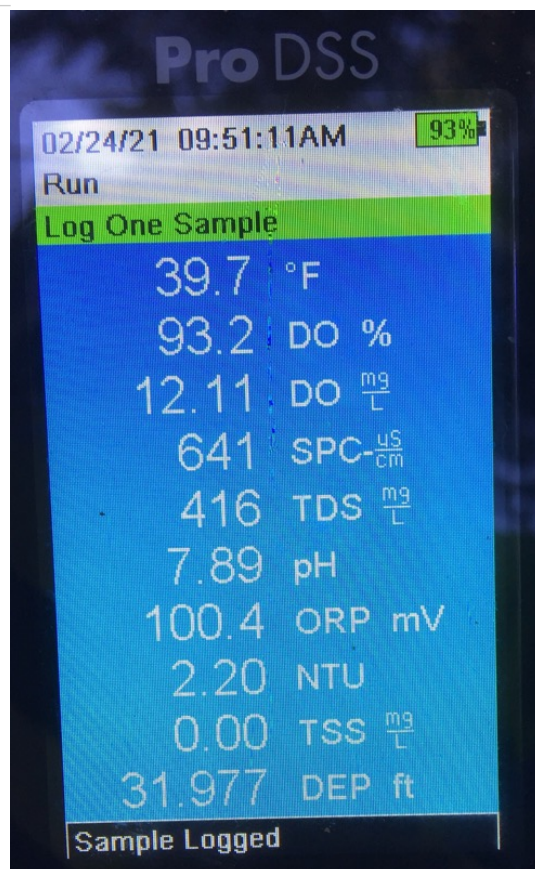
FIELD PARAMETERS

Time of reading	09:51 AM
Temperature F°	39.7
pH	7.89
ORP mV	100.4
µS/cm	641
NTU	2.20
DO mg/L	12.11
TDS mg/L	416
Other comments	
NA	

SAMPLE SITE NOTES

Time Sample Collected	9:51 am
Sample Type(s)	Field Parameters + Chemistry
What equipment used/downloaded?	ProDSS
Any abnormal water conditions or improvements observed?	
None observed	
Other comments	
NA	

Photo



Surface Water Site Name

SW-06 - TDF1_SW1

FIELD PARAMETERS

Time of reading	10:22 AM
Temperature F°	40.7
pH	7.95
ORP mV	-8.7
µS/cm	611
NTU	1.99
DO mg/L	11.86
TDS mg/L	397
Other comments	
NA	

SAMPLE SITE NOTES

Time Sample Collected	10:22 am
Sample Type(s)	Field Parameters + Chemistry
What equipment used/downloaded?	ProDSS

Quarterly Surface Water Sample Logbook

No.: 00010
Date: 02/24/2021

Any abnormal water conditions or improvements observed?

None observed

Other comments

NA

Photo



Surface Water Site Name

SW-10 - Frog Creek East

FIELD PARAMETERS

Time of reading	10:44 AM
Temperature F°	37.6
pH	8.15
ORP mV	85.1
µS/cm	692
NTU	4.01
DO mg/L	12.39
TDS mg/L	450
Other comments	
NA	

SAMPLE SITE NOTES

Time Sample Collected	10:44 am
Sample Type(s)	Field Parameters + Chemistry
What equipment used/downloaded?	ProDSS

Quarterly Surface Water Sample Logbook

No.: 00010
Date: 02/24/2021

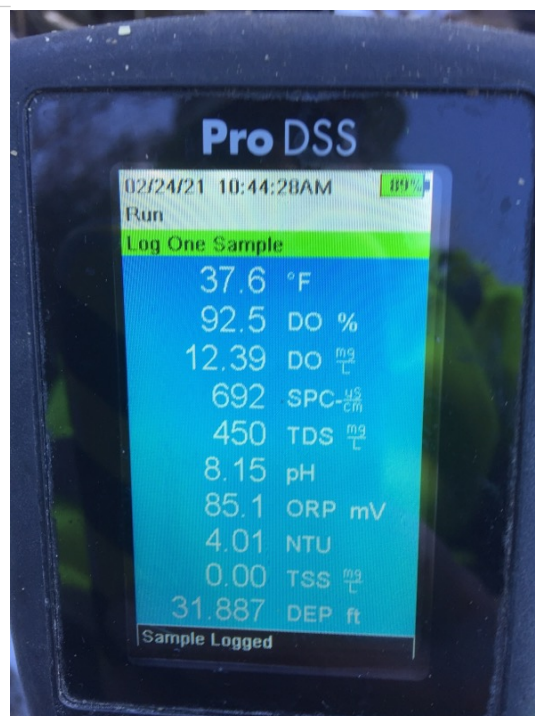
Any abnormal water conditions or improvements observed?

None observed

Other comments

NA

Photo



Surface Water Site Name

SW-02 - River North of Falls

FIELD PARAMETERS

Time of reading	11:19 AM
Temperature F°	32.4
pH	7.63
ORP mV	93.6
µS/cm	249.2
NTU	3.40
DO mg/L	12.85
TDS mg/L	162
Other comments	
NA	

SAMPLE SITE NOTES

Time Sample Collected	11:19 am
Sample Type(s)	Field Parameters + Chemistry
What equipment used/downloaded?	ProDSS

Quarterly Surface Water Sample Logbook

No.: 00010

Date: 02/24/2021

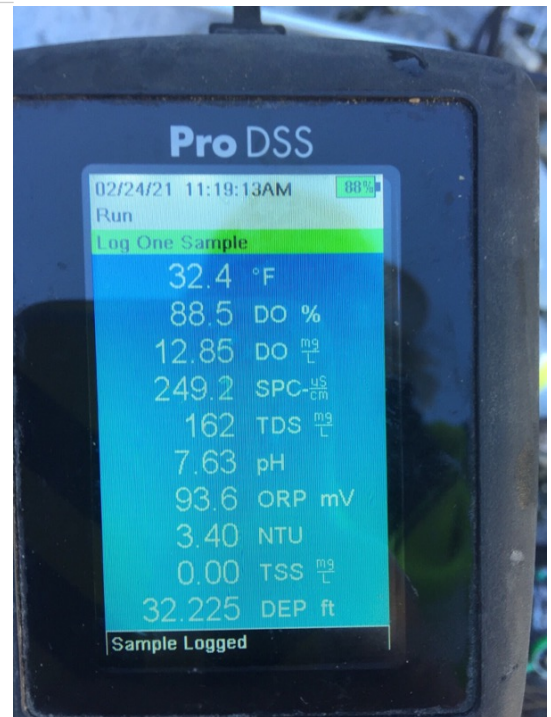
Any abnormal water conditions or improvements observed?

None observed

Other comments

NA

Photo



SAMPLING TECHNICIAN SIGNATURE

Time of Signature

03:18 PM

New Signature

Pend Oreille Mine
Bruce Howard
P.O. Box 7
Metaline Falls, WA 99153

PO#:
Project Name: PDO

Sampler:

Work Order: **X1B0425**
Tack Washington Inc

1
 SVL USE ONLY
 VI. Job #

(208) 784-1258
29

FAX (208) 783-0891

Analyses Required

SVL Filter/Preserve for Diss.

[illegible]

SAMPLE RECEIPT/CHAIN-OF-CUSTODY CHECKLIST

The following items were checked for completeness, correctness, and compliance to project specifications using the Chain-of-Custody (COC) and other supporting information.

Date of acceptance: 2/25/21

By: CP Seuy

SVL Work No: X1 B0425

Item	Description	V	NA	Comments
1	Client or project name	—		Teck WA
2	Date and time of receipt at lab	—		2/25/21 910
3	Received by	—		CP Seuy
4	Temperature blank or cooler temperature	—		Temp 0.2 °C
5	Were the sample(s) received on ice	—		
6	Custody tape/bottle seals	—		
7	Shipper's air bill	—		12E1W8760397867454
8	Condition of samples upon receipt (leaking; bubbles in VOA vials)	—		good
9	Analysis requested for each sample	—		
10	Sample matrix description	—		
11	The correct preservative for the analysis requested	—		
12	Did an SVL employee preserve sample(s) upon receipt	—		SVL will AH/pres for diss metals
13	Additional Information		—	0.6 12E1W8760395208660

V- Verified NA- Not Applicable

Comments:



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Teck Washington Inc.
PO Box 7
Metaline Falls, WA 99153

Project Name: MW and SW Quarterly Samples WA0001317 / WA0001317

Work Order: **X1B0425**

Reported: 11-Mar-21 12:59

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
210224-02 / WA0001317_02	X1B0425-01	Surface Water	24-Feb-21 11:19	tmo	25-Feb-2021	Q3C
210224-05 / WA0001317_05	X1B0425-02	Surface Water	24-Feb-21 09:51	tmo	25-Feb-2021	Q3C
210224-06 / WA0001317_06	X1B0425-03	Surface Water	24-Feb-21 10:22	tmo	25-Feb-2021	Q3C
210224-07 / WA0001317_07	X1B0425-04	Surface Water	24-Feb-21 09:17	tmo	25-Feb-2021	Q3C
210224-10 / WA0001317_10	X1B0425-05	Surface Water	24-Feb-21 10:44	tmo	25-Feb-2021	Q3C

Solid samples are analyzed on an as-received, wet-weight basis, unless otherwise requested.

Sample preparation is defined by the client as per their Data Quality Objectives.

This report supercedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section.

Analyses were performed in accordance with SVL standard operating procedures and calibrations were performed and met SVL internal QC criteria.

The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.

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Teck Washington Inc.
PO Box 7
Metaline Falls, WA 99153

Project Name: MW and SW Quarterly Samples WA0001317 / WA0001317Work Order: **X1B0425**

Reported: 11-Mar-21 12:59

Client Sample ID: **210224-02 : WA0001317_02**

Sampled: 24-Feb-21 11:19

Received: 25-Feb-21

Sampled By: tmo

SVL Sample ID: **X1B0425-01 (Surface Water)****Sample Report Page 1 of 1**

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	26.2	mg/L	0.100	0.035		X109186	AS	03/03/21 11:05	
EPA 200.7	Magnesium	7.56	mg/L	0.500	0.045		X109186	AS	03/03/21 11:05	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0027		X109186	AS	03/03/21 11:05	
EPA 200.8	Copper	< 0.00100	mg/L	0.00100	0.00036	2	X109198	JFB	03/02/21 11:28	
EPA 200.8	Lead	< 0.00300	mg/L	0.00300	0.00014	2	X109198	JFB	03/02/21 11:28	
EPA 200.8	Uranium	< 0.00100	mg/L	0.00100	0.000052	2	X109198	JFB	03/02/21 11:28	
SM 2340 B	Hardness (as CaCO3)	96.6	mg/L	2.31	0.271		N/A		03/03/21 11:05	
Metals (Dissolved)										
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X109182	AS	03/09/21 11:25	
EPA 200.8	Copper	0.00101	mg/L	0.00100	0.00036		X109193	JFB	03/08/21 18:18	
EPA 200.8	Lead	< 0.00300	mg/L	0.00300	0.00014		X109193	JFB	03/08/21 18:18	
Classical Chemistry Parameters										
EPA 120.1	Specific conductance@25°C	193	µmhos/cm	5.00			X110131	TJL	03/10/21 15:35	
EPA 180.1	Turbidity	0.560	NTU	0.200			X109173	TL	02/25/21 16:00	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X109212	DT	02/26/21 14:37	
EPA 353.2	Nitrate+Nitrite as N	< 0.050	mg/L	0.050	0.040		X110176	HJL	03/04/21 15:05	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X110128	WW	03/03/21 16:00	
Anions by Ion Chromatography										
EPA 300.0	Sulfate as SO4	7.74	mg/L	0.30	0.18		X109174	RS	03/03/21 01:06	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Connor Williams
Project Manager



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

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Teck Washington Inc.
PO Box 7
Metaline Falls, WA 99153

Project Name: MW and SW Quarterly Samples WA0001317 / WA0001317Work Order: **X1B0425**

Reported: 11-Mar-21 12:59

Client Sample ID: **210224-05 : WA0001317_05**

Sampled: 24-Feb-21 09:51

Received: 25-Feb-21

Sampled By: tmo

SVL Sample ID: **X1B0425-02 (Surface Water)****Sample Report Page 1 of 1**

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	121	mg/L	0.100	0.035		X109186	AS	03/03/21 11:08	
EPA 200.7	Magnesium	45.3	mg/L	0.500	0.045		X109186	AS	03/03/21 11:08	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0027		X109186	AS	03/03/21 11:08	
EPA 200.8	Copper	< 0.00100	mg/L	0.00100	0.00036	2	X109198	JFB	03/02/21 11:35	
EPA 200.8	Lead	< 0.00300	mg/L	0.00300	0.00014	2	X109198	JFB	03/02/21 11:35	
EPA 200.8	Uranium	0.00634	mg/L	0.00100	0.000052	2	X109198	JFB	03/02/21 11:35	
SM 2340 B	Hardness (as CaCO3)	488	mg/L	2.31	0.271		N/A		03/03/21 11:08	
Metals (Dissolved)										
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X109182	AS	03/09/21 11:28	
EPA 200.8	Copper	< 0.00100	mg/L	0.00100	0.00036		X109193	JFB	03/08/21 18:20	
EPA 200.8	Lead	< 0.00300	mg/L	0.00300	0.00014		X109193	JFB	03/08/21 18:20	
Classical Chemistry Parameters										
EPA 120.1	Specific conductance@25°C	845	µmhos/cm	5.00			X110131	TJL	03/10/21 15:35	
EPA 180.1	Turbidity	< 0.200	NTU	0.200			X109173	TL	02/25/21 16:00	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X109212	DT	02/26/21 14:40	
EPA 353.2	Nitrate+Nitrite as N	0.059	mg/L	0.050	0.040		X110176	HJL	03/04/21 15:07	
SM 2540 D	Total Susp. Solids	6.0	mg/L	5.0			X110128	WW	03/03/21 16:00	
Anions by Ion Chromatography										
EPA 300.0	Sulfate as SO4	181	mg/L	3.00	1.80	10	X109174	RS	03/03/21 01:59	D2

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Connor Williams
Project Manager



Teck Washington Inc.
PO Box 7
Metaline Falls, WA 99153

Project Name: MW and SW Quarterly Samples WA0001317 / WA0001317

Work Order: **X1B0425**

Reported: 11-Mar-21 12:59

Client Sample ID: **210224-06 : WA0001317_06**

Sampled: 24-Feb-21 10:22

Received: 25-Feb-21

Sampled By: tmo

SVL Sample ID: **X1B0425-03 (Surface Water)**

Sample Report Page 1 of 1

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	109	mg/L	0.100	0.035		X109186	AS	03/03/21 11:18	
EPA 200.7	Magnesium	32.0	mg/L	0.500	0.045		X109186	AS	03/03/21 11:18	
EPA 200.7	Zinc	0.0198	mg/L	0.0100	0.0027		X109186	AS	03/03/21 11:18	
EPA 200.8	Copper	< 0.00100	mg/L	0.00100	0.00036	2	X109198	JFB	03/02/21 11:38	
EPA 200.8	Lead	< 0.00300	mg/L	0.00300	0.00014	2	X109198	JFB	03/02/21 11:38	
EPA 200.8	Uranium	0.00454	mg/L	0.00100	0.000052	2	X109198	JFB	03/02/21 11:38	
SM 2340 B	Hardness (as CaCO3)	404	mg/L	2.31	0.271		N/A		03/03/21 11:18	
Metals (Dissolved)										
EPA 200.7	Zinc	0.0162	mg/L	0.0100	0.0054		X109182	AS	03/09/21 11:31	
EPA 200.8	Copper	< 0.00100	mg/L	0.00100	0.00036		X109193	JFB	03/08/21 18:27	
EPA 200.8	Lead	< 0.00300	mg/L	0.00300	0.00014		X109193	JFB	03/08/21 18:27	
Classical Chemistry Parameters										
EPA 120.1	Specific conductance@25°C	729	µmhos/cm	5.00			X110131	TJL	03/10/21 15:35	
EPA 180.1	Turbidity	< 0.200	NTU	0.200			X109173	TL	02/25/21 16:00	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X109212	DT	02/26/21 14:43	
EPA 353.2	Nitrate+Nitrite as N	0.263	mg/L	0.050	0.040		X110176	HJL	03/04/21 15:09	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X110128	WW	03/03/21 16:00	
Anions by Ion Chromatography										
EPA 300.0	Sulfate as SO4	115	mg/L	3.00	1.80	10	X109174	RS	03/03/21 02:16	D2

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Connor Williams
Project Manager



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Kellogg, ID 83837-0929

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Teck Washington Inc.
PO Box 7
Metaline Falls, WA 99153

Project Name: MW and SW Quarterly Samples WA0001317 / WA0001317Work Order: **X1B0425**

Reported: 11-Mar-21 12:59

Client Sample ID: **210224-07 : WA0001317_07**

Sampled: 24-Feb-21 09:17

Received: 25-Feb-21

Sampled By: tmo

SVL Sample ID: **X1B0425-04 (Surface Water)****Sample Report Page 1 of 1**

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	23.8	mg/L	0.100	0.035		X109186	AS	03/03/21 11:21	
EPA 200.7	Magnesium	6.93	mg/L	0.500	0.045		X109186	AS	03/03/21 11:21	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0027		X109186	AS	03/03/21 11:21	
EPA 200.8	Copper	< 0.00100	mg/L	0.00100	0.00036	2	X109198	JFB	03/02/21 11:41	
EPA 200.8	Lead	< 0.00300	mg/L	0.00300	0.00014	2	X109198	JFB	03/02/21 11:41	
EPA 200.8	Uranium	< 0.00100	mg/L	0.00100	0.000052	2	X109198	JFB	03/02/21 11:41	
SM 2340 B	Hardness (as CaCO3)	88.0	mg/L	2.31	0.271		N/A		03/03/21 11:21	
Metals (Dissolved)										
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X109182	AS	03/09/21 11:35	
EPA 200.8	Copper	< 0.00100	mg/L	0.00100	0.00036		X109193	JFB	03/08/21 18:30	
EPA 200.8	Lead	< 0.00300	mg/L	0.00300	0.00014		X109193	JFB	03/08/21 18:30	
Classical Chemistry Parameters										
EPA 120.1	Specific conductance@25°C	181	µmhos/cm	5.00			X110131	TJL	03/10/21 15:35	
EPA 180.1	Turbidity	0.591	NTU	0.200			X109173	TL	02/25/21 16:00	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X109212	DT	02/26/21 14:57	
EPA 353.2	Nitrate+Nitrite as N	0.098	mg/L	0.050	0.040		X110176	HJL	03/04/21 15:11	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X110128	WW	03/03/21 16:00	
Anions by Ion Chromatography										
EPA 300.0	Sulfate as SO4	7.09	mg/L	0.30	0.18		X109174	RS	03/03/21 02:34	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Connor Williams
Project Manager



Teck Washington Inc.
PO Box 7
Metaline Falls, WA 99153

Project Name: MW and SW Quarterly Samples WA0001317 / WA0001317Work Order: **X1B0425**

Reported: 11-Mar-21 12:59

Client Sample ID: **210224-10 : WA0001317_10**

Sampled: 24-Feb-21 10:44

Received: 25-Feb-21

Sampled By: tmo

SVL Sample ID: **X1B0425-05 (Surface Water)****Sample Report Page 1 of 1**

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	131	mg/L	0.100	0.035		X109186	AS	03/03/21 11:25	
EPA 200.7	Magnesium	51.1	mg/L	0.500	0.045		X109186	AS	03/03/21 11:25	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0027		X109186	AS	03/03/21 11:25	
EPA 200.8	Copper	< 0.00100	mg/L	0.00100	0.00036	2	X109198	JFB	03/02/21 11:43	
EPA 200.8	Lead	< 0.00300	mg/L	0.00300	0.00014	2	X109198	JFB	03/02/21 11:43	
EPA 200.8	Uranium	0.00730	mg/L	0.00100	0.000052	2	X109198	JFB	03/02/21 11:43	
SM 2340 B	Hardness (as CaCO3)	538	mg/L	2.31	0.271		N/A		03/03/21 11:25	
Metals (Dissolved)										
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X109182	AS	03/09/21 11:38	
EPA 200.8	Copper	< 0.00100	mg/L	0.00100	0.00036		X109193	JFB	03/08/21 18:32	
EPA 200.8	Lead	< 0.00300	mg/L	0.00300	0.00014		X109193	JFB	03/08/21 18:32	
Classical Chemistry Parameters										
EPA 120.1	Specific conductance@25°C	919	µmhos/cm	5.00			X110131	TJL	03/10/21 15:35	
EPA 180.1	Turbidity	1.90	NTU	0.200			X109173	TL	02/25/21 16:00	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X109212	DT	02/26/21 14:59	
EPA 353.2	Nitrate+Nitrite as N	0.179	mg/L	0.050	0.040		X110176	HJL	03/04/21 15:14	
SM 2540 D	Total Susp. Solids	11.0	mg/L	5.0			X110128	WW	03/03/21 16:00	
Anions by Ion Chromatography										
EPA 300.0	Sulfate as SO4	189	mg/L	3.00	1.80	10	X109174	RS	03/03/21 03:09	D2

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Connor Williams
Project Manager



Teck Washington Inc.
PO Box 7
Metaline Falls, WA 99153

Project Name: MW and SW Quarterly Samples WA0001317 / WA0001317

Work Order: X1B0425

Reported: 11-Mar-21 12:59

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
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Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Calcium	mg/L	<0.100	0.035	0.100	X109186	03-Mar-21	
EPA 200.7	Magnesium	mg/L	<0.500	0.045	0.500	X109186	03-Mar-21	
EPA 200.7	Zinc	mg/L	<0.0100	0.0027	0.0100	X109186	03-Mar-21	
EPA 200.8	Copper	mg/L	<0.00100	0.00036	0.00100	X109198	02-Mar-21	
EPA 200.8	Lead	mg/L	<0.00300	0.00014	0.00300	X109198	02-Mar-21	
EPA 200.8	Uranium	mg/L	<0.00100	0.000052	0.00100	X109198	02-Mar-21	

Metals (Dissolved)

EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X109182	09-Mar-21	
EPA 200.8	Copper	mg/L	<0.00100	0.00036	0.00100	X109193	08-Mar-21	
EPA 200.8	Lead	mg/L	<0.00300	0.00014	0.00300	X109193	08-Mar-21	

Classical Chemistry Parameters

EPA 180.1	Turbidity	NTU	<0.200		0.200	X109173	25-Feb-21	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X109212	26-Feb-21	
EPA 353.2	Nitrate+Nitrite as N	mg/L	<0.050	0.040	0.050	X110176	04-Mar-21	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X110128	03-Mar-21	

Anions by Ion Chromatography

EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X109174	03-Mar-21	
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Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
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Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Calcium	mg/L	19.7	20.0	98.7	85 - 115	X109186	03-Mar-21	
EPA 200.7	Magnesium	mg/L	21.2	20.0	106	85 - 115	X109186	03-Mar-21	
EPA 200.7	Zinc	mg/L	0.983	1.00	98.3	85 - 115	X109186	03-Mar-21	
EPA 200.8	Copper	mg/L	0.0252	0.0250	101	85 - 115	X109198	02-Mar-21	
EPA 200.8	Lead	mg/L	0.0271	0.0250	108	85 - 115	X109198	02-Mar-21	
EPA 200.8	Uranium	mg/L	0.0287	0.0250	115	85 - 115	X109198	02-Mar-21	

Metals (Dissolved)

EPA 200.7	Zinc	mg/L	0.910	1.00	91.0	85 - 115	X109182	09-Mar-21	
EPA 200.8	Copper	mg/L	0.0247	0.0250	98.7	85 - 115	X109193	08-Mar-21	
EPA 200.8	Lead	mg/L	0.0240	0.0250	96.0	85 - 115	X109193	08-Mar-21	

Classical Chemistry Parameters

EPA 120.1	Specific conductance@25°C	µmhos/cm	415	415	99.9	94.4 - 106	X110131	10-Mar-21	
EPA 180.1	Turbidity	NTU	3.56	3.76	94.7	90 - 110	X109173	25-Feb-21	
EPA 350.1	Ammonia as N	mg/L	0.980	1.00	98.0	90 - 110	X109212	26-Feb-21	
EPA 353.2	Nitrate+Nitrite as N	mg/L	2.01	2.00	100	90 - 110	X110176	04-Mar-21	

Anions by Ion Chromatography

EPA 300.0	Sulfate as SO4	mg/L	11.0	10.0	110	90 - 110	X109174	03-Mar-21	
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Teck Washington Inc.
PO Box 7
Metaline Falls, WA 99153

Project Name: MW and SW Quarterly Samples WA0001317 / WA0001317

Work Order: X1B0425

Reported: 11-Mar-21 12:59

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
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Classical Chemistry Parameters

EPA 120.1	Specific conductance@25°C	µmhos/cm	195	193	1.2	20	X110131 - X1B0425-01	10-Mar-21	
EPA 180.1	Turbidity	NTU	0.564	0.560	0.7	20	X109173 - X1B0425-01	25-Feb-21	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X110128 - X1B0443-04	03-Mar-21	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
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Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Calcium	mg/L	42.6	22.1	20.0	103	70 - 130	X109186 - X1B0410-01	03-Mar-21	
EPA 200.7	Magnesium	mg/L	25.7	4.33	20.0	107	70 - 130	X109186 - X1B0410-01	03-Mar-21	
EPA 200.7	Zinc	mg/L	0.994	<0.0100	1.00	99.4	70 - 130	X109186 - X1B0410-01	03-Mar-21	
EPA 200.8	Copper	mg/L	0.0254	<0.00100	0.0250	98.3	70 - 130	X109198 - X1B0425-01	02-Mar-21	
EPA 200.8	Lead	mg/L	0.0223	<0.00300	0.0250	88.7	70 - 130	X109198 - X1B0425-01	02-Mar-21	
EPA 200.8	Uranium	mg/L	0.0253	<0.00100	0.0250	97.6	70 - 130	X109198 - X1B0425-01	02-Mar-21	

Metals (Dissolved)

EPA 200.7	Zinc	mg/L	0.912	<0.0100	1.00	91.2	70 - 130	X109182 - X1B0426-21	09-Mar-21	
EPA 200.7	Zinc	mg/L	0.947	<0.0100	1.00	94.7	70 - 130	X109182 - X1B0426-26	09-Mar-21	
EPA 200.8	Copper	mg/L	0.0352	0.0121	0.0250	92.4	70 - 130	X109193 - X1B0422-01	08-Mar-21	
EPA 200.8	Lead	mg/L	0.0275	0.00367	0.0250	95.1	70 - 130	X109193 - X1B0422-01	08-Mar-21	

Classical Chemistry Parameters

EPA 350.1	Ammonia as N	mg/L	0.988	<0.030	1.00	98.8	90 - 110	X109212 - X1B0409-02	26-Feb-21	
EPA 350.1	Ammonia as N	mg/L	1.01	<0.030	1.00	98.9	90 - 110	X109212 - X1B0425-01	26-Feb-21	
EPA 353.2	Nitrate+Nitrite as N	mg/L	2.13	0.065	2.00	103	90 - 110	X110176 - X1B0387-02	04-Mar-21	
EPA 353.2	Nitrate+Nitrite as N	mg/L	2.08	0.073	2.00	100	90 - 110	X110176 - X1B0412-02	04-Mar-21	

Anions by Ion Chromatography

EPA 300.0	Sulfate as SO4	mg/L	18.6	7.74	10.0	108	90 - 110	X109174 - X1B0425-01	03-Mar-21	
EPA 300.0	Sulfate as SO4	mg/L	17.7	7.09	10.0	106	90 - 110	X109174 - X1B0425-04	03-Mar-21	

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
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Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Calcium	mg/L	42.7	42.6	20.0	0.2	20	103	X109186 - X1B0410-01	
EPA 200.7	Magnesium	mg/L	25.9	25.7	20.0	0.9	20	108	X109186 - X1B0410-01	
EPA 200.7	Zinc	mg/L	0.994	0.994	1.00	0.1	20	99.4	X109186 - X1B0410-01	
EPA 200.8	Copper	mg/L	0.0254	0.0254	0.0250	0.1	20	98.2	X109198 - X1B0425-01	
EPA 200.8	Lead	mg/L	0.0231	0.0223	0.0250	3.5	20	91.8	X109198 - X1B0425-01	
EPA 200.8	Uranium	mg/L	0.0262	0.0253	0.0250	3.2	20	101	X109198 - X1B0425-01	

Metals (Dissolved)

EPA 200.7	Zinc	mg/L	0.920	0.912	1.00	0.9	20	92.0	X109182 - X1B0426-21	
EPA 200.8	Copper	mg/L	0.0351	0.0352	0.0250	0.1	20	92.3	X109193 - X1B0422-01	
EPA 200.8	Lead	mg/L	0.0278	0.0275	0.0250	1.1	20	96.3	X109193 - X1B0422-01	

Classical Chemistry Parameters

EPA 350.1	Ammonia as N	mg/L	1.00	0.988	1.00	1.5	20	100	X109212 - X1B0409-02	
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Teck Washington Inc.
PO Box 7
Metaline Falls, WA 99153

Project Name: MW and SW Quarterly Samples WA0001317 / WA0001317

Work Order: **X1B0425**

Reported: 11-Mar-21 12:59

Quality Control - MATRIX SPIKE DUPLICATE Data

(Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
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Classical Chemistry Parameters (Continued)

EPA 353.2	Nitrate+Nitrite as N	mg/L	2.15	2.13	2.00	0.8	20	104	X110176 - X1B0387-02	
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Anions by Ion Chromatography

EPA 300.0	Sulfate as SO4	mg/L	18.5	18.6	10.0	0.2	20	108	X109174 - X1B0425-01	
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Teck Washington Inc.
PO Box 7
Metaline Falls, WA 99153

Project Name: MW and SW Quarterly Samples WA0001317 / WA0001317

Work Order: **X1B0425**

Reported: 11-Mar-21 12:59

Notes and Definitions

D2	Sample required dilution due to high concentration of target analyte.
Q3C	SVL filtered and preserved samples.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Client: Teck Washington, Inc.
Address: P.O. BOX 7
Metaline Falls, WA 99153
Attn: Connor R. Williams

Work Order: WBC0076
Project: X1B0425
Reported: 4/6/2021 17:45

Analytical Results Report

Sample Location: X1B0425-01 (210224-02)
Lab/Sample Number: WBC0076-01 **Collect Date:** 02/24/21 11:19
Date Received: 03/02/21 13:35 **Collected By:** tmo
Matrix: Surface Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Radiochemistry							
Radium 226	<1.00 ± 8	pCi/L	1.00	3/23/21 15:15	APM	EPA 903.0	
Surrogate: Barium Carrier	99.0%		80-120	3/23/21 15:15	APM	EPA 903.0	

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Analytical Results Report

(Continued)

Sample Location: X1B0425-02 (210224-05)
Lab/Sample Number: WBC0076-02 Collect Date: 02/24/21 09:51
Date Received: 03/02/21 13:35 Collected By: tmo
Matrix: Surface Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Radiochemistry							
Radium 226	<1.00 ± 0.0689	pCi/L	1.00	3/19/21 14:05	APM	EPA 903.0	
Surrogate: Barium Carrier	98.0%		80-120	3/19/21 14:05	APM	EPA 903.0	

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Analytical Results Report

(Continued)

Sample Location: X1B0425-03 (210224-06)
Lab/Sample Number: WBC0076-03 Collect Date: 02/24/21 10:22
Date Received: 03/02/21 13:35 Collected By: tmo
Matrix: Surface Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Radiochemistry							
Radium 226	<1.00 ± 0.0801	pCi/L	1.00	3/19/21 17:05	APM	EPA 903.0	
Surrogate: Barium Carrier	103%		80-120	3/19/21 17:05	APM	EPA 903.0	

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Analytical Results Report

(Continued)

Sample Location: X1B0425-04 (210224-07)
Lab/Sample Number: WBC0076-04 Collect Date: 02/24/21 09:17
Date Received: 03/02/21 13:35 Collected By: tmo
Matrix: Surface Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Radiochemistry							
Radium 226	<1.00 ± 0.0589	pCi/L	1.00	3/23/21 12:14	APM	EPA 903.0	
Surrogate: Barium Carrier	102%		80-120	3/23/21 12:14	APM	EPA 903.0	

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Analytical Results Report

(Continued)

Sample Location: X1B0425-05 (210224-10)
Lab/Sample Number: WBC0076-05 Collect Date: 02/24/21 10:44
Date Received: 03/02/21 13:35 Collected By: tmo
Matrix: Surface Water

Analyte	Result	Units	PQL	Analyzed	Analyst	Method	Qualifier
Radiochemistry							
Radium 226	<1.00 ± 0.0203	pCi/L	1.00	3/23/21 18:15	APM	EPA 903.0	
Surrogate: Barium Carrier	109%		80-120	3/23/21 18:15	APM	EPA 903.0	

Authorized Signature,



Kathleen Sattler For Todd Taruscio, Laboratory Manager

PQL Practical Quantitation Limit
ND Not Detected
MCL EPA's Maximum Contaminant Level
Dry Sample results reported on a dry weight basis
* Not a state-certified analyte

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The results reported related only to the samples indicated.

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Certifications

Code	Description	Facility	Number
W WA DOE	Washington Department of Ecology	Anatek-Spokane, WA	C585

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Quality Control Data

Radiochemistry

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBC0457 - W Radiochemistry										
Blank (BBC0457-BLK1)										
					Prepared: 3/15/2021 Analyzed: 3/23/2021					
Radium 226	ND		1.00	pCi/L						
Surrogate: Barium Carrier			58.9	pCi/L	58.8		100	80-120		
LCS (BBC0457-BS1)										
					Prepared: 3/15/2021 Analyzed: 3/24/2021					
Radium 226	5.11		1.00	pCi/L	5.00		102	80-120		
Surrogate: Barium Carrier			62.8	pCi/L	58.8		107	80-120		
Duplicate (BBC0457-DUP1)										
			Source: MBC0108-01			Prepared: 3/15/2021 Analyzed: 3/24/2021				
Radium 226	ND		1.00	pCi/L		ND				30
Surrogate: Barium Carrier			58.2	pCi/L	58.8		99.0	80-120		
Matrix Spike (BBC0457-MS1)										
			Source: WBC0511-01			Prepared: 3/15/2021 Analyzed: 3/24/2021				
Radium 226	4.78		1.00	pCi/L	5.00	ND	95.6	70-130		
Surrogate: Barium Carrier			55.4	pCi/L	58.8		94.2	80-120		
Matrix Spike Dup (BBC0457-MSD1)										
			Source: WBC0511-01			Prepared: 3/15/2021 Analyzed: 3/24/2021				
Radium 226	4.69		1.00	pCi/L	5.00	ND	93.7	70-130	2.01	30
Surrogate: Barium Carrier			58.9	pCi/L	58.8		100	80-120		



Subcontract Order

WBC0076



Due: 03/11/21

X1B0425**Sending Laboratory:**

SVL Analytical, Inc.
One Government Gulch
PO Box 929
Kellogg, ID 83837-0929
Phone: 208-784-1258

Project Manager: Connor R. Williams

Client:

Teck Washington Inc.

Project Name:

MW and SW Quarterly Samples
WA0001317/WA0001317

Project State of Origin:

Washington

Receiving Lab:

Anatek Labs (WA)
504 E Sprague Street, Suite D
Spokane, WA 99202
Phone: 509-838-3999
Fax: 509-838-4433

Report and Invoice to SVL Analytical, Inc.

Analysis	Due	HT Expires		
SVL ID: X1B0425-01 Client ID: 210224-02			Surface Water	Sampled: 24-Feb-21 11:19
Sub Radium 226 E 903.0	11-Mar-21	23-Aug-21 11:19		
Containers Supplied: Nitric HDPE (E)				
SVL ID: X1B0425-02 Client ID: 210224-05			Surface Water	Sampled: 24-Feb-21 09:51
Sub Radium 226 E 903.0	11-Mar-21	23-Aug-21 09:51		
Containers Supplied: Nitric HDPE (E)				
SVL ID: X1B0425-03 Client ID: 210224-06			Surface Water	Sampled: 24-Feb-21 10:22
Sub Radium 226 E 903.0	11-Mar-21	23-Aug-21 10:22		
Containers Supplied: Nitric HDPE (E)				
SVL ID: X1B0425-04 Client ID: 210224-07			Surface Water	Sampled: 24-Feb-21 09:17
Sub Radium 226 E 903.0	11-Mar-21	23-Aug-21 09:17		
Containers Supplied: Nitric HDPE (E)				
SVL ID: X1B0425-05 Client ID: 210224-10			Surface Water	Sampled: 24-Feb-21 10:44
Sub Radium 226 E 903.0	11-Mar-21	23-Aug-21 10:44		
Containers Supplied: Nitric HDPE (E)				

JB
1335 3/2/21
14.1/13.9 1R1
WPS/WC/ni

1305

Relinquished by: CRS Date/Time: 3/1/21 Received by: _____ Date/Time: _____

Relinquished by: _____ Date/Time: _____ Received by: _____ Date/Time: _____