

Appendix I

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

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Table 1 Description of Effluent, In-Mine Releases Receiving Environment Monitoring Sites 1 Page(s)

Description of Effluent, In-Mine Releases & Receiving Environment Monitoring Sites			
EMS ID #	Monitoring Sites	Abbreviation (Station Code)	*Type of Water (MW, FW or GW)
North Coal Mining Operation			
E207409	Settling Pond #4 Decant	WD	Discharge (MW)
E207411	Culvert, at Middle Quinsam Lake Road	WC	MW & FW
E283433	2-North Portal Sump (Adit Sump)	2NPS	MW
E207412	2-North Pit Sump CCR Cover	WP	PAG-CCR Water Cover - MW
South Coal Mine			
E218582	Settling Pond #1 Decant	SPD	Discharge (MW)
E217014	Culvert, Downstream End at Access Road	SPC	MW & FW
E217015	South Pit Main Sump Water	3S	PAG-CCR Water Cover (MW & FW)
E292127	2-South Pit In Pit Water Cover (2-South Standpipe)	2S	PAG-CCR Water Cover (MW & FW)
7-South Mining Operation			
E292069	7-South Surface Decant	7SSD	Discharge (SW)
E292110	7-South Adit Sump	7SPS	MW
Seep Monitoring Sites			
E292131	Long Lake Seeps	LLS & LLSM	GW / MW
	Culvert that collects groundwater and Coal Main logging road water entering MQL (PDSR)	PDSR	GW / SW
	Possible Seepage Area by QU1109	S	GW/SW
	Possible Seepage Area by QU1105	S2	GW/SW
Receiving Environment Monitoring Sites - Near Initial Zone of Dilution (NIDZ)			
Near Initial Dilution Zone (NIDZ) Monitoring Sites			
E292130	Long Lake Entrance (South end water entering Long Lake near the outlet)	LLE	NIDZ
E292109	Road Crossing Bridge on Stream 1 above the Lower Wetland (Downstream of 7SSD).The site name is Stream 1, 7S.	7S	NIDZ
Receiving Water (Rivers & Lakes Monitoring Sites) 5 in 30 Monitoring Locations			
North Coal Mining Operation			
E0126402	Quinsam River at Argonaut Bridge	WA	FW
E206618	Middle Quinsam Lake Centre	MQL (1, 4, 9 & 1m from Bottom)	FW
E0900504	Outflow from Middle Quinsam Lake	WB	FW
South Coal Mine			
E217018	No Name Lake	NNL (1, 4, 9 & 1m from Bottom)	FW
E217017	No Name Lake Outlet	NNO	FW
E206619	Long Lake at Centre	LLM (1, 4, 9 & 1m from Bottom)	FW
E219412	Long Lake Outlet	LLO	FW
7-South Mining Operation (Areas 1 to 4)			
E286930	Quinsam River Upstream of 7-South Mining Operation	QRDS1	FW
E292113	Quinsam River Downstream of 7-South Mining Operation	7SQR	FW
E292118	Lower Quinsam Lake Centre	LQL (1, 4, 9 & 1m from Bottom)	FW
7-South Area 5 Mining Operation			
E297231	Iron River upstream of 7SA5	IR6	FW
E297232	Iron River downstream of 7SA5 and 242 inputs	IR8	FW
E299256	Quinsam River downstream of confluence with Iron River	IRQR	FW
E292118	Lower Quinsam Lake Centre	LQL (1, 4, 9 & 1m from Bottom)	FW
Block 242 Mining Operation (Reclaimed / Not Monitored)			
E225798	Iron River upstream of the 242 influence	Not Monitored	FW
E225808	Iron River downstream of the 242 influence	Not Monitored	FW
N/A	Old portal sump used for collection of water from underground	Reclaimed	FW / GW
Long Lake Seep Passive Treatment System			
N/A	Groundwater well (2-South Mine Pool) influent to the treatment system	QU11-11 (INF-EFF)	MW
N/A	Biochemical Reactor	BCR-EFF	MW
N/A	Sulphide Polishing Cell	SPC-EFF	MW
N/A	2-South Inflow (From Passive Treatment System)	2SI	MW
N/A	2-South Culvert into 3-South Pit (Seepage under liner and overflow from 2S-pit)	2SC	MW
* MW= Mine Water, FW= Freshwater, GW =Groundwater NIDZ = Near Initial Dilution Zone			

Table 2 Summary of Permit Limit Exceedances, Permit Non-Compliances and Unauthorised Discharges 1 Page(s)

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022 Table 2 Summary of Permit Limit Exceedances, Permit Non-Compliances and Unauthorised Discharges 1 Page(s)					
Summary of Permit Limit Exceedances, Permit Non-Compliances and Unauthorised Discharges`					
EMS ID & Site Name	Non-Compliance (PNC)	Result (mg/L)	Date	Non-Compliance Reason	Number of events or period for PNC, P or spill event.
E292131 - Long Lake Seeps	Unauthorised discharge	PNC	2021-2022	Seepage from mine pool into Long lake. No authorization to discharge.	Q1 - 91 days , Q2 -50 days, Q3 69 days and Q4 - 92 days
E218582- Settling Pond 1	Dissolved Iron	1.19	January 4, 2022	Elevated iron in the Settling Pond. Possibly melting ice and increased flow rates causing mixing of bottom and surface waters.	1 out of 12 monthly sampling events
E207409- Settling Pond 4	PNC- Continuous flow	5 days of no flow	September 9 - 12 and 15	Flow meter failed to continually operate due to voltage stabilizer failure.	5 out of 365 days
	PNC	0.107 m ³ /s	2021-2022	Annual average discharge rate of 0.107 m ³ /s exceeded permit limit of 0.08 m ³ /s	4% higher than the permit limit for 2021-2022
E292109 - 7S	Missed sample	PNC	January monthly sample	Could not access site due to snow.	(1/12) monthly sampling events
Unauthorized discharge at groundwater well QU11-09	Unauthorised discharge	Elevated arsenic, iron and sulphate.	April 1 to May 13	Estimated based on groundwater elevations from February to May 13 from the groundwater well (QU11-09) with seepage from shallow mine impacted groundwater continuing to occur in the area. Spill Report DGIR 204584. Final Report Unauthorized Discharge and Seepage for DGIR 204584 September 8, 2021.	Well was capped on March 19, 2021 with discharge directed to a contained sump. Groundwater elevation decreased below topo (227 MASL) on May 13, 2021.
E297232 Iron River Site 8	PNC- Flow Data	No Data	October 7 through November 2	Pressure transducer was either washed away or cable severed by wildlife.	5 weeks of data.

Table 3 Summary of Water Quality Guideline Observations at Monitoring Locations 2 Page(s)

Summary of Water Quality Guideline Observations at Receiving and Seepage Monitoring Locations 2021-2022						
EMS ID & Site Name	Parameter (mg/L)	Guideline Limit	Result	Date	Guideline	Sampling Events Exceeding Guideline
Quarter 1 (April through June 2021)						
E206619 - Long Lake	pH-F	6.50 to 8.5	< 6.5	April	M	(1/5) weeks in April
E292130 - South end water entering Long Lake (LLE)	Fe-D	0.35	0.402 and 0.641	May and June	M	(2/3) Monthly sampling events
	Fe-T	1.00	1.04	June	M	(1/3) Monthly sampling events
	SO4	128	152 to 318	Rolling averages	A	(11/14) rolling averages < 128mg/L
E292131- Smaller seep into Long Lake (LLS)	Fe-T	1.00	2.09, 1.66 and 1.72	April though June	M	(3/3) Monthly sampling events
	Fe-D	0.35	2.06, 1.60 and 1.78	April though June	M	(3/3) Monthly sampling events
E292131- Long Lake Seep Middle (LLSM)	Fe-D	0.35	0.481, 0.562 and 0.706	April though June	M	(3/3) Monthly sampling events
Potential Seepage from shallow groundwater near QU1109 (S1)	As-T	0.005	0.0245 to 0.0519	April though June	M	(9/9) Weekly samples
	Cu-D	0.0003	0.000376	Spring 5 in 30	A	Average of 9 weeks
	SO4	128	228 to 302	April though June	A	(5/9) rolling averages < 128mg/L
	B-D	1.2	1.79	April though June	A	Average of 9 weeks
Quarter 2 (July through August 2021)						
E206619 - Long Lake	pH-F	6.50 to 8.5	>6.5	August	M	(2/5) weeks in August
E206619 - Long Lake Middle (LLM) (18 m-21m depths)	D.O.	<3.0 mg/L	2.97 to 0.62	Summer 5 in 30	Min	D.O. <3.00 mg/L at 9 depths profiled (18 m to 21 m) during summer for 4 out of 5 weeks
E297231 -Iron River upstream of 7SA5 (IR6)	Cu-D	0.0003	0.00046	Summer 5 in 30	A	5 in 30 Average
	As-T	0.005	0.006 - 0.0117	Summer 5 in 30	M	5/5 sampling events
E297232 - Iron River Downstream of 7SA5 and 242 inputs (IR8)	As-T	0.005	0.0124 - 0.020	Summer 5 in 30	M	5/5 sampling events
E292130 - South end water entering Long Lake (LLE)	Fe-T	1.00	1.24	July	M	(1/3) Monthly sampling events
E292131- Smaller seep into Long Lake (LLS)	Fe-T	1.00	1.85, 1.46 and 1.38	July through September	M	(3/3) Monthly sampling events
	Fe-D	0.35	1.71, 1.47 and 1.39	July through September	M	(3/3) Monthly sampling events
E292131- Long Lake Seep Middle (LLSM)	Fe-D	0.35	0.869, 0.712 and 0.664	July through September	M	(3/3) Monthly sampling events
Potential Seepage from shallow groundwater near QU1109 (S1)	As-T	0.005	0.0164 to 0.0298	July through September	M	(7/7) samples
	Fe-T	1	1.14	September 21, 2021	M	(1/7) samples
Quarter 3 (October through December 2021)						
E206619 - Long Lake Middle (LLM) (1MB)	Mn-T (mg/L)	0.737	1.221	Fall 5 in 30	A	5 in 30 Average
		0.8706	1.34, 1.71 and 1.97	Weeks 2 through 4	M	3/5 sampling events
E297231 - Iron River upstream of 7SA5 (IR6)	Al-D (mg/L)	0.05	0.0612	Fall 5 in 30	A	5 in 30 Average
		0.1	0.125	Week 4	M	1/5 sampling events
E297232 - Iron River Downstream of 7SA5 and 242 inputs (IR8)	Al-D (mg/L)	0.05	0.0564	Fall 5 in 30	A	5 in 30 Average
		0.1	0.112	Week 4	M	1/5 sampling events
E292131 - Smaller seep into Long Lake (LLS)	Fe-T (mg/L)	1.00	1.82, 2.23 and 1.54	Monthly	M	(3/3) Monthly sampling events
	Fe-D (mg/L)	0.35	1.72, 2.09 and 1.03	Monthly	M	(3/3) Monthly sampling events
E292131 - Long Lake Seep Middle (LLSM)	Fe-D (mg/L)	0.35	0.57	November 1, 2021	M	(3/3) Monthly sampling events
E292109 -Stream 1 (7S)	Cu-D (mg/L)	≤ 0.0002 and ≤ 0.00241	0.00026 and 0.00040	October 4, 2021 and November 1, 2021	M	(2/3) Monthly sampling events
Potential Seepage from shallow groundwater near QU1109 (S1)	As-T (mg/L)	0.005	0.0138 to 0.0423	Weekly in Oct., monthly in Nov. and Dec.	M	(6/6) Sampling events
Quarter 4 (January through March 2022)						
E292130 - Entrance to Long Lake Entrance (LLE)	Fe-D (mg/L)	0.35	0.86	January 4, 2022	M	(1/3) Monthly sampling events
E292131 - Smaller seep into Long Lake (LLS)	Fe-T (mg/L)	1.00	1.77, 1.85 and 1.20	Monthly	M	(3/3) Monthly sampling events
	Fe-D (mg/L)	0.35	1.53, 1.65 and 1.01	Monthly	M	(3/3) Monthly sampling events
Potential Seepage from shallow groundwater near QU1109 (S1)	As-T (mg/L)	0.005	0.0624, 0.0720 and 0.0748	March	M	(3/3) Weeks in March
Potential Seepage from shallow groundwater near QU1105 (S2)	As-T (mg/L)	0.005	0.0402, 0.0510 and 0.0510	March	M	(3/3) Weeks in March
	Fe-T (mg/L)	1.00	1.06, 1.51 and 1.39	March	M	(3/3) Weeks in March
	Fe-D (mg/L)	0.35	1.01, 1.21 and 0.977	March	M	(3/3) Weeks in March
*SO4 at LLE was calculated using a rolling average.						
Min = Minimum Water Quality Guideline (WQG) Acute = Maximum WQG, Chronic = Average WQG						
For all Middle Quinsam Lake Sub-basin and Iron River results background hardness of 30 mg/L was used to calculate those parameters that are hardness dependent.						

Table 3 Summary of Water Quality Guideline Observations at Monitoring Locations 2 Page(s)

Results above Calculated Dissolved Copper Chronic Guidelines				
EMS ID	Site Name	Station Code	Copper (mg/L)	Chronic Guideline (mg/L)
Spring				
E217018	No Name Lake 1M	NNL1	0.000344	0.0003
E217018	No Name Lake 4M	NNL4	0.000348	0.0002
E217018	No Name Lake 9M	NNL9	0.000440	0.0002
E217018	No Name Lake 1MB	NNL 1MB	0.000338	0.0002
E206619	Long Lake Middle 9M	LLM9	0.000314	0.0003
E206618	Middle Quinsam Lake 1M	MQL1	0.000466	0.0004
E206618	Middle Quinsam Lake 4M	MQL4	0.000456	0.0004
E206618	Middle Quinsam Lake 9M	MQL9	0.000442	0.0003
E206618	Middle Quinsam Lake 1MB	MQL 1MB	0.000428	0.0004
E292118	Lower Quinsam Lake 1M	LQL1	0.000480	0.0004
E292118	Lower Quinsam Lake 4M	LQL4	0.000486	0.0004
E292118	Lower Quinsam Lake 9M	LQL9	0.000464	0.0003
E292118	Lower Quinsam Lake 1MB	LQL 1MB	0.000466	0.0003
E0126402	Quinsam River at Argonaut Road	WA	0.000504	0.0004
Summer				
E206619	Long Lake Middle 1MB	LL 1MB	0.000298	0.0002
E206618	Middle Quinsam Lake 1MB	MQL 1MB	0.000456	0.0003
E217017	No Name Lake Outlet	NNO	0.000376	0.0002
E0126402	Quinsam River at Argonaut Road	WA	0.000532	0.0002
E286930	Quinsam River Upstream of 7-South Mining Operation	QRDS1	0.000478	0.0004
E292113	Quinsam River Downstream of 7-South Mining Operation	7SQR	0.000440	0.0003
E297231	Iron River Upstream of 7SA5	IR6	0.000456	0.0003
E297232	Iron River downstream of 7SA5 and 242 inputs	IR8	0.000644	0.0004
E299256	Quinsam River downstream of confluence with Iron River	IRQR	0.000486	0.0003
Fall				
E206619	Long Lake Middle 1MB	LL 1MB	0.000300	0.0002
E206618	Middle Quinsam Lake 1M	MQL1	0.000410	0.0004
E206618	Middle Quinsam Lake 9M	MQL9	0.000420	0.0004
E217017	No Name Lake Outlet	NNO	0.000450	0.0003
E0126402	Quinsam River at Argonaut Road	WA	0.000640	0.0005
E292113	Quinsam River Downstream of 7-South Mining Operation	7SQR	0.000530	0.0005
E299256	Quinsam River downstream of confluence with Iron River	IRQR	0.000660	0.0006
*The calculated GL is below 0.0002 mg/L, however, 0.0002 mg/L is considered to be the lowest concentration routinely measured and therefore replaces the calculated HCS value for this water				
Results above Calculated Dissolved Copper Acute Guidelines				
EMS ID	Site Name	Station Code	Copper (mg/L)	Acute Guideline (mg/L)
Spring				
E217018	No Name Lake 4M	NNL4	0.00034	0.0003
E217018	No Name Lake 9M	NNL9	0.00088	0.0002
E217018	No Name Lake 1M from Bottom	NNLB	0.00037	0.0003
E217018	No Name Lake 1M from Bottom	NNLB	0.00035	0.0002
Summer				
Summer				
E217017	No Name Lake Outlet	NNO	0.00052	0.0005
*The calculated GL is below 0.0002 mg/L, however, 0.0002 mg/L is considered to be the lowest concentration routinely measured and therefore replaces the calculated HCS value for this water				

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Table 4 Contaminated Sites Regulations - Aquatic Life Standards 1 Page(s)

Q1 Ex-situ Groundwater	Area Well ID. Replicates Units	Freshwater Aquatic Life (CSR-AW)	2 North / 3 North Mine Area							2-North / River Barrier Pillar (RBP)				4-South			7-South	
Parameter			QU0821GD	QU0821GD	QU0821GS	QU1010D	QU1010D	QU1010S	QU1011D	QU1105D	QU1105S	QU1109S	QU1109S	QU1008D	QU1009S	QU1009D	QU0813A	QU0813B
Date			QU0821GD-26MAY21-R							QU1109S-15Jun21-R								
As-D	mg/L	0.05	26-May-21	26-May-21	26-May-21	18-May-21	18-May-21	19-May-21	17-May-21	19-May-21	19-May-21	15-Jun-21	15-Jun-21	22-Jun-21	11-May-21	11-May-21	12-May-21	12-May-21
Cl-D	mg/L	1500	0.167	0.165	0.111	3200	3400	0.105			0.133	0.0873	0.0879	0.147	0.0832	0.110	0.446	0.458
F-D	mg/L	2 to 3												2.30				
S ²⁻ as H ₂ S	mg/L	0.02	0.0532	0.0489				0.0850	0.170	24.4	0.138	2.66	2.87	0.255		0.0861	0.223	0.0627
Q2 Ex-situ Groundwater	Area Well ID Replicates Units	Freshwater Aquatic Life (CSR-AW)	2 North / 3 North Mine Area							2-North / River Barrier Pillar			River Barrier Pillar			7-South		
Parameter			QU0821GS	QU0821GS Rep	QU0821GD	QU1010S	QU1010D	QU1011S	QU1011D	QU1011D Rep	QU1105S	QU1105D	QU1105D Rep	QU1109S	QU1109S Rep	QU1109S	QU0813A	QU0813A Rep
Date			5-Aug-21	5-Aug-21	5-Aug-21	2-Sep-21	2-Sep-21	24-Aug-21	24-Aug-21	24-Aug-21	23-Aug-21	23-Aug-21	23-Aug-21	19-Aug-21	19-Aug-21	27-Sep-21	16-Aug-21	16-Aug-21
As-D	mg/L	0.05	0.183	0.185	0.142	0.0957					0.104			0.0850	0.0926	0.0982	0.378	0.373
Cl-D	mg/L	1500					3100											
S ²⁻ as H ₂ S	mg/L	0.02	0.0298	0.0361	0.0585	0.574			0.0861	0.0744	0.0670	42.5	41.5	1.59	1.59	0.0202	0.170	0.234
Se-D	mg/L	0.01										0.0209	0.0154					
Q3 Ex-situ Groundwater	Area Well ID Replicates (R) Units	Freshwater Aquatic Life (CSR-AW)	2-North / River Barrier Pillar			Shallow GW above RBP		4-South		7-South								
Parameter			QU1105S	QU1105D	QU1105D	QU1109S	QU1109S	QU1109S	QU1009D	QU0813A	QU0813B							
Date			4-Nov-21	4-Nov-21	4-Nov-21	3-Nov-21	3-Nov-21	28-Oct-21	28-Oct-21	30-Nov-21	30-Nov-21							
As-D	mg/L	0.05	0.05890			0.102	0.0953	0.0941	0.104	0.374	0.533							
S ²⁻ as H ₂ S	mg/L	0.02	0.0606	54.2	52.1	1.81	1.81	0.0223	0.0819	0.181	0.0213							
Se-D	mg/L	0.01		0.0158	0.0132													
Q4 Ex-situ Groundwater	Area Well ID Replicates (R) Units	Freshwater Aquatic Life (CSR-AW)	2 North / 3 North Mine Area					2-North / River Barrier Pillar		7-South		242 Area	4-South					
Parameter			QU0821GS	QU0821GD	QU1010S	QU1010D	QU1010D	QU1105S	QU1105D	QU0813A	QU0813B	QU1136D	QU1008D	QU1008D	QU1009S	QU1009D	QU1009D	
As-D	mg/L	0.05	17-Mar-22	17-Mar-22	23-Mar-22	23-Mar-22	23-Mar-22	8-Mar-22	8-Mar-22	2-Mar-22	28-Feb-22	3-Mar-22	16-Mar-22	16-Mar-22	20-Jan-22	20-Jan-22	20-Jan-22	
Cl-D	mg/L	1500	0.211	0.186	0.112			0.127		0.455	0.501	0.881	0.149	0.149	0.0847	0.0912	0.0906	
S ²⁻ as H ₂ S	mg/L	0.02	0.149	0.0904	0.415			0.234	40.4	0.287	0.128		0.223	0.287	0.0213	0.0670	0.0755	

Table 5 Settling Pond # 4 - Authorized Discharge Location for North Mine Water 4 Page(s)

EMS ID	E207409			Stn Std PL-N														
Settling Pond # 4 - Authorized Discharge Location for North Mine Water																		
Site Description																		
Site Name	WD	Std Val		WD-6APR21-P	WD-12APR21-P	WD-19APR21-P	WD-26APR21-P	WD-3MAY21-P	WD-10MAY21-P	WD-17MAY21-P	WD-25MAY21-P	WD-1Jun21-P	WD-8Jun21-P	WD-14Jun21-P	WD-21Jun21-P	WD-29Jun21-P	WD-5JUL21-P	WD-12Jul21-P
Date		Max	Min	2021-04-06	2021-04-12	2021-04-19	2021-04-26	2021-05-03	2021-05-10	2021-05-17	2021-05-25	2021-06-01	2021-06-08	2021-06-14	2021-06-21	2021-06-29	2021-07-05	2021-07-12
pH-F	pH Units	8.5	6	7.58	8.05	8.02	8.02	7.48	7.48	7.67	7.56	7.46	7.46	7.49	7.22	7.74	7.85	7.86
Cond-F	uS/cm			2040	2620	2910	2830	2890	2980	3040	2570	2880	2960	2850	2880	2860	2780	2500
SO4-D	mg/L			630	920	910	960	1000	1000	1000	600	1000	1000	940	960	1000	1000	790
TSS	mg/L	25	0	2.4	2.8	<1.0	6.0	6.4	1.6	9.6	2.8	4.4	8.0	3.2	4.0	1.6	3.2	1.6
Alk-T	mg/L			480	440	440	490	470	500	490	460	470	480	490	510	500	490	
Acidity83	mg/L			3.9	4.7	9.3	10.9	4.8	11.1	8.6	3.7	8.2	10.1	9.9	18.0	12.1	11.1	
Al-T	mg/L			0.0043	0.0067	<0.0060	<0.0060	<0.0060	<0.0060	0.0071	<0.0060	<0.0060	<0.0060	<0.0060	0.0066	0.0037	0.0041	
As-T	mg/L			0.00178	0.00193	0.00186	0.00193	0.00165	0.00174	0.00174	0.00145	0.00121	0.00137	0.00157	0.00162	0.00125	0.00089	
Ba-T	mg/L			0.0246	0.0306	0.0289	0.0271	0.0262	0.0254	0.0269	0.0256	0.0241	0.0232	0.0221	0.0233	0.0231	0.0213	
B-T	mg/L			0.857	1.03	1.01	1.03	1.03	1.07	1.05	1.03	1.12	1.07	1.08	1.09	1.22	1.12	
Cd-T	mg/L			0.000013	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000010	<0.000010	
Ca-T	mg/L			140	205	206	206	203	200	222	148	199	194	188	181	182	188	
Cr-T	mg/L			<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	0.0138	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	
Co-T	mg/L			0.00061	0.00060	0.00042	0.00049	0.00045	0.00053	0.00056	0.00040	0.00055	0.00047	0.00049	0.00050	0.00045	0.00037	
Cu-T	mg/L			0.00129	0.0013	0.0018	0.0015	0.0016	0.0012	0.0013	0.0018	0.0010	0.0012	0.0012	0.0012	0.00137	0.00118	
Hard-T	mg/L			409	593	601	601	592	581	647	432	583	570	554	535	541	558	
Fe-T	mg/L			0.187	1.95	1.95	1.93	1.95	2.00	2.13	0.262	1.51	1.82	1.96	2.12	1.48	0.974	
Pb-T	mg/L			<0.00020	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00020	<0.00020	
Mg-T	mg/L			14.1	19.8	21.2	21.1	20.6	19.9	22.8	15.1	21.0	21.0	20.4	20.3	21.1	21.4	
Mn-T	mg/L			0.137	0.440	0.468	0.520	0.510	0.519	0.595	0.196	0.543	0.495	0.553	0.563	0.434	0.295	
Hg-T	mg/L			<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	
Mo-T	mg/L			<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	0.0171	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	
Ni-T	mg/L			0.0036	0.0033	<0.0020	<0.0020	<0.0020	0.0587	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0013	0.0014	
K-T	mg/L			3.23	4.82	5.02	4.97	4.98	4.79	5.29	3.71	5.04	4.95	4.87	5.05	4.98	5.07	
S-T	mg/L			198	322	338	329	328	331	371	229	336	330	312	321	317	331	
Se-T	mg/L			<0.00010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010	
Si-T	mg/L			2.89	3.54	3.56	3.46	3.35	3.26	3.58	2.99	3.15	3.29	3.48	3.31	3.06	2.87	
Ag-T	mg/L			<0.000020	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000020	<0.000020	
Na-T	mg/L			280	378	387	389	392	381	426	347	401	399	384	396	410	417	
Sr-T	mg/L			1.25	2.02	2.08	2.05	2.10	2.15	2.25	1.35	2.08	2.03	1.91	1.92	1.85	2.00	
Zn-T	mg/L			0.0118	0.066	0.044	0.028	0.023	0.017	0.013	<0.010	<0.010	<0.010	<0.010	<0.010	0.0054	<0.0050	
Al-D	mg/L	0.5	0	0.0037	0.0180	<0.0060	<0.0030	<0.0060	<0.0060	<0.0060	<0.0030	<0.0060	<0.0060	<0.0060	<0.0060	<0.0030	<0.0060	
As-D	mg/L			0.00144	0.00084	0.00085	0.00081	0.00077	0.00066	0.00072	0.00122	0.00059	0.00094	0.00060	0.00061	0.00056	0.00036	
Ba-D	mg/L			0.0265	0.0281	0.0268	0.0256	0.0249	0.0226	0.0237	0.0235	0.0224	0.0221	0.0211	0.0221	0.0214	0.0200	
B-D	mg/L			0.929	1.03	1.03	0.906	0.96	1.01	1.11	0.992	1.05	1.00	0.96	1.16	1.10	1.12	
Be-D	mg/L			<0.00010	<0.00020	<0.00020	<0.00010	<0.00020	<0.00020	<0.00020	<0.00010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010	<0.00020	
Cd-D	mg/L			<0.000010	<0.000020	<0.000020	<0.000010	<0.000020	<0.000020	<0.000020	<0.000010	<0.000020	<0.000020	<0.000020	<0.000020	<0.000010	<0.000020	
Ca-D	mg/L			141	203	200	198	199	203	141	203	189	180	197	179	180		
Cr-D	mg/L			<0.0010	<0.0020	<0.0020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0020	
Co-D	mg/L			0.00058	0.00059	0.00042	0.00051	0.00046	0.00048	0.00056	0.00036	0.00058	0.00047	0.00044	0.00050	0.00035	<0.00040	
Cu-D	mg/L	0.02	0	0.00047	<0.00040	<0.00040	<0.00020	<0.00040	0.00095	<0.00040	0.00069	<0.00040	<0.00040	<0.00040	<0.00040	0.00069	0.00059	
Hard-D	mg/L			417	588	586	575	577	565	597	412	594	556	525	582	528	537	
Fe-D	mg/L	0.3	0	0.0169	<0.010	0.010	0.0084	0.019	0.010	0.011	0.0322	0.011	<0.010	<0.010	<0.010	0.0148	0.016	
Pb-D	mg/L	0.05	0	<0.00020	<0.00040	<0.00040	<0.00020	<0.00040	<0.00040	<0.00040	<0.00020	<0.00040	<0.00040	<0.00040	<0.00040	<0.00020	<0.00040	
Mg-D	mg/L			15.8	19.6	20.9	19.7	20.2	20.2	14.2	21.3	20.6	18.6	22.0	19.8	21.1		
Mn-D	mg/L			0.140	0.440	0.461	0.507	0.518	0.541	0.591	0.179	0.512	0.492	0.510	0.581	0.385	0.291	
Hg-D	mg/L			<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	
Mo-D	mg/L			<0.0010	<0.0020	<0.0020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0020	
Ni-D	mg/L			0.0035	0.0033	<0.0020	0.0017	<0.0020	<0.0020	<0.0020	0.0012	<0.0020	<0.0020	<0.0020	<0.0020	0.0012	<0.0020	
K-D	mg/L			3.44	4.86	4.94	4.80	4.89	4.74	5.10	4.89	5.06	4.56	4.85	4.80	4.98		
S-D	mg/L			216	326	336	336	318	325	344	233	337	321	304	338	309	323	
Se-D	mg/L			<0.00010	<0.00020	<0.00020	<0.00010	<0.00020	<0.00020	<0.00020	<0.00010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010	<0.00020	
Si-D	mg/L			2.91	3.50	3.38	3.12	3.31	3.20	3.42	3.02	3.33	3.11	3.16	3.26	2.91	2.88	
Na-D	mg/L			308	368	388	382	376	382	398	323	393	401	368	431	382	400	
Sr-D	mg/L			1.31	2.00	2.00	2.04	2.02	2.00	2.00	1.41	1.99	1.96	1.91	1.96	1.85	1.95	
Zn-D	mg/L	0.1	0	0.0114	0.033	0.031	0.0209	0.020	0.012	<0.010	0.0073	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.010	
O&G	mg/L	10	0	<1.0								<1.0						

Table 5 Settling Pond # 4 - Authorized Discharge Location for North Mine Water 4 Page(s)

EMS ID	E207409																	
Site Description	Settling Pond # 4 - Authorized Discharge Location for North Mine Water																	
Site Name	WD	Std Val		WD-19JUL21-P	WD-26JUL21-P	WD-29JUL21-P	WD-4AUG21-P	WD-9AUG21-P	WD-16AUG21-P	WD-16AUG21-R	WD-23AUG21-P	WD-1SEP21-P	WD-8SEP21-P	WD-13SEP21-R	WD-13SEP21-P	WD-20SEP21-P	WD-27SEP21-P	WD-4Oct21-P
Date		Max	Min	2021-07-19	2021-07-26	2021-07-29	2021-08-04	2021-08-09	2021-08-16	2021-08-16	2021-08-23	2021-09-01	2021-09-08	2021-09-13	2021-09-13	2021-09-20	2021-09-27	2021-10-04
pH-F	pH Units	8.5	6	7.61	7.43		7.59	7.6	7.42		7.5	7.51	7.42		7.37	7.46	7.35	7.48
Cond-F	uS/cm			1845	2150		2740	2670	1918		2740	2700	2490		2330	2010	2130	2625
SO4-D	mg/L			560	550	750	880	850	590	620	810	880	950	700	750	630	700	920
TSS	mg/L	25	0	1.6		4.4	2.0	4.8	2.4	<1.0	5.6	2.8	2.8	2.4	3.6	3.6	2.4	2.8
Alk-T	mg/L							500				490						430
Acidity83	mg/L							8.7				3.0						7.8
Al-T	mg/L							<0.0060										<0.0060
As-T	mg/L							0.00126										0.00104
Ba-T	mg/L							0.0192										0.0181
B-T	mg/L							1.19										1.01
Cd-T	mg/L							<0.000020										<0.000020
Ca-T	mg/L							169										219
Cr-T	mg/L							<0.0020										<0.0020
Co-T	mg/L							<0.00040										<0.00040
Cu-T	mg/L							<0.0010										<0.0010
Hard-T	mg/L							502										644
Fe-T	mg/L							1.42										0.888
Pb-T	mg/L							<0.00040										<0.00040
Mg-T	mg/L							19.7										23.4
Mn-T	mg/L							0.304										0.110
Hg-T	mg/L							<0.0000019										<0.0000019
Mo-T	mg/L							<0.0020										<0.0020
Ni-T	mg/L							<0.0020										<0.0020
K-T	mg/L							4.79										5.00
S-T	mg/L							284										333
Se-T	mg/L							<0.00020										<0.00020
Si-T	mg/L							3.22										3.63
Ag-T	mg/L							<0.000040										<0.000040
Na-T	mg/L							395										366
Sr-T	mg/L							1.61										1.92
Zn-T	mg/L							<0.010										<0.010
Al-D	mg/L	0.5	0					<0.0060				<0.0030						<0.0030
As-D	mg/L							0.00059				0.00059						0.00048
Ba-D	mg/L							0.0182				0.0181						0.0169
B-D	mg/L							1.18				1.01						0.940
Be-D	mg/L							<0.00020				<0.00010						<0.00010
Cd-D	mg/L							<0.000020				<0.000010						<0.000010
Ca-D	mg/L							168				181						203
Cr-D	mg/L							<0.0020				<0.0010						<0.0010
Co-D	mg/L							<0.00040				<0.00020						<0.00020
Cu-D	mg/L	0.02	0					<0.00040				<0.00020						0.00022
Hard-D	mg/L							496				526						598
Fe-D	mg/L	0.3	0					0.013				0.0131						0.0085
Pb-D	mg/L	0.05	0					<0.00040				<0.00020						<0.00020
Mg-D	mg/L							18.7				18.4						22.2
Mn-D	mg/L							0.292				0.253						0.106
Hg-D	mg/L							<0.0000019				<0.0000019						<0.0000019
Mo-D	mg/L							<0.0020				<0.0010						<0.0010
Ni-D	mg/L							<0.0020				<0.0010						0.0010
K-D	mg/L							4.59				4.66						4.60
S-D	mg/L							281				280						323
Se-D	mg/L							<0.00020				<0.00010						<0.00010
Si-D	mg/L							3.38				3.27						3.58
Na-D	mg/L							372				392						338
Sr-D	mg/L							1.67				1.70						1.89
Zn-D	mg/L	0.1	0					<0.010				<0.0050						<0.0050
O&G	mg/L	10	0					<1.0										<1.0

Table 5 Settling Pond # 4 - Authorized Discharge Location for North Mine Water 4 Page(s)

EMS ID E207409																		
Settling Pond # 4 - Authorized Discharge Location for North Mine Water																		
Site Name	WD	Std Val		WD-12Oct21-P	WD-18Oct21-P	WD-25Oct21-P	WD-1NOV21-P	WD-8NOV21-P	WD-16NOV21-P	WD-23NOV21-R	WD-23NOV21-P	WD-29NOV21-P	WD-7DEC21-P	WD-13DEC21-P	WD-20DEC21-P	WD-20DEC21-R	WD-27Dec21-P	WD-4JAN22-P
Date		Max	Min	2021-10-12	2021-10-18	2021-10-25	2021-11-01	2021-11-08	2021-11-16	2021-11-23	2021-11-23	2021-11-29	2021-12-07	2021-12-13	2021-12-20	2021-12-20	2021-12-27	2022-01-04
pH-F	pH Units	8.5	6	7.72	7.58	7.34	7.33	7.36	7.92	7.67	7.67	7.39	7.84	7.75	8.34	8.34	7.76	7.8
Cond-F	uS/cm			1795.1	1988.5	1167.7	1821.9	1461.7	1391	2180	2180	1626	2110	2040	2110	2130	2060	
SO4-D	mg/L			540	780	340	690	550	570	620	630	624	600	560	580	460	500	470
TSS	mg/L	25	0	1.2	6.4	16	<1.0	3.2	4.8	2.8	4.8	2.4	3.6	2.0	2.0	<1.0	<1.0	3.6
Alk-T	mg/L						410						440					460
Acidity83	mg/L						1.2						13.4					3.9
Al-T	mg/L												0.0271					
As-T	mg/L												0.00152					
Ba-T	mg/L												0.0162					
B-T	mg/L												0.786					
Cd-T	mg/L												<0.000010					
Ca-T	mg/L												130					
Cr-T	mg/L												<0.0010					
Co-T	mg/L												0.00059					
Cu-T	mg/L												0.00094					
Hard-T	mg/L												384					
Fe-T	mg/L												0.925					
Pb-T	mg/L												<0.00020					
Mg-T	mg/L												14.7					
Mn-T	mg/L												0.220					
Hg-T	mg/L												<0.0000019					
Mo-T	mg/L												<0.0010					
Ni-T	mg/L												0.0019					
K-T	mg/L												3.55					
S-T	mg/L												194					
Se-T	mg/L												<0.00010					
Si-T	mg/L												3.50					
Ag-T	mg/L												<0.000020					
Na-T	mg/L												276					
Sr-T	mg/L												1.23					
Zn-T	mg/L												<0.0050					
Al-D	mg/L	0.5	0				0.0139						0.0061					<0.0030
As-D	mg/L						0.00101						0.00098					0.00122
Ba-D	mg/L						0.0169						0.0159					0.0176
B-D	mg/L						0.855						0.806					0.838
Be-D	mg/L						<0.00010						<0.00010					<0.00010
Cd-D	mg/L						0.000020						<0.000010					<0.000010
Ca-D	mg/L						142						132					125
Cr-D	mg/L						<0.0010						<0.0010					<0.0010
Co-D	mg/L						0.00059						0.00057					0.00030
Cu-D	mg/L	0.02	0				0.00035						<0.00020					<0.00020
Hard-D	mg/L						427						389					367
Fe-D	mg/L	0.3	0				0.0081						0.0147					0.0121
Pb-D	mg/L	0.05	0				<0.00020						<0.00020					<0.00020
Mg-D	mg/L						17.5						14.6					13.3
Mn-D	mg/L						0.156						0.215					0.211
Hg-D	mg/L						<0.0000019						<0.0000019					<0.0000019
Mo-D	mg/L						<0.0010						<0.0010					<0.0010
Ni-D	mg/L						0.0027						0.0018					<0.0010
K-D	mg/L						3.83						3.60					3.73
S-D	mg/L						237						195					184
Se-D	mg/L						<0.00010						<0.00010					<0.00010
Si-D	mg/L						3.29						3.43					3.43
Na-D	mg/L						313						277					281
Sr-D	mg/L						1.29						1.27					1.23
Zn-D	mg/L	0.1	0				<0.0050						<0.0050					<0.0050
O&G	mg/L	10	0										<1.0					

Table 5 Settling Pond # 4 - Authorized Discharge Location for North Mine Water 4 Page(s)

EMS ID		E207409															
Site Description		Settling Pond # 4 - Authorized Discharge Location for North Mine Water															
Site Name	WD	Std Val		WD-4JAN22-R	WD-11JAN22-P	WD-17JAN22-P	WD-24JAN22-P	WD-1FEB22-P	WD-7FEB22-P	WD-14FEB22-P	WD-22FEB22-P	WD-1MAR22-P	WD-7MAR22-R	WD-7MAR22-P	WD-14MAR22-P	WD-22Mar22-P	WD-28MAR22-P
Date		Max	Min	2022-01-04	2022-01-11	2022-01-17	2022-01-24	2022-02-01	2022-02-07	2022-02-14	2022-02-22	2022-03-01	2022-03-07	2022-03-07	2022-03-14	2022-03-22	2022-03-28
pH-F	pH Units	8.5	6		7.64	7.69	7.6	7.87	7.86	7.12	8.03	7.83		8.04	7.8	7.66	7.62
Cond-F	uS/cm			2020	1650	1650	2010	2030	2020	1927	2120	1815		2130	1966	1954	1632
SO4-D	mg/L			550	540	470	560	570	580	570	590	410	550	550	510		400
TSS	mg/L	25	0	4.4	<1.0	1.2	<1.0	1.2	1.6	2.4	<1.0	1.6	3.2	2.8	2.8		<1.0
Alk-T	mg/L			450		390		440				450					
Acidity83	mg/L			8.3		2.2		4.1				<1.0					
Al-T	mg/L							0.0142									
As-T	mg/L							0.00174									
Ba-T	mg/L							0.0178									
B-T	mg/L							0.868									
Cd-T	mg/L							<0.000010									
Ca-T	mg/L							127									
Cr-T	mg/L							<0.0010									
Co-T	mg/L							0.00033									
Cu-T	mg/L							0.00061									
Hard-T	mg/L							375									
Fe-T	mg/L							1.02									
Pb-T	mg/L							<0.00020									
Mg-T	mg/L							14.2									
Mn-T	mg/L							0.203									
Hg-T	mg/L							<0.0000019									
Mo-T	mg/L							<0.0010									
Ni-T	mg/L							0.0011									
K-T	mg/L							3.74									
S-T	mg/L							186									
Se-T	mg/L							<0.00010									
Si-T	mg/L							3.33									
Ag-T	mg/L							<0.000020									
Na-T	mg/L							282									
Sr-T	mg/L							1.18									
Zn-T	mg/L							<0.0050									
Al-D	mg/L	0.5	0	<0.0030				0.0039				0.0039					
As-D	mg/L			0.00116				0.00097				0.00120					
Ba-D	mg/L			0.0173				0.0166				0.0179					
B-D	mg/L			0.847				0.866				0.830					
Be-D	mg/L			<0.00010				<0.00010				<0.00010					
Cd-D	mg/L			<0.000010				<0.000010				<0.000010					
Ca-D	mg/L			123				131				109					
Cr-D	mg/L			<0.0010				<0.0010				<0.0010					
Co-D	mg/L			0.00029				0.00031				0.00029					
Cu-D	mg/L	0.02	0	<0.00020				0.00024				0.00023					
Hard-D	mg/L			361				385				324					
Fe-D	mg/L	0.3	0	0.0134				0.0065				0.0164					
Pb-D	mg/L	0.05	0	<0.00020				<0.00020				<0.00020					
Mg-D	mg/L			13.1				13.8				12.7					
Mn-D	mg/L			0.210				0.203				0.105					
Hg-D	mg/L			<0.0000019				<0.0000019				<0.0000019					
Mo-D	mg/L			<0.0010				<0.0010				<0.0010					
Ni-D	mg/L			<0.0010				0.0011				<0.0010					
K-D	mg/L			3.66				3.65				2.99					
S-D	mg/L			179				191				151					
Se-D	mg/L			<0.00010				<0.00010				<0.00010					
Si-D	mg/L			3.37				3.42				2.93					
Na-D	mg/L			279				283				255					
Sr-D	mg/L			1.18				1.24				0.956					
Zn-D	mg/L	0.1	0	<0.0050				<0.0050				0.0176					
O&G	mg/L	10	0					<1.0									

Table 6 2 North Pit Sump CCR Water Cover 1 Page(s)

EMS ID	E207412													
Site Description	2 North Pit Sump CCR Water Cover													
Site Name	WP	WP-6APR21-M	WP-6MAY21-M	WP-1Jun21-M	WP-5JUL21-M	WP-9AUG21-M	WP-1SEP21-M	WP-4Oct21-M	WP-1NOV21-M	WP-7Dec21-M	WP-18JAN22-M	WP-1FEB22-M	WP-1MAR22-M	
Date		2021-04-06	2021-05-06	2021-06-01	2021-07-05	2021-08-09	2021-09-01	2021-10-04	2021-11-01	2021-12-07	2022-01-18	2022-02-01	2022-03-01	
pH-F	pH Units	8	8.07	7.95	7.95	7.17	7.67	7.8	7.85	7.92	8.25	7.69	7.46	
Cond-F	uS/cm	1981	2100	2750	2940	3320	3290	1948	1966.7	1731	261	612	1939	
SO4-D	mg/L	700	690	1100	1300	580	1400	1100	880	660	160	240	570	
TSS	mg/L	<1.0	1.2	4.4	16	2.0	2.4	3.2	<1.0	2.0	<1.0	1.6	3.6	
Alk-T	mg/L	320	230	340	240	200	360	410	310	160	40	73	280	
Acidity83	mg/L	<1.0	3.3	2.2	2.5	<1.0	2.8	3.9	<1.0	8.6	1.3	1.4	4.4	
Al-T	mg/L	0.0247	0.0157	0.0074	0.0115	<0.0030	<0.0060	0.0230	0.113	0.0335	0.0210	0.0162	0.0230	
As-T	mg/L	0.00052	0.00037	0.00053	0.00092	0.00025	0.00040	0.00242	0.00062	0.00019	<0.00010	0.00012	0.00114	
Ba-T	mg/L	0.0140	0.0135	0.0166	0.0160	0.0159	0.0129	0.0142	0.0138	0.0127	0.0046	0.0065	0.0141	
B-T	mg/L	0.735	0.781	0.97	1.15	1.02	1.03	1.13	0.888	0.360	0.095	0.132	0.618	
Cd-T	mg/L	<0.000010	<0.000010	<0.000020	<0.000020	<0.000010	<0.000020	<0.000020	0.000026	0.000027	0.000018	0.000024	0.000015	
Ca-T	mg/L	150	138	191	167	231	196	194	180	207	77.8	77.1	189	
Cr-T	mg/L	<0.0010	<0.0010	<0.0020	<0.0020	<0.0010	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Co-T	mg/L	0.00959	0.00262	0.00084	<0.00040	<0.00020	<0.00040	0.00047	0.00361	0.00337	0.00096	0.00146	0.00110	
Cu-T	mg/L	0.00066	0.00055	<0.0010	0.0015	<0.00050	<0.0010	0.0012	0.00210	0.00134	0.00057	0.00087	0.00114	
Hard-T	mg/L	458	437	580	542	703	592	582	547	633	237	231	580	
Fe-T	mg/L	0.360	0.134	1.04	0.422	0.071	0.284	2.19	0.613	0.160	0.029	0.054	1.41	
Pb-T	mg/L	<0.00020	<0.00020	<0.00040	<0.00040	<0.00020	<0.00040	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	
Mg-T	mg/L	20.3	22.4	25.0	30.6	30.4	25.1	23.8	23.9	10.4	9.39	25.9	25.9	
Mn-T	mg/L	0.256	0.0613	0.343	0.0458	0.190	0.0563	0.134	0.171	0.143	0.0466	0.0884	0.213	
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	
Mo-T	mg/L	<0.0010	0.0011	<0.0020	<0.0020	<0.0010	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Ni-T	mg/L	0.0200	0.0143	0.0063	0.0020	0.0015	<0.0020	<0.0020	0.0066	0.0073	0.0028	0.0033	0.0035	
K-T	mg/L	3.10	3.33	4.67	5.87	6.65	6.07	5.95	4.46	1.80	0.538	0.814	2.91	
S-T	mg/L	233	257	344	422	473	396	381	320	222	67.1	71.1	232	
Se-T	mg/L	<0.00010	<0.00010	<0.00020	<0.00020	<0.00010	<0.00020	<0.00020	0.00016	0.00021	0.00012	0.00013	0.00014	
Si-T	mg/L	2.57	2.25	2.40	3.55	3.36	3.31	3.74	3.66	3.00	1.04	1.35	2.81	
Ag-T	mg/L	<0.0000020	<0.0000020	<0.0000040	<0.0000040	<0.0000020	<0.0000040	<0.0000040	<0.0000020	<0.0000020	<0.0000020	<0.0000020	<0.0000020	
Na-T	mg/L	258	269	350	452	482	424	448	304	78.3	25.3	175	175	
Sr-T	mg/L	1.26	1.37	1.94	2.04	2.46	2.26	2.12	1.66	1.28	0.385	0.429	1.31	
Zn-T	mg/L	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.010	<0.010	0.0110	0.0071	<0.0050	<0.0050	<0.0050	
Al-D	mg/L	0.0043	0.0033	<0.0060	<0.0060	<0.0060	<0.0060	0.0049	0.0385	0.0156	0.0067	0.0077	<0.0030	
As-D	mg/L	0.00036	0.00027	0.00033	0.00062	0.00027	0.00026	0.00044	0.00019	0.00013	<0.00010	0.00012	0.00063	
Ba-D	mg/L	0.0139	0.0118	0.0149	0.0143	0.0159	0.0130	0.0123	0.0127	0.0122	0.0024	0.0063	0.0137	
B-D	mg/L	0.743	0.731	0.94	1.08	1.25	1.10	1.07	0.774	0.354	<0.050	0.143	0.609	
Be-D	mg/L	<0.00010	<0.00010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	
Cd-D	mg/L	<0.000010	<0.000010	<0.000020	<0.000020	<0.000020	<0.000020	<0.000010	0.000019	0.000028	0.000013	0.000025	<0.000010	
Ca-D	mg/L	145	130	185	150	222	213	185	172	209	36.1	75.1	190	
Cr-D	mg/L	<0.0010	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Co-D	mg/L	0.00849	0.00102	0.00065	<0.00040	<0.00040	<0.00040	0.00039	0.00334	0.00326	0.00036	0.00140	0.00115	
Cu-D	mg/L	0.00032	0.00031	0.00050	0.00117	<0.00040	<0.00040	0.00037	0.00090	0.00088	0.00027	0.00069	0.00030	
Hard-D	mg/L	448	407	566	493	672	644	560	525	644	112	225	582	
Fe-D	mg/L	0.0060	<0.0050	<0.010	0.018	<0.010	0.015	0.0071	<0.0050	<0.0050	<0.0050	<0.0050	0.116	
Pb-D	mg/L	<0.00020	<0.00020	<0.00040	<0.00040	<0.00040	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	
Mg-D	mg/L	21.3	20.3	25.3	28.7	28.9	27.5	23.5	22.8	29.4	5.26	9.16	26.4	
Mn-D	mg/L	0.213	0.0182	0.290	0.0254	0.171	0.0466	0.118	0.163	0.137	0.0186	0.0829	0.226	
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	
Mo-D	mg/L	<0.0010	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Ni-D	mg/L	0.0181	0.0099	0.0055	0.0020	0.0020	<0.0020	0.0012	0.0061	0.0069	0.0010	0.0031	0.0036	
K-D	mg/L	3.17	3.00	4.59	5.58	6.24	6.43	5.71	4.41	1.87	0.332	0.764	3.03	
S-D	mg/L	250	235	352	413	454	425	373	309	223	32.8	71.5	237	
Se-D	mg/L	<0.00010	<0.00010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010	0.00018	0.00021	<0.00010	0.00013	0.00013	
Si-D	mg/L	2.45	2.08	2.51	3.46	3.55	3.33	3.66	3.00	2.93	0.43	1.30	2.81	
Na-D	mg/L	269	247	342	425	461	483	425	302	80.5	6.17	24.7	182	
Sr-D	mg/L	1.27	1.24	1.87	2.00	2.34	2.23	2.09	1.52	1.33	0.182	0.420	1.32	
Zn-D	mg/L	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.0050	0.0052	<0.0050	0.0052	<0.0050	

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 7 2-North Portal Sump Effluent 1 Page(s)

EMS ID		E283433												
Site Description		2-North Portal Sump Effluent												
Site Name		2NPS	2NPS-6APR21-M	2NPS-6MAY21-M	2NPS-1JUN21-M	2NPS-5JUL21-M	2NPS-9AUG21-M	2NPS-1SEP21-M	2NPS-4OCT21-M	2NPS-1NOV21-M	2NPS-7DEC21-M	2NPS-18JAN22-M	2NPS-1FEB22-M	2NPS-1MAR22-M
Date		2021-04-06	2021-05-06	2021-06-01	2021-07-05	2021-08-09	2021-09-01	2021-10-04	2021-11-01	2021-12-07	2022-01-18	2022-02-01	2022-03-01	
pH-F	pH Units	7.29	7.47	7.47	7.7	7.02	7.43	7.32	7.17	7.58	7.5	7.96	7.62	
Cond-F	uS/cm	2230	2450	2450	2640	2710	2840	2348	2263.1	2750	2310	2270	2500	
SO4-D	mg/L	950	950	980	1000	1200	1200	1100	1200	1200	820	1100	1100	
Alk-T	mg/L	320	250	280	310	330	280	320	330	300	170	300	300	
Acidity83	mg/L	11.0	13.1	9.9	12.3	18.4	4.0	8.6	3.0	19.3	2.4	4.2	8.1	
Al-T	mg/L	0.0187	0.0113	0.0177	0.0133	0.0076	<0.0060	0.0293	0.0697	0.165	0.261	0.0639	0.0298	
As-T	mg/L	0.00060	0.00088	0.00076	0.00068	0.00041	0.00062	0.00102	0.00087	0.00056	0.00044	0.00104	0.00098	
Ba-T	mg/L	0.0111	0.0112	0.0105	0.0120	0.0138	0.0121	0.0120	0.0149	0.0149	0.0114	0.0116	0.0105	
B-T	mg/L	0.70	0.81	0.79	0.85	0.94	0.83	0.85	0.97	0.83	0.629	0.80	0.82	
Cd-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	0.000025	<0.000020	<0.000020	
Ca-T	mg/L	244	255	246	268	297	293	284	319	309	291	298	285	
Cr-T	mg/L	<0.0020	0.0061	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0020	<0.0020	
Co-T	mg/L	0.00138	0.00112	0.00097	0.00066	0.00093	0.00071	0.00142	0.00201	0.00283	0.00442	0.00187	0.00151	
Cu-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0011	0.0019	0.00280	<0.0010	<0.0010	
Hard-T	mg/L	718	757	723	799	883	857	827	936	909	850	881	847	
Fe-T	mg/L	0.233	0.230	0.236	0.190	0.182	0.210	0.310	0.264	0.198	0.123	0.285	0.306	
Pb-T	mg/L	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00020	<0.00040	<0.00040	
Mg-T	mg/L	26.3	29.6	26.6	31.3	34.2	30.8	28.6	34.2	33.5	29.9	33.1	33.2	
Mn-T	mg/L	0.191	0.260	0.218	0.170	0.179	0.159	0.328	0.277	0.298	0.235	0.258	0.244	
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	
Mo-T	mg/L	<0.0020	0.0070	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0020	<0.0020	
Ni-T	mg/L	0.0025	0.0278	0.0025	<0.0020	<0.0020	<0.0020	0.0030	0.0053	0.0069	0.0099	0.0042	0.0031	
K-T	mg/L	3.51	3.95	3.72	4.02	4.09	4.14	4.03	4.40	4.06	3.61	4.04	3.96	
S-T	mg/L	299	345	317	351	381	379	374	427	382	321	367	360	
Se-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00031	<0.00020	<0.00020	
Si-T	mg/L	2.93	3.06	2.69	2.80	3.09	2.93	3.16	3.92	3.45	3.07	3.28	3.22	
Ag-T	mg/L	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000020	<0.000040	<0.000040	
Na-T	mg/L	223	243	229	257	276	275	283	278	245	182	243	244	
Sr-T	mg/L	1.77	1.96	1.90	2.07	2.08	2.27	2.07	2.22	2.25	2.01	2.08	1.97	
Zn-T	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.022	0.011	0.0136	<0.010	<0.010	
Al-D	mg/L	<0.0060	<0.0060	0.0094	0.0081	0.0065	<0.0060	0.0087	0.0186	0.0284	0.0631	0.0233	0.0068	
As-D	mg/L	0.00054	0.00060	0.00064	0.00049	0.00039	0.00042	0.00077	0.00049	0.00031	0.00037	0.00064	0.00068	
Ba-D	mg/L	0.0114	0.0102	0.0104	0.0114	0.0129	0.0114	0.0120	0.0128	0.0164	0.0118	0.0117	0.0100	
B-D	mg/L	0.74	0.75	0.78	0.79	0.90	0.84	0.92	0.90	0.78	0.69	0.84	0.80	
Be-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	
Cd-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	0.000023	0.000024	<0.000020	<0.000020	
Ca-D	mg/L	243	233	255	262	270	298	279	307	321	295	314	278	
Cr-D	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	
Co-D	mg/L	0.00135	0.00099	0.00093	0.00066	0.00072	0.00073	0.00138	0.00189	0.00240	0.00401	0.00189	0.00146	
Cu-D	mg/L	<0.00040	<0.00040	<0.00040	0.00058	<0.00040	<0.00040	<0.00040	<0.00040	0.00049	0.00117	0.00040	<0.00040	
Hard-D	mg/L	726	694	748	780	807	876	814	900	940	865	916	825	
Fe-D	mg/L	0.141	0.024	0.021	0.020	0.035	0.022	0.093	0.138	0.048	0.012	0.183	0.154	
Pb-D	mg/L	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	
Mg-D	mg/L	28.6	27.0	27.2	30.3	32.2	32.0	28.6	32.6	33.8	31.3	32.4	31.7	
Mn-D	mg/L	0.193	0.233	0.219	0.170	0.148	0.157	0.315	0.259	0.317	0.213	0.245	0.234	
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	
Mo-D	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	
Ni-D	mg/L	0.0025	0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0049	0.0058	0.0098	0.0042	0.0029	
K-D	mg/L	3.55	3.59	3.73	3.96	4.02	4.19	3.98	4.29	4.20	3.83	4.06	3.90	
S-D	mg/L	305	315	332	361	382	390	379	412	392	348	395	348	
Se-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00031	<0.00020	<0.00020	
Si-D	mg/L	2.78	2.74	2.96	2.83	3.10	2.81	3.17	3.29	3.62	3.09	3.56	3.14	
Na-D	mg/L	231	226	226	250	265	288	277	280	253	186	242	240	
Sr-D	mg/L	1.71	1.77	1.89	2.17	2.06	2.12	2.04	2.02	2.30	2.06	2.23	1.89	
Zn-D	me/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.013	<0.010	<0.010	

Table 8 Road Side Ditch Draining into MQL 1 Page(s)

EMS ID										
Site Description										
Road Side Ditch Draining into MQL										
Site Name	PDSR	PDSR-6APR21-M	PDSR-10MAY21-M	PDSR-1JUN21-M	PDSR-4OCT21-M	PDSR-1NOV21-M	PDSR-7DEC21-M	PDSR-18JAN22-M	PDSR-1FEB22-M	PDSR-1MAR22-M
Date		2021-04-06	2021-05-10	2021-06-01	2021-10-04	2021-11-01	2021-12-07	2022-01-18	2022-02-01	2022-03-01
pH-F	pH Units	7.53	7.65	7.69	7.34	7.31	7.87	8.002	8.03	8.13
Cond-F	uS/cm	1528	2100	2230	2238	1001	1214	1033	1218	1248
SO4-D	mg/L	750	930	990	1100	440	420	290	440	410
TSS	mg/L		9.2	8.0	2.0	<1.0	<1.0	<1.0	<1.0	3.2
Al-T	mg/L	0.0110	0.106	0.0706	0.0111	0.0104	0.0099	0.0116	0.0104	0.0183
As-T	mg/L	0.00011	0.00022	<0.00020	0.00021	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Ba-T	mg/L	0.0206	0.0271	0.0337	0.0430	0.0166	0.0136	0.0102	0.0127	0.0132
B-T	mg/L	0.239	0.375	0.50	0.42	0.213	0.168	0.148	0.161	0.184
Cd-T	mg/L	<0.000010	0.000020	<0.000020	0.000307	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Ca-T	mg/L	227	299	338	369	161	124	151	174	174
Cr-T	mg/L	<0.0010	0.0032	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Co-T	mg/L	<0.00020	<0.00020	<0.00040	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Cu-T	mg/L	<0.00050	0.00060	<0.0010	0.0013	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Hard-T	mg/L	721	938	1060	1160	517	475	394	483	548
Fe-T	mg/L	<0.010	0.109	0.033	<0.020	<0.010	<0.010	<0.010	<0.010	0.014
Pb-T	mg/L	<0.00020	<0.00020	<0.00040	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mg-T	mg/L	37.7	46.1	53.3	57.2	28.0	25.2	20.6	25.5	27.6
Mn-T	mg/L	<0.0010	0.0070	0.0065	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019
Mo-T	mg/L	<0.0010	0.0040	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-T	mg/L	<0.0010	0.0130	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
K-T	mg/L	1.48	2.28	2.22	2.42	1.31	0.944	0.811	1.02	1.06
S-T	mg/L	224	290	328	367	164	137	111	146	157
Se-T	mg/L	<0.00010	<0.00010	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Si-T	mg/L	3.39	3.93	4.06	4.40	3.62	3.31	3.19	3.26	3.43
Ag-T	mg/L	<0.000020	<0.000020	<0.000040	<0.000040	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Na-T	mg/L	50.9	63.2	68.0	94.6	44.6	35.8	28.4	33.9	35.6
Sr-T	mg/L	1.44	2.12	2.29	2.45	0.972	0.869	0.721	0.924	0.943
Zn-T	mg/L	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Al-D	mg/L	0.0070	0.0086	0.0092	0.0090	0.0075	0.0065	0.0078	0.0075	0.0075
As-D	mg/L	<0.00010	<0.00020	<0.00020	<0.00020	0.00014	<0.00010	<0.00010	<0.00010	<0.00010
Ba-D	mg/L	0.0215	0.0245	0.0312	0.0377	0.0159	0.0134	0.0105	0.0123	0.0132
B-D	mg/L	0.234	0.38	0.47	0.41	0.216	0.159	0.154	0.172	0.187
Be-D	mg/L	<0.00010	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Cd-D	mg/L	<0.000010	<0.000020	<0.000020	<0.000020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Ca-D	mg/L	232	294	337	341	163	148	128	159	166
Cr-D	mg/L	<0.0010	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Co-D	mg/L	<0.00020	<0.00040	<0.00040	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Cu-D	mg/L	0.00032	0.00114	0.00045	0.00067	0.00040	0.00033	0.00030	0.00032	0.00030
Hard-D	mg/L	741	926	1070	1080	517	473	403	501	530
Fe-D	mg/L	<0.0050	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.0050	0.0076	<0.0050
Pb-D	mg/L	<0.00020	<0.00040	<0.00040	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mg-D	mg/L	39.6	46.9	54.9	55.6	26.9	24.9	20.6	25.2	28.2
Mn-D	mg/L	<0.0010	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	0.0000020
Mo-D	mg/L	<0.0010	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-D	mg/L	<0.0010	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
K-D	mg/L	1.50	1.95	2.38	2.17	1.24	0.958	0.831	0.925	1.07
S-D	mg/L	240	285	329	350	157	138	115	147	161
Se-D	mg/L	<0.00010	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Si-D	mg/L	3.22	3.66	4.09	3.89	3.62	3.17	3.16	3.45	3.30
Na-D	mg/L	54.1	62.8	72.3	87.3	42.8	35.3	28.6	32.7	36.3
Sr-D	mg/L	1.42	1.90	2.19	2.25	1.01	0.882	0.715	0.926	0.941
Zn-D	mg/L	<0.0050	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 9 Culvert at Middle Quinsam Lake Road 1 Page(s)

EMS ID	E207411															
Site Description	Culvert at Middle Quinsam Lake Road															
Site Name	WC	WC-6APR21-M	WC-6APR21-R	WC-10MAY21-M	WC-1Jun21-M	WC-5JUL21-M	WC-9AUG21-M	WC-9AUG21-R	WC-1SEP21-M	WC-4Oct21-M	WC-1NOV21-M	WC-1NOV21-R	WC-7Dec21-M	WC-18JAN22-M	WC-1FEB22-M	WC-1MAR22-M
Date		2021-04-06	2021-04-06	2021-05-10	2021-06-01	2021-07-05	2021-08-09	2021-08-09	2021-09-01	2021-10-04	2021-11-01	2021-11-01	2021-12-07	2022-01-18	2022-02-01	2022-03-01
pH-F	pH Units	7.99	7.99	8.26	8.14	8.29	7.96		8.07	8.18	7.96	7.96	8.46	8.2	8.35	8.4
Cond-F	uS/cm	1883	1883	2940	2820	1738	2500		2410	2286	1577.4	1577.4	1956	1606	1805	1649
SO4-D	mg/L	590	550	1000	930	980	810	820	880	810	590	530	570	330	480	350
TSS	mg/L	1.2	<1.0	1.2	2.4	1.6	3.2	3.2	1.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Al-T	mg/L	0.0034	0.0042	<0.0060	0.0075		<0.0060	<0.0030		<0.0060			0.0157		0.0117	0.0070
As-T	mg/L	0.00038	0.00037	0.00032	0.00039		0.00029	0.00032		0.00034			0.00054		0.00053	0.00041
Ba-T	mg/L	0.0139	0.0136	0.0209	0.0217		0.0179	0.0171		0.0172			0.0134		0.0140	0.0123
B-T	mg/L	0.821	0.826	1.05	1.12		1.22	0.842		0.85			0.710		0.795	0.764
Cd-T	mg/L	<0.000010	<0.000010	<0.000020	<0.000020		<0.000020	<0.000010		<0.000020			<0.000010		<0.000010	<0.000010
Ca-T	mg/L	116	115	175	173		147	138		162			120		111	95.0
Cr-T	mg/L	<0.0010	<0.0010	0.0065	<0.0020		<0.0020	<0.0010		<0.0020			<0.0010		<0.0010	<0.0010
Co-T	mg/L	<0.00020	<0.00020	<0.00040	<0.00040		<0.00040	<0.00020		<0.00040			<0.00020		<0.00020	<0.00020
Cu-T	mg/L	<0.00050	0.00052	<0.0010	<0.0010		<0.0010	<0.00050		<0.0010			<0.00050		0.00059	<0.00050
Hard-T	mg/L	346	345	520	517		452	421		487			358		332	285
Fe-T	mg/L	0.061	0.060	0.108	0.133		0.094	0.087		0.067			0.139		0.143	0.058
Pb-T	mg/L	<0.00020	<0.00020	<0.00040	<0.00040		<0.00040	<0.00020		<0.00040			<0.00020		<0.00020	<0.00020
Mg-T	mg/L	13.9	14.1	19.9	20.3		20.5	18.5		20.2			13.9		13.2	11.5
Mn-T	mg/L	0.0102	0.0102	0.0375	0.0218		0.0189	0.0175		0.0224			0.0346		0.0350	0.0088
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019		<0.0000019	<0.0000019		<0.0000019			<0.0000019		<0.0000019	<0.0000019
Mo-T	mg/L	<0.0010	<0.0010	0.0078	<0.0020		<0.0020	<0.0010		<0.0020			<0.0010		<0.0010	<0.0010
Ni-T	mg/L	0.0032	0.0033	0.0273	<0.0020		<0.0020	<0.0010		<0.0020			0.0011		0.0011	<0.0010
K-T	mg/L	3.10	3.07	4.78	4.89		4.93	4.59		4.11			3.21		3.32	2.73
S-T	mg/L	189	184	331	329		296	278		282			183		165	137
Se-T	mg/L	<0.00010	<0.00010	<0.00020	<0.00020		<0.00020	<0.00010		<0.00020			<0.00010		<0.00010	<0.00010
Si-T	mg/L	2.51	2.60	2.96	3.08		3.57	3.28		3.19			3.57		3.35	2.86
Ag-T	mg/L	<0.000020	<0.000020	<0.000040	<0.000040		<0.000040	<0.000020		<0.000040			<0.000020		<0.000020	<0.000020
Na-T	mg/L	264	268	380	388		401	363		314			248		251	229
Sr-T	mg/L	1.13	1.11	1.98	1.99		1.61	1.57		1.59			1.14		1.04	0.844
Zn-T	mg/L	<0.0050	<0.0050	<0.010	<0.010		<0.010	<0.0050		<0.010			<0.0050		<0.0050	<0.0050
Al-D	mg/L	0.0036	<0.0030	<0.0060	<0.0060		<0.0060	<0.0060		0.0085			0.0117		0.0086	0.0053
As-D	mg/L	0.00031	0.00031	0.00027	0.00036		0.00037	0.00035		0.00034			0.00043		0.00044	0.00036
Ba-D	mg/L	0.0146	0.0145	0.0204	0.0204		0.0171	0.0171		0.0167			0.0129		0.0133	0.0121
B-D	mg/L	0.875	0.888	0.99	1.04		1.13	1.13		0.834			0.682		0.737	0.751
Be-D	mg/L	<0.00010	<0.00010	<0.00020	<0.00020		<0.00020	<0.00020		<0.00010			<0.00010		<0.00010	<0.00010
Cd-D	mg/L	<0.000010	<0.000010	<0.000020	<0.000020		<0.000020	<0.000020		<0.000010			<0.000010		<0.000010	<0.000010
Ca-D	mg/L	121	120	185	167		137	138		155			118		114	95.5
Cr-D	mg/L	<0.0010	<0.0010	<0.0020	<0.0020		<0.0020	<0.0020		<0.0010			<0.0010		<0.0010	<0.0010
Co-D	mg/L	<0.00020	<0.00020	<0.00040	<0.00040		<0.00040	<0.00040		<0.00020			<0.00020		<0.00020	<0.00020
Cu-D	mg/L	0.00029	0.00031	<0.00040	<0.00040		<0.00040	<0.00040		<0.00020			0.00038		0.00059	0.00025
Hard-D	mg/L	366	363	545	505		419	422		467			352		336	286
Fe-D	mg/L	0.0153	0.0136	<0.010	0.011		<0.010	0.010		0.0126			0.0098		0.0082	0.0116
Pb-D	mg/L	<0.00020	<0.00020	<0.00040	<0.00040		<0.00040	<0.00040		<0.00020			<0.00020		<0.00020	<0.00020
Mg-D	mg/L	15.7	15.5	20.4	21.1		18.5	18.8		19.6			13.5		12.6	11.5
Mn-D	mg/L	0.0097	0.0095	0.0379	0.0184		0.0174	0.0174		0.0209			0.0310		0.0335	0.0084
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019		<0.0000019	<0.0000019		<0.0000019			<0.0000019		<0.0000019	<0.0000019
Mo-D	mg/L	<0.0010	<0.0010	<0.0020	<0.0020		<0.0020	<0.0020		<0.0010			<0.0010		<0.0010	<0.0010
Ni-D	mg/L	0.0031	0.0031	<0.0020	<0.0020		<0.0020	<0.0020		<0.0010			0.0012		<0.0010	<0.0010
K-D	mg/L	3.31	3.25	4.95	4.84		4.60	4.72		3.88			3.17		3.19	2.78
S-D	mg/L	209	202	337	331		279	286		275			177		172	138
Se-D	mg/L	<0.00010	<0.00010	<0.00020	<0.00020		<0.00020	<0.00020		<0.00010			<0.00010		<0.00010	<0.00010
Si-D	mg/L	2.67	2.58	3.15	3.04		3.64	3.74		3.32			3.36		3.48	2.88
Na-D	mg/L	291	287	390	396		366	365		297			242		246	230
Sr-D	mg/L	1.16	1.16	1.93	1.88		1.57	1.60		1.61			1.11		1.08	0.851
Zn-D	mg/L	<0.0050	<0.0050	<0.010	<0.010		<0.010	<0.010		<0.0050			<0.0050		<0.0050	<0.0050

Table 10 Settling Pond #1 - Authorized Discharge Location for South Mine Water 4 Page(s)

EMS ID	E218582	Stn Std		PL-S															
Settling Pond #1 - Authorized Discharge Location for South Mine Water																			
Site Description	SPD	Std Val		SPD-1APR21-P	SPD-6APR21-P	SPD-12APR21-R	SPD-12APR21-P	SPD-19APR21-P	SPD-26APR21-P	SPD-3MAY21-P	SPD-10MAY21-F	SPD-17MAY21-F	SPD-25MAY21-P	SPD-1Jun21-P	SPD-8Jun21-P	SPD-14Jun21-P	SPD-21Jun21-P	SPD-21Jun21-R	SPD-29Jun21-P
Date		Max	Min	2021-04-01	2021-04-06	2021-04-12	2021-04-12	2021-04-19	2021-04-26	2021-05-03	2021-05-10	2021-05-17	2021-05-25	2021-06-01	2021-06-08	2021-06-14	2021-06-21	2021-06-21	2021-06-29
pH-F	pH Units	8.5	6	8.05	7.88	8.17	8.17	8.25	8.15	7.74	7.96	7.7	7.7	7.73	7.99	7.86	7.59	7.59	7.74
Cond-F	uS/cm			840	882	911	911	963	950	1038	1124	1192	1192	1020	1220	1214	1196	1196	972
SO4-D	mg/L			270	340	330	310	240	350	370	340	380	370	440	410	390	410	430	400
TSS	mg/L	25	0	1.2	1.2	3.2	<1.0	2.0	<1.0	1.6	2.0	<1.0	<1.0	<1.0	2.8	1.2	1.2	<1.0	<1.0
Alk-T	mg/L				110						110			110					
Acidity83	mg/L				<1.0						1.9			1.2					
Al-T	mg/L				0.0165									0.0083					
As-T	mg/L				0.00102									0.00080					
Ba-T	mg/L				0.0109									0.0155					
B-T	mg/L				0.180									0.226					
Cd-T	mg/L				<0.000010									0.000021					
Ca-T	mg/L				129									145					
Cr-T	mg/L				<0.0010									<0.0010					
Co-T	mg/L				<0.00020									<0.00020					
Cu-T	mg/L				<0.00050									0.00075					
Hard-T	mg/L				392									442					
Fe-T	mg/L				0.106									0.156					
Pb-T	mg/L				<0.00020									<0.00020					
Mg-T	mg/L				16.6									19.4					
Mn-T	mg/L				0.0209									0.0230					
Hg-T	mg/L				<0.0000019									<0.0000019					
Mo-T	mg/L				<0.0010									<0.0010					
Ni-T	mg/L				<0.0010									0.0012					
K-T	mg/L				1.25									1.52					
S-T	mg/L				112									136					
Se-T	mg/L				<0.00010									0.00013					
Si-T	mg/L				2.16									0.95					
Ag-T	mg/L				<0.000020									<0.000020					
Na-T	mg/L				22.2									25.4					
Sr-T	mg/L				0.793									0.968					
Zn-T	mg/L				0.0189									0.0092					
Al-D	mg/L	0.5	0		0.0050						<0.0030			<0.0030					
As-D	mg/L				0.00067						0.00066			0.00075					
Ba-D	mg/L				0.0112						0.0145			0.0151					
B-D	mg/L				0.175						0.205			0.221					
Be-D	mg/L				<0.00010						<0.00010			<0.00010					
Cd-D	mg/L				<0.000010						<0.000010			<0.000010					
Ca-D	mg/L				128						145			143					
Cr-D	mg/L				<0.0010						<0.0010			<0.0010					
Co-D	mg/L				<0.00020						<0.00020			<0.00020					
Cu-D	mg/L	0.02	0		0.00024						0.00031			0.00028					
Hard-D	mg/L				390						442			437					
Fe-D	mg/L	0.5	0		0.0241						0.0866			0.101					
Pb-D	mg/L	0.05	0		<0.00020						<0.00020			<0.00020					
Mg-D	mg/L				16.9						19.2			19.7					
Mn-D	mg/L				0.0110						0.0159			0.0204					
Hg-D	mg/L				<0.0000019						<0.0000019			<0.0000019					
Mo-D	mg/L				<0.0010						<0.0010			<0.0010					
Ni-D	mg/L				<0.0010						<0.0010			<0.0010					
K-D	mg/L				1.29						1.53			1.58					
S-D	mg/L				114						133			141					
Se-D	mg/L				<0.00010						<0.00010			<0.00010					
Si-D	mg/L				2.02						1.27			0.99					
Na-D	mg/L				23.2						24.6			26.1					
Sr-D	mg/L				0.794						0.942			0.945					
Zn-D	mg/L	0.2	0		0.0121						0.0137			0.0069					
O&G	mg/L	10	0		<1.0									<1.0					

Table 10 Settling Pond #1 - Authorized Discharge Location for South Mine Water 4 Page(s)

EMS ID	E218582																
Site Description		Settling Pond #1 - Authorized Discharge Location for South Mine Water															
Site Name	SPD	Std Val		SPD-5Jul21-P	SPD-12Jul21-P	SPD-19Jul21-P	SPD-26Jul21-P	SPD-4Aug21-P	SPD-9Aug21-P	SPD-16Aug21-P	SPD-23Aug21-P	SPD-15SEP21-P	SPD-8Sep21-P	SPD-13Sep21-P	SPD-20Sep21-P	SPD-23SEP21-P	SPD-27SEP21-P
Date		Max	Min	2021-07-05	2021-07-12	2021-07-19	2021-07-26	2021-08-04	2021-08-09	2021-08-16	2021-08-23	2021-09-01	2021-09-08	2021-09-13	2021-09-20	2021-09-23	2021-09-27
pH-F	pH Units	8.5	6	7.81	7.91	8.6	8.88	8	7.55	7.77	7.22	7.83	7.57	7.44	7.01	7.16	7.53
Cond-F	uS/cm			1018	907	884	862	884	942	1005	992	1044	1027	1112	902	988	1017
SO4-D	mg/L			490	460				480			450				440	470
TSS	mg/L	25	0	2.4	2.4				2.0			2.8				<1.0	<1.0
Alk-T	mg/L			110					110			99					110
Acidity83	mg/L			1.8					4.5			3.3					3.8
Al-T	mg/L								<0.0030								<0.0030
As-T	mg/L								0.00175								0.00115
Ba-T	mg/L								0.0179								0.0168
B-T	mg/L								0.296								0.307
Cd-T	mg/L								<0.000010								<0.000010
Ca-T	mg/L								147								156
Cr-T	mg/L								<0.0010								<0.0010
Co-T	mg/L								<0.00020								<0.00020
Cu-T	mg/L								<0.00050								<0.00050
Hard-T	mg/L								463								485
Fe-T	mg/L								0.189								0.126
Pb-T	mg/L								<0.00020								<0.00020
Mg-T	mg/L								23.2								23.2
Mn-T	mg/L								0.0308								0.0342
Hg-T	mg/L								<0.0000019								<0.0000019
Mo-T	mg/L								<0.0010								<0.0010
Ni-T	mg/L								<0.0010								<0.0010
K-T	mg/L								1.67								1.93
S-T	mg/L								144								157
Se-T	mg/L								<0.00010								<0.00010
Si-T	mg/L								6.95								5.01
Ag-T	mg/L								<0.000020								<0.000020
Na-T	mg/L								33.5								38.3
Sr-T	mg/L								1.00								1.05
Zn-T	mg/L								<0.0050								0.0204
Al-D	mg/L	0.5	0	<0.0030					<0.0030			0.0033					<0.0030
As-D	mg/L			0.00161					0.00170			0.00172					0.00103
Ba-D	mg/L			0.0184					0.0178			0.0165					0.0161
B-D	mg/L			0.251					0.291			0.290					0.293
Be-D	mg/L			<0.00010					<0.00010			<0.00010					<0.00010
Cd-D	mg/L			<0.000010					<0.000010			<0.000010					<0.000010
Ca-D	mg/L			141					146			154					152
Cr-D	mg/L			<0.0010					<0.0010			<0.0010					<0.0010
Co-D	mg/L			<0.00020					<0.00020			<0.00020					<0.00020
Cu-D	mg/L	0.02	0	0.00025					0.00022			0.00022					<0.00020
Hard-D	mg/L			434					455			481					473
Fe-D	mg/L	0.5	0	0.203					0.146			0.105					0.0819
Pb-D	mg/L	0.05	0	<0.00020					<0.00020			<0.00020					<0.00020
Mg-D	mg/L			20.1					21.7			23.4					22.6
Mn-D	mg/L			0.0643					0.0255			0.0146					0.0050
Hg-D	mg/L			<0.0000019					<0.0000019			<0.0000019					<0.0000019
Mo-D	mg/L			<0.0010					<0.0010			<0.0010					<0.0010
Ni-D	mg/L			<0.0010					<0.0010			<0.0010					<0.0010
K-D	mg/L			1.69					1.64			1.77					1.86
S-D	mg/L			141					143			152					153
Se-D	mg/L			0.00020					<0.00010			<0.00010					<0.00010
Si-D	mg/L			3.47					7.20			7.81					4.86
Na-D	mg/L			28.5					32.1			34.7					37.1
Sr-D	mg/L			1.04					0.974			1.04					1.02
Zn-D	mg/L	0.2	0	<0.0050					<0.0050			0.0085					0.0070
O&G	mg/L	10	0						<1.0								

Table 10 Settling Pond #1 - Authorized Discharge Location for South Mine Water 4 Page(s)

EMS ID	E218582															
Site Description	Settling Pond #1 - Authorized Discharge Location for South Mine Water															
Site Name	SPD	Std Val		SPD-4Oct21-P	SPD-12Oct21-P	SPD-18Oct21-P	SPD-25Oct21-P	SPD-1NOV21-P	SPD-8NOV21-P	SPD-16NOV21-P	SPD-23NOV21-P	SPD-29NOV21-P	SPD-7Dec21-P	SPD-13DEC21-P	SPD-20DEC21-P	SPD-27Dec21-P
Date		Max	Min	2021-10-04	2021-10-12	2021-10-18	2021-10-25	2021-11-01	2021-11-08	2021-11-16	2021-11-23	2021-11-29	2021-12-07	2021-12-13	2021-12-20	2021-12-27
pH-F	pH Units	8.5	6	7.64	7.75	7.29	6.95	6.92	6.81	6.75	6.99	6.78	6.88	6.91	6.94	6.73
Cond-F	uS/cm			963.2	923.8	862.8	459.6	550.4	319.1	343	210	138.2	218	343	236	232
SO4-D	mg/L			420	460	420	200	210	170	84	120	67.5	180	110	140	110
TSS	mg/L	25	0	<1.0	2.0	2.4	1.6	<1.0	<1.0	1.2	<1.0	<2.0	1.2	2.4	<1.0	2.0
Alk-T	mg/L			110				82					49			
Acidity83	mg/L			2.9				2.4					12.2			
Al-T	mg/L			0.0031									0.0526			
As-T	mg/L			0.00103									0.00114			
Ba-T	mg/L			0.0170									0.0096			
B-T	mg/L			0.272									0.093			
Cd-T	mg/L			<0.000010									<0.000010			
Ca-T	mg/L			159									49.6			
Cr-T	mg/L			<0.0010									<0.0010			
Co-T	mg/L			<0.00020									0.00045			
Cu-T	mg/L			<0.00050									0.00051			
Hard-T	mg/L			490									153			
Fe-T	mg/L			0.135									0.517			
Pb-T	mg/L			<0.00020									<0.00020			
Mg-T	mg/L			22.2									7.05			
Mn-T	mg/L			0.0290									0.0662			
Hg-T	mg/L			<0.0000019									<0.0000019			
Mo-T	mg/L			<0.0010									<0.0010			
Ni-T	mg/L			<0.0010									<0.0010			
K-T	mg/L			1.98									0.552			
S-T	mg/L			155									43.9			
Se-T	mg/L			<0.00010									<0.00010			
Si-T	mg/L			4.82									3.83			
Ag-T	mg/L			<0.000020									<0.000020			
Na-T	mg/L			37.0									12.8			
Sr-T	mg/L			1.13									0.290			
Zn-T	mg/L			0.0110									<0.0050			
Al-D	mg/L	0.5	0	<0.0030				0.0421					0.0304			
As-D	mg/L			0.00095				0.00053					0.00094			
Ba-D	mg/L			0.0157				0.0098					0.0125			
B-D	mg/L			0.287				0.130					0.105			
Be-D	mg/L			<0.00010				<0.00010					<0.00010			
Cd-D	mg/L			<0.000010				<0.000010					<0.000010			
Ca-D	mg/L			147				81.7					62.1			
Cr-D	mg/L			<0.0010				<0.0010					<0.0010			
Co-D	mg/L			<0.00020				0.00030					0.00064			
Cu-D	mg/L	0.02	0	<0.00020				0.00054					0.00038			
Hard-D	mg/L			457				249					191			
Fe-D	mg/L	0.5	0	0.0879				0.172					0.343			
Pb-D	mg/L	0.05	0	<0.00020				<0.00020					<0.00020			
Mg-D	mg/L			21.7				10.9					8.77			
Mn-D	mg/L			0.0112				0.0709					0.0730			
Hg-D	mg/L			<0.0000019				<0.0000019					<0.0000019			
Mo-D	mg/L			<0.0010				<0.0010					<0.0010			
Ni-D	mg/L			<0.0010				<0.0010					<0.0010			
K-D	mg/L			1.85				1.05					0.641			
S-D	mg/L			148				74.6					57.9			
Se-D	mg/L			<0.00010				0.00012					<0.00010			
Si-D	mg/L			4.72				3.25					3.43			
Na-D	mg/L			35.7				17.9					15.8			
Sr-D	mg/L			1.03				0.462					0.354			
Zn-D	mg/L	0.2	0	0.0127				<0.0050					0.0633			
O&G	mg/L	10	0	<1.0									<1.0			

Table 10 Settling Pond #1 - Authorized Discharge Location for South Mine Water 4 Page(s)

EMS ID	E218582																		
Settling Pond #1 - Authorized Discharge Location for South Mine Water																			
Site Description	SPD	Std Val		SPD-4JAN22-P	SPD-11JAN22-P	SPD-17JAN22-P	SPD-24JAN22-P	SPD-24JAN22-R	SPD-1FEB22-P	SPD-7FEB22-P	SPD-14FEB22-R	SPD-14FEB22-P	SPD-22FEB22-P	SPD-1MAR22-P	SPD-7MAR22-P	SPD-14MAR22-P	SPD-22Mar22-P	SPD-28MAR22-P	
Site Name	SPD	Std Val		SPD-4JAN22-P	SPD-11JAN22-P	SPD-17JAN22-P	SPD-24JAN22-P	SPD-24JAN22-R	SPD-1FEB22-P	SPD-7FEB22-P	SPD-14FEB22-R	SPD-14FEB22-P	SPD-22FEB22-P	SPD-1MAR22-P	SPD-7MAR22-P	SPD-14MAR22-P	SPD-22Mar22-P	SPD-28MAR22-P	
Date		Max	Min	2022-01-04	2022-01-11	2022-01-17	2022-01-24	2022-01-24	2022-02-01	2022-02-07	2022-02-14	2022-02-14	2022-02-22	2022-03-01	2022-03-07	2022-03-14	2022-03-22	2022-03-28	
pH-F	pH Units	8.5	6	7.72	6.68	6.65	6.72		6.67	6.89		6.45	7.37	6.99	7.2	7.48	7.8	7.65	
Cond-F	uS/cm			637	216	93.8	86.7		240	114.9		286	401	124.8	226	632	818	752	
SO4-D	mg/L			250	51	26	58	100	290	77	83	180	130	58	81	240		260	
TSS	mg/L	25	0	3.6	<1.0	2.4	<1.0	<1.0	1.6	<1.0	<1.0	<1.0	<1.0	2.4	5.2	<1.0		<1.0	
Alk-T	mg/L			72					83					26					
Acidity83	mg/L			4.6					3.3					2.3					
Al-T	mg/L			0.0334		0.0389			0.0220										
As-T	mg/L			0.00136		0.00017			0.00108										
Ba-T	mg/L			0.0101		0.0019			0.0128										
B-T	mg/L			0.108		<0.050			0.115										
Cd-T	mg/L			0.000020		<0.000010			<0.000010										
Ca-T	mg/L			84.8		7.03			69.5										
Cr-T	mg/L			<0.0010		<0.0010			<0.0010										
Co-T	mg/L			0.00101		<0.00020			0.00053										
Cu-T	mg/L			0.00063		0.00082			0.00060										
Hard-T	mg/L			256		23.0			213										
Fe-T	mg/L			1.44		0.142			0.767										
Pb-T	mg/L			<0.00020		<0.00020			<0.00020										
Mg-T	mg/L			10.7		1.33			9.45										
Mn-T	mg/L			0.332		0.0258			0.0955										
Hg-T	mg/L			<0.0000019					<0.0000019										
Mo-T	mg/L			<0.0010		<0.0010			<0.0010										
Ni-T	mg/L			<0.0010		<0.0010			<0.0010										
K-T	mg/L			0.751		0.100			0.736										
S-T	mg/L			70.0		4.4			63.1										
Se-T	mg/L			<0.00010		<0.00010			<0.00010										
Si-T	mg/L			3.57		2.91			2.84										
Ag-T	mg/L			<0.000020		<0.000020			<0.000020										
Na-T	mg/L			12.7		1.90			16.6										
Sr-T	mg/L			0.460		0.0351			0.420										
Zn-T	mg/L			0.0084		<0.0050			<0.0050										
Al-D	mg/L	0.5	0	0.0179		0.0363			0.0088					0.0298					
As-D	mg/L			0.00098		0.00020			0.00090					0.00036					
Ba-D	mg/L			0.0119		0.0018			0.0144					0.0031					
B-D	mg/L			0.136		<0.050			0.157					<0.050					
Be-D	mg/L			<0.00010		<0.00010			<0.00010					<0.00010					
Cd-D	mg/L			0.000020		<0.000010			<0.000010					<0.000010					
Ca-D	mg/L			96.7		6.50			98.8					16.7					
Cr-D	mg/L			<0.0010		<0.0010			<0.0010					<0.0010					
Co-D	mg/L			0.00108		<0.00020			0.00039					0.00020					
Cu-D	mg/L	0.02	0	0.00036		0.00022			0.00021					0.00028					
Hard-D	mg/L			294		21.5			298					51.9					
Fe-D	mg/L	0.5	0	1.19		0.0944			0.398					0.205					
Pb-D	mg/L	0.05	0	<0.00020		<0.00020			<0.00020					<0.00020					
Mg-D	mg/L			12.9		1.29			12.4					2.47					
Mn-D	mg/L			0.386		0.0233			0.0914					0.0361					
Hg-D	mg/L			<0.0000019					<0.0000019					<0.0000019					
Mo-D	mg/L			<0.0010		<0.0010			<0.0010					<0.0010					
Ni-D	mg/L			<0.0010		<0.0010			<0.0010					<0.0010					
K-D	mg/L			0.872		0.095			0.991					0.206					
S-D	mg/L			84.9		4.1			90.3					13.4					
Se-D	mg/L			<0.00010		<0.00010			<0.00010					<0.00010					
Si-D	mg/L			3.49		2.67			2.86					3.10					
Na-D	mg/L			15.3		1.80			22.8					3.61					
Sr-D	mg/L			0.553		0.0324			0.615					0.0914					
Zn-D	mg/L	0.2	0	<0.0050		<0.0050			<0.0050					<0.0050					
O&G	mg/L	10	0						<1.0										

Table 11 Passive Treatment System (PTS) Influent from 2-S Mine Pool 4 Page(s)

EMS ID																	
Passive Treatment System (PTS) Influent from 2-S Mine Pool																	
Site Description		57															
Site Name	INF	INF-6APR21-M	INF-12APR21-M	INF-19APR21-M	INF-26APR21-M	INF-3MAY21-M	INF-10MAY21-M	INF-17MAY21-M	INF-17MAY21-R	INF-25MAY21-M	INF-1Jun21-R	INF-1Jun21-M	INF-8Jun21-M	INF-14Jun21-R	INF-14Jun21-M	INF-21Jun21-M	INF-29Jun21-M
Date		2021-04-06	2021-04-12	2021-04-19	2021-04-26	2021-05-03	2021-05-10	2021-05-17	2021-05-17	2021-05-25	2021-06-01	2021-06-01	2021-06-08	2021-06-14	2021-06-14	2021-06-21	2021-06-29
pH-F	pH Units	7.04	7.58	7.51	7.59	6.88	7.11	7.26	7.26	7.1	7.06	7.06	7.16	7.06	7.07	7.06	7.48
Cond-F	uS/cm	1637	1658	1739	1756	1833	2000	2050	2050	2160	1884	1884	2080	2210	2220	2210	1717
H2S	mg/L	0.0035					<0.0020				<0.0020	<0.0020	<0.0020	0.0032	0.0043	0.0064	
SO4-D	mg/L	640	580	680	700	690	670	700	680	760	740	740	630	670	660	670	540
TSS	mg/L	7.2					8.4										
Alk-T	mg/L	270					270				270	260					
Acidity83	mg/L	11.4					15.3				16.1	17.3					
Al-T	mg/L	<0.0030					<0.0030				0.0090	0.0127					
As-T	mg/L	0.00330					0.00398				0.00403	0.00403					
Ba-T	mg/L	0.0217					0.0217				0.0217	0.0214					
B-T	mg/L	0.640					0.668				0.77	0.76					
Cd-T	mg/L	<0.000010					<0.000010				0.000091	0.000164					
Ca-T	mg/L	225					246				250	247					
Cr-T	mg/L	<0.0010					0.0015				<0.0020	<0.0020					
Co-T	mg/L	0.00049					0.00053				0.00050	0.00057					
Cu-T	mg/L	<0.00050					<0.00050				0.0010	0.0016					
Hard-T	mg/L	624					680				694	687					
Fe-T	mg/L	3.28					3.66				3.73	3.71					
Pb-T	mg/L	<0.00020					<0.00020				<0.00040	<0.00040					
Mg-T	mg/L	14.8					16.0				17.1	17.0					
Mn-T	mg/L	0.373					0.395				0.407	0.415					
Hg-T	mg/L	<0.0000019					<0.0000019				<0.0000019	<0.0000019					
Mo-T	mg/L	<0.0010					0.0021				<0.0020	<0.0020					
Ni-T	mg/L	<0.0010					0.0070				<0.0020	<0.0020					
K-T	mg/L	1.86					1.86				1.93	1.95					
S-T	mg/L	210					225				232	233					
Se-T	mg/L	<0.00010					<0.00010				<0.00020	<0.00020					
Si-T	mg/L	3.08					3.20				3.07	3.10					
Ag-T	mg/L	<0.000020					<0.000020				<0.000040	<0.000040					
Na-T	mg/L	107					106				114	114					
Sr-T	mg/L	2.15					2.46				2.35	2.36					
Zn-T	mg/L	<0.0050					<0.0050				<0.010	<0.010					
Al-D	mg/L	<0.0030					<0.0060				<0.0060	<0.0060					
As-D	mg/L	0.00323					0.00368				0.00379	0.00370					
Ba-D	mg/L	0.0232					0.0215				0.0221	0.0211					
B-D	mg/L	0.654					0.68				0.70	0.70					
Be-D	mg/L	<0.00010					<0.00020				<0.00020	<0.00020					
Cd-D	mg/L	<0.000010					<0.000020				<0.000020	<0.000020					
Ca-D	mg/L	231					253				258	245					
Cr-D	mg/L	<0.0010					<0.0020				<0.0020	<0.0020					
Co-D	mg/L	0.00048					0.00051				0.00042	<0.00040					
Cu-D	mg/L	<0.00020					<0.00040				<0.00040	<0.00040					
Hard-D	mg/L	641					703				719	683					
Fe-D	mg/L	3.34					3.71				3.83	3.70					
Pb-D	mg/L	<0.00020					<0.00040				<0.00040	<0.00040					
Mg-D	mg/L	15.8					17.3				18.0	17.1					
Mn-D	mg/L	0.369					0.414				0.403	0.384					
Hg-D	mg/L	<0.0000019					<0.0000019				<0.0000019	<0.0000019					
Mo-D	mg/L	<0.0010					<0.0020				<0.0020	<0.0020					
Ni-D	mg/L	<0.0010					<0.0020				<0.0020	<0.0020					
K-D	mg/L	1.92					1.94				2.12	2.00					
S-D	mg/L	219					239				248	233					
Se-D	mg/L	0.00015					<0.00020				<0.00020	<0.00020					
Si-D	mg/L	3.10					3.34				3.35	3.18					
Na-D	mg/L	112					114				117	112					
Sr-D	mg/L	2.18					2.37				2.42	2.29					
Zn-D	mg/L	<0.0050					<0.010				<0.010	<0.010					

Table 11 Passive Treatment System (PTS) Influent from 2-S Mine Pool 4 Page(s)

EMS ID													
Passive Treatment System (PTS) Influent from 2-S Mine Pool													
Site Description	57												
Site Name	INF	INF-5JUL-M	INF-8JUL21-M	INF-12JUL21-M	INF-19JUL21-M	INF-22JUL21-M	INF-26JUL21-M	INF-26JUL21-R	INF-4AUG21-M	INF-9AUG21-M	INF-10Aug21-M	INF-28Sep21-M	INF-27SEP21-M
Date		2021-07-05	2021-07-08	2021-07-12	2021-07-19	2021-07-22	2021-07-26	2021-07-26	2021-08-04	2021-08-09	2021-08-10	2021-08-20	2021-09-27
pH-F	pH Units	7.7		7.14	7.39		7.2		7.16	7.17			7.17
Cond-F	uS/cm	1555		1475	1554		1544		1580	1469			1650
H2S	mg/L												
SO4-D	mg/L	470			650		620	650	690	600			670
TSS	mg/L									10			6.4
Alk-T	mg/L	240								280			280
Acidity83	mg/L	14.6								19.1			18.6
Al-T	mg/L	0.0070								<0.0030			<0.0030
As-T	mg/L	0.00615								0.00487			0.00481
Ba-T	mg/L	0.0195								0.0234			0.0225
B-T	mg/L	0.711								0.673			0.683
Cd-T	mg/L	<0.000010								<0.000010			<0.000010
Ca-T	mg/L	193								235			247
Cr-T	mg/L	<0.0010								<0.0010			<0.0010
Co-T	mg/L	<0.00020								0.00075			0.00065
Cu-T	mg/L	<0.00050								<0.00050			<0.00050
Hard-T	mg/L	545								652			679
Fe-T	mg/L	15.2								3.47			4.12
Pb-T	mg/L	<0.00020								<0.00020			<0.00020
Mg-T	mg/L	15.5								16.1			15.2
Mn-T	mg/L	0.355								0.413			0.426
Hg-T	mg/L	<0.0000019								<0.0000019			<0.0000019
Mo-T	mg/L	<0.0010								<0.0010			<0.0010
Ni-T	mg/L	<0.0010								0.0011			0.0011
K-T	mg/L	2.22								1.94			1.93
S-T	mg/L	194								217			224
Se-T	mg/L	<0.00010								<0.00010			<0.00010
Si-T	mg/L	3.00								3.12			3.49
Ag-T	mg/L	<0.000020								<0.000020			<0.000020
Na-T	mg/L	117								114			116
Sr-T	mg/L	2.03								2.17			2.29
Zn-T	mg/L	<0.0050								<0.0050			<0.0050
Al-D	mg/L	0.0038								<0.0030			<0.0030
As-D	mg/L	0.00426								0.00488			0.00471
Ba-D	mg/L	0.0187								0.0233			0.0221
B-D	mg/L	0.684								0.717			0.700
Be-D	mg/L	<0.00010								<0.00010			<0.00010
Cd-D	mg/L	<0.000010								<0.000010			<0.000010
Ca-D	mg/L	187								236			245
Cr-D	mg/L	<0.0010								<0.0010			<0.0010
Co-D	mg/L	<0.00020								0.00075			0.00067
Cu-D	mg/L	<0.00020								<0.00020			<0.00020
Hard-D	mg/L	532								653			675
Fe-D	mg/L	9.47								3.48			4.09
Pb-D	mg/L	<0.00020								<0.00020			<0.00020
Mg-D	mg/L	15.5								15.7			15.1
Mn-D	mg/L	0.367								0.398			0.428
Hg-D	mg/L	<0.0000019								<0.0000019			<0.0000019
Mo-D	mg/L	<0.0010								<0.0010			<0.0010
Ni-D	mg/L	<0.0010								0.0012			0.0010
K-D	mg/L	2.29								1.94			1.90
S-D	mg/L	198								219			223
Se-D	mg/L	0.00012								<0.00010			<0.00010
Si-D	mg/L	2.85								3.28			3.45
Na-D	mg/L	116								113			114
Sr-D	mg/L	2.17								2.15			2.18
Zn-D	mg/L	<0.0050								<0.0050			<0.0050

Table 11 Passive Treatment System (PTS) Influent from 2-S Mine Pool 4 Page(s)

EMS ID																
Passive Treatment System (PTS) Influent from 2-S Mine Pool																
57																
Site Name	INF	INF-40c21-M	INF-120c21-M	INF-180c21-M	INF-250c21-M	INF-1NOV21-M	INF-8NOV21-M	INF-16NOV21-M	INF-16NOV21-R	INF-23NOV21-M	INF-28NOV21-M	INF-7Dec21-M	INF-13DEC21-M	INF-20DEC21-M	INF-27DEC21-R	INF-27Dec21-M
Date		2021-10-04	2021-10-12	2021-10-18	2021-10-25	2021-11-01	2021-11-08	2021-11-16	2021-11-16	2021-11-23	2021-11-29	2021-12-07	2021-12-13	2021-12-20	2021-12-27	2021-12-27
pH-F	pH Units	6.99	7.13	6.71	6.85	6.87	6.26	7.63	7.50	7.32	7.04	7.32	7.42	7.31	7.26	7.26
Cond-F	uS/cm	1536.4	1462.1	1424.1	1411.4	1421.8	1419.7	1367	1367	1650	1536	1638	1656	1574	1646	1646
H2S	mg/L															
SO4-D	mg/L	670	620	630	480	540	670	590	590	630	667	580	580	530	550	560
TSS	mg/L	7.2				5.6						7.2				
Alk-T	mg/L	290				280						240				
Acidity83	mg/L	13.2				14.5						20.9				
Al-T	mg/L	<0.0030				0.0365						0.0097				
As-T	mg/L	0.00506				0.00468						0.00319				
Ba-T	mg/L	0.0238				0.0219						0.0200				
B-T	mg/L	0.689				0.759						0.598				
Cd-T	mg/L	<0.000010				<0.000010						<0.000010				
Ca-T	mg/L	261				236						207				
Cr-T	mg/L	<0.0010				<0.0010						<0.0010				
Co-T	mg/L	0.00068				0.00104						0.00098				
Cu-T	mg/L	<0.00050				0.00147						0.00060				
Hard-T	mg/L	714				655						571				
Fe-T	mg/L	4.23				4.03						2.69				
Pb-T	mg/L	<0.00020				<0.00020						<0.00020				
Mg-T	mg/L	15.4				15.9						13.0				
Mn-T	mg/L	0.440				0.437						0.328				
Hg-T	mg/L	<0.0000019				<0.0000019						<0.0000019				
Mo-T	mg/L	<0.0010				<0.0010						<0.0010				
Ni-T	mg/L	0.0011				0.0020						0.0018				
K-T	mg/L	2.04				1.96						1.71				
S-T	mg/L	231				227						185				
Se-T	mg/L	<0.00010				<0.00010						<0.00010				
Si-T	mg/L	3.63				3.86						3.57				
Ag-T	mg/L	<0.000020				<0.000020						<0.000020				
Na-T	mg/L	119				117						99.0				
Sr-T	mg/L	2.48				2.21						1.90				
Zn-T	mg/L	<0.0050				0.0071						<0.0050				
Al-D	mg/L	<0.0030				0.0116						<0.0030				
As-D	mg/L	0.00476				0.00434						0.00270				
Ba-D	mg/L	0.0218				0.0210						0.0194				
B-D	mg/L	0.705				0.670						0.585				
Be-D	mg/L	<0.00010				<0.00010						<0.00010				
Cd-D	mg/L	<0.000010				<0.000010						<0.000010				
Ca-D	mg/L	244				233						204				
Cr-D	mg/L	<0.0010				<0.0010						<0.0010				
Co-D	mg/L	0.00068				0.00106						0.00098				
Cu-D	mg/L	<0.00020				<0.00020						<0.00020				
Hard-D	mg/L	670				645						561				
Fe-D	mg/L	3.92				4.04						2.47				
Pb-D	mg/L	<0.00020				<0.00020						<0.00020				
Mg-D	mg/L	15.0				15.5						12.7				
Mn-D	mg/L	0.425				0.439						0.309				
Hg-D	mg/L	<0.0000019				<0.0000019						<0.0000019				
Mo-D	mg/L	<0.0010				<0.0010						<0.0010				
Ni-D	mg/L	0.0011				0.0019						0.0016				
K-D	mg/L	1.88				1.99						1.67				
S-D	mg/L	216				218						183				
Se-D	mg/L	<0.00010				<0.00010						0.00011				
Si-D	mg/L	3.54				3.39						3.40				
Na-D	mg/L	112				116						98.2				
Sr-D	mg/L	2.26				2.09						1.93				
Zn-D	mg/L	<0.0050				<0.0050						<0.0050				

Table 11 Passive Treatment System (PTS) Influent from 2-S Mine Pool 4 Page(s)

EMS ID															
Passive Treatment System (PTS) Influent from 2-S Mine Pool															
Site Description															
57															
Site Name	INF	INF-41JAN22-M	INF-11JAN22-M	INF-11JAN22-R	INF-17JAN22-M	INF-24JAN22-M	INF-1FEB22-M	INF-7FEB22-M	INF-14FEB22-M	INF-22FEB22-M	INF-1MAR22-M	INF-7MAR22-M	INF-14MAR22-M	INF-22Mar22-M	INF-28MAR22-M
Date		2022-01-04	2022-01-11	2022-01-11	2022-01-17	2022-01-24	2022-02-01	2022-02-07	2022-02-14	2022-02-22	2022-03-01	2022-03-07	2022-03-14	2022-03-22	2022-03-28
pH-F	pH Units	7.17	7.12		7.14	7.2	7.38	7.42	6.72	7.47	7.44	7.5	7.26	7.16	7.17
Cond-F	uS/cm	1719	1705		1565	1794	1609	1423	1514	1494	1522	1535	1509	1496	1535
H2S	mg/L														
SO4-D	mg/L	540	640	640	530	510	460	490	530	450	580	540	600		560
TSS	mg/L	3.6					7.2				1.2				
Alk-T	mg/L	250					210				220				
Acidity83	mg/L	9.6					<1.0				5.2				
Al-T	mg/L	<0.0030					0.0937				0.0041				
As-T	mg/L	0.00234					0.00900				0.00211				
Ba-T	mg/L	0.0193					0.0212				0.0186				
B-T	mg/L	0.545					0.530				0.565				
Cd-T	mg/L	<0.000010					<0.000010				<0.000010				
Ca-T	mg/L	228					160				197				
Cr-T	mg/L	<0.0010					<0.0010				<0.0010				
Co-T	mg/L	0.00070					0.00128				0.00070				
Cu-T	mg/L	<0.00050					0.00303				<0.00050				
Hard-T	mg/L	631					442				549				
Fe-T	mg/L	2.68					4.20				2.32				
Pb-T	mg/L	<0.00020					<0.00020				<0.00020				
Mg-T	mg/L	14.7					10.4				13.8				
Mn-T	mg/L	0.315					0.277				0.294				
Hg-T	mg/L	<0.0000019					<0.0000019				<0.0000019				
Mo-T	mg/L	<0.0010					<0.0010				<0.0010				
Ni-T	mg/L	0.0012					0.0025				0.0012				
K-T	mg/L	1.84					1.48				1.63				
S-T	mg/L	200					144				179				
Se-T	mg/L	<0.00010					<0.00010				<0.00010				
Si-T	mg/L	3.00					3.69				3.13				
Ag-T	mg/L	<0.000020					<0.000020				<0.000020				
Na-T	mg/L	104					89.3				91.7				
Sr-T	mg/L	1.98					1.54				1.70				
Zn-T	mg/L	<0.0050					<0.0050				<0.0050				
Al-D	mg/L	<0.0030					<0.0030				<0.0030				
As-D	mg/L	0.00237					0.00264				0.00195				
Ba-D	mg/L	0.0200					0.0189				0.0189				
B-D	mg/L	0.609					0.669				0.561				
Be-D	mg/L	<0.00010					<0.00010				<0.00010				
Cd-D	mg/L	<0.000010					<0.000010				<0.000010				
Ca-D	mg/L	233					201				200				
Cr-D	mg/L	<0.0010					<0.0010				<0.0010				
Co-D	mg/L	0.00072					0.00039				0.00071				
Cu-D	mg/L	<0.00020					<0.00020				<0.00020				
Hard-D	mg/L	645					551				558				
Fe-D	mg/L	2.56					2.14				2.23				
Pb-D	mg/L	<0.00020					<0.00020				<0.00020				
Mg-D	mg/L	15.1					12.2				14.0				
Mn-D	mg/L	0.315					0.284				0.298				
Hg-D	mg/L	<0.0000019					<0.0000019				<0.0000019				
Mo-D	mg/L	<0.0010					<0.0010				<0.0010				
Ni-D	mg/L	0.0013					<0.0010				0.0012				
K-D	mg/L	1.85					1.69				1.68				
S-D	mg/L	209					183				181				
Se-D	mg/L	0.00016					<0.00010				<0.00010				
Si-D	mg/L	3.35					3.57				3.16				
Na-D	mg/L	104					105				93.3				
Sr-D	mg/L	2.14					1.91				1.72				
Zn-D	mg/L	<0.0050					<0.0050				<0.0050				

Table 12 PTS Biochemical Reactor Cell 4 Page(s)

Passive Treatment System														
Site Description		Biochemical Reactor Cell												
Site Name	BCR	BCR-6APR21-M	BCREFF-12APR21-M	BCREFF-19APR21-M	BCREFF-26APR21-M	BCREFF-3MAY21-M	BCR-10MAY21-M	BCREFF-17MAY21-M	BCREFF-25MAY21-M	BCREFF-1Jun21-M	BCREFF-8Jun21-M	BCREFF-14Jun21-M	BCREFF-21Jun21-M	BCREFF-29Jun21-M
Date		2021-04-06	2021-04-12	2021-04-19	2021-04-26	2021-05-03	2021-05-10	2021-05-17	2021-05-25	2021-06-01	2021-06-08	2021-06-14	2021-06-21	2021-06-29
pH-F	pH Units	7.02	7.61	7.6	7.61	6.95	7.16	7.28	7.23	7.09	7.13	7.02	6.99	7.46
Cond-F	uS/cm	1484	1549	1682	1657	1770	1829	1502	2020	1747	1885	2140	2130	1659
pH-L	pH Units	7.78	8.00	8.33	7.83	7.82	7.88	7.91	8.14	8.00	7.90	7.76	7.68	7.91
Cond-L	uS/cm	1500	1500	1500	1500	1600	1600	1600	1600	1600	1700	1600	1600	1600
H2S	mg/L	15					32			54	42	47	43	34
SO4-D	mg/L	500	570	530	560	610	600	580	560	470	500	570	570	560
TSS	mg/L	<1.0					<1.0							
Alk-T	mg/L	280					340			400				
Acidity83	mg/L	13.2					18.6			20.2				
Al-T	mg/L	0.0054					0.0065			0.0131				
As-T	mg/L	0.00011					0.00019			0.00052				
Ba-T	mg/L	0.0277					0.0336			0.0335				
B-T	mg/L	0.627					0.751			0.87				
Cd-T	mg/L	<0.000010					<0.000010			0.000062				
Ca-T	mg/L	205					234			242				
Cr-T	mg/L	<0.0010					<0.0010			<0.0020				
Co-T	mg/L	<0.00020					<0.00020			<0.00040				
Cu-T	mg/L	<0.00050					<0.00050			<0.0010				
Hard-T	mg/L	565					642			669				
Fe-T	mg/L	<0.010					<0.010			<0.020				
Pb-T	mg/L	<0.00020					<0.00020			<0.00040				
Mg-T	mg/L	13.0					14.2			15.8				
Mn-T	mg/L	0.254					0.252			0.253				
Hg-T	mg/L	<0.0000019					<0.0000019			<0.000038				
Mo-T	mg/L	<0.0010					<0.0010			<0.0020				
Ni-T	mg/L	<0.0010					0.0030			<0.0020				
K-T	mg/L	1.81					1.95			2.11				
S-T	mg/L	176					186			172				
Se-T	mg/L	<0.00010					<0.00010			<0.00020				
Si-T	mg/L	3.20					3.93			4.55				
Ag-T	mg/L	<0.000020					<0.000020			<0.000040				
Na-T	mg/L	104					104			113				
Sr-T	mg/L	1.94					2.42			2.29				
Zn-T	mg/L	<0.0050					<0.0050			<0.010				
Al-D	mg/L	0.0051					0.0058			0.0068				
As-D	mg/L	0.00013					0.00013			0.00047				
Ba-D	mg/L	0.0285					0.0327			0.0320				
B-D	mg/L	0.624					0.698			0.76				
Be-D	mg/L	<0.00010					<0.00010			<0.00020				
Cd-D	mg/L	<0.000010					<0.000010			<0.000020				
Ca-D	mg/L	207					241			233				
Cr-D	mg/L	<0.0010					<0.0010			<0.0020				
Co-D	mg/L	<0.00020					<0.00020			<0.00040				
Cu-D	mg/L	<0.00020					<0.00020			<0.00040				
Hard-D	mg/L	574					666			645				
Fe-D	mg/L	<0.0050					0.0060			<0.010				
Pb-D	mg/L	<0.00020					<0.00020			<0.00040				
Mg-D	mg/L	13.6					15.6			15.4				
Mn-D	mg/L	0.246					0.271			0.245				
Hg-D	mg/L	<0.0000019					<0.0000019			<0.000038				
Mo-D	mg/L	<0.0010					<0.0010			<0.0020				
Ni-D	mg/L	<0.0010					<0.0010			<0.0020				
K-D	mg/L	1.85					2.14			2.17				
S-D	mg/L	227					333			242				
Se-D	mg/L	0.00508					0.00446			0.0216				
Si-D	mg/L	3.13					3.95			4.28				
Na-D	mg/L	108					111			108				
Sr-D	mg/L	1.98					2.41			2.27				
Zn-D	mg/L	<0.0050					<0.0050			<0.010				

Table 12 PTS Biochemical Reactor Cell 4 Page(s)

Passive Treatment System Biochemical Reactor Cell												
Site Name	BCR	BCREFF-5JUL-M	BCREFF-19JUL21-M	BCREFF-22Jul21-M	BCREFF-26JUL21-M	BCREFF-4AUG21-M	BCREFF-9AUG21-M	BCREFF-27SEP21-M	BCREFF-4Oct21-M	BCREFF-12Oct21-M	BCREFF-18Oct21-M	BCREFF-25Oct21-M
Date		2021-07-05	2021-07-19	2021-07-22	2021-07-26	2021-08-04	2021-08-09	2021-09-27	2021-10-04	2021-10-12	2021-10-18	2021-10-25
pH-F	pH Units	7.44	7.32		7.16	7.11	6.87	7.07	6.94	7.02	6.77	6.86
Cond-F	uS/cm	1741	1515		1515	1544	1544	1514	1422	1397.5	1415.1	1406.1
pH-L	pH Units	7.89	8.12		7.82	8.00		8.04	7.97	7.89	7.91	7.84
Cond-L	uS/cm	1600	1500		1500	1500		1500	1500	1500	1500	1500
H2S	mg/L											
SO4-D	mg/L	540	540		500	440	410	250	440	420	490	530
TSS	mg/L						8.4	6.4	<1.0			
Alk-T	mg/L	370					430	570	410			
Acidity83	mg/L	21.7					21.5	20.4	22.1			
Al-T	mg/L	0.0069					0.0059	0.0110	0.0070			
As-T	mg/L	0.00020					0.00048	0.00100	0.00050			
Ba-T	mg/L	0.0342					0.0313	0.0309	0.0302			
B-T	mg/L	0.826					0.667	0.738	0.645			
Cd-T	mg/L	<0.000010					<0.000010	<0.000010	<0.000010			
Ca-T	mg/L	240					224	227	235			
Cr-T	mg/L	<0.0010					<0.0010	<0.0010	<0.0010			
Co-T	mg/L	<0.00020					<0.00020	<0.00020	<0.00020			
Cu-T	mg/L	<0.00050					<0.00050	<0.00050	<0.00050			
Hard-T	mg/L	667					626	629	651			
Fe-T	mg/L	<0.010					<0.010	<0.010	<0.010			
Pb-T	mg/L	<0.00020					<0.00020	<0.00020	<0.00020			
Mg-T	mg/L	16.5					16.0	15.3	15.5			
Mn-T	mg/L	0.266					0.212	0.148	0.192			
Hg-T	mg/L	<0.00038					<0.00038	<0.00038	<0.000019			
Mo-T	mg/L	<0.0010					<0.0010	<0.0010	<0.0010			
Ni-T	mg/L	<0.0010					<0.0010	<0.0010	<0.0010			
K-T	mg/L	2.21					2.15	2.17	2.08			
S-T	mg/L	192					155	101	155			
Se-T	mg/L	<0.00010					<0.00010	<0.00010	<0.00010			
Si-T	mg/L	4.39					4.57	6.21	5.11			
Ag-T	mg/L	<0.000020					<0.000020	<0.000020	<0.000020			
Na-T	mg/L	121					117	116	117			
Sr-T	mg/L	2.41					2.13	2.15	2.31			
Zn-T	mg/L	<0.0050					<0.0050	<0.0050	<0.0050			
Al-D	mg/L	0.0073					<0.015	<0.015	0.0084			
As-D	mg/L	<0.00020					0.00058	0.00085	0.00045			
Ba-D	mg/L	0.0334					0.0312	0.0293	0.0277			
B-D	mg/L	0.82					0.89	0.84	0.70			
Be-D	mg/L	<0.00020					<0.00050	<0.00050	<0.00020			
Cd-D	mg/L	<0.000020					<0.000050	<0.000050	<0.000020			
Ca-D	mg/L	231					223	214	213			
Cr-D	mg/L	<0.0020					<0.0050	<0.0050	<0.0020			
Co-D	mg/L	<0.00040					<0.0010	<0.0010	<0.00040			
Cu-D	mg/L	0.00143					<0.0010	<0.0010	<0.00040			
Hard-D	mg/L	641					624	612	594			
Fe-D	mg/L	0.014					<0.025	<0.025	<0.010			
Pb-D	mg/L	<0.00040					<0.0010	<0.0010	<0.00040			
Mg-D	mg/L	15.7					16.0	16.0	15.4			
Mn-D	mg/L	0.275					0.214	0.153	0.173			
Hg-D	mg/L	<0.00038					<0.000019	<0.00038	<0.000019			
Mo-D	mg/L	<0.0020					<0.0050	<0.0050	<0.0020			
Ni-D	mg/L	<0.0020					<0.0050	0.0051	<0.0020			
K-D	mg/L	2.22					2.18	2.08	1.85			
S-D	mg/L	279					170	505	189			
Se-D	mg/L	0.0982					0.0807	0.0164	0.00965			
Si-D	mg/L	4.34					5.21	5.65	4.91			
Na-D	mg/L	116					119	121	112			
Sr-D	mg/L	2.43					2.11	2.01	2.07			
Zn-D	mg/L	<0.010					<0.025	<0.025	<0.010			

Table 12 PTS Biochemical Reactor Cell 4 Page(s)

Passive Treatment System Biochemical Reactor Cell										
Site Name	BCR	BCREFF-1NOV21-M	BCREFF-8NOV21-M	BCREFF-16NOV21-M	BCREFF-23NOV21-M	BCREFF-29NOV21-M	BCREFF-7Dec21-M	BCREFF-13DEC21-M	BCREFF-20DEC21-M	BCREFF-27Dec21-M
Date		2021-11-01	2021-11-08	2021-11-16	2021-11-23	2021-11-29	2021-12-07	2021-12-13	2021-12-20	2021-12-27
pH-F	pH Units	6.85	6.85	7.66	7.87	7	7.27	7.26	7.46	8.36
Cond-F	uS/cm	1299.2	1348.4	1303	1434	1532	1674	1547	1529	1567
pH-L	pH Units	7.97	7.80	7.66	7.77	7.79	7.56	8.16	8.30	8.18
Cond-L	uS/cm	1400	1500	1400	1400	1470	1400	1400	1400	1400
H2S	mg/L									
SO4-D	mg/L	550	560	490	530	692	530	540	500	550
TSS	mg/L	<1.0					<1.0			
Alk-T	mg/L	330					290			
Acidity83	mg/L	18.9					32.1			
Al-T	mg/L	0.0066					0.0070			
As-T	mg/L	0.00028					0.00021			
Ba-T	mg/L	0.0265					0.0250			
B-T	mg/L	0.674					0.585			
Cd-T	mg/L	<0.000010					<0.000010			
Ca-T	mg/L	212					204			
Cr-T	mg/L	<0.0010					<0.0010			
Co-T	mg/L	<0.00020					<0.00020			
Cu-T	mg/L	<0.00050					<0.00050			
Hard-T	mg/L	593					566			
Fe-T	mg/L	0.017					0.012			
Pb-T	mg/L	<0.00020					<0.00020			
Mg-T	mg/L	15.3					13.6			
Mn-T	mg/L	0.235					0.240			
Hg-T	mg/L	<0.000038					<0.000038			
Mo-T	mg/L	<0.0010					<0.0010			
Ni-T	mg/L	<0.0010					<0.0010			
K-T	mg/L	1.81					1.60			
S-T	mg/L	170					165			
Se-T	mg/L	<0.00010					<0.00010			
Si-T	mg/L	4.29					3.78			
Ag-T	mg/L	<0.000020					<0.000020			
Na-T	mg/L	108					94.5			
Sr-T	mg/L	2.00					1.95			
Zn-T	mg/L	<0.0050					<0.0050			
Al-D	mg/L	0.0046					<0.0060			
As-D	mg/L	0.00019					<0.00020			
Ba-D	mg/L	0.0255					0.0234			
B-D	mg/L	0.600					0.58			
Be-D	mg/L	<0.00010					<0.00020			
Cd-D	mg/L	<0.000010					<0.000020			
Ca-D	mg/L	208					196			
Cr-D	mg/L	<0.0010					<0.0020			
Co-D	mg/L	<0.00020					<0.00040			
Cu-D	mg/L	<0.00020					<0.00040			
Hard-D	mg/L	579					546			
Fe-D	mg/L	0.0095					<0.010			
Pb-D	mg/L	<0.00020					<0.00040			
Mg-D	mg/L	14.8					13.4			
Mn-D	mg/L	0.244					0.214			
Hg-D	mg/L	<0.000038					<0.000038			
Mo-D	mg/L	<0.0010					<0.0020			
Ni-D	mg/L	<0.0010					<0.0020			
K-D	mg/L	1.81					1.51			
S-D	mg/L	245					181			
Se-D	mg/L	0.00336					0.00685			
Si-D	mg/L	3.63					3.57			
Na-D	mg/L	108					93.7			
Sr-D	mg/L	1.93					1.82			
Zn-D	mg/L	<0.0050					<0.010			

Table 12 PTS Biochemical Reactor Cell 4 Page(s)

Passive Treatment System														
Site Description		Biochemical Reactor Cell												
Site Name	BCR	BCREFF-4JAN22-M	BCREFF-11JAN22-M	BCREFF-17JAN22-M	BCREFF-24JAN22-M	BCREFF-1FEB22-M	BCREFF-7FEB22-M	BCREFF-14FEB22-M	BCREFF-22FEB22-M	BCREFF-1MAR22-M	BCREFF-7MAR22-M	BCREFF-14MAR22-M	BCREFF-22Mar22-M	BCREFF-28MAR22-M
Date		2022-01-04	2022-01-11	2022-01-17	2022-01-24	2022-02-01	2022-02-07	2022-02-14	2022-02-22	2022-03-01	2022-03-07	2022-03-14	2022-03-22	2022-03-28
pH-F	pH Units	7.33	7.11	7.11	7.12	7.28	7.35	6.66	7.42	7.42	7.34	7.28	7.14	7.06
Cond-F	uS/cm	1656	1670	1656	1643	1648	1527	1520	1492	1410	1453	1355	1382	1388
pH-L	pH Units	7.94	8.07	7.98	7.75	7.84	7.98	7.69	7.84	7.76	7.92	7.80		8.05
Cond-L	uS/cm	1400	1400	1500	1500	1400	1400	1300	1300		1300	1200		1300
H2S	mg/L													
SO4-D	mg/L	460	560	490	520	540	510	490	410	460	460	430		500
TSS	mg/L	<1.0				1.6				1.6				
Alk-T	mg/L	270				270				260				
Acidity83	mg/L	15.6				10.7				9.7				
Al-T	mg/L	0.0078				0.0076				0.0054				
As-T	mg/L	<0.00010				<0.00010				<0.00010				
Ba-T	mg/L	0.0248				0.0265				0.0212				
B-T	mg/L	0.509				0.595				0.595				
Cd-T	mg/L	<0.000010				<0.000010				<0.000010				
Ca-T	mg/L	222				213				181				
Cr-T	mg/L	<0.0010				<0.0010				<0.0010				
Co-T	mg/L	<0.00020				<0.00020				<0.00020				
Cu-T	mg/L	<0.00050				<0.00050				<0.00050				
Hard-T	mg/L	615				592				502				
Fe-T	mg/L	0.021				<0.010				<0.010				
Pb-T	mg/L	<0.00020				<0.00020				<0.00020				
Mg-T	mg/L	14.4				14.3				11.9				
Mn-T	mg/L	0.243				0.246				0.278				
Hg-T	mg/L	<0.000038				<0.000019				<0.000019				
Mo-T	mg/L	<0.0010				<0.0010				<0.0010				
Ni-T	mg/L	<0.0010				<0.0010				<0.0010				
K-T	mg/L	1.67				1.73				1.57				
S-T	mg/L	182				173				143				
Se-T	mg/L	<0.00010				<0.00010				<0.00010				
Si-T	mg/L	3.43				3.93				3.47				
Ag-T	mg/L	<0.000020				<0.000020				<0.000020				
Na-T	mg/L	103				100				88.3				
Sr-T	mg/L	1.95				1.98				1.56				
Zn-T	mg/L	<0.0050				<0.0050				<0.0050				
Al-D	mg/L	0.0041				0.0039				0.0051				
As-D	mg/L	<0.00010				<0.00010				0.00010				
Ba-D	mg/L	0.0259				0.0259				0.0248				
B-D	mg/L	0.571				0.599				0.603				
Be-D	mg/L	<0.00010				<0.00010				<0.00010				
Cd-D	mg/L	<0.000010				<0.000010				<0.000010				
Ca-D	mg/L	223				218				225				
Cr-D	mg/L	<0.0010				<0.0010				<0.0010				
Co-D	mg/L	<0.00020				<0.00020				<0.00020				
Cu-D	mg/L	<0.00020				<0.00020				<0.00020				
Hard-D	mg/L	618				602				619				
Fe-D	mg/L	0.0326				<0.0050				0.0063				
Pb-D	mg/L	<0.00020				<0.00020				<0.00020				
Mg-D	mg/L	14.5				13.9				13.8				
Mn-D	mg/L	0.247				0.251				0.308				
Hg-D	mg/L	<0.000038				<0.000038				<0.000019				
Mo-D	mg/L	<0.0010				<0.0010				<0.0010				
Ni-D	mg/L	<0.0010				<0.0010				<0.0010				
K-D	mg/L	1.70				1.70				1.84				
S-D	mg/L	234				207				172				
Se-D	mg/L	0.00940				0.00375				0.00012				
Si-D	mg/L	3.64				4.03				3.86				
Na-D	mg/L	102				98.5				104				
Sr-D	mg/L	2.07				2.03				2.00				
Zn-D	mg/L	<0.0050				<0.0050				<0.0050				

Table 13 PTS Sulphide Polishing Cell 4 Page(s)

Passive Treatment System Sulphide Polishing Cell														
Site Name	SPCEFF	SPCEFF-6APR21-M	SPCEFF-12APR21-M	SPCEFF-19APR21-M	SPCEFF-26APR21-M	SPCEFF-3MAY21-M	SPCEFF-10MAY21-M	SPCEFF-17MAY21-M	SPCEFF-25MAY21-M	SPCEFF-1Jun21-M	SPCEFF-8Jun21-M	SPCEFF-14Jun21-M	SPCEFF-21Jun21-M	SPCEFF-29Jun21-M
Date		2021-04-06	2021-04-12	2021-04-19	2021-04-26	2021-05-03	2021-05-10	2021-05-17	2021-05-25	2021-06-01	2021-06-08	2021-06-14	2021-06-21	2021-06-29
pH-F	pH Units	7.11	8.25	8.16	8.15	7.73	7.88	7.92	7.7	7.57	7.72	7.84	7.48	7.75
Cond-F	uS/cm	1539	1330	1414	1416	1486	1512	1754	1691	1636	5200	2010	1905	1611
H2S	mg/L						<0.0020			0.16	14	<0.0020	0.012	8.0
SO4-D	mg/L	550	480	480	350	420	430	440	430	530	500	550	470	420
TSS	mg/L	1.2					2.0							
Alk-T	mg/L	280					330			370				
Acidity83	mg/L	13.4					4.7			13.9				
Al-T	mg/L	0.0056					0.0067			0.0113				
As-T	mg/L	0.00016					0.00168			0.00641				
Ba-T	mg/L	0.0280					0.0341			0.0457				
B-T	mg/L	0.630					0.650			0.756				
Cd-T	mg/L	<0.000010					<0.000010			<0.000010				
Ca-T	mg/L	204					180			222				
Cr-T	mg/L	<0.0010					<0.0010			<0.0010				
Co-T	mg/L	<0.00020					0.00030			0.00073				
Cu-T	mg/L	<0.00050					0.00944			0.00287				
Hard-T	mg/L	562					502			614				
Fe-T	mg/L	0.017					0.333			0.830				
Pb-T	mg/L	<0.00020					<0.00020			<0.00020				
Mg-T	mg/L	13.0					12.8			14.7				
Mn-T	mg/L	0.247					0.0223			0.395				
Hg-T	mg/L	<0.0000019					<0.0000019			<0.000038				
Mo-T	mg/L	<0.0010					<0.0010			<0.0010				
Ni-T	mg/L	<0.0010					0.0020			<0.0010				
K-T	mg/L	1.81					1.65			2.29				
S-T	mg/L	178					144			171				
Se-T	mg/L	<0.00010					<0.00010			<0.00010				
Si-T	mg/L	3.16					2.01			4.26				
Ag-T	mg/L	<0.000020					<0.000020			<0.000020				
Na-T	mg/L	103					104			110				
Sr-T	mg/L	1.95					2.03			2.26				
Zn-T	mg/L	<0.0050					<0.0050			<0.0050				
Al-D	mg/L	0.0072					0.0039			0.0080				
As-D	mg/L	0.00015					0.00117			0.00607				
Ba-D	mg/L	0.0284					0.0328			0.0446				
B-D	mg/L	0.628					0.623			0.704				
Be-D	mg/L	<0.00010					<0.00010			<0.00010				
Cd-D	mg/L	<0.000010					<0.000010			<0.000010				
Ca-D	mg/L	210					182			222				
Cr-D	mg/L	<0.0010					<0.0010			<0.0010				
Co-D	mg/L	<0.00020					0.00029			0.00037				
Cu-D	mg/L	<0.00020					0.00578			<0.00020				
Hard-D	mg/L	581					510			615				
Fe-D	mg/L	0.0128					0.0924			0.376				
Pb-D	mg/L	<0.00020					<0.00020			<0.00020				
Mg-D	mg/L	13.5					13.4			14.9				
Mn-D	mg/L	0.230					0.0215			0.380				
Hg-D	mg/L	0.0000021					<0.0000019			<0.000038				
Mo-D	mg/L	<0.0010					<0.0010			<0.0010				
Ni-D	mg/L	<0.0010					<0.0010			<0.0010				
K-D	mg/L	1.81					1.76			2.26				
S-D	mg/L	220					147			174				
Se-D	mg/L	0.00367					<0.00010			<0.00010				
Si-D	mg/L	3.19					2.06			4.17				
Na-D	mg/L	107					106			110				
Sr-D	mg/L	1.95					1.96			2.23				
Zn-D	mg/L	<0.0050					<0.0050			<0.0050				

Table 13 PTS Sulphide Polishing Cell 4 Page(s)

Passive Treatment System Sulphide Polishing Cell												
Site Description		SPCEFF										
Site Name		SPCEFF-5JUL-M	SPCEFF-19JUL21-M	SPCEFF-26JUL21-M	SPCEFF-4AUG21-R	SPCEFF-4AUG21-M	SPCEFF-9AUG21-M	SPCEFF-27SEP21-M	SPCEFF-4OCT21-M	SPCEFF-12OCT21-M	SPCEFF-18OCT21-M	SPCEFF-25OCT21-M
Date		2021-07-05	2021-07-19	2021-07-26	2021-08-04	2021-08-04	2021-08-09	2021-08-27	2021-10-04	2021-10-12	2021-10-18	2021-10-25
pH-F	pH Units	8.1	7.95	7.8		7.56	7.19	7.3	7.51	7.61	7.21	7.58
Cond-F	uS/cm	1639	1449	1471		1464	1512	1355	1381.1	1373.7	1364.4	1191.3
H2S	mg/L											
SO4-D	mg/L	480	330	450	500	530	420	250	280	420	460	380
TSS	mg/L						19	2.8	1.6			
Alk-T	mg/L	350					380	540	550			
Acidity83	mg/L	9.4					11.0	17.1	18.2			
Al-T	mg/L	0.0207					0.0075	0.0136	0.0157			
As-T	mg/L	0.00911					0.00411	0.00576	0.00459			
Ba-T	mg/L	0.0401					0.0394	0.0354	0.0404			
B-T	mg/L	0.871					0.791	0.743	0.695			
Cd-T	mg/L	<0.000010					<0.000010	<0.000010	<0.000010			
Ca-T	mg/L	233					217	193	229			
Cr-T	mg/L	<0.0010					<0.0010	<0.0010	<0.0010			
Co-T	mg/L	0.00043					0.00036	0.00039	<0.00020			
Cu-T	mg/L	<0.00050					0.00097	0.00121	<0.00050			
Hard-T	mg/L	652					605	542	634			
Fe-T	mg/L	1.33					0.867	0.598	0.543			
Pb-T	mg/L	<0.00020					<0.00020	<0.00020	<0.00020			
Mg-T	mg/L	17.1					15.6	14.2	15.3			
Mn-T	mg/L	0.0910					0.0625	0.0818	0.0865			
Hg-T	mg/L	<0.0000019					<0.0000019	<0.000038	<0.0000019			
Mo-T	mg/L	<0.0010					<0.0010	<0.0010	<0.0010			
Ni-T	mg/L	<0.0010					<0.0010	<0.0010	<0.0010			
K-T	mg/L	2.31					2.32	2.13	2.35			
S-T	mg/L	193					147	75.9	97.1			
Se-T	mg/L	<0.00010					<0.00010	<0.00010	<0.00010			
Si-T	mg/L	2.94					4.44	5.24	6.11			
Ag-T	mg/L	<0.000020					<0.000020	<0.000020	<0.000020			
Na-T	mg/L	129					118	115	123			
Sr-T	mg/L	2.47					2.11	1.97	2.30			
Zn-T	mg/L	<0.0050					<0.0050	<0.0050	0.0055			
Al-D	mg/L	0.0116					0.0057	0.0104	0.0111			
As-D	mg/L	0.00284					0.00259	0.00508	0.00400			
Ba-D	mg/L	0.0381					0.0393	0.0343	0.0358			
B-D	mg/L	0.776					0.803	0.729	0.702			
Be-D	mg/L	<0.00010					<0.00010	<0.00010	<0.00010			
Cd-D	mg/L	<0.000010					<0.000010	<0.000010	<0.000010			
Ca-D	mg/L	227					218	192	203			
Cr-D	mg/L	<0.0010					<0.0010	<0.0010	<0.0010			
Co-D	mg/L	0.00038					0.00031	<0.00020	<0.00020			
Cu-D	mg/L	<0.00020					0.00023	<0.00020	<0.00020			
Hard-D	mg/L	634					607	539	567			
Fe-D	mg/L	0.0392					0.0683	0.0105	0.0092			
Pb-D	mg/L	<0.00020					<0.00020	<0.00020	<0.00020			
Mg-D	mg/L	16.3					15.1	14.1	14.3			
Mn-D	mg/L	0.0833					0.0600	0.0820	0.0798			
Hg-D	mg/L	<0.0000019					<0.0000019	<0.000038	<0.0000019			
Mo-D	mg/L	<0.0010					<0.0010	<0.0010	<0.0010			
Ni-D	mg/L	<0.0010					<0.0010	<0.0010	<0.0010			
K-D	mg/L	2.28					2.29	2.09	2.09			
S-D	mg/L	191					151	150	132			
Se-D	mg/L	0.00011					<0.00010	0.0144	0.00454			
Si-D	mg/L	2.88					4.82	5.19	5.65			
Na-D	mg/L	123					117	113	112			
Sr-D	mg/L	2.55					2.14	1.91	2.04			
Zn-D	mg/L	<0.0050					<0.0050	<0.0050	<0.0050			

Table 13 PTS Sulphide Polishing Cell 4 Page(s)

Passive Treatment System Sulphide Polishing Cell									
Site Description	SPCEFF	SPCEFF-1NOV21-M	SPCEFF-8NOV21-M	SPCEFF-16NOV21-M	SPCEFF-23NOV21-M	SPCEFF-29NOV21-M	SPCEFF-7Dec21-M	SPCEFF-13DEC21-M	SPCEFF-20DEC21-M
Date		2021-11-01	2021-11-08	2021-11-16	2021-11-23	2021-11-29	2021-12-07	2021-12-13	2021-12-20
pH-F	pH Units	7.54	7.54	8.12	7.74	8.17	7.53	7.27	7.36
Cond-F	uS/cm	1118.4	1118.4	1098	1555	1047	1344	1560	1563
H2S	mg/L								
SO4-D	mg/L	450	410	340	470	345	520	440	440
TSS	mg/L	<1.0					<1.0		
Alk-T	mg/L	340					300		
Acidity83	mg/L	1.0					26.1		
Al-T	mg/L	0.0055					0.0062		
As-T	mg/L	0.00125					0.00067		
Ba-T	mg/L	0.0324					0.0294		
B-T	mg/L	0.575					0.574		
Cd-T	mg/L	<0.000010					<0.000010		
Ca-T	mg/L	189					213		
Cr-T	mg/L	<0.0010					<0.0010		
Co-T	mg/L	0.00023					<0.00020		
Cu-T	mg/L	<0.00050					<0.00050		
Hard-T	mg/L	530					591		
Fe-T	mg/L	0.487					0.163		
Pb-T	mg/L	<0.00020					<0.00020		
Mg-T	mg/L	13.9					14.2		
Mn-T	mg/L	0.0347					0.186		
Hg-T	mg/L	<0.0000019					<0.000038		
Mo-T	mg/L	<0.0010					<0.0010		
Ni-T	mg/L	<0.0010					<0.0010		
K-T	mg/L	1.79					1.63		
S-T	mg/L	144					164		
Se-T	mg/L	<0.00010					<0.00010		
Si-T	mg/L	4.17					4.08		
Ag-T	mg/L	<0.000020					<0.000020		
Na-T	mg/L	97.3					96.6		
Sr-T	mg/L	1.83					2.02		
Zn-T	mg/L	<0.0050					<0.0050		
Al-D	mg/L	<0.0030					0.0054		
As-D	mg/L	0.00057					0.00063		
Ba-D	mg/L	0.0310					0.0281		
B-D	mg/L	0.524					0.551		
Be-D	mg/L	<0.00010					<0.00010		
Cd-D	mg/L	<0.000010					<0.000010		
Ca-D	mg/L	190					211		
Cr-D	mg/L	<0.0010					<0.0010		
Co-D	mg/L	0.00022					0.00028		
Cu-D	mg/L	<0.00020					<0.00020		
Hard-D	mg/L	531					585		
Fe-D	mg/L	0.0279					0.0451		
Pb-D	mg/L	<0.00020					<0.00020		
Mg-D	mg/L	14.0					14.1		
Mn-D	mg/L	0.0345					0.181		
Hg-D	mg/L	<0.0000019					<0.000038		
Mo-D	mg/L	<0.0010					<0.0010		
Ni-D	mg/L	<0.0010					<0.0010		
K-D	mg/L	1.80					1.63		
S-D	mg/L	144					181		
Se-D	mg/L	<0.00010					0.00356		
Si-D	mg/L	3.70					3.91		
Na-D	mg/L	101					98.7		
Sr-D	mg/L	1.75					2.00		
Zn-D	mg/L	<0.0050					<0.0050		

Table 13 PTS Sulphide Polishing Cell 4 Page(s)

Passive Treatment System Sulphide Polishing Cell														
Site Name	SPCEFF	SPCEFF-17JAN22-M	SPCEFF-24JAN22-M	SPCEFF-1FEB22-M	SPCEFF-7FEB22-M	SPCEFF-14FEB22-M	SPCEFF-22FEB22-M	SPCEFF-1MAR22-M	SPCEFF-7MAR22-M	SPCEFF-14MAR22-M	SPCEFF-14MAR22-R	SPCEFF-22Mar22-M	SPCEFF-28MAR22-R	SPCEFF-28MAR22-M
Date		2022-01-17	2022-01-24	2022-02-01	2022-02-07	2022-02-14	2022-02-22	2022-03-01	2022-03-07	2022-03-14	2022-03-14	2022-03-22	2022-03-28	2022-03-28
pH-F	pH Units	7.2	7.25	7.4	7.46	7	7.58	7.89	7.74	7.87		7.93		7.89
Cond-F	uS/cm	1633	1631	1041	1120	1523	1483	1346	1444	1365		1331		1314
H2S	mg/L													
SO4-D	mg/L	510	380	270	380	480	420	370	340	440	390		380	380
TSS	mg/L	4.0		<1.0				2.4						
Alk-T	mg/L	270		250				290						
Acidity83	mg/L	8.2		<1.0				1.9						
Al-T	mg/L	0.0136		0.0074				0.0094						
As-T	mg/L	0.00010		0.00080				0.00089						
Ba-T	mg/L	0.0251		0.0216				0.0235						
B-T	mg/L	0.538		0.384				0.533						
Cd-T	mg/L	<0.000010		<0.000010				<0.000010						
Ca-T	mg/L	230		144				173						
Cr-T	mg/L	<0.0010		<0.0010				<0.0010						
Co-T	mg/L	<0.00020		<0.00020				0.00024						
Cu-T	mg/L	<0.00050		<0.00050				<0.00050						
Hard-T	mg/L	634		402				484						
Fe-T	mg/L	0.087		0.240				0.691						
Pb-T	mg/L	<0.00020		<0.00020				<0.00020						
Mg-T	mg/L	14.2		10.3				12.6						
Mn-T	mg/L	0.268		0.0905				0.118						
Hg-T	mg/L	<0.0000019		<0.0000019				<0.0000019						
Mo-T	mg/L	<0.0010		<0.0010				<0.0010						
Ni-T	mg/L	<0.0010		<0.0010				<0.0010						
K-T	mg/L	1.61		1.15				1.51						
S-T	mg/L	179		110				135						
Se-T	mg/L	<0.00010		<0.00010				<0.00010						
Si-T	mg/L	3.47		2.67				2.78						
Ag-T	mg/L	<0.000020		<0.000020				<0.000020						
Na-T	mg/L	99.4		68.7				88.8						
Sr-T	mg/L	1.98		1.35				1.56						
Zn-T	mg/L	<0.0050		<0.0050				<0.0050						
Al-D	mg/L	0.0036		0.0050				<0.0030						
As-D	mg/L	<0.00010		0.00085				0.00054						
Ba-D	mg/L	0.0260		0.0220				0.0233						
B-D	mg/L	0.557		0.423				0.548						
Be-D	mg/L	<0.00010		<0.00010				<0.00010						
Cd-D	mg/L	<0.000010		<0.000010				<0.000010						
Ca-D	mg/L	233		152				179						
Cr-D	mg/L	<0.0010		<0.0010				<0.0010						
Co-D	mg/L	<0.00020		<0.00020				0.00021						
Cu-D	mg/L	<0.00020		<0.00020				<0.00020						
Hard-D	mg/L	642		421				500						
Fe-D	mg/L	0.0110		0.123				0.0318						
Pb-D	mg/L	<0.00020		<0.00020				<0.00020						
Mg-D	mg/L	14.7		10.1				12.8						
Mn-D	mg/L	0.255		0.0873				0.116						
Hg-D	mg/L	<0.0000019		<0.000038				<0.0000019						
Mo-D	mg/L	<0.0010		<0.0010				<0.0010						
Ni-D	mg/L	<0.0010		<0.0010				<0.0010						
K-D	mg/L	1.72		1.07				1.49						
S-D	mg/L	231		114				136						
Se-D	mg/L	0.00372		0.00026				<0.00010						
Si-D	mg/L	3.45		2.93				2.85						
Na-D	mg/L	100		67.3				88.1						
Sr-D	mg/L	2.06		1.41				1.59						
Zn-D	mg/L	<0.0050		<0.0050				<0.0050						

Table 14 2 South Pit Inflow 4 Page(s)

Site Description 2 South Pit Inflow															
Site Name	2SI	2SI-6APR21-M	2SI-12APR21-M	2SI-19APR21-M	2SI-26APR21-M	2SI-3MAY21-M	2SI-10MAY21-M	2SI-17MAY21-M	2SI-25MAY21-M	2SI-25MAY21-R	2SI-1Jun21-M	2SI-8Jun21-M	2SI-14Jun21-M	2SI-21Jun21-M	2SI-29Jun21-M
Date		2021-04-06	2021-04-12	2021-04-19	2021-04-26	2021-05-03	2021-05-10	2021-05-17	2021-05-25	2021-05-25	2021-06-01	2021-06-08	2021-06-14	2021-06-21	2021-06-29
pH-F	pH Units	7.43	8.13	8.1	8.18	7.68	7.85	7.99	7.67	7.67	7.49	7.61	7.73	7.67	7.98
Cond-F	uS/cm	1026	1202	1373	1394	1537	1578	1745	1397	1397	839	741	1956	2000	1558
H2S	mg/L	0.035					0.029				<0.0020	0.0059	0.065	0.12	<0.0020
SO4-D	mg/L	440	440	480	510	480	490	540	390	400	270	130	540	570	630
TSS	mg/L	1.2					1.6								
Alk-T	mg/L	190					280				140				
Acidity83	mg/L	2.9					4.5				3.2				
Al-T	mg/L	0.0073					0.0041				0.0040				
As-T	mg/L	0.00021					0.00059				0.00025				
Ba-T	mg/L	0.0217					0.0343				0.0246				
B-T	mg/L	0.404					0.630				0.318				
Cd-T	mg/L	<0.000010					<0.000010				<0.000010				
Ca-T	mg/L	144					200				105				
Cr-T	mg/L	<0.0010					<0.0010				<0.0010				
Co-T	mg/L	<0.00020					0.00040				0.00055				
Cu-T	mg/L	<0.00050					<0.00050				<0.00050				
Hard-T	mg/L	402					554				302				
Fe-T	mg/L	0.144					0.332				0.248				
Pb-T	mg/L	<0.00020					<0.00020				<0.00020				
Mg-T	mg/L	10.3					13.6				9.49				
Mn-T	mg/L	0.146					0.316				0.721				
Hg-T	mg/L	<0.0000019					<0.0000019				<0.0000019				
Mo-T	mg/L	<0.0010					<0.0010				<0.0010				
Ni-T	mg/L	<0.0010					0.0010				<0.0010				
K-T	mg/L	1.19					1.64				0.826				
S-T	mg/L	125					172				79.9				
Se-T	mg/L	<0.00010					<0.00010				<0.00010				
Si-T	mg/L	2.99					3.84				4.64				
Ag-T	mg/L	<0.000020					<0.000020				<0.000020				
Na-T	mg/L	65.2					91.2				37.6				
Sr-T	mg/L	1.23					1.98				0.899				
Zn-T	mg/L	<0.0050					<0.0050				0.0128				
Al-D	mg/L	0.0047					<0.0030				<0.0030				
As-D	mg/L	0.00021					0.00045				0.00024				
Ba-D	mg/L	0.0234					0.0337				0.0227				
B-D	mg/L	0.415					0.588				0.282				
Be-D	mg/L	<0.00010					<0.00010				<0.00010				
Cd-D	mg/L	<0.000010					<0.000010				<0.000010				
Ca-D	mg/L	150					209				101				
Cr-D	mg/L	<0.0010					<0.0010				<0.0010				
Co-D	mg/L	<0.00020					0.00040				0.00052				
Cu-D	mg/L	0.00021					<0.00020				0.00027				
Hard-D	mg/L	422					583				290				
Fe-D	mg/L	0.0662					0.0417				0.0816				
Pb-D	mg/L	<0.00020					<0.00020				<0.00020				
Mg-D	mg/L	11.4					14.6				9.19				
Mn-D	mg/L	0.151					0.337				0.660				
Hg-D	mg/L	<0.0000019					<0.0000019				<0.0000019				
Mo-D	mg/L	<0.0010					<0.0010				<0.0010				
Ni-D	mg/L	<0.0010					<0.0010				<0.0010				
K-D	mg/L	1.28					1.82				0.852				
S-D	mg/L	131					181				76.6				
Se-D	mg/L	<0.00010					<0.00010				<0.00010				
Si-D	mg/L	2.89					3.83				4.51				
Na-D	mg/L	71.7					96.3				35.7				
Sr-D	mg/L	1.27					1.99				0.840				
Zn-D	mg/L	<0.0050					<0.0050				<0.0050				

Table 14 2 South Pit Inflow 4 Page(s)

Site Description		2 South Pit Inflow										
Site Name	2SI	2SI-5JUL-M	2SI-19JUL21-M	2SI-19JUL21-R	2SI-26JUL21-M	2SI-4AUG21-M	2SI-9AUG21-M	2SI-27SEP21-M	2SI-4OCT21-M	2SI-12OCT21-M	2SI-18OCT21-M	2SI-25OCT21-M
Date		2021-07-05	2021-07-19	2021-07-19	2021-07-26	2021-08-04	2021-08-09	2021-09-27	2021-10-04	2021-10-12	2021-10-18	2021-10-25
pH-F	pH Units	7.85	7.68		7.76	7.85	7.69	7.34	7.34	7.68	7.38	6.94
Cond-F	uS/cm	1561	1519		1497	1504	1439	1295	1347.6	1327.6	1272.9	533.4
H2S	mg/L	<0.0020										
SO4-D	mg/L	520	440	400	640	620	420	570		320	530	210
TSS	mg/L						4.0	9.2	<1.0			
Alk-T	mg/L	310					340	160	260			
Acidity83	mg/L	10.2					7.7	7.4	7.1			
Al-T	mg/L	0.0091					<0.0030	0.0359	0.0040			
As-T	mg/L	0.00043					0.00086	0.00059	0.00028			
Ba-T	mg/L	0.0337					0.0335	0.0447	0.0352			
B-T	mg/L	0.624					0.637	0.566	0.605			
Cd-T	mg/L	<0.000010					<0.000010	<0.000010	<0.000010			
Ca-T	mg/L	207					213	179	206			
Cr-T	mg/L	<0.0010					<0.0010	<0.0010	<0.0010			
Co-T	mg/L	0.00028					0.00032	0.00200	0.00029			
Cu-T	mg/L	<0.00050					<0.00050	0.00076	0.00078			
Hard-T	mg/L	586					597	505	577			
Fe-T	mg/L	0.382					0.476	2.00	0.201			
Pb-T	mg/L	<0.00020					<0.00020	<0.00020	<0.00020			
Mg-T	mg/L	16.9					15.5	14.1	15.2			
Mn-T	mg/L	0.475					0.128	1.62	0.136			
Hg-T	mg/L	<0.0000019					<0.0000019	<0.0000019	<0.0000019			
Mo-T	mg/L	<0.0010					<0.0010	<0.0010	<0.0010			
Ni-T	mg/L	<0.0010					<0.0010	0.0010	<0.0010			
K-T	mg/L	1.68					2.08	2.37	1.74			
S-T	mg/L	179					159	178	184			
Se-T	mg/L	<0.00010					<0.00010	<0.00010	<0.00010			
Si-T	mg/L	5.66					4.31	5.52	4.83			
Ag-T	mg/L	<0.000020					<0.000020	<0.000020	<0.000020			
Na-T	mg/L	106					116	80.8	106			
Sr-T	mg/L	1.91					1.98	1.48	1.84			
Zn-T	mg/L	<0.0050					<0.0050	<0.0050	<0.0050			
Al-D	mg/L	<0.0030					<0.0030	<0.0030	<0.0030			
As-D	mg/L	0.00036					0.00068	0.00045	0.00026			
Ba-D	mg/L	0.0339					0.0334	0.0458	0.0338			
B-D	mg/L	0.601					0.758	0.566	0.629			
Be-D	mg/L	<0.00010					<0.00010	<0.00010	<0.00010			
Cd-D	mg/L	<0.000010					<0.000010	<0.000010	<0.000010			
Ca-D	mg/L	203					214	180	196			
Cr-D	mg/L	<0.0010					<0.0010	<0.0010	<0.0010			
Co-D	mg/L	0.00032					0.00031	0.00215	0.00031			
Cu-D	mg/L	0.00020					<0.00020	0.00050	0.00073			
Hard-D	mg/L	574					599	507	554			
Fe-D	mg/L	0.0209					0.0295	0.645	0.149			
Pb-D	mg/L	<0.00020					<0.00020	<0.00020	<0.00020			
Mg-D	mg/L	16.1					15.6	13.9	15.4			
Mn-D	mg/L	0.600					0.124	1.80	0.134			
Hg-D	mg/L	<0.0000019					<0.0000019	<0.0000019	<0.0000019			
Mo-D	mg/L	<0.0010					<0.0010	<0.0010	<0.0010			
Ni-D	mg/L	<0.0010					<0.0010	<0.0010	<0.0010			
K-D	mg/L	1.68					2.09	2.35	1.68			
S-D	mg/L	182					164	176	186			
Se-D	mg/L	<0.00010					<0.00010	<0.00010	<0.00010			
Si-D	mg/L	5.74					4.58	5.20	4.84			
Na-D	mg/L	103					118	81.8	104			
Sr-D	mg/L	2.05					2.00	1.49	1.73			
Zn-D	mg/L	<0.0050					<0.0050	<0.0050	<0.0050			

Table 14 2 South Pit Inflow 4 Page(s)

Site Description		2 South Pit Inflow									
Site Name	2SI	2SI-1NOV21-M	2SI-8NOV21-M	2SI-16NOV21-M	2SI-23NOV21-M	2SI-29NOV21-R	2SI-29NOV21-M	2SI-7Dec21-M	2SI-13DEC21-M	2SI-20DEC21-M	2SI-27Dec21-M
Date		2021-11-01	2021-11-08	2021-11-16	2021-11-23	2021-11-29	2021-11-29	2021-12-07	2021-12-13	2021-12-20	2021-12-27
pH-F	pH Units	7.34	7.26	7.65	7.66	7.29	7.29	7.54	7.6	7.75	7.95
Cond-F	uS/cm	986.5	769	740	1170	788	788	995	1035	1098	1171
H2S	mg/L										
SO4-D	mg/L	350	320	270	270	306	308	330	350	330	310
TSS	mg/L	<1.0									
Alk-T	mg/L	220						130			
Acidity83	mg/L	3.3						8.3			
Al-T	mg/L	0.0108						0.0125			
As-T	mg/L	0.00041						0.00019			
Ba-T	mg/L	0.0235						0.0172			
B-T	mg/L	0.399						0.267			
Cd-T	mg/L	<0.000010						<0.000010			
Ca-T	mg/L	153						113			
Cr-T	mg/L	<0.0010						<0.0010			
Co-T	mg/L	0.00049						0.00029			
Cu-T	mg/L	<0.00050						0.00134			
Hard-T	mg/L	438						324			
Fe-T	mg/L	0.306						0.288			
Pb-T	mg/L	<0.00020						<0.00020			
Mg-T	mg/L	13.3						10.3			
Mn-T	mg/L	0.159						0.0823			
Hg-T	mg/L	<0.0000019						<0.0000019			
Mo-T	mg/L	<0.0010						<0.0010			
Ni-T	mg/L	<0.0010						<0.0010			
K-T	mg/L	1.24						0.796			
S-T	mg/L	131						96.5			
Se-T	mg/L	<0.00010						<0.00010			
Si-T	mg/L	4.86						4.14			
Ag-T	mg/L	<0.000020						<0.000020			
Na-T	mg/L	66.9						41.5			
Sr-T	mg/L	1.24						0.870			
Zn-T	mg/L	<0.0050						<0.0050			
Al-D	mg/L	0.0071						0.0074			
As-D	mg/L	0.00034						0.00018			
Ba-D	mg/L	0.0237						0.0166			
B-D	mg/L	0.365						0.254			
Be-D	mg/L	<0.00010						<0.00010			
Cd-D	mg/L	<0.000010						<0.000010			
Ca-D	mg/L	150						112			
Cr-D	mg/L	<0.0010						<0.0010			
Co-D	mg/L	0.00049						0.00036			
Cu-D	mg/L	0.00026						0.00030			
Hard-D	mg/L	428						323			
Fe-D	mg/L	0.229						0.220			
Pb-D	mg/L	<0.00020						<0.00020			
Mg-D	mg/L	13.2						10.3			
Mn-D	mg/L	0.157						0.0751			
Hg-D	mg/L	<0.0000019						<0.0000019			
Mo-D	mg/L	<0.0010						<0.0010			
Ni-D	mg/L	<0.0010						<0.0010			
K-D	mg/L	1.23						0.762			
S-D	mg/L	130						97.3			
Se-D	mg/L	<0.00010						<0.00010			
Si-D	mg/L	4.17						3.92			
Na-D	mg/L	67.6						42.8			
Sr-D	mg/L	1.20						0.873			
Zn-D	mg/L	<0.0050						<0.0050			

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 14 2 South Pit Inflow 4 Page(s)

Site Description 2 South Pit Inflow																
Site Name	2SI	2SI-4JAN22-M	2SI-11JAN22-M	2SI-17JAN22-R	2SI-17JAN22-M	2SI-24JAN22-M	2SI-1FEB22-M	2SI-7FEB22-R	2SI-7FEB22-M	2SI-14FEB22-M	2SI-22FEB22-M	2SI-1MAR22-M	2SI-7MAR22-M	2SI-14MAR22-M	2SI-22Mar22-M	2SI-28MAR22-M
Date		2022-01-04	2022-01-11	2022-01-17	2022-01-17	2022-01-24	2022-02-01	2022-02-07	2022-02-07	2022-02-14	2022-02-22	2022-03-01	2022-03-07	2022-03-14	2022-03-22	2022-03-28
pH-F	pH Units	7.73	7.54		7.37	7.54	7.73		7.79	7.06	7.7		7.73	7.6	7.57	7.43
Cond-F	uS/cm	1200	984		822	944	968		980	904	766	840	917	807	898	921
H2S	mg/L															
SO4-D	mg/L	390	330	290	280	300	290	280	260	300	220	310	290	280		240
TSS	mg/L	<1.0										<1.0				
Alk-T	mg/L	170					140					130				
Acidity83	mg/L	3.4					<1.0					2.2				
Al-T	mg/L	0.0087					0.0106					0.0134				
As-T	mg/L	0.00019					0.00016					0.00019				
Ba-T	mg/L	0.0197					0.0169					0.0149				
B-T	mg/L	0.324					0.262					0.302				
Cd-T	mg/L	<0.000010					<0.000010					<0.000010				
Ca-T	mg/L	146					118					109				
Cr-T	mg/L	<0.0010					<0.0010					<0.0010				
Co-T	mg/L	0.00025					<0.00020					<0.00020				
Cu-T	mg/L	<0.00050					<0.00050					<0.00050				
Hard-T	mg/L	414					336					310				
Fe-T	mg/L	0.185					0.145					0.134				
Pb-T	mg/L	<0.00020					<0.00020					<0.00020				
Mg-T	mg/L	11.9					10.3					9.38				
Mn-T	mg/L	0.0853					0.0576					0.0728				
Hg-T	mg/L	<0.0000019					<0.0000019					<0.0000019				
Mo-T	mg/L	<0.0010					<0.0010					<0.0010				
Ni-T	mg/L	<0.0010					<0.0010					<0.0010				
K-T	mg/L	1.02					0.856					0.864				
S-T	mg/L	130					101					90.5				
Se-T	mg/L	<0.00010					<0.00010					<0.00010				
Si-T	mg/L	3.65					3.89					3.78				
Ag-T	mg/L	<0.000020					<0.000020					<0.000020				
Na-T	mg/L	62.3					45.9					43.4				
Sr-T	mg/L	1.18					0.955					0.816				
Zn-T	mg/L	<0.0050					<0.0050					<0.0050				
Al-D	mg/L	0.0049					0.0074					0.0077				
As-D	mg/L	0.00018					0.00012					0.00017				
Ba-D	mg/L	0.0203					0.0159					0.0148				
B-D	mg/L	0.357					0.273					0.302				
Be-D	mg/L	<0.00010					<0.00010					<0.00010				
Cd-D	mg/L	<0.000010					<0.000010					<0.000010				
Ca-D	mg/L	151					117					106				
Cr-D	mg/L	<0.0010					<0.0010					<0.0010				
Co-D	mg/L	0.00025					<0.00020					<0.00020				
Cu-D	mg/L	0.00023					0.00029					0.00028				
Hard-D	mg/L	427					334					304				
Fe-D	mg/L	0.105					0.114					0.0808				
Pb-D	mg/L	<0.00020					<0.00020					<0.00020				
Mg-D	mg/L	12.1					10.2					9.37				
Mn-D	mg/L	0.0870					0.0574					0.0711				
Hg-D	mg/L	<0.0000019					<0.0000019					<0.0000019				
Mo-D	mg/L	<0.0010					<0.0010					<0.0010				
Ni-D	mg/L	<0.0010					<0.0010					<0.0010				
K-D	mg/L	1.04					0.787					0.866				
S-D	mg/L	134					102					91.8				
Se-D	mg/L	<0.00010					<0.00010					<0.00010				
Si-D	mg/L	3.86					4.14					3.69				
Na-D	mg/L	62.2					44.7					43.4				
Sr-D	mg/L	1.25					0.927					0.807				
Zn-D	mg/L	<0.0050					<0.0050					<0.0050				

Table 15 2-South Pit in Pit Water Cover Over PAG-CCR 1 Page(s)

EMS ID	E292127 2-South Pit in Pit Water Cover Over PAG-CCR													
Site Description	PAG-CCR													
Site Name	2S	2S-6APR21-M	2S-10MAY21-M	2S-11JUN21-M	2S-5JUL21-M	2S-9AUG21-M	2S-1SEP21-M	2S-4OCT21-M	2S-1NOV21-M	2S-7DEC21-M	2S-17JAN22-M	2S-1FEB22-M	2S-1MAR22-M	2S-1MAR22-R
Date		2021-04-06	2021-05-10	2021-06-01	2021-07-05	2021-08-09	2021-09-01	2021-10-04	2021-11-01	2021-12-07	2022-01-17	2022-02-01	2022-03-01	2022-03-01
pH-F	pH Units	7.94	8.19	8.12	8.12	7.73	7.83	7.88	7.72	8.01	7.73	7.74	8.23	
Cond-F	uS/cm	955	1217	1187	1213	1281	1386	1072.9	804.9	731	746	934	107.5	
SO4-D	mg/L	340	440	470	530	640	590	540	300	240	200	340	23	24
TSS	mg/L					<1.0		<1.0	<1.0		3.2			
Alk-T	mg/L	140	150	130	100	170	110	69	140	88	91	130	14	12
Acidity83	mg/L	<1.0	1.5	<1.0	2.0	2.7	1.6	1.6	4.2	2.6	1.4	<1.0	<1.0	<1.0
Al-T	mg/L	0.0147	0.0104	0.0035	0.0042	<0.0030	0.0031	0.0034	0.0494	0.0340	0.0115	0.0219	0.0158	0.0080
As-T	mg/L	0.00016	0.00031	0.00038	0.00129	0.00098	0.00116	0.00107	0.00039	0.00017	0.00020	0.00076	<0.00010	<0.00010
Ba-T	mg/L	0.0185	0.0231	0.0230	0.0243	0.0255	0.0229	0.0193	0.0197	0.0133	0.0147	0.0156	0.0015	0.0014
B-T	mg/L	0.345	0.470	0.518	0.609	0.645	0.676	0.601	0.371	0.180	0.220	0.246	<0.050	<0.050
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Ca-T	mg/L	119	142	132	138	165	146	124	119	81.7	111	128	9.48	10.0
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	0.00066	<0.00050	<0.00050	0.00057	0.00088	0.00064	<0.00050	<0.00050	<0.00050	<0.00050
Hard-T	mg/L	339	403	382	405	480	428	368	349	237	319	368	27.2	28.8
Fe-T	mg/L	0.056	0.038	<0.010	0.083	0.053	0.029	0.017	0.103	0.096	0.053	0.089	0.023	0.011
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mg-T	mg/L	10.1	11.9	12.5	14.9	16.7	15.5	14.3	12.3	8.11	10.3	12.0	0.868	0.911
Mn-T	mg/L	0.0153	0.0147	0.0071	0.0599	0.0067	0.0055	0.0028	0.0201	0.0338	0.0422	0.0438	0.0051	0.0053
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
K-T	mg/L	1.03	1.34	1.51	1.81	1.91	1.94	1.73	1.30	0.597	0.746	1.03	0.134	0.143
S-T	mg/L	114	144	151	171	202	191	184	122	66.3	92.4	110	7.4	7.7
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Si-T	mg/L	2.38	2.23	2.21	3.41	4.12	4.21	2.78	4.06	3.65	3.50	3.47	0.41	0.43
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Na-T	mg/L	56.7	72.4	78.2	99.1	115	112	109	58.5	26.0	34.7	41.3	4.13	4.36
Sr-T	mg/L	1.04	1.46	1.49	1.60	1.85	1.91	1.69	1.05	0.597	0.787	0.957	0.0607	0.0643
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Al-D	mg/L	<0.0030	<0.0030	0.0034	<0.0030	<0.0030	<0.0030	<0.0030	0.0178	0.0132	0.0056	0.0040	<0.0030	<0.0030
As-D	mg/L	0.00014	0.00025	0.00042	0.00118	0.00096	0.00115	0.00106	0.00032	0.00016	0.00018	0.00065	<0.00010	<0.00010
Ba-D	mg/L	0.0195	0.0228	0.0224	0.0231	0.0251	0.0236	0.0186	0.0188	0.0130	0.0127	0.0146	0.0013	0.0013
B-D	mg/L	0.348	0.463	0.499	0.578	0.730	0.745	0.635	0.332	0.176	0.189	0.265	<0.050	<0.050
Be-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.000014	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Ca-D	mg/L	122	143	138	126	164	158	121	117	81.8	92.2	123	9.27	9.40
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00031	<0.00020	<0.00020	<0.00020	<0.00020
Cu-D	mg/L	0.00036	0.00036	0.00044	0.00054	0.00038	0.00050	0.00047	0.00072	0.00047	0.00024	0.00028	<0.00020	<0.00020
Hard-D	mg/L	350	407	398	374	476	463	361	339	239	266	356	26.7	26.9
Fe-D	mg/L	0.0126	<0.0050	0.0158	0.0412	0.0242	0.0218	0.0113	0.0276	0.0309	0.0234	0.0121	<0.0050	<0.0050
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00043	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mg-D	mg/L	10.7	12.1	12.7	14.2	16.3	16.9	14.5	11.7	8.49	8.67	11.8	0.854	0.835
Mn-D	mg/L	0.0114	0.0028	0.0106	0.0014	0.0029	0.0053	0.0022	0.0124	0.0314	0.0338	0.0414	0.0048	0.0049
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
K-D	mg/L	1.06	1.41	1.53	1.76	1.88	2.04	1.70	1.29	0.611	0.626	0.946	0.132	0.136
S-D	mg/L	115	146	157	173	206	211	188	116	71.6	79.2	109	7.0	6.8
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Si-D	mg/L	2.29	2.33	2.28	3.36	4.36	4.29	2.89	3.49	3.48	2.86	3.34	0.38	0.39
Na-D	mg/L	59.9	75.1	78.5	92.0	115	124	106	58.4	26.8	29.0	40.7	4.18	4.07
Sr-D	mg/L	1.07	1.44	1.47	1.70	1.81	1.95	1.65	0.986	0.609	0.640	0.910	0.0617	0.0613
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 16 2-South Outflow Culvert into 3-South Pit 1 Page(s)

EMS ID																
2-South Outflow Culvert into 3-South Pit																
Site Name	2SC	2SC-6APR21-M	2SC-10MAY21-M	2SC-11Jun21-M	2SC-5JUL21-M	2SC-5JUL21-R	2SC-1SEP21-M	2SC-4Oct21-M	2SC-4Oct21-R	2SC-1NOV21-M	2SC-7DEC21-R	2SC-7Dec21-M	2SC-4JAN22-M	2SC-1FEB22-M	2SC-1MAR22-M	
Date	2021-04-06	2021-05-10	2021-06-01	2021-07-05	2021-07-05	2021-09-01	2021-10-04	2021-10-04	2021-11-01	2021-12-07	2021-12-07	2021-12-07	2022-01-04	2022-02-01	2022-03-01	
pH-F	pH Units	7.78	8.03	8.12	8.1	8.1	7.9	7.64	7.64	7.4	7.95	7.95	8.09	7.91	8.02	
Cond-F	uS/cm	1473	1581	1187	1491	1491	1493	1297.2	1297.2	1402.6	1776	1776	1588	1647	1502	
SO4-D	mg/L	640	610	560	540	550	610	560	590	730	730	740	660	590	660	
Alk-T	mg/L	210	210	200	220	220	200	220	200	200	200	200	200	170	170	
Acidity83	mg/L	2.4	4.2	3.0	3.6	3.5	<1.0	<1.0	1.8	4.1	4.7	7.4	2.5	<1.0	1.1	
Al-T	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	0.0079	0.0061	<0.0060	<0.0030	0.0030	<0.0060	
As-T	mg/L	0.00036	0.00046	0.00035	0.00040	0.00040	0.00034	0.00042	0.00041	0.00050	0.00026	0.00026	0.00032	0.00024	0.00021	
Ba-T	mg/L	0.0126	0.0145	0.0143	0.0150	0.0152	0.0141	0.0158	0.0154	0.0173	0.0140	0.0135	0.0123	0.0127	0.0112	
B-T	mg/L	0.281	0.334	0.356	0.367	0.363	0.354	0.357	0.361	0.37	0.28	0.27	0.265	0.247	0.27	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000020	<0.000020	<0.000020	<0.000010	<0.000010	<0.000020	
Ca-T	mg/L	236	241	218	232	238	223	248	244	283	291	280	266	260	241	
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	0.0035	<0.0010	<0.0010	<0.0020	
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00040	<0.00020	<0.00040	<0.00020	<0.00020	<0.00040	
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010	<0.0010	<0.0010	<0.00050	<0.00050	<0.0010	
Hard-T	mg/L	706	715	649	697	712	661	728	719	842	870	838	791	772	725	
Fe-T	mg/L	0.023	0.018	0.011	0.014	0.023	<0.010	<0.010	<0.010	0.026	<0.020	0.047	0.036	0.012	<0.020	
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00040	<0.00040	<0.00040	<0.00020	<0.00020	<0.00040	
Mg-T	mg/L	28.7	27.9	28.5	28.5	28.5	25.2	26.3	24.4	34.8	33.7	30.9	30.1	29.9		
Mn-T	mg/L	0.0078	0.0057	0.0038	0.0025	0.0047	0.0081	0.0139	0.0140	0.0332	0.0065	0.0066	0.0116	0.0069	0.0043	
Hg-T	mg/L	<0.0000019					<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0020	
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0020	
K-T	mg/L	2.03	2.29	2.30	2.41	2.39	2.40	2.63	2.67	2.40	1.98	1.91	2.13	1.93	1.85	
S-T	mg/L	199	204	193	199	199	182	205	206	256	244	230	217	226	203	
Se-T	mg/L	0.00018	0.00015	0.00013	0.00012	0.00013	<0.00010	0.00014	0.00012	0.00035	0.00040	0.00040	0.00020	0.00029	0.00023	
Si-T	mg/L	2.20	2.44	2.53	2.63	2.70	2.76	2.94	2.95	2.94	2.69	2.59	2.48	2.39	2.52	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000040	<0.000040	<0.000040	<0.000020	<0.000020	<0.000040	
Na-T	mg/L	31.5	40.5	43.0	48.9	49.6	48.8	56.2	58.0	43.8	27.8	26.8	35.1	28.7	27.4	
Sr-T	mg/L	1.40	1.53	1.39	1.40	1.41	1.39	1.54	1.52	1.61	1.59	1.52	1.45	1.50	1.26	
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.010	
Al-D	mg/L	<0.0030	<0.0030	<0.0060	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	0.0032	<0.0060	<0.0060	<0.0030	<0.0030	<0.0060	
As-D	mg/L	0.00035	0.00034	0.00042	0.00032	0.00034	0.00034	0.00040	0.00042	0.00035	<0.00020	<0.00020	0.00029	0.00020	0.00020	
Ba-D	mg/L	0.0134	0.0142	0.0144	0.0147	0.0150	0.0144	0.0146	0.0149	0.0166	0.0129	0.0127	0.0127	0.0128	0.0117	
B-D	mg/L	0.284	0.316	0.34	0.344	0.346	0.368	0.370	0.371	0.305	0.25	0.289	0.269	0.27		
Be-D	mg/L	<0.00010	<0.00010	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00020	<0.00010	<0.00010	<0.00020	
Cd-D	mg/L	<0.000010	<0.000010	<0.000020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000020	<0.000020	<0.000010	<0.000010	<0.000020	
Ca-D	mg/L	249	242	225	221	225	241	228	229	280	280	280	264	271	248	
Cr-D	mg/L	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0020	
Co-D	mg/L	<0.00020	<0.00020	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00040	<0.00040	<0.00020	<0.00020	<0.00040	
Cu-D	mg/L	<0.00020	<0.00020	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00026	<0.00040	<0.00040	<0.00020	<0.00020	<0.00040	
Hard-D	mg/L	747	722	671	662	671	717	674	681	833	830	834	787	805	743	
Fe-D	mg/L	0.0059	0.0058	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0080	<0.010	<0.010	<0.0050	<0.0050	<0.010	
Pb-D	mg/L	<0.00020	<0.00020	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00040	<0.00040	<0.00020	<0.00020	<0.00040	
Mg-D	mg/L	30.3	28.9	26.8	26.7	26.6	27.7	25.6	26.5	32.2	31.9	32.7	30.9	31.2	29.8	
Mn-D	mg/L	0.0059	0.0053	0.0036	0.0023	0.0023	0.0086	0.0127	0.0135	0.0326	0.0051	0.0051	0.0036	0.0059	0.0039	
Hg-D	mg/L	<0.0000019					<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	
Mo-D	mg/L	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0020	
Ni-D	mg/L	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	<0.0020	<0.0020	<0.0010	<0.0010	<0.0020	
K-D	mg/L	2.11	2.34	2.38	2.34	2.38	2.53	2.43	2.57	2.34	1.89	1.90	2.15	1.97	1.86	
S-D	mg/L	209	213	193	197	199	201	193	204	258	228	229	225	236	205	
Se-D	mg/L	0.00023	0.00018	<0.00020	0.00014	0.00017	<0.00010	0.00013	0.00013	0.00045	0.00043	0.00045	0.00025	0.00031	0.00023	
Si-D	mg/L	2.29	2.55	2.58	2.64	2.65	2.83	2.95	2.96	2.46	2.49	2.48	2.61	2.55	2.56	
Na-D	mg/L	33.9	41.8	44.9	46.3	46.5	54.0	52.0	55.0	44.8	26.5	27.0	34.2	29.4	28.4	
Sr-D	mg/L	1.44	1.51	1.37	1.50	1.48	1.40	1.41	1.43	1.60	1.50	1.50	1.55	1.55	1.25	
Zn-D	mg/L	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.010	

Table 17 3-South Pit Water Cover Over PAG-CCR 1 Page(s)

EMS ID	E217015														
Site Description	3-South Pit Water Cover Over PAG-CCR														
Site Name	3S	3S-6APR21-M	3S-10MAY21-M	3S-1Jun21-M	3S-5JUL21-M	3S-9AUG21-M	3S-1SEP21-R	3S-1SEP21-M	3S-4Oct21-M	3S-1NOV21-M	3S-7Dec21-M	3S-41AN22-M	3S-1FEB22-M	3S-1FEB22-R	3S-1MAR22-M
Date		2021-04-06	2021-05-10	2021-06-01	2021-07-05	2021-08-09	2021-09-01	2021-09-01	2021-10-04	2021-11-01	2021-12-07	2022-01-04	2022-02-01	2022-02-01	2022-03-01
pH-F	pH Units	7.74	8	7.97	7.99	7.47		7.81	7.61	7.27	7.87	8.09	7.76		7.74
Cond-F	uS/cm	1398	1502	1426	1342	1229		1366	1139.5	1271	1138	1588	1149		1276
SO4-D	mg/L	590	590	620	620	520	650	640	550	680	500	650	490	510	580
Alk-T	mg/L	170	150	130	130	120	120	120	160	180	160	180	120	140	160
Acidity83	mg/L	2.7	3.0	1.5	2.6	3.6	1.1	1.4	2.5	3.8	4.6	2.5	1.6	1.7	<1.0
Al-T	mg/L	0.0236		0.0063		0.0045			0.0083	0.0118	0.0061	0.0044			0.0262
As-T	mg/L	0.00037		0.00052		0.00066			0.00040	0.00050	0.00022	0.00029			0.00027
Ba-T	mg/L	0.0121		0.0134		0.0154			0.0147	0.0177	0.0137	0.0135			0.0120
B-T	mg/L	0.275		0.347		0.348			0.333	0.354	0.230	0.262			0.27
Cd-T	mg/L	<0.000010		<0.000010		<0.000010			<0.000010	<0.000010	<0.000010	0.000070			<0.000020
Ca-T	mg/L	226		207		205			203	260	244	266			242
Cr-T	mg/L	<0.0010		<0.0010		<0.0010			<0.0010	<0.0010	<0.0010	<0.0010			<0.0020
Co-T	mg/L	<0.00020		<0.00020		<0.00020			<0.00020	<0.00020	<0.00020	<0.00020			<0.00040
Cu-T	mg/L	<0.00050		<0.00050		<0.00050			<0.00050	<0.00050	<0.00050	<0.00050			<0.0010
Hard-T	mg/L	681		630		636			609	778	728	793			728
Fe-T	mg/L	0.052		0.025		0.025			0.026	0.043	0.024	0.032			0.049
Pb-T	mg/L	<0.00020		<0.00020		<0.00020			<0.00020	<0.00020	<0.00020	<0.00020			<0.00040
Mg-T	mg/L	28.2		27.6		30.4			24.8	31.4	28.8	31.4			30.1
Mn-T	mg/L	0.0040		0.0098		0.0107			0.0061	0.0131	0.0149	0.0085			0.0089
Hg-T	mg/L	<0.0000019		<0.0000019		<0.0000019			<0.0000019	<0.0000019	<0.0000019	<0.0000019			<0.0000019
Mo-T	mg/L	<0.0010		<0.0010		<0.0010			<0.0010	<0.0010	<0.0010	<0.0010			<0.0020
Ni-T	mg/L	<0.0010		<0.0010		<0.0010			<0.0010	<0.0010	<0.0010	<0.0010			<0.0020
K-T	mg/L	2.02		2.25		2.66			2.47	2.38	1.78	2.19			1.90
S-T	mg/L	197		202		209			190	243	198	221			206
Se-T	mg/L	0.00015		<0.00010		<0.00010			<0.00010	0.00033	0.00028	0.00021			0.00022
Si-T	mg/L	2.16		0.93		2.45			2.47	2.93	2.41	2.40			2.10
Ag-T	mg/L	<0.000020		<0.000020		<0.000020			<0.000020	<0.000020	<0.000020	<0.000020			<0.000040
Na-T	mg/L	31.0		39.4		51.5			49.6	45.7	25.1	34.3			28.5
Sr-T	mg/L	1.36		1.43		1.38			1.39	1.58	1.39	1.45			1.31
Zn-T	mg/L	<0.0050		<0.0050		<0.0050			<0.0050	<0.0050	<0.0050	0.0062			<0.010
Al-D	mg/L	<0.0030		<0.0030		<0.0030			<0.0030	0.0033	<0.0060	<0.0030			<0.0060
As-D	mg/L	0.00036		0.00055		0.00067			0.00038	0.00036	<0.00020	0.00026			0.00023
Ba-D	mg/L	0.0127		0.0132		0.0155			0.0138	0.0163	0.0129	0.0128			0.0119
B-D	mg/L	0.276		0.315		0.392			0.354	0.288	0.23	0.280			0.27
Be-D	mg/L	<0.00010		<0.00010		<0.00010			<0.00010	<0.00010	<0.00020	<0.00010			<0.00020
Cd-D	mg/L	<0.000010		<0.000010		<0.000010			<0.000010	<0.000010	<0.000020	0.000054			<0.000020
Ca-D	mg/L	231		210		200			195	243	252	266			247
Cr-D	mg/L	<0.0010		<0.0010		<0.0010			<0.0010	<0.0010	<0.0020	<0.0010			<0.0020
Co-D	mg/L	<0.00020		<0.00020		<0.00020			<0.00020	<0.00020	<0.00040	<0.00020			<0.00040
Cu-D	mg/L	<0.00020		0.00028		0.00020			<0.00020	0.00027	<0.00040	0.00021			<0.00040
Hard-D	mg/L	698		643		617			592	725	751	789			743
Fe-D	mg/L	0.0057		0.0130		0.0121			0.0092	0.0086	<0.010	<0.0050			<0.010
Pb-D	mg/L	<0.00020		<0.00020		<0.00020			<0.00020	<0.00020	<0.00040	<0.00020			<0.00040
Mg-D	mg/L	29.7		28.9		28.7			25.1	28.6	29.8	30.4			30.6
Mn-D	mg/L	0.0025		0.0062		0.0140			0.0033	0.0117	0.0077	0.0043			0.0109
Hg-D	mg/L	<0.0000019		<0.0000019		<0.0000019			<0.0000019	<0.0000019	<0.0000019	<0.0000019			<0.0000019
Mo-D	mg/L	<0.0010		0.0012		<0.0010			<0.0010	<0.0010	<0.0020	<0.0010			<0.0020
Ni-D	mg/L	<0.0010		<0.0010		<0.0010			<0.0010	<0.0010	<0.0020	<0.0010			<0.0020
K-D	mg/L	2.08		2.30		2.60			2.42	2.25	1.81	2.13			1.93
S-D	mg/L	203		210		208			189	226	210	223			206
Se-D	mg/L	0.00019		<0.00010		<0.00010			<0.00010	0.00034	0.00034	0.00024			0.00022
Si-D	mg/L	2.08		0.98		2.52			2.41	2.38	2.30	2.64			2.03
Na-D	mg/L	33.0		41.2		50.7			48.5	43.0	26.1	33.2			29.0
Sr-D	mg/L	1.40		1.41		1.41			1.32	1.46	1.40	1.53			1.29
Zn-D	mg/L	<0.0050		<0.0050		<0.0050			<0.0050	<0.0050	<0.010	0.0060			<0.010

Table 18 Culvert Downstream End at Access Road 1 Page(s)

EMS ID		E217014								
Site Description		Culvert Downstream End at Access Road								
Site Name	SPC	SPC-6APR21-M	SPC-10MAY21-M	SPC-1Jun21-M	SPC-18Oct21-MSPC-1NOV21-M	SPC-7DEC21-M	SPC-4JAN22-M	SPC-1FEB22-M	SPC-1MAR22-M	
Date		06-Apr-21	10-May-21	01-Jun-21	2021-10-18	2021-11-01	2021-12-07	2022-01-04	2022-02-01	2022-03-01
pH-F	pH Units	7.57	7.48	7.67	7.17	7.13	7.89	7.68	8.02	8
Cond-F	uS/cm	348	415	399	568.5	345.9	37.6	221	514	237
pH-L	pH Units	7.42	7.56	7.80	6.80	6.93	7.46	7.03	7.20	6.89
Cond-L	uS/cm	290	350	350	610	370	270	150	410	
SO4-D	mg/L	110	130	130	330	170	110	53	170	78
TSS	mg/L	4.4	2.0	2.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.2
Alk-T	mg/L	39	46	56	49	48	34	22	46	25
Acidity83	mg/L	<1.0	1.2	<1.0	3.1	1.8	2.2	1.5	2.0	2.1
Al-T	mg/L	0.0655		0.103	0.0363	0.0742	0.0562		0.0344	0.0596
As-T	mg/L	0.00036		0.00076	0.00042	0.00032	0.00024		0.00023	0.00020
Ba-T	mg/L	0.0077		0.0127	0.0228	0.0108	0.0069		0.0099	0.0052
B-T	mg/L	0.067		0.095	0.160	0.096	0.061		0.075	<0.050
Cd-T	mg/L	<0.000010		<0.000010	<0.000010	<0.000010	<0.000010		<0.000010	<0.000010
Ca-T	mg/L	37.0		48.2	89.7	52.9	35.2		56.0	27.3
Cr-T	mg/L	<0.0010		<0.0010	<0.0010	<0.0010	<0.0010		<0.0010	<0.0010
Co-T	mg/L	<0.00020		<0.00020	<0.00020	<0.00020	<0.00020		<0.00020	<0.00020
Cu-T	mg/L	<0.00050		0.00063	0.00051	0.00066	<0.00050		<0.00050	<0.00050
Hard-T	mg/L	113		147	271	163	107		169	83.1
Fe-T	mg/L	0.103		0.283	0.048	0.084	0.071		0.038	0.054
Pb-T	mg/L	<0.00020		<0.00020	<0.00020	<0.00020	<0.00020		<0.00020	<0.00020
Mg-T	mg/L	5.09		6.54	11.3	7.44	4.63		7.07	3.63
Mn-T	mg/L	0.0040		0.0185	<0.0010	0.0014	0.0014		0.0011	<0.0010
Hg-T	mg/L	0.0000023		<0.000038	0.0000020	<0.0000019	<0.0000019		<0.0000019	0.0000024
Mo-T	mg/L	<0.0010		<0.0010	<0.0010	<0.0010	<0.0010		<0.0010	<0.0010
Ni-T	mg/L	<0.0010		<0.0010	<0.0010	<0.0010	<0.0010		<0.0010	<0.0010
K-T	mg/L	0.439		0.518	0.871	0.629	0.386		0.599	0.291
S-T	mg/L	31.0		39.1	91.3	50.1	29.7		50.1	22.0
Se-T	mg/L	<0.00010		<0.00010	<0.00010	<0.00010	<0.00010		<0.00010	<0.00010
Si-T	mg/L	2.10		2.11	5.15	4.05	3.57		3.32	3.23
Ag-T	mg/L	<0.000020		<0.000020	<0.000020	<0.000020	<0.000020		<0.000020	<0.000020
Na-T	mg/L	8.59		10.8	16.5	11.8	7.99		13.1	5.26
Sr-T	mg/L	0.222		0.308	0.595	0.312	0.202		0.338	0.153
Zn-T	mg/L	<0.0050		<0.0050	<0.0050	<0.0050	<0.0050		<0.0050	<0.0050
Al-D	mg/L	0.0336		0.0229	0.0278	0.0584	0.0489		0.0291	0.0510
As-D	mg/L	0.00027		0.00051	0.00041	0.00025	0.00023		0.00020	0.00019
Ba-D	mg/L	0.0076		0.0118	0.0226	0.0105	0.0066		0.0098	0.0052
B-D	mg/L	0.068		0.088	0.155	0.087	0.056		0.081	<0.050
Be-D	mg/L	<0.00010		<0.00010	<0.00010	<0.00010	<0.00010		<0.00010	<0.00010
Cd-D	mg/L	<0.000010		<0.000010	<0.000010	<0.000010	<0.000010		<0.000010	<0.000010
Ca-D	mg/L	36.6		47.7	93.7	50.1	34.1		55.3	27.3
Cr-D	mg/L	<0.0010		<0.0010	<0.0010	<0.0010	<0.0010		<0.0010	<0.0010
Co-D	mg/L	<0.00020		<0.00020	<0.00020	<0.00020	<0.00020		<0.00020	<0.00020
Cu-D	mg/L	0.00030		0.00044	0.00049	0.00056	0.00038		0.00029	0.00032
Hard-D	mg/L	112		147	281	153	105		168	83.5
Fe-D	mg/L	0.0412		0.0559	0.0357	0.0705	0.0500		0.0247	0.0459
Pb-D	mg/L	<0.00020		<0.00020	<0.00020	<0.00020	<0.00020		<0.00020	<0.00020
Mg-D	mg/L	4.94		6.67	11.5	6.89	4.71		7.17	3.69
Mn-D	mg/L	<0.0010		<0.0010	<0.0010	<0.0010	<0.0010		<0.0010	<0.0010
Hg-D	mg/L	0.0000022		<0.000038	<0.0000019	<0.0000019	<0.0000019		<0.0000019	0.0000020
Mo-D	mg/L	<0.0010		<0.0010	<0.0010	<0.0010	<0.0010		<0.0010	<0.0010
Ni-D	mg/L	<0.0010		<0.0010	<0.0010	<0.0010	<0.0010		<0.0010	<0.0010
K-D	mg/L	0.451		0.544	0.876	0.596	0.385		0.563	0.303
S-D	mg/L	30.7		38.4	90.0	47.1	29.4		53.3	22.9
Se-D	mg/L	<0.00010		<0.00010	<0.00010	<0.00010	<0.00010		<0.00010	<0.00010
Si-D	mg/L	1.97		2.05	5.06	3.51	3.31		3.39	3.26
Na-D	mg/L	8.76		11.1	17.3	11.4	8.20		13.3	5.39
Sr-D	mg/L	0.218		0.297	0.572	0.292	0.206		0.335	0.157
Zn-D	mg/L	<0.0050		<0.0050	<0.0050	<0.0050	<0.0050		<0.0050	<0.0050

Table 19 South End Mine Water Entering Long Lake Near the Outlet 4 Page(s)

EMS ID	E292130	Stn Std	WQG-Max																	
South End Mine Water Entering Long Lake Near the Outlet																				
Site Description	Site Name	LLE	Std Val	LLE-1APR21-M	LLE-1APR21-R	LLE-6APR21-M	LLE-12APR21-M	LLE-19APR21-M	LLE-26APR21-M	LLE-3MAY21-M	LLE-10MAY21-M	LLE-17MAY21-M	LLE-25MAY21-M	LLE-1Jun21-M	LLE-8Jun21-R	LLE-8Jun21-M	LLE-14Jun21-M	LLE-21Jun21-M	LLE-28Jun21-M	LLE-29Jun21-R
Date			Max	2021-04-01	2021-04-01	2021-04-06	2021-04-12	2021-04-19	2021-04-26	2021-05-03	2021-05-10	2021-05-17	2021-05-25	2021-06-01	2021-06-08	2021-06-08	2021-06-14	2021-06-21	2021-06-28	2021-06-29
pH-F	pH Units			7.74	7.74	7.22	8.05	7.6	7.68	7.12	6.75	8.05	7.11	7.07	7.19	7.19	7.29	6.93	7.14	7.14
Cond-F	uS/cm			370	370	383	2620	472	486	429	530	2620	904	702	1141	1141	580	858	1288	1288
SO4-D	mg/L			140	130	140	150	170	160	140	180	180	220	270	320	350	110	240	620	620
TSS	mg/L	25				<1.0					<1.0			1.2						
DOC	mg/L																			
Alk-T	mg/L					45					53			67						
Acidity83	mg/L					<1.0					3.2			3.1						
N-NH3	mg/L	12.9				<0.015					<0.015			<0.015						
N-NO23	mg/L					<0.020					<0.020			<0.020						
P-T	mg/L					<0.0030					<0.0030			0.0044						
Al-T	mg/L					0.0466					0.0172			0.0340						
As-T	mg/L	0.005				0.00063					0.00054			0.00073						
Ba-T	mg/L					0.0131					0.0194			0.0185						
B-T	mg/L					0.083					0.117			0.176						
Cd-T	mg/L					<0.000010					<0.000010			0.000028						
Ca-T	mg/L					46.9					58.0			78.0						
Cr-T	mg/L					<0.0010					<0.0010			<0.0010						
Co-T	mg/L	0.11				<0.00020					<0.00020			<0.00020						
Cu-T	mg/L					<0.00050					<0.00050			0.00062						
Hard-T	mg/L					145					179			241						
Fe-T	mg/L	1.0				0.297					0.590			1.04						
Fe-D	mg/L	0.35				0.219					0.402			0.641						
Pb-D	mg/L					<0.00020					<0.00020			<0.00020						
Mg-D	mg/L					6.77					8.61			11.7						
Mn-D	mg/L					0.0363					0.0630			0.145						
Hg-D	mg/L					<0.0000019					<0.0000019			<0.000038						
Mo-D	mg/L					<0.0010					<0.0010			<0.0010						
Ni-D	mg/L					<0.0010					<0.0010			<0.0010						
K-D	mg/L					0.568					0.652			0.880						
S-D	mg/L					42.0					56.1			80.4						
Se-D	mg/L					<0.00010					0.00013			<0.00010						
Si-D	mg/L					2.33					2.22			2.58						
Na-D	mg/L					11.6					15.4			21.2						
Sc-D	mg/L					0.284					0.382			0.491						
Zn-D	mg/L					<0.0050					<0.0050			<0.0050						

Table 19 South End Mine Water Entering Long Lake Near the Outlet 4 Page(s)

EMS ID		E292130						
Site Description		South End Mine Lake Near the C						
Site Name	LLE	LLE-5JUL21-M	LLE-9AUG21-M	LLE-16AUG21-M	LLE-23Aug21-M	LLE-28SEP21-M	LLE-27SEP21-R	LLE-27SEP21-M
Date		2021-07-05	2021-08-09	2021-08-16	2021-08-23	2021-09-20	2021-09-27	2021-09-27
pH-F	pH Units	7.23	7.06	7.3	7.08	6.54		7.3
Cond-F	uS/cm	1289	1384	1509	1603	1073		1374
SO4-D	mg/L	610	620	660		470	620	540
TSS	mg/L	5.2	5.2			2.4		
DOC	mg/L					4.7		
Alk-T	mg/L	130	150			120		
Acidity83	mg/L	10.7	8.3			5.2		
N-NH3	mg/L	<0.015	0.56			0.30		
N-NO23	mg/L	<0.020	<0.020			<0.020		
P-T	mg/L	<0.0030	0.0041			0.0056		
Al-T	mg/L	0.0052	0.0259			0.0230		
As-T	mg/L	0.00111	0.00095			0.00071		
Ba-T	mg/L	0.0292	0.0298			0.0286		
B-T	mg/L	0.433	0.480			0.312		
Cd-T	mg/L	<0.000010	<0.000010			<0.000010		
Ca-T	mg/L	176	224			148		
Cr-T	mg/L	<0.0010	<0.0010			<0.0010		
Co-T	mg/L	<0.00020	<0.00020			0.00051		
Cu-T	mg/L	<0.00050	<0.00050			<0.00050		
Hard-T	mg/L	553	712			467		
Fe-T	mg/L	1.24	0.657			0.258		
Fe-D	mg/L	0.228	0.0141			0.0716		
Pb-D	mg/L	<0.00020	<0.00020			<0.00020		
Mg-D	mg/L	26.5	36.5			21.9		
Mn-D	mg/L	0.335	0.0916			0.0779		
Hg-D	mg/L	<0.0000019	<0.0000019			<0.0000019		
Mo-D	mg/L	<0.0010	<0.0010			<0.0010		
Ni-D	mg/L	<0.0010	<0.0010			<0.0010		
K-D	mg/L	1.83	2.70			2.37		
S-D	mg/L	190	249			155		
Se-D	mg/L	<0.00010	<0.00010			<0.00010		
Si-D	mg/L	4.41	5.51			4.41		
Na-D	mg/L	53.4	74.2			44.3		
Sr-D	mg/L	1.18	1.38			0.939		
Zn-D	mg/L	<0.0050	<0.0050			<0.0050		

Table 19 South End Mine Water Entering Long Lake Near the Outlet 4 Page(s)

EMS ID	E292130															
Site Description	South End Mine Lake Near the C															
Site Name	LLE	LLE-40c21-M	LLE-120c21-M	LLE-180c21-M	LLE-250c21-M	LLE-1NOV21-M	LLE-8NOV21-R	LLE-8NOV21-M	LLE-16NOV21-M	LLE-23NOV21-M	LLE-28NOV21-M	LLE-7Dec21-M	LLE-13DEC21-R	LLE-13DEC21-M	LLE-20DEC21-M	LLE-27Dec21-M
Date		2021-10-04	2021-10-12	2021-10-18	2021-10-25	2021-11-01	2021-11-08	2021-11-08	2021-11-16	2021-11-23	2021-11-29	2021-12-07	2021-12-13	2021-12-13	2021-12-20	2021-12-27
pH-F	pH Units	7.15	6.68	6.5	6.96	6.73	7.16	7.16	7.41	7.34	7.2	7.48	7.37	7.37	7.62	7.14
Cond-F	uS/cm	1150.9	1039.1	626.3	204.7	294.1	324	324	212	287	256	346	259	259	278	349
SO4-D	mg/L	510	430	290	81	140	130	130	74	95	112	86	83	82	73	190
TSS	mg/L	2.8				<1.0						<1.0				
DOC	mg/L															
Alk-T	mg/L	140				38						29				
Acidity83	mg/L	5.5				2.6						2.9				
N-NH3	mg/L	0.20				0.062						<0.015				
N-NO23	mg/L	<0.020				<0.020						0.047				
P-T	mg/L	<0.0030				0.0039						0.0035				
Al-T	mg/L	0.0046				0.101						0.0833				
As-T	mg/L	0.00079				0.00122						0.00064				
Ba-T	mg/L	0.0272				0.0127						0.0078				
B-T	mg/L	0.405				0.081						0.051				
Cd-T	mg/L	<0.000010				<0.000010						<0.000010				
Ca-T	mg/L	186				42.9						26.5				
Cr-T	mg/L	<0.0010				<0.0010						<0.0010				
Co-T	mg/L	<0.00020				<0.00020						<0.00020				
Cu-T	mg/L	<0.00050				0.00069						0.00050				
Hard-T	mg/L	587				132						81.8				
Fe-T	mg/L	0.492				0.159						0.317				
Fe-D	mg/L	0.264				0.117						0.271				
Pb-D	mg/L	<0.00020				<0.00020						<0.00020				
Mg-D	mg/L	28.3				5.92						3.84				
Mn-D	mg/L	0.0753				0.0253						0.0378				
Hg-D	mg/L	<0.0000019				0.0000046						0.0000020				
Mo-D	mg/L	<0.0010				<0.0010						<0.0010				
Ni-D	mg/L	<0.0010				<0.0010						<0.0010				
K-D	mg/L	2.74				0.545						0.342				
S-D	mg/L	190				38.1						22.6				
Se-D	mg/L	<0.00010				<0.00010						<0.00010				
Si-D	mg/L	6.04				3.44						3.45				
Na-D	mg/L	57.6				9.71						6.79				
Sr-D	mg/L	1.11				0.238						0.164				
Zn-D	mg/L	<0.0050				<0.0050						<0.0050				

Table 19 South End Mine Water Entering Long Lake Near the Outlet 4 Page(s)

EMS ID	E292130														
Site Description	South End Mine Lake Near the C														
Site Name	LLE	LLE-41JAN22-M	LLE-11JAN22-M	LLE-17JAN22-M	LLE-24JAN22-M	LLE-1FEB22-M	LLE-7FEB22-M	LLE-14FEB22-M	LLE-22FEB22-M	LLE-22FEB22-R	LLE-1MAR22-M	LLE-7MAR22-M	LLE-14MAR22-M	LLE-22MAR22-M	LLE-28MAR22-M
Date		2022-01-04	2022-01-11	2022-01-17	2022-01-24	2022-02-01	2022-02-07	2022-02-14	2022-02-22	2022-02-22	2022-03-01	2022-03-07	2022-03-14	2022-03-22	2022-03-28
pH-F	pH Units	7.48	6.64	7.88	7.71	7.27	7.77	7.35	8.01		7.89	7.9	7.36	7.54	7.26
Cond-F	uS/cm	219	185.4	191.9	192.9	347	270	279	310		342	300	256	346	349
SD4-D	mg/L	62	53	45	43	130	92	85	89	86	76	90	83		110
TSS	mg/L	<1.0				<1.0					1.6				
DOC	mg/L	5.2									3.0				
Alk-T	mg/L	26				37					26				
Acidity83	mg/L	1.4				1.7					1.1				
N-NH3	mg/L	<0.015				<0.015					0.015				
N-NO23	mg/L	0.093				0.030					0.038				
P-T	mg/L	0.0035				<0.0030					<0.0030				
Al-T	mg/L	0.131		0.0744		0.0863					0.0964				
As-T	mg/L	0.00093		0.00058		0.00067					0.00073				
Ba-T	mg/L	0.0071		0.0058		0.0112					0.0076				
B-T	mg/L	<0.050		<0.050		0.065					<0.050				
Cd-T	mg/L	<0.000010		<0.000010		<0.000010					<0.000010				
Ca-T	mg/L	21.3		18.5		43.3					26.5				
Cr-T	mg/L	<0.0010		<0.0010		<0.0010					<0.0010				
Co-T	mg/L	<0.00020		<0.00020		<0.00020					<0.00020				
Cu-T	mg/L	0.00054		<0.00050		<0.00050					<0.00050				
Hard-T	mg/L	66.6		57.1		132					81.4				
Fe-T	mg/L	0.899		0.099		0.226					0.243				
Fe-D	mg/L	0.853		0.0764		0.195					0.201				
Pb-D	mg/L	<0.00020		<0.00020		<0.00020					<0.00020				
Mg-D	mg/L	3.40		2.70		5.65					3.60				
Mn-D	mg/L	0.0630		0.0065		0.0126					0.0130				
Hg-D	mg/L	<0.0000019				<0.0000019					0.0000019				
Mo-D	mg/L	<0.0010		<0.0010		0.0422					<0.0010				
Ni-D	mg/L	<0.0010		<0.0010		<0.0010					<0.0010				
K-D	mg/L	0.293		0.284		0.475					0.321				
S-D	mg/L	19.1		15.0		39.3					22.6				
Se-D	mg/L	<0.00010		<0.00010		<0.00010					<0.00010				
Si-D	mg/L	3.73		3.03		3.38					3.18				
Na-D	mg/L	5.68		5.01		10.4					5.59				
Sr-D	mg/L	0.128		0.108		0.246					0.148				
Zn-D	mg/L	<0.0050		<0.0050		<0.0050					0.0094				

Table 20 Seep into Long Lake 1 Page(s)

EMS ID	E292131	Stn Std	WQG-Max												
Site Description	Seep into Long Lake														
Site Name	LLS	Std Val	LLS-6APR21-M	LLS-10MAY21-M	LLS-13JUN21-M	LLS-5JUL21-M	LLS-9AUG21-M	LLS-1SEP21-M	LLS-4OCT21-M	LLS-1NOV21-M	LLS-7DEC21-M	LLS-17JAN22-M	LLS-1FEB22-M	LLS-1MAR22-M	
Date		Max	2021-04-06	2021-05-10	2021-06-01	2021-07-05	2021-08-09	2021-09-01	2021-10-04	2021-11-01	2021-12-07	2022-01-17	2022-02-01	2022-03-01	
pH-F	pH Units		6.8	7.05	6.99	7.33	6.91	6.69	6.92	6.86	7.17	7.04	7.14	7.21	
Cond-F	uS/cm		1660	1733	1677	1609	1382	1505	1304.5	1322.9	1625	1714	1843	1722	
pH-L	pH Units	9.0	7.78	7.67	7.93	7.56	8.11	8.11	7.69	8.03	7.66	7.58	7.93	7.70	
Cond-L	uS/cm		1600	1500	1500	1500		1400	1400	1500	1400	1500	1600		
SO4-D	mg/L		650	620	600	650	540	580	530	650	660	600	650	650	
TSS	mg/L	25	5.2	4.0	3.2	4.0	4.0	1.6	4.8	1.6	4.8	3.2	3.6	<1.0	
Alk-T	mg/L		240	240	240	260	260	260	260	250	200	78	230	230	
Acidity83	mg/L		12.9	17.5	12.7	14.6	16.2	3.3	9.5	4.9	23.0	4.7	1.3	5.4	
Al-T	mg/L		<0.0030	0.0039	0.0045	0.0053	<0.0030	<0.0030	<0.0030	0.0210	0.0097	0.0094	<0.0030	<0.0060	
As-T	mg/L	0.005	0.00376	0.00375	0.00409	0.00461	0.00230	0.00217	0.00270	0.00383	0.00398	0.00434	0.00454	0.00287	
Ba-T	mg/L		0.0174	0.0177	0.0183	0.0192	0.0173	0.0174	0.0190	0.0189	0.0188	0.0188	0.0177	0.0165	
B-T	mg/L		0.560	0.553	0.591	0.615	0.574	0.527	0.508	0.610	0.466	0.519	0.616	0.63	
Cd-T	mg/L		<0.000010	<0.000010	0.000046	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000020	
Ca-T	mg/L		228	221	224	231	199	206	212	223	204	232	244	231	
Cr-T	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	
Co-T	mg/L	0.11	0.00173	0.00131	0.00112	0.00100	0.00100	0.00089	0.00096	0.00163	0.00090	0.00083	0.00076	0.00061	
Cu-T	mg/L		<0.00050	<0.00050	0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010	
Hard-T	mg/L		651	629	638	663	573	584	601	649	583	658	700	666	
Fe-T	mg/L	1.0	2.09	1.66	1.72	1.85	1.46	1.38	1.82	1.77	1.54	1.77	1.85	1.20	
Pb-T	mg/L	0.01763	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00040	
Mg-T	mg/L		19.9	18.4	19.2	21.0	18.5	17.0	17.2	20.5	18.1	19.3	22.2	21.8	
Mn-T	mg/L	0.8706	0.458	0.439	0.467	0.466	0.399	0.391	0.454	0.469	0.328	0.393	0.375	0.272	
Hg-T	mg/L		<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	
Mo-T	mg/L	2.0	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	
Ni-T	mg/L		0.0038	0.0025	0.0021	0.0019	0.0018	0.0016	0.0018	0.0034	0.0025	0.0024	0.0023	0.0021	
K-T	mg/L		2.30	2.34	2.44	2.56	2.28	2.31	2.37	2.52	2.09	2.34	2.56	2.55	
S-T	mg/L		214	200	211	215	178	171	184	191	209	214	235	225	
Se-T	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	
Si-T	mg/L		2.91	2.70	2.92	2.77	2.45	2.72	2.89	3.35	3.01	2.96	3.11	2.84	
Ag-T	mg/L	0.0001	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.00040	
Na-T	mg/L		89.7	85.7	90.3	105	87.1	84.6	87.7	95.7	74.4	86.9	103	104	
Sr-T	mg/L		2.06	2.19	2.20	2.23	1.80	1.94	2.04	2.02	1.80	1.95	2.24	1.98	
Zn-T	mg/L	0.033	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	
Al-D	mg/L	0.1	<0.0030	<0.0030	<0.0060	<0.0030	<0.0030	<0.0030	<0.0030	0.0033	<0.0030	<0.0030	<0.0030	<0.0060	
As-D	mg/L		0.00348	0.00352	0.00382	0.00436	0.00225	0.00204	0.00258	0.00339	0.00263	0.00400	0.00420	0.00259	
Ba-D	mg/L		0.0181	0.0174	0.0179	0.0180	0.0173	0.0171	0.0178	0.0182	0.0192	0.0193	0.0176	0.0166	
B-D	mg/L		0.559	0.535	0.58	0.576	0.547	0.555	0.542	0.552	0.470	0.529	0.631	0.63	
Be-D	mg/L		<0.00010	<0.00010	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	
Cd-D	mg/L	0.00017	<0.000010	<0.000010	<0.000020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000020	
Ca-D	mg/L		235	226	226	215	198	214	205	220	208	234	254	231	
Cr-D	mg/L		<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	
Co-D	mg/L		0.00184	0.00128	0.00110	0.00093	0.00098	0.00097	0.00099	0.00161	0.00088	0.00073	0.00075	0.00058	
Cu-D	mg/L		<0.00020	<0.00020	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00040	
Hard-D	mg/L		674	646	647	615	569	609	584	631	597	668	722	664	
Fe-D	mg/L	0.35	2.06	1.60	1.78	1.71	1.47	1.39	1.72	2.09	1.83	1.53	1.65	1.01	
Pb-D	mg/L		<0.00020	<0.00020	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00040	
Mg-D	mg/L		21.2	19.5	19.8	19.0	18.2	18.4	17.3	19.6	18.7	20.4	21.4	21.5	
Mn-D	mg/L		0.463	0.445	0.448	0.436	0.399	0.408	0.447	0.451	0.320	0.384	0.380	0.266	
Hg-D	mg/L		<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	
Mo-D	mg/L		<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	
Ni-D	mg/L		0.0038	0.0025	0.0021	0.0018	0.0018	0.0017	0.0017	0.0032	0.0024	0.0022	0.0023	0.0021	
K-D	mg/L		2.43	2.43	2.46	2.40	2.29	2.41	2.31	2.51	2.21	2.44	2.54	2.51	
S-D	mg/L		227	214	209	202	179	184	175	207	193	226	238	221	
Se-D	mg/L		<0.00010	0.00011	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	
Si-D	mg/L		2.84	2.85	2.92	2.74	2.54	2.65	2.90	2.95	3.00	2.96	3.23	2.82	
Na-D	mg/L		96.1	91.2	92.5	93.2	86.7	92.4	86.8	93.9	78.5	91.3	100	102	
Sr-D	mg/L		2.17	2.18	2.10	2.23	1.80	1.91	1.94	1.88	2.03	2.03	2.36	2.00	
Zn-D	mg/L		<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	

Table 21 Long Lake Middle Seep 1 Page(s)

EMS ID	WQG-Max												
Site Description	Long Lake Middle Seep												
Site Name	LLSM	Std Val	LLSM-6APR21-M	LLSM-10MAY21-M	LLSM-1Jun21-M	LLSM-5JUL21-M	LLSM-9AUG21-M	LLSM-1SEP21-M	LLSM-1NOV21-M	LLSM-7Dec21-M	LLSM-17JAN22-M	LLSM-1FEB22-M	LLSM-1MAR22-M
Date		Max	2021-04-06	2021-05-10	2021-06-01	2021-07-05	2021-08-09	2021-09-01	2021-11-01	2021-12-07	2022-01-17	2022-02-01	2022-03-01
pH-F	pH Units		7.12	8.19	7.36	7.65	7.29	7.2	7.18	7.66	7.63	7.73	7.8
Cond-F	uS/cm		1443	1217	1487	1467	1210	1356	976.2	1420	1247	1500	1285
SO4-D	mg/L		440	440	450	540	450	490	370	510	390	470	420
TSS	mg/L	25	2.0	1.2	<1.0	2.4	2.0	2.0	2.0	<1.0	2.4	2.4	3.2
Alk-T	mg/L		210	200	220	240	250	230	150	170	160	200	170
Acidiv83	mg/L		5.5	9.4	7.1	7.5	9.1	1.8	1.8	10.4	2.4	<1.0	2.0
Al-T	mg/L		0.0056	0.0038	0.0104	<0.0030	<0.0030	<0.0030	0.154	0.0084	0.0586	0.0153	0.0124
As-T	mg/L	0.005	0.00100	0.00112	0.00153	0.00176	0.00090	0.00081	0.00117	0.00046	0.00056	0.00034	0.00024
Ba-T	mg/L		0.0169	0.0170	0.0173	0.0174	0.0168	0.0172	0.0188	0.0192	0.0173	0.0198	0.0175
B-T	mg/L		0.456	0.438	0.463	0.494	0.495	0.471	0.402	0.410	0.350	0.496	0.399
Cd-T	mg/L		<0.000010	<0.000010	0.000135	<0.000010	<0.000010	<0.000010	0.000012	<0.000010	<0.000010	<0.000010	<0.000010
Ca-T	mg/L		184	175	185	190	171	184	157	174	154	187	160
Cr-T	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Co-T	mg/L	0.11	0.00090	0.00091	0.00099	0.00095	0.00096	0.00094	0.00239	0.00046	0.00069	0.00028	0.00023
Cu-T	mg/L		<0.00050	<0.00050	0.00136	<0.00050	<0.00050	<0.00050	0.00239	<0.00050	0.00088	0.00121	<0.00050
Hard-T	mg/L		531	501	527	548	498	526	460	503	445	538	465
Fe-T	mg/L	1.0	0.512	0.617	0.733	0.952	0.774	0.694	0.840	0.167	0.282	0.147	0.097
Pb-T	mg/L	0.01763	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mg-T	mg/L		17.2	15.5	15.8	17.8	17.0	15.8	16.1	16.5	14.5	17.5	16.1
Mn-T	mg/L	0.8706	0.211	0.232	0.295	0.350	0.342	0.362	0.224	0.0836	0.0597	0.0410	0.0312
Hg-T	mg/L		<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019
Mo-T	mg/L	2.0	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-T	mg/L		0.0027	0.0022	0.0022	0.0021	0.0019	0.0019	0.0068	0.0017	0.0021	0.0014	0.0012
K-T	mg/L		2.06	1.92	2.07	2.25	2.08	2.18	1.95	1.98	1.85	2.20	1.90
S-T	mg/L		171	156	157	171	145	153	155	162	136	177	149
Se-T	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00011	<0.00010	0.00012	<0.00010
Si-T	mg/L		2.57	2.35	2.52	2.30	2.14	2.39	3.35	2.82	2.64	2.85	2.66
Ag-T	mg/L	0.0001	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Na-T	mg/L		72.9	65.2	69.1	82.3	72.5	74.7	56.5	66.7	58.8	85.0	65.0
Sr-T	mg/L		1.71	1.67	1.67	1.79	1.54	1.73	1.35	1.56	1.31	1.77	1.40
Zn-T	mg/L	0.033	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0058	<0.0050	<0.0050	<0.0050	<0.0050
Al-D	mg/L	0.1	0.0041	<0.0030	0.0030	<0.0030	<0.0030	<0.0030	0.0190	0.0353	0.0202	0.0066	0.0058
As-D	mg/L		0.00100	0.00104	0.00133	0.00166	0.00091	0.00074	0.00083	0.00063	0.00048	0.00030	0.00022
Ba-D	mg/L		0.0174	0.0173	0.0172	0.0175	0.0171	0.0172	0.0183	0.0191	0.0181	0.0198	0.0172
B-D	mg/L		0.432	0.431	0.458	0.477	0.491	0.503	0.374	0.415	0.364	0.521	0.390
Be-D	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Cd-D	mg/L	0.00017	0.000018	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Ca-D	mg/L		188	179	191	187	179	196	154	179	160	194	158
Cr-D	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Co-D	mg/L		0.00092	0.00093	0.00090	0.00094	0.00098	0.00097	0.00238	0.00043	0.00064	0.00027	0.00022
Cu-D	mg/L		0.00042	0.00024	0.00021	<0.00020	<0.00020	<0.00020	0.00148	0.00057	0.00066	0.00032	0.00034
Hard-D	mg/L		543	514	548	537	517	559	448	462	554	554	461
Fe-D	mg/L	0.35	0.481	0.562	0.706	0.869	0.712	0.664	0.567	0.384	0.151	0.0992	0.0509
Pb-D	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mg-D	mg/L		17.9	16.5	17.2	17.1	16.9	16.8	15.7	16.7	15.5	17.0	15.8
Mn-D	mg/L		0.215	0.249	0.286	0.350	0.350	0.369	0.223	0.0793	0.0574	0.0413	0.0297
Hg-D	mg/L		<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019
Mo-D	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-D	mg/L		0.0028	0.0021	0.0019	0.0020	0.0020	0.0019	0.0067	0.0016	0.0020	0.0015	0.0012
K-D	mg/L		2.10	2.13	2.16	2.26	2.13	2.26	1.96	2.01	1.94	2.14	1.88
S-D	mg/L		176	164	169	173	155	160	150	163	149	183	149
Se-D	mg/L		<0.00010	0.00011	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	0.00013	<0.00010	0.00011	<0.00010
Si-D	mg/L		2.51	2.47	2.55	2.42	2.31	2.39	2.84	2.87	2.71	2.93	2.68
Na-D	mg/L		75.6	69.8	72.2	79.6	76.0	81.8	56.0	67.4	60.8	84.8	65.2
Sr-D	mg/L		1.70	1.69	1.73	1.88	1.61	1.72	1.29	1.60	1.33	1.80	1.36
Zn-D	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0057	<0.0050	<0.0050	<0.0050	<0.0050

Table 22 Authorised Discharge Location for 7S South Mine Water 1 Page(s)

EMS ID	E292069		PL-7S			
Site Description	Authorised Discharge Location for 7S South Mine Water					
Site Name	7SSD	Std Val	7SSD-6APR21-P	7SSD-5JUL21-P	7SSD-4OCT21-P	7SSD-18JAN22-P
Date	Max		2021-04-06	2021-07-05	2021-10-04	2022-01-18
pH-F	pH Units		7.75	8.04	7.3	6.85
Cond-F	uS/cm		272	307	436.5	128
SO4-D	mg/L	500	7.0	2.7	50	23
TSS	mg/L	25	1.6	1.6	1.6	<1.0
Alk-T	mg/L		110	130	200	28
Acidity83	mg/L		<1.0	<1.0	2.2	<1.0
DOC	mg/L		1.8	7.7	2.5	<0.50
Al-T	mg/L		0.0139	0.0047	0.0074	0.0182
As-T	mg/L		0.00168	0.00907	0.00423	0.00011
Ba-T	mg/L		0.0045	0.0049	0.0101	0.0034
B-T	mg/L		<0.050	<0.050	<0.050	<0.050
Cd-T	mg/L		<0.000010	<0.000010	<0.000010	<0.000010
Ca-T	mg/L		30.4	28.3	69.5	15.6
Cr-T	mg/L		<0.0010	<0.0010	<0.0010	<0.0010
Co-T	mg/L		<0.00020	<0.00020	<0.00020	<0.00020
Cu-T	mg/L		0.00052	0.00060	0.00247	<0.00050
Hard-T	mg/L		106	116	235	51.4
Fe-T	mg/L		0.036	0.309	0.076	0.043
Pb-T	mg/L		<0.00020	<0.00020	<0.00020	<0.00020
Mg-T	mg/L		7.31	11.1	14.9	3.01
Mn-T	mg/L		0.0212	0.108	0.115	0.0179
Hg-T	mg/L		<0.0000019	<0.0000019	<0.0000019	<0.0000019
Mo-T	mg/L		<0.0010	<0.0010	<0.0010	<0.0010
Ni-T	mg/L		<0.0010	<0.0010	<0.0010	<0.0010
K-T	mg/L		0.325	1.19	0.742	0.279
S-T	mg/L		<3.0	<3.0	17.4	8.0
Se-T	mg/L		<0.00010	<0.00010	<0.00010	<0.00010
Si-T	mg/L		3.27	3.05	6.80	1.99
Ag-T	mg/L		<0.000020	<0.000020	<0.000020	<0.000020
Na-T	mg/L		3.34	6.11	8.18	1.42
Sr-T	mg/L		0.108	0.144	0.273	0.0518
Zn-T	mg/L		<0.0050	<0.0050	<0.0050	<0.0050
Al-D	mg/L	0.1	0.0057	0.0044	<0.0030	0.0060
As-D	mg/L		0.00162	0.00834	0.00379	0.00022
Ba-D	mg/L		0.0042	0.0043	0.0071	0.0034
B-D	mg/L		<0.050	<0.050	0.050	<0.050
Be-D	mg/L		<0.00010	<0.00010	<0.00010	<0.00010
Cd-D	mg/L	0.000045	<0.000010	<0.000010	<0.000010	<0.000010
Ca-D	mg/L		30.0	27.0	64.0	14.7
Cr-D	mg/L		<0.0010	<0.0010	<0.0010	<0.0010
Co-D	mg/L		<0.00020	<0.00020	<0.00020	<0.00020
Cu-D	mg/L	0.014	0.00055	0.00057	0.00046	0.00023
Hard-D	mg/L		105	110	219	49.2
Fe-D	mg/L	0.35	0.0079	0.220	0.0217	0.0179
Pb-D	mg/L		<0.00020	<0.00020	<0.00020	<0.00020
Mg-D	mg/L		7.29	10.3	14.4	3.01
Mn-D	mg/L		0.0061	0.0696	0.0950	0.0173
Hg-D	mg/L		<0.0000019	<0.0000019	<0.0000019	<0.0000019
Mo-D	mg/L		<0.0010	<0.0010	<0.0010	<0.0010
Ni-D	mg/L		<0.0010	<0.0010	<0.0010	<0.0010
K-D	mg/L		0.324	1.18	0.697	0.281
S-D	mg/L		<3.0	<3.0	16.8	7.9
Se-D	mg/L	0.016	<0.00010	<0.00010	0.00010	<0.00010
Si-D	mg/L		3.24	3.11	6.58	1.80
Na-D	mg/L		3.43	5.62	7.50	1.43
Sr-D	mg/L		0.104	0.146	0.243	0.0494
Zn-D	mg/L		<0.0050	<0.0050	<0.0050	0.0053

Table 23 7 South Portal Sump 1 Page(s)

EMS ID		E292110												
Site Description		7 South Portal Sump												
Site Name	7SPS	7SPS-6APR21-M	7SPS-6MAY21-M	7SPS-1Jun21-M	7SPS-5JUL21-M	7SPS-9AUG21-M	7SPS-1SEP21-M	7SPS-4Oct21-M	7SPS-1NOV21-M	7SPS-7Dec21-M	7SPS-18JAN22-M	7SPS-1FEB22-M	7SPS-1MAR22-M	
Date		2021-04-06	2021-05-06	2021-06-01	2021-07-05	2021-08-09	2021-09-01	2021-10-04	2021-11-01	2021-12-07	2022-01-18	2022-02-01	2022-03-01	
pH-F	pH Units	6.9	7.4	7.56	7.66	7.18	7.7	5.23	6.02	7.1	7	7.36	7.1	
Cond-F	uS/cm	670	852	890	944	922	1201	1273.8	731.9	691	447	517	458	
SO4-D	mg/L	200	230	270	380	360	470	790	350	250	130	160	170	
TSS	mg/L	8.8	3.2	6.0	6.8	2.0	2.4	14	25	11	4.4	30	4.4	
Alk-T	mg/L	120	130	140	130	120	110	1.2	5.6	63	61	65	61	
Acidity83	mg/L	3.4	4.6	2.0	2.6	3.7	1.0	118	26.5	11.9	4.9	2.2	2.2	
Al-T	mg/L	0.0723	0.0631	0.0416	0.0266	0.0178	0.0042	2.21	0.595	0.119	0.199	0.766	0.723	
As-T	mg/L	0.00186	0.00095	0.00105	0.00085	0.00032	0.00031	0.00186	0.00077	0.00079	0.00209	0.00293	0.00203	
Ba-T	mg/L	0.0144	0.0209	0.0214	0.0250	0.0671	0.0507	0.0386	0.0177	0.0152	0.0136	0.0183	0.0138	
B-T	mg/L	0.052	0.077	0.085	0.098	0.385	0.316	0.218	0.120	0.069	0.064	0.063	0.054	
Cd-T	mg/L	0.000016	0.000010	0.000015	<0.000010	<0.000010	<0.000010	0.000279	0.000153	0.000023	0.000012	0.000021	0.000028	
Ca-T	mg/L	86.8	102	116	127	136	145	198	105	80.3	51.3	56.8	56.4	
Cr-T	mg/L	<0.0010	0.0012	<0.0010	<0.0010	<0.0010	<0.0010	0.0012	0.0018	<0.0010	<0.0010	0.0011	0.0012	
Co-T	mg/L	0.00247	0.00147	0.00138	0.00100	0.00181	0.00064	0.0396	0.0217	0.00421	0.00219	0.00295	0.00338	
Cu-T	mg/L	0.00100	0.00117	0.00107	0.00083	<0.00050	<0.00050	0.0813	0.0185	0.00235	0.00267	0.00562	0.00525	
Hard-T	mg/L	304	352	399	448	478	504	666	372	279	171	194	195	
Fe-T	mg/L	3.53	2.24	3.48	3.71	2.14	1.06	49.2	22.6	4.81	2.70	2.99	3.07	
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00022	<0.00020	
Mg-T	mg/L	21.1	23.8	26.5	31.9	33.9	34.4	41.7	26.5	19.0	10.5	12.6	13.2	
Mn-T	mg/L	0.189	0.124	0.117	0.109	0.142	0.0633	0.881	0.530	0.171	0.0973	0.138	0.162	
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	
Mo-T	mg/L	<0.0010	0.0012	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Ni-T	mg/L	0.0049	0.0078	0.0043	0.0046	0.0063	0.0042	0.0635	0.0359	0.0085	0.0046	0.0060	0.0072	
K-T	mg/L	0.752	1.24	1.22	1.68	2.42	2.60	2.51	1.09	0.833	0.729	0.835	0.708	
S-T	mg/L	71.2	84.8	96.8	122	137	148	251	133	68.7	38.8	45.2	47.4	
Se-T	mg/L	<0.00010	0.00011	<0.00010	<0.00010	<0.00010	<0.00010	0.00040	0.00011	<0.00010	<0.00010	<0.00010	<0.00010	
Si-T	mg/L	5.09	5.31	4.89	5.50	4.96	5.20	7.82	7.13	4.76	3.82	4.67	5.12	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	
Na-T	mg/L	9.29	11.6	14.0	18.0	23.6	23.5	9.13	5.83	5.12	3.08	4.06	4.30	
Sr-T	mg/L	0.344	0.401	0.472	0.535	0.791	0.841	0.758	0.381	0.284	0.176	0.197	0.196	
Zn-T	mg/L	0.0088	0.0059	0.0066	0.0065	<0.0050	<0.0050	0.113	0.0764	0.0183	0.0079	0.0121	0.0149	
Al-D	mg/L	0.0033	0.0058	0.0438	<0.0030	<0.0030	<0.0030	1.71	0.0385	0.0055	0.0144	0.0080	0.0116	
As-D	mg/L	0.00060	0.00032	0.00033	0.00035	0.00020	0.00024	0.00139	0.00033	0.00061	0.00128	0.00068	0.00036	
Ba-D	mg/L	0.0138	0.0180	0.0190	0.0222	0.0643	0.0508	0.0361	0.0171	0.0120	0.0125	0.0142	0.0113	
B-D	mg/L	<0.050	0.068	0.070	0.089	0.352	0.335	0.227	0.102	0.057	0.071	0.060	0.052	
Be-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00034	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.000297	0.000146	0.000030	0.000011	0.000015	0.000017	
Ca-D	mg/L	90.4	89.5	112	122	129	151	191	103	75.6	52.6	57.6	57.6	
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Co-D	mg/L	0.00262	0.00123	0.00116	0.00072	0.00172	0.00065	0.0442	0.0221	0.00562	0.00207	0.00222	0.00295	
Cu-D	mg/L	0.00053	0.00060	0.00078	0.00054	0.00022	0.00036	0.0867	0.0132	0.00125	0.00097	0.00117	0.00149	
Hard-D	mg/L	318	309	390	427	458	531	655	366	266	177	196	200	
Fe-D	mg/L	0.526	0.102	0.247	0.257	0.0098	0.0138	49.4	19.4	4.76	1.86	0.799	0.975	
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	
Mg-D	mg/L	22.5	20.9	26.8	29.5	32.6	37.3	43.1	26.3	18.8	11.1	12.6	13.6	
Mn-D	mg/L	0.193	0.111	0.100	0.0872	0.140	0.0640	0.946	0.542	0.231	0.101	0.123	0.157	
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Ni-D	mg/L	0.0052	0.0031	0.0037	0.0040	0.0060	0.0043	0.0689	0.0360	0.0105	0.0046	0.0050	0.0065	
K-D	mg/L	0.788	1.10	1.22	1.61	2.41	2.71	2.33	1.09	0.716	0.732	0.729	0.676	
S-D	mg/L	75.3	74.6	94.5	120	137	159	248	131	70.9	43.3	48.1	49.8	
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00042	0.00012	<0.00010	<0.00010	<0.00010	<0.00010	
Si-D	mg/L	4.90	4.47	4.49	5.42	4.80	5.03	7.93	6.24	5.24	3.58	3.79	4.15	
Na-D	mg/L	10.1	10.4	13.9	16.7	23.2	25.7	8.99	5.94	5.89	3.20	4.02	4.37	
Sr-D	mg/L	0.321	0.360	0.441	0.538	0.767	0.843	0.730	0.374	0.279	0.177	0.204	0.194	
Zn-D	mg/L	0.0066	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.121	0.0763	0.0231	0.0083	0.0100	0.0111	

Table 24 Road Side Crossing Bridge on Stream 1 above the Lower Wetland 1 Page(s)

EMS ID		WQG-Max									
Site Description		Road Side Crossing Bridge on Stream 1 above the Lower Wetland									
Site Name	7S	Std Val	7S-6APR21-M	7S-6MAY21-M	7S-6MAY21-R	7S-1Jun21-M	7S-4Oct21-M	7S-1NOV21-M	7S-7Dec21-M	7S-22FEB22-M	7S-1MAR22-M
Date		Max	2021-04-06	2021-05-06	2021-05-06	2021-06-01	2021-10-04	2021-11-01	2021-12-07	2022-02-22	2022-03-01
pH-F	pH Units		7.11	6.79	6.79	6.9	6.6	6.76	7.37	7.35	7.83
Cond-F	uS/cm		55.5	88	88	108.2	79.7	71.1	99.2	102.9	71.9
SO4-D	mg/L		3.4	3.7	4.9	3.3	3.4	5.8	4.2	4.1	4.3
TSS	mg/L	25	1.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	<1.0
Alk-T	mg/L		17	23	21	28	30	14	11	11	12
AcidityB3	mg/L		<1.0	2.1	2.7	<1.0	3.8	<1.0	1.2	1.2	<1.0
DOC	mg/L		1.2	1.1	1.3	<0.50	1.5	2.6	1.9	1.8	1.9
Al-T	mg/L		0.0184	0.174	0.0934	0.0579	0.0148	0.0425	0.0349	0.0371	0.0331
As-T	mg/L	0.005	<0.00010	0.00015	0.00010	0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Ba-T	mg/L		0.0014	0.0027	0.0022	0.0026	0.0026	0.0020	0.0013	0.0011	0.0013
B-T	mg/L		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Cd-T	mg/L		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Ca-T	mg/L		5.04	6.01	5.73	7.19	7.53	4.94	3.81	3.75	3.91
Cr-T	mg/L		<0.0010	0.0046	0.0023	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Co-T	mg/L	0.11	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Cu-T	mg/L		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Hard-T	mg/L		17.4	20.9	20.2	24.9	26.2	17.3	13.2	13.2	13.6
Fe-T	mg/L	1.0	<0.010	0.133	0.069	0.040	<0.010	0.021	0.013	0.012	<0.010
Pb-T	mg/L	0.01763	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mg-T	mg/L		1.17	1.43	1.43	1.67	1.80	1.20	0.890	0.919	0.941
Mn-T	mg/L	0.8706	<0.0010	0.0051	0.0026	0.0016	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Hg-T	mg/L		<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019
Mo-T	mg/L	2.0	<0.0010	0.0045	0.0022	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-T	mg/L		<0.0010	0.0196	0.0095	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
K-T	mg/L		0.087	0.102	0.101	0.123	0.098	0.120	0.080	0.069	0.072
S-T	mg/L		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Se-T	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Si-T	mg/L		4.33	5.06	4.75	5.19	5.41	4.77	4.20	3.67	4.05
Ag-T	mg/L	0.0001	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Na-T	mg/L		1.60	1.89	1.87	2.05	2.65	1.68	1.42	1.38	1.36
Sr-T	mg/L		0.0191	0.0249	0.0249	0.0320	0.0331	0.0203	0.0153	0.0142	0.0142
Zn-T	mg/L	0.033	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Al-D	mg/L	0.1	0.0180	0.0145	0.0140	0.0134	0.0139	0.0288	0.0278	0.0242	0.0285
As-D	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00014
Ba-D	mg/L		0.0014	0.0017	0.0017	0.0021	0.0025	0.0016	0.0012	0.0010	0.0012
B-D	mg/L		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Be-D	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Cd-D	mg/L	0.00017	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Ca-D	mg/L		4.65	5.48	5.40	6.93	7.42	4.93	3.71	3.86	3.90
Cr-D	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Co-D	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Cu-D	mg/L	≤ 0.00334	0.00020	<0.00020	<0.00020	<0.00020	0.00026	0.00040	0.00029	0.00026	0.00027
Hard-D	mg/L		16.5	19.2	18.9	24.1	25.9	17.0	12.8	13.4	13.5
Fe-D	mg/L	0.35	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0075	0.0051	<0.0050	0.0058
Pb-D	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mg-D	mg/L		1.18	1.34	1.31	1.64	1.79	1.13	0.869	0.911	0.927
Mn-D	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Hg-D	mg/L		<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	0.0000021
Mo-D	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-D	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
K-D	mg/L		0.081	0.098	0.094	0.098	0.092	0.112	0.081	0.069	0.070
S-D	mg/L		<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Se-D	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Si-D	mg/L		4.03	4.42	4.38	5.01	5.65	4.21	3.99	3.76	3.99
Na-D	mg/L		1.61	1.79	1.75	2.00	2.56	1.66	1.42	1.37	1.37
Sr-D	mg/L		0.0192	0.0232	0.0232	0.0288	0.0317	0.0191	0.0152	0.0150	0.0146
Zn-D	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Table 25 Discharge From Settling Pond #4 (WD) 2 Page(s)

EMS ID E207409												
Discharge From Settling Pond #4 (SP4/WD)												
Date	April		April		May		May		June		June	
	Max. (m³/s)	Daily (m³/s)	Max. (m³/s)	Daily (m³/s)	Max. (m³/s)	Daily (m³/s)	Max. (m³/s)	Daily (m³/s)	Max. (m³/s)	Daily (m³/s)	Max. (m³/s)	Daily (m³/s)
1	0.1470	0.1370	0.1520	0.1420	0.1520	0.1450	0.1850	0.1700	0.0820	0.0760	0.0490	0.0320
2	0.1470	0.1380	0.1420	0.1340	0.1810	0.1640	0.1650	0.0720	0.0830	0.0760	0.0230	0.0100
3	0.1290	0.1090	0.1460	0.1360	0.1730	0.1590	0.0180	0.0090	0.0820	0.0750	0.0140	0.0110
4	0.1300	0.1110	0.1600	0.1450	0.1700	0.1530	0.0150	0.0090	0.0830	0.0760	0.0150	0.0130
5	0.0990	0.0800	0.1360	0.1270	0.1470	0.1380	0.0160	0.0090	0.0830	0.0780	0.0180	0.0120
6	0.1240	0.0930	0.1520	0.1410	0.1540	0.1390	0.0570	0.0160	0.0830	0.0790	0.0160	0.0130
7	0.1380	0.1230	0.1570	0.1450	0.1500	0.1350	0.1900	0.1320	0.0830	0.0790	0.0260	0.0180
8	0.1520	0.1270	0.1350	0.1200	0.1430	0.1350	0.2020	0.1980	0.0820	0.0750	0.0610	0.0600
9	0.1030	0.0820	0.1350	0.1280	0.1600	0.1440	0.1940	0.1870	0.0820	0.0740	PNC	PNC
10	0.1510	0.1280	0.1370	0.1280	0.1580	0.1450	0.1870	0.1840	0.0660	0.0530	PNC	PNC
11	0.1470	0.1390	0.1640	0.1400	0.1870	0.1650	0.1860	0.1830	0.0630	0.0440	PNC	PNC
12	0.1470	0.1360	0.1680	0.1520	0.1930	0.1880	0.1880	0.1850	0.0430	0.0150	PNC	PNC
13	0.1480	0.1360	0.1760	0.1630	0.1710	0.1150	0.1880	0.1850	0.0560	0.0440	0.0680	0.0630
14	0.1610	0.1430	0.1600	0.1420	0.1670	0.1540	0.1880	0.1840	0.0570	0.0450	0.0710	0.0670
15	0.1680	0.1510	0.1710	0.1580	0.1690	0.1630	0.1820	0.1630	0.0540	0.0430	PNC	PNC
16	0.1690	0.1530	0.1620	0.1520	0.1790	0.1670	0.1340	0.1190	0.0720	0.0550	0.0400	0.0380
17	0.1630	0.1460	0.1740	0.1630	0.1990	0.1840	0.1170	0.1020	0.0760	0.0670	0.0720	0.0640
18	0.1720	0.1540	0.1840	0.1560	0.2100	0.2040	0.1140	0.0830	0.0750	0.0690	0.0780	0.0780
19	0.1570	0.1420	0.1310	0.1010	0.2100	0.2070	0.0530	0.0290	0.0760	0.0680	0.0740	0.0700
20	0.1660	0.1480	0.1440	0.1350	0.2100	0.2080	0.0680	0.0510	0.0750	0.0660	0.0720	0.0690
21	0.1680	0.1520	0.1310	0.0880	0.2100	0.2060	0.0590	0.0480	0.0750	0.0670	0.0600	0.0440
22	0.1680	0.1440	0.0970	0.0810	0.2100	0.2020	0.0550	0.0440	0.0750	0.0660	0.0700	0.0650
23	0.1590	0.1280	0.0870	0.0780	0.2030	0.1960	0.0580	0.0510	0.0750	0.0640	0.2330	0.0360
24	0.1670	0.1470	0.0850	0.0810	0.2030	0.1960	0.0580	0.0500	0.0730	0.0640	0.0430	0.0290
25	0.1530	0.1430	0.0970	0.0870	0.1850	0.1720	0.0600	0.0480	0.0740	0.0630	0.2330	0.0440
26	0.1410	0.1330	0.1550	0.1130	0.1840	0.1550	0.0770	0.0540	0.0740	0.0690	0.0170	0.0120
27	0.1550	0.1380	0.1910	0.1730	0.2040	0.1970	0.0820	0.0740	0.0750	0.0650	0.0200	0.0160
28	0.1550	0.1400	0.1490	0.1440	0.2040	0.2020	0.0820	0.0760	0.0730	0.0640	0.0200	0.0090
29	0.1540	0.1450	0.1510	0.1380	0.2050	0.2020	0.0830	0.0750	0.0740	0.0650	0.0060	0.0010
30	0.1370	0.1320	0.1700	0.1510	0.2050	0.1940	0.0830	0.0760	0.0730	0.0680	0.0300	0.0080
31			0.1790	0.1580			0.0830	0.0770	0.0730	0.0540		
Monthly Max	0.1720		0.1910		0.2100		0.2020		0.0830		0.2330	
Monthly Avg	0.1326		0.1323		0.1711		0.0949		0.0634		0.0353	
TSS is required weekly when max daily flow > 0.054 m³/s												
NF= No Flow	PNC= Permit Non-compliance		All flow data is subject to review									

Table 25 Discharge From Settling Pond #4 (WD) 2 Page(s)

EMS ID E207409												
Discharge From Settling Pond #4 (SP4/WD)												
Date	October	October	November	November	December	December	January	January	February	February	March	March
	Max. (m3/s)	Daily (m3/s)	Max. (m3/s)	Daily (m3/s)	Max. (m3/s)	Daily (m3/s)	Max. (m3/s)	Daily (m3/s)	Max. (m3/s)	Daily (m3/s)	Max. (m3/s)	Daily (m3/s)
1	0.0320	0.0140	0.1340	0.0880	0.1790	0.1650	0.128	0.102	0.1220	0.1040	0.1150	0.0970
2	0.0430	0.0240	0.1090	0.0950	0.1990	0.1920	0.126	0.109	0.1290	0.1020	0.1110	0.0990
3	0.0040	0.0010	0.1110	0.0760	0.1950	0.1700	0.118	0.089	0.1120	0.0990	0.1300	0.1030
4	0.0030	0.0010	0.1390	0.1070	0.1720	0.1560	0.106	0.097	0.1010	0.0910	0.1360	0.1160
5	0.0350	0.0140	0.1560	0.1530	0.1400	0.1120	0.109	0.092	0.1290	0.1040	0.1360	0.1260
6	0.0380	0.0290	0.1510	0.1440	0.1350	0.1230	0.1	0.091	0.1100	0.0980	0.1320	0.1130
7	0.0610	0.0330	0.1700	0.1540	0.1300	0.0960	0.104	0.095	0.1090	0.0990	0.1280	0.1050
8	0.0690	0.0570	0.1620	0.1250	0.1360	0.1240	0.066	0.023	0.1160	0.0980	0.1330	0.1100
9	0.0350	0.0300	0.1460	0.1320	0.1360	0.1020	0.094	0.082	0.1240	0.1040	0.1080	0.0550
10	0.0390	0.0330	0.1460	0.1430	0.1300	0.1170	0.087	0.07	0.1300	0.1190	0.1220	0.0970
11	0.0520	0.0350	0.1380	0.1290	0.1530	0.1260	0.129	0.099	0.1510	0.1250	0.1080	0.0970
12	0.0620	0.0510	0.1550	0.1390	0.1580	0.1440	0.138	0.123	0.1430	0.1270	0.1070	0.1010
13	0.0480	0.0440	0.1550	0.1480	0.1450	0.1310	0.151	0.144	0.1370	0.1290	0.1470	0.1330
14	0.0430	0.0280	0.1460	0.1270	0.1330	0.0910	0.15	0.142	0.1310	0.1190	0.1450	0.1380
15	0.0270	0.0170	0.1500	0.1420	0.1210	0.1060	0.151	0.144	0.1390	0.1280	0.1360	0.1300
16	0.0740	0.0480	0.1920	0.1740	0.1240	0.0760	0.149	0.146	0.1330	0.1130	0.1310	0.1240
17	0.1010	0.0800	0.1650	0.1460	0.1290	0.1030	0.152	0.145	0.1320	0.1110	0.1320	0.1160
18	0.0790	0.0760	0.1480	0.1390	0.1140	0.1000	0.154	0.14	0.1370	0.1130	0.1310	0.1220
19	0.0730	0.0670	0.1540	0.1400	0.1370	0.1180	0.134	0.12	0.1400	0.1180	0.1340	0.1190
20	0.0710	0.0610	0.1490	0.1380	0.1150	0.0990	0.137	0.125	0.1410	0.1310	0.1360	0.1290
21	0.0900	0.0790	0.1430	0.1340	0.1360	0.1110	0.161	0.154	0.1360	0.1220	0.1300	0.1150
22	0.1050	0.0930	0.1370	0.1250	0.1200	0.0990	0.167	0.159	0.1310	0.1180	0.1240	0.0790
23	0.1320	0.1220	0.1410	0.1350	0.1430	0.1270	0.164	0.155	0.1320	0.1170	0.1340	0.1100
24	0.1750	0.1270	0.1630	0.1350	0.1390	0.1340	0.148	0.126	0.1280	0.1090	0.0830	0.0780
25	0.2330	0.2150	0.1320	0.1270	0.1480	0.0900	0.137	0.121	0.0980	0.0880	0.0820	0.0740
26	0.1930	0.1500	0.1660	0.1500	0.1480	0.1270	0.136	0.127	0.0910	0.0840	0.0850	0.0800
27	0.1980	0.1720	0.1620	0.1550	0.1340	0.1080	0.137	0.117	0.0890	0.0850	0.0980	0.0860
28	0.1430	0.1320	0.1850	0.1590	0.1300	0.1050	0.132	0.111	0.1200	0.0910	0.1000	0.0860
29	0.1400	0.1250	0.1950	0.1750	0.1230	0.1080	0.129	0.117			0.1560	0.1080
30	0.1120	0.1020	0.1960	0.1700	0.1330	0.1030	0.12	0.104			0.1650	0.1530
31	0.1350	0.1140			0.1310	0.1150	0.132	0.114			0.1490	0.1400
Monthly Max	0.2330		0.1960		0.1990		0.1870		0.1440		0.1960	
Monthly Avg		0.0701		0.1368		0.1186		0.0753		0.0552		0.0526
TSS is required weekly when max daily flow > 0.054 m ³ /s												
NF= No Flow PNC= Permit Non-compliance All flow data is subject to review												

Table 26 Discharge From Settling Pond # 1 (SPD) 2 Page(s)

EMS ID E218582												
Discharge From Settling Pond #1 (SP1/SPD)												
Date	April	April	May	May	June	June	July	July	August	August	September	September
	Max. (m ³ /s)	Daily (m ³ /s)	Max. (m ³ /s)	Daily (m ³ /s)	Max. (m ³ /s)	Daily (m ³ /s)	Max. (m ³ /s)	Daily (m ³ /s)	Max. (m ³ /s)	Daily (m ³ /s)	Max. (m ³ /s)	Daily (m ³ /s)
1	0.0250	0.0123	0.0250	0.0109	0.0091	0.0025	NF	NF	NF	NF	NF	NF
2	0.0250	0.0081	0.0250	0.0109	0.0160	0.0073	NF	NF	NF	NF	NF	NF
3	0.0250	0.0135	0.0091	0.0071	0.0160	0.0061	NF	NF	NF	NF	NF	NF
4	0.0250	0.0080	0.0250	0.0071	0.0091	0.0037	NF	NF	NF	NF	NF	NF
5	0.0250	0.0097	0.0250	0.0142	0.0032	0.0023	NF	NF	NF	NF	NF	NF
6	0.0250	0.0060	0.0091	0.0071	0.0032	0.0015	NF	NF	NF	NF	NF	NF
7	0.0250	0.0136	0.0091	0.0041	0.0160	0.0100	NF	NF	NF	NF	NF	NF
8	0.0091	0.0047	0.0250	0.0157	0.0091	0.0061	NF	NF	NF	NF	NF	NF
9	0.0250	0.0164	0.0160	0.0078	0.0160	0.0093	NF	NF	NF	NF	NF	NF
10	0.0160	0.0062	0.0091	0.0041	0.0341	0.0137	NF	NF	NF	NF	NF	NF
11	0.0250	0.0099	0.0091	0.0030	0.0341	0.0160	NF	NF	NF	NF	NF	NF
12	0.0160	0.0099	0.0341	0.0158	0.0091	0.0073	NF	NF	NF	NF	NF	NF
13	0.0160	0.0077	0.0091	0.0061	0.0091	0.0070	NF	NF	NF	NF	NF	NF
14	0.0341	0.0193	0.0091	0.0035	0.0250	0.0118	NF	NF	NF	NF	NF	NF
15	0.0160	0.0099	0.0250	0.0057	0.0250	0.0131	NF	NF	NF	NF	NF	NF
16	0.0341	0.0120	0.0250	0.0129	0.0091	0.0074	NF	NF	NF	NF	NF	NF
17	0.0341	0.0152	0.0091	0.0059	0.0091	0.0050	NF	NF	NF	NF	NF	NF
18	0.0160	0.0084	0.0091	0.0037	0.0091	0.0032	NF	NF	NF	NF	NF	NF
19	0.0250	0.0136	0.0250	0.0077	0.0091	0.0060	NF	NF	NF	NF	NF	NF
20	0.0160	0.0063	0.0250	0.0096	0.0091	0.0059	NF	NF	NF	NF	NF	NF
21	0.0091	0.0034	0.0091	0.0033	0.0091	0.0039	NF	NF	NF	NF	NF	NF
22	0.0091	0.0030	0.0032	0.0024	0.0160	0.0097	NF	NF	NF	NF	0.0250	0.0162
23	0.0032	0.0022	0.0032	0.0013	0.0160	0.0075	NF	NF	NF	NF	0.0160	0.0083
24	0.0091	0.0040	0.0160	0.0128	0.0091	0.0040	NF	NF	NF	NF	0.0091	0.0032
25	0.0091	0.0067	0.0250	0.0150	0.0032	0.0032	NF	NF	NF	NF	0.0032	0.0023
26	0.0091	0.0052	0.0160	0.0081	0.0032	0.0020	NF	NF	NF	NF	0.0091	0.0042
27	0.0091	0.0051	0.0091	0.0043	0.0032	0.0010	NF	NF	NF	NF	0.0091	0.0051
28	0.0341	0.0183	0.0091	0.0025	0.0000	0.0001	NF	NF	NF	NF	0.0250	0.0098
29	0.0160	0.0105	0.0250	0.0064	NF	NF	NF	NF	NF	NF	0.0160	0.0096
30	0.0091	0.0069	0.0250	0.0125	NF	NF	NF	NF	NF	NF	0.0091	0.0073
31			0.0091	0.0040			NF	NF	NF	NF		
Monthly Max	0.0341		0.0341		0.0341		0.0000		0.0000		0.0250	
Monthly Avg		0.0092		0.0076		0.0063		0.0000		0.0000		0.0073
PNC = Permit Non-compliance												
TSS is required weekly when max daily flow > 0.046m ³ /s												
NF= No Flow All flow data is subject to review												

Table 26 Discharge From Settling Pond # 1 (SPD) 2 Page(s)

EMS ID E218582												
Discharge From Settling Pond #1 (SP1/SPD)												
Date	October	October	November	November	December	December	January	January	February	February	March	March
	Max. (m3/s)	Daily (m3/s)	Max. (m3/s)	Daily (m3/s)	Max. (m3/s)	Daily (m3/s)	Max. (m3/s)	Daily (m3/s)	Max. (m3/s)	Daily (m3/s)	Max. (m3/s)	Daily (m3/s)
1	0.0091	0.0033	0.0700	0.0325	0.1200	0.1019	0.1816	0.0329	0.0639	0.0515	0.0700	0.0362
2	0.0250	0.0095	0.0700	0.0376	0.1200	0.0864	0.1279	0.0742	0.0443	0.0370	0.1000	0.0536
3	0.0250	0.0109	0.1100	0.0927	0.0900	0.0698	0.0341	0.0200	0.0341	0.0266	0.1000	0.0642
4	0.0091	0.0044	0.1300	0.1092	0.0900	0.0582	0.0341	0.0087	0.0160	0.0095	0.0800	0.0522
5	0.0091	0.0049	0.1100	0.0905	0.0500	0.0215	0.0091	0.0020	0.0160	0.0117	0.0500	0.0296
6	0.0091	0.0032	0.0800	0.0561	0.0600	0.0251	0.0032	0.0024	0.0160	0.0125	0.0700	0.0282
7	0.0091	0.0050	0.1000	0.0808	0.0600	0.0431	0.0032	0.0015	0.0443	0.0259	0.0600	0.0312
8	0.0091	0.0080	0.1000	0.0821	0.0700	0.0462	0.0032	0.0024	0.0764	0.0444	0.0700	0.0327
9	0.0250	0.0157	0.1200	0.0936	0.0600	0.0438	0.0032	0.0025	0.0877	0.0824	0.0500	0.0187
10	0.0160	0.0132	0.1200	0.0994	0.1000	0.0573	0.0250	0.0068	0.0764	0.0556	0.0500	0.0228
11	0.0160	0.0083	0.1100	0.0801	0.1000	0.0707	0.0534	0.0327	0.0443	0.0327	0.0600	0.0253
12	0.0341	0.0241	0.0900	0.0677	0.0600	0.0362	0.1185	0.0806	0.0443	0.0324	0.0500	0.0194
13	0.0160	0.0116	0.1000	0.0753	0.0800	0.0273	0.1088	0.0874	0.0534	0.0440	0.0600	0.0246
14	0.0091	0.0084	0.1000	0.0798	0.0500	0.0212	0.0764	0.0650	0.0534	0.0402	0.0500	0.0219
15	0.0341	0.0120	0.1100	0.0817	0.0500	0.0211	0.0534	0.0542	0.0443	0.0273	0.0500	0.0234
16	0.0341	0.0286	0.1000	0.0623	0.0300	0.0138	0.0534	0.0493	0.0639	0.0508	0.0600	0.0233
17	0.0250	0.0193	0.1000	0.0735	0.0800	0.0338	0.0534	0.0486	0.0764	0.0623	0.0700	0.0451
18	0.0443	0.0271	0.0900	0.0621	0.0800	0.0472	0.0534	0.0466	0.0639	0.0436	0.0600	0.0225
19	0.0160	0.0150	0.0900	0.0712	0.0300	0.0126	0.0639	0.0508	0.0250	0.0212	0.0500	0.0153
20	0.0160	0.0090	0.0800	0.0504	0.0200	0.0092	0.0877	0.0798	0.0341	0.0255	0.0600	0.0226
21	0.0250	0.0173	0.0400	0.0177	0.3000	0.0075	0.0639	0.0511	0.0534	0.0324	0.0300	0.0123
22	0.0443	0.0306	0.0300	0.0152	0.0300	0.0090	0.0534	0.0449	0.0639	0.0300	0.0600	0.0275
23	0.0160	0.0151	0.0300	0.0155	0.0500	0.0178	0.0443	0.0379	0.0764	0.0410	0.0600	0.0194
24	0.1382	0.0606	0.0800	0.0265	0.0600	0.0226	0.0341	0.0332	0.0443	0.0218	0.0800	0.0483
25	0.1970	0.1784	0.1000	0.0796	0.0600	0.0185	0.0341	0.0298	0.0341	0.0234	0.0700	0.0386
26	0.1522	0.1195	0.0900	0.0688	0.0600	0.0220	0.0341	0.0281	0.0160	0.0150	0.0300	0.0159
27	0.1088	0.0920	0.1400	0.0825	0.0400	0.0124	0.0341	0.0236	0.0443	0.0270	0.0600	0.0316
28	0.0877	0.0779	0.1300	0.1184	0.0400	0.0130	0.0250	0.0197	0.0250	0.0215	0.0400	0.0192
29	0.0764	0.0661	0.1300	0.1055	0.0200	0.0071	0.0091	0.0078			0.0600	0.0315
30	0.0639	0.0596	0.1200	0.1003	0.0500	0.0146	0.0341	0.0163			0.0400	0.0166
31	0.0534	0.0365			0.0200	0.0057	0.0534	0.0439			0.0300	0.0129
Monthly Max	0.1970		0.140		0.3000		0.182		0.0877		0.100	
Monthly Avg		0.032		0.070		0.032		0.035		0.034		0.029
PNC = Permit Non-compliance												
TSS is required weekly when max daily flow > 0.046m ³ /s												
NF= No Flow All flow data is subject to revisions												

Table 27 Discharge From 7 South Surface Decant Pond (7SSD) 1 Page(s)

EMS ID E292069 Discharge From 7 South Surface Decant Pond (7SSD)												
Date	April	May	June	July	August	September	October	November	December	January	February	March
	Daily Average L/S			Daily Average L/S			Daily Average L/S			Daily Average L/S		
1	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
2	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
3	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
4	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
5	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
6	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
7	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
8	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
9	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
10	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
11	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
12	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
13	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
14	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
15	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
16	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
17	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
18	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
19	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
20	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
21	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
22	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
23	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
24	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
25	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
26	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
27	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
28	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
29	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF		NF
30	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF		NF
31	NF	NF	NF	NF	NF		NF	NF	NF	NF		NF
Monthly Avg	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Annual Avg												
Cummulative Daily Totalizer Value												
For Maximum Decant Flow (5.00 L/s)												

Table 28 2S Inflow and Outflow 1 Page(s)

EMS ID: E292127 2-South Pit Continuous Inflow and Outflow													EMS ID: E292127 2-South Pit Continuous Inflow and Outflow												
2S Inflow													2S Outflow Culvert into 3S Pit												
Date	April Q (L/s)	May Q (L/s)	June Q (L/s)	July Q (L/s)	August Q (L/s)	September Q (L/s)	October Q (L/s)	November Q (L/s)	December Q (L/s)	January Q (L/s)	February Q (L/s)	March Q (L/s)	Date	April Q (L/s)	May Q (L/s)	June Q (L/s)	July Q (L/s)	August Q (L/s)	September Q (L/s)	October Q (L/s)	November Q (L/s)	December Q (L/s)	January Q (L/s)	February Q (L/s)	March Q (L/s)
1	12.314	11.861	1.94	12.65	20.49	0.00	5.283	19.355	31.169	11.687	14.537	23.619	1	6.421	4.660	3.553	3.57	3.480	2.97	3.805	17.143	26.123	6.309	8.184	8.183
2	12.248	11.286	1.90	11.65	20.08	0.00	5.978	22.879	23.753	12.971	13.790	23.925	2	6.410	4.709	3.718	3.38	3.465	2.89	4.133	18.336	23.998	9.620	8.170	9.823
3	12.694	11.521	1.83	6.15	15.93	0.00	5.944	36.299	19.104	16.768	14.607	20.561	3	6.418	4.989	3.456	3.32	3.433	3.32	3.683	35.920	20.327	6.541	7.880	10.526
4	12.243	11.359	1.86	3.32	8.32	0.00	9.052	40.954	18.087	16.405	16.148	19.533	4	5.846	4.418	3.855	3.29	3.433	3.46	3.989	42.737	16.987	6.173	7.860	10.247
5	11.991	10.550	1.94	2.31	10.95	0.00	17.091	32.765	15.405	12.297	16.170	18.372	5	5.616	4.995	3.704	3.12	3.492	3.14	4.279	39.344	14.283	5.956	7.640	9.857
6	11.810	11.380	1.67	1.51	17.53	0.00	16.249	28.959	14.931	11.452	14.387	17.475	6	5.861	4.936	3.843	3.06	3.835	3.05	4.379	35.096	9.800	6.239	7.867	9.515
7	12.503	11.134	1.70	1.35	18.50	0.00	15.224	26.191	17.193	16.508	19.282	15.525	7	5.718	4.458	3.715	3.13	4.044	2.80	4.511	27.730	10.800	5.987	7.867	9.099
8	12.476	10.663	1.86	1.18	17.12	0.00	15.731	21.716	21.458	14.163	20.423	15.987	8	5.531	4.787	3.811	3.00	3.561	3.36	4.560	18.009	10.242	5.781	8.903	8.395
9	12.728	10.959	2.21	1.04	16.12	0.06	15.198	35.503	19.987	12.563	24.518	15.277	9	5.856	4.510	3.965	3.05	3.486	3.26	4.671	19.194	9.478	5.855	10.882	7.721
10	13.744	10.755	14.73	0.95	17.02	0.10	14.958	26.478	20.558	15.736	23.487	14.087	10	5.480	4.254	3.884	3.00	3.488	2.97	4.445	20.124	9.555	6.573	12.711	8.061
11	13.128	9.974	14.79	0.74	12.71	0.17	13.090	22.528	26.586	22.118	21.119	13.137	11	5.180	4.249	4.154	2.93	3.437	3.44	4.168	18.437	11.216	7.819	13.559	7.850
12	12.704	10.423	11.33	0.41	5.44	0.42	5.451	22.171	22.642	36.696	18.545	13.504	12	5.056	4.271	4.178	2.93	3.286	2.94	4.651	15.976	11.613	28.295	13.254	7.751
13	12.833	9.601	11.49	0.21	4.73	0.30	5.114	21.693	19.626	38.982	16.363	16.437	13	4.933	3.912	3.875	2.93	3.212	2.85	4.473	15.254	11.739	57.326	12.792	7.560
14	12.372	9.478	11.06	0.42	4.53	0.48	6.583	29.459	16.835	28.346	18.650	15.426	14	4.837	3.944	3.788	2.93	3.234	3.41	4.354	16.946	11.033	48.579	11.518	7.290
15	11.907	9.330	11.69	0.35	4.69	0.66	10.106	27.709	18.523	24.993	15.125	16.821	15	4.835	3.941	3.826	3.02	3.583	2.91	4.549	18.348	10.954	43.384	10.888	7.264
16	12.492	9.216	11.18	6.23	4.34	0.40	13.768	22.086	18.340	21.775	15.413	14.827	16	4.775	4.061	3.567	3.39	3.554	3.02	5.079	17.931	10.304	39.875	10.168	7.204
17	12.091	10.774	10.53	11.51	2.39	1.21	13.549	15.863	15.835	23.756	13.949	14.657	17	4.736	4.320	3.559	3.36	3.218	4.66	5.159	16.057	9.831	39.531	9.979	7.052
18	11.968	12.347	10.40	11.73	1.56	1.42	15.568	15.778	16.422	24.247	13.009	14.030	18	4.684	4.182	3.441	3.53	3.332	3.49	5.209	14.411	9.764	38.632	9.941	7.030
19	11.585	10.567	11.09	12.71	1.33	1.37	19.565	15.010	15.908	25.733	14.204	14.843	19	5.386	3.983	3.832	3.49	3.119	3.33	5.364	12.565	9.107	37.796	9.823	6.433
20	10.795	7.102	10.99	12.64	1.00	1.22	17.988	13.856	15.374	45.118	15.278	13.874	20	4.603	3.900	3.349	3.67	3.260	3.44	5.262	11.219	8.661	49.128	9.848	6.763
21	10.553	3.688	6.77	16.25	0.82	4.71	19.212	13.374	13.628	29.012	15.222	14.378	21	4.664	3.783	3.297	3.61	3.205	3.21	6.121	10.357	8.228	37.820	9.465	6.768
22	11.111	2.615	2.41	23.80	0.63	6.89	21.229	14.846	17.011	21.594	14.606	14.779	22	4.486	3.737	3.255	3.54	3.100	3.19	5.954	9.957	8.396	37.383	8.754	6.785
23	10.983	2.268	1.98	33.31	0.37	3.47	19.339	20.484	16.357	19.075	17.781	15.468	23	4.991	3.861	3.271	3.88	3.063	3.33	6.260	9.535	7.903	32.421	8.459	6.250
24	11.313	2.977	1.92	29.13	0.20	2.30	42.081	23.284	16.583	18.851	24.383	13.647	24	5.182	4.437	3.241	3.97	3.035	3.25	11.352	9.249	7.787	27.526	8.314	6.268
25	12.493	4.584	3.07	23.01	0.11	1.73	78.061	34.837	15.752	17.250	17.049	13.820	25	5.289	4.285	3.048	3.71	3.270	3.42	37.142	11.917	7.436	24.506	8.155	6.255
26	11.482	2.566	3.16	16.53	0.14	2.16	44.243	28.520	15.504	17.485	14.113	14.754	26	4.797	4.350	3.038	3.67	3.543	3.47	52.859	13.559	7.126	22.023	8.196	6.455
27	10.705	3.391	3.09	4.96	0.24	2.87	32.928	36.990	14.802	15.611	18.113	17.881	27	5.092	4.245	3.048	3.35	3.079	3.68	42.511	16.262	7.123	18.660	7.896	6.831
28	11.465	2.762	3.02	2.21	0.11	4.87	26.511	43.977	14.166	14.718	20.197	18.234	28	5.208	3.764	3.071	3.07	3.230	3.30	32.836	23.408	6.922	15.883	7.926	6.280
29	11.858	2.267	7.90	5.10	0.04	5.39	23.677	30.721	13.441	13.819		16.258	29	4.981	3.544	3.086	2.96	2.955	3.69	25.438	23.828	6.672	10.900		6.709
30	12.301	2.721	13.77	20.72	0.02	7.31	20.284	32.675	14.417	17.160		15.889	30	4.687	4.212	3.258	2.97	3.453	4.01	20.955	24.352	6.550	10.251		6.531
31		2.38		20.70	0.01		19.307		14.023	17.001		15.048	31		3.799		3.45	3.079		18.108		6.239	8.972		6.696

Table 29 Flow Tables LLE, LLS, LLSM, WA, WB, LLO, 7S, IR8, S1 and S2 9 Page(s)

Weekly Flow Requirements (L/s)												
EMS ID:		E292130										
Site		LLE										
Flow (L/S)												
Date	April	May	June	July	August	September	October	November	December	January	February	March
1	18	11	5	NF	NF	NF	NF	71	389	26	79	103
2	18	11	3	NF	NF	NF	1	62	329	24	69	182
3	16	11	3	NF	NF	NF	1	298	166	39	0	190
4	16	9	3	NF	NF	NF	NF	488	123	40	0	156
5	9	9	3	NF	NF	NF	1	411	521	527	0	120
6	10	9	3	NF	NF	NF	1	279	82	371	0	85
7	10	7	3	NF	2.20	NF	2	182	74	26	82	67
8	9	7	3	NF	2.30	NF	2	164	96		113	56
9	9	6	6	NF	1.90	NF	2	280	84		238	56
10	12	12	23	NF	0.80	NF	2	383	277	22	278	60
11	10	22	40	NF	0.80	NF	2	250	212	84	216	41
12	12	26	14	NF	0.70	NF	2	167	263	263	202	44
199	18	23	12	NF	0.60	NF	3	158	122	477	152	48
14	16	22	11	NF	0.60	NF	3	287	114	371	149	49
15	16	21	10	NF	0.70	NF	2	339	110	246	120	50
16	16	21	6	NF	0.80	NF	3	224	117	158	117	50
17	16	15	7	NF	0.50	NF	39	142	911	128	148	46
18	14	4	7	NF	NF	NF	28	108	118	122	138	51
19	12	4	7	NF	NF	1.80	17	88	474	125	106	37
20	12	4	5	NF	NF	1.80	15	68	23	352	104	13
21	12	4	7	NF	NF	0.60	25	46	23	337	109	4
22	11	3	6	NF	NF	0.40	58	29	31	171	59	13
23	12	3	4	NF	NF	0.10	77	28	35	464		87
24	14	3	3	NF	NF	0.20	155	25	45	97	62	38
25	17	5	3	NF	NF	0.20	988	86	37	772	122	48
26	14	7	3	NF	NF	0.20	957	151	27	742	50	45
27	11	7	2	NF	NF	0.50	545	175	27	1115	61	40
28	11	6	2	NF	NF	0.80	279	395	27	1027	80	47
29	14	2	2	NF	NF	0.60	169	342	26	44		43
30	13	1	2	NF	NF	0.70	128	315	26	44		42
31		6		NF	NF		94		27	100		35
Notes: NF= No flow												

Table 29 Flow Tables LLE, LLS, LLSM, WA, WB, LLO, 7S, IR8, S1 and S2 9 Page(s)

Weekly Flow Requirements (L/s)					
EMS ID:		E292131			
Site		LLS			
Flow (L/S)		Estimated Flow		Flow (L/S)	
Weeks	Level	L/s		Weeks	Level
06-Apr-21	0.010	0.600		05-Oct-21	0.010
13-Apr-21	0.010	0.600		12-Oct-21	0.010
20-Apr-21	0.010	0.600		19-Oct-21	0.010
27-Apr-21	0.010	0.600		26-Oct-21	0.010
04-May-21	0.010	0.600		02-Nov-21	0.010
11-May-21	0.010	0.600		09-Nov-21	0.010
18-May-21	0.010	0.600		16-Nov-21	0.010
25-May-21	0.010	0.600		23-Nov-21	0.010
01-Jun-21	0.010	0.600		30-Nov-21	0.010
08-Jun-21	0.010	0.600		07-Dec-21	0.010
15-Jun-21	0.010	0.600		14-Dec-21	0.010
22-Jun-21	0.010	0.600		21-Dec-21	0.010
29-Jun-21	0.010	0.600		28-Dec-21	0.010
06-Jul-21	0.010	0.600		04-Jan-22	0.010
13-Jul-21	0.010	0.600		11-Jan-22	0.010
20-Jul-21	0.010	0.600		18-Jan-22	0.010
27-Jul-21	0.010	0.600		25-Jan-22	0.010
03-Aug-21	0.010	0.600		01-Feb-22	0.030
10-Aug-21	0.010	0.600		08-Feb-22	0.010
17-Aug-21	0.010	0.600		15-Feb-22	0.010
24-Aug-21	0.010	0.600		22-Feb-22	0.010
31-Aug-21	0.010	0.600		01-Mar-22	0.010
07-Sep-21	0.010	0.600		08-Mar-22	0.010
14-Sep-21	0.010	0.600		15-Mar-22	0.010
21-Sep-21	0.010	0.600		22-Mar-22	0.010
28-Sep-21	0.010	0.600		29-Mar-22	0.010

Notes: **NF= No flow**. Previous estimates of flow 0.018 L/s based on a level on 0.01m were incorrect. At a level of 0.01m is equal to 0.6L/s.

Table 29 Flow Tables LLE, LLS, LLSM, WA, WB, LLO, 7S, IR8, S1 and S2 9 Page(s)

Weekly Flow Requirements (L/s)												
EMS ID:		E292131										
Site		LLSM										
Flow (L/S)												
Date	April	May	June	July	August	September	October	November	December	January	February	March
1	5.81	2.62	2.11	0.91	0.3	NF	NF	1.50	27.40	7.00	19.58	11.00
2	4.78	2.62	2.29	0.54	0.3	NF	NF	1.60	39.10	7.40		14.60
3	4.83	2.62	2.29	0.54	0.3	NF	NF	2.20	49.10	6.90		20.50
4	4.32	2.62	2.29	0.54	0.3	NF	NF	6.40	49.10	6.70		17.20
5	4.32	2.62	2.32	0.54	0.3	NF	NF	2.60	49.10	6.00		15.50
6		2.62	2.26	0.54	0.1	NF	NF	3.20	47.30	5.90		15.10
7			2.33	0.91	0.1	NF	NF	5.20	30.90	5.50		14.70
8	3.84	2.62	2.25	0.54	0.1	NF	NF	7.10	21.50	5.20		14.10
9	3.87		2.29	0.54	0.1	NF	NF	10.50	19.30	5.20		13.70
10	3.87	2.29	2.29	0.54	0.1	NF	NF	11.40	18.80	4.60	16.29	12.80
11	3.87		2.29	0.54	0.1	NF	NF	13.20	21.20	4.70		12.10
12	3.87		2.31	0.54	0.1	0.1	NF	14.10	18.60	16.70	27.80	11.20
13	3.87	2.29	2.29	0.54	0.1	0.1	NF	15.70	18.60	24.50	27.80	11.00
14	3.87	2.29	2.29	0.54	0.1	0.1	NF	18.50	18.10	18.50	20.40	10.30
15	3.58	2.29	2.29	0.54	0.1	0.3	NF	22.00	17.20	18.40	15.90	10.00
16	3.02	2.29	2.29	0.54	NF	NF	NF	22.20	16.30	20.90	15.10	9.60
17	3.02	2.29	2.29	0.54	NF	NF	NF	22.20	15.60	24.60	15.70	9.10
18	3.02		2.29	0.54	NF	NF	NF	21.50	15.10	27.40	15.50	9.10
19	3.02	2.29	2.29	0.54	NF	NF	NF	20.20	14.20	28.50	15.30	9.00
20	2.99	2.29	2.29	0.54	NF	NF	NF	18.90	13.00	28.50	14.90	8.60
21	3.02	2.29	2.29	0.54	NF	NF	NF	17.70	12.40	28.50	14.30	8.10
22	3.02	2.29	2.26	0.54	NF	NF	NF	16.30	12.00	28.50	13.70	8.00
23	3.02	2.29	2.29	0.54	NF	NF	NF	15.00	11.30	28.50	13.50	7.60
24			2.29	0.26	NF	NF	15.40	14.10	10.50	33.20	13.00	7.20
25		2.29	2.31	0.26	NF	NF	24.90	16.90	9.90	38.00	12.30	7.20
26		2.29	2.23	0.26	NF	NF	3.50	15.90	9.40	38.00	11.50	7.20
27		2.29	2.29	0.26	NF	NF	0.80	22.10	8.70	38.00	11.00	7.20
28		2.29	2.29	0.26	NF	NF	0.90	27.40	8.60	37.70	10.50	7.20
29		2.29	2.29	0.26	NF	NF	1.10	27.40	8.40	34.80		7.20
30	2.62	2.29	0.89	0.26	NF	NF	1.20	27.40	8.00	31.30		7.00
31		2.26		0.26	NF		1.30		7.40	23.80		6.80
Notes: NF= No flow												

Table 29 Flow Tables LLE, LLS, LLSM, WA, WB, LLO, 7S, IR8, S1 and S2 9 Page(s)

Continuous Flow Requirements (L/s)												
EMS ID:		E292109										
Site		7S										
Flow (L/S)		Estimated Flow										
Date	April	May	June	July	August	September	October	November	December	January	February	March
1	18.24	8.15	1.35	NF	NF	NF	NF	1.58	24.40	1.27	6.52	10.16
2	13.54	7.48	1.07	NF	NF	NF	NF	1.91	12.75	1.77	6.01	11.60
3	13.93	7.39	0.79	NF	NF	NF	0.02	25.82	6.44	8.77	5.55	9.02
4	13.80	6.56	0.72	NF	NF	NF	0.02	29.14	4.55	5.49	5.56	6.89
5	14.00	5.47	0.76	NF	NF	NF	0.03	14.41	2.83	4.68	6.89	5.84
6	14.00	5.95	0.67	NF	NF	NF	0.03	15.71	2.71	3.56	6.61	5.00
7	15.00	5.69	0.83	NF	NF	NF	0.03	6.24	1.81	3.50	9.33	3.37
8	10.32	5.12	0.70	NF	NF	NF	0.05	4.68	2.19	3.16	13.07	3.36
9	13.87	4.51	0.94	NF	NF	NF	0.07	25.92	1.93	2.49	37.60	3.65
10	11.79	4.12	1.00	NF	NF	NF	0.06	17.26	2.09	5.39	27.32	3.28
11	11.20	3.62	0.68	NF	NF	NF	0.07	9.90	15.91	75.94	17.81	2.45
12	10.54	4.79	0.63	NF	NF	NF	0.04	6.49	8.42	484.79	10.71	2.58
13	10.17	4.47	0.95	NF	NF	NF	0.07	7.24	4.99	199.04	7.20	4.88
14	9.30	3.73	0.73	NF	NF	NF	0.06	42.36	3.35	82.32	6.33	3.51
15	5.10	3.01	0.84	NF	NF	NF	0.13	31.62	5.62	56.01	5.73	3.87
16	7.55	2.47	0.74	NF	NF	NF	0.59	11.24	11.24	40.75	5.85	3.09
17	6.85	2.55	0.59	NF	NF	NF	1.27	4.94	6.01	33.73	4.98	2.51
18	5.59	2.59	0.58	NF	NF	NF	0.76	3.69	4.07	32.56	4.35	2.14
19	4.78	2.20	0.60	NF	NF	NF	0.87	2.37	3.32	36.88	4.43	2.25
20	3.94	1.98	0.51	NF	NF	NF	0.34	1.93	3.09	255.41	4.64	2.09
21	3.59	1.79	0.44	NF	NF	NF	1.06	2.15	2.19	52.99	4.30	2.14
22	3.54	1.48	0.48	NF	NF	NF	2.32	2.15	2.12	24.79	4.58	2.97
23	3.59	1.34	0.54	NF	NF	NF	2.06	1.68	2.59	15.76	3.12	3.43
24	3.75	1.68	0.49	NF	NF	NF	13.39	1.82	2.65	11.16	3.17	2.82
25	5.24	2.19	0.41	NF	NF	NF	388.71	8.82	2.65	8.37	2.16	2.50
26	5.68	1.96	0.38	NF	NF	NF	46.87	10.75	2.93	6.98	1.71	2.59
27	5.12	2.64	0.34	NF	NF	NF	10.15	24.90	2.72	5.95	3.93	3.58
28	7.27	2.40	0.33	NF	NF	NF	5.45	48.10	2.27	5.06	9.11	4.85
29	8.60	2.06	0.35	NF	NF	NF	2.86	20.17	1.92	3.98		4.49
30	8.78	2.22	0.45	NF	NF	NF	2.70	21.47	1.76	5.17		3.88
31		1.86	0.00	NF	NF		2.00		1.94	7.66		3.43
Notes: NF= No flow												

Table 29 Flow Tables LLE, LLS, LLSM, WA, WB, LLO, 7S, IR8, S1 and S2 9 Page(s)

5 in 30 Flow Requirements (Level)												
EMS ID: 126402												
Site WA												
Flow (m ³ /s)												
Date	April	May	June	July	August	September	October	November	December	January	February	March
1	2.15	2.25	1.10	1.31	1.23	0.94	1.13	1.22	23.85	2.25	2.33	2.29
2	2.15	2.26	1.07	1.31	1.21	0.94	1.12	2.93	19.18	2.34	2.33	2.33
3	2.15	2.26	1.07	1.31	1.17	0.94	1.19	8.58	13.76	2.38	2.32	2.32
4	2.15	1.75	1.07	1.29	1.15	0.94	1.17	14.96	10.53	2.39	2.32	2.31
5	2.14	1.27	1.07	1.31	1.05	0.94	1.13	15.76	7.82	2.40	2.33	2.31
6	2.15	1.26	1.08	1.31	1.02	0.93	1.14	13.09	6.39	2.44	2.32	2.31
7	2.16	1.26	1.08	1.30	1.01	0.93	1.05	10.57	5.20	2.46	2.32	2.31
8	2.17	1.26	1.08	1.30	1.00	0.94	1.05	8.53	4.34	2.48	2.34	2.31
9	2.17	1.26	1.08	1.28	0.99	0.93	1.06	7.63	3.60	2.48	2.36	2.31
10	2.17	1.26	1.22	1.31	0.98	0.94	1.06	7.62	2.39	2.48	2.35	2.30
11	2.17	1.26	1.23	1.31	0.98	0.94	1.07	6.72	2.13	2.47	2.35	2.31
12	2.17	1.27	1.23	1.28	0.97	0.94	1.07	6.39	2.11	2.50	2.33	2.31
13	2.17	1.27	1.23	1.21	0.96	0.97	1.07	6.49	2.23	2.51	2.32	2.31
14	2.17	1.27	1.23	1.20	0.95	1.02	1.07	7.72	2.27	2.45	2.31	2.31
15	2.17	1.28	1.22	1.18	0.95	1.02	1.07	9.66	2.20	2.41	2.31	2.31
16	2.17	1.28	1.24	1.18	0.95	1.01	1.09	9.43	2.15	2.39	2.31	2.31
17	2.17	1.24	1.18	1.18	0.99	1.04	1.10	7.86	2.16	2.37	2.31	2.31
18	2.19	1.11	1.09	1.14	1.07	1.06	1.09	6.55	2.21	2.36	2.30	2.30
19	2.21	1.10	1.09	1.13	1.20	1.06	1.09	5.42	2.22	2.37	2.30	2.30
20	2.21	1.08	1.12	1.18	1.15	1.05	1.09	4.43	2.22	2.49	2.29	2.30
21	2.22	1.21	1.09	1.21	0.99	1.05	1.11	3.71	2.23	2.41	2.28	2.30
22	2.22	1.24	1.09	1.22	0.97	1.04	1.14	3.30	2.23	2.36	2.27	2.31
23	2.22	1.25	1.07	1.23	0.96	1.03	1.13	3.13	2.23	2.35	2.27	2.31
24	2.22	1.25	1.22	1.22	0.96	1.03	1.23	2.86	2.27	2.34	2.26	2.30
25	2.23	1.25	1.41	1.12	0.96	1.03	1.52	5.75	2.28	2.32	2.26	2.30
26	2.23	1.25	1.42	1.11	0.95	1.03	2.51	10.02	2.28	2.32	2.26	2.30
27	2.23	1.17	1.43	1.05	0.95	1.05	4.58	10.23	2.30	2.32	2.27	2.31
28	2.24	1.09	1.43	1.11	0.95	1.06	3.76	15.92	2.31	2.31	2.27	2.31
29	2.24	1.09	1.43	1.21	0.94	1.08	2.01	22.65	2.31	2.31		2.31
30	2.24	1.09	1.36	1.19	0.94	1.16	1.33	19.69	2.31	2.34		2.31
31		1.09		1.15	0.94		1.30		2.32	2.35		2.31

Table 29 Flow Tables LLE, LLS, LLSM, WA, WB, LLO, 7S, IR8, S1 and S2 9 Page(s)

5 in 30 Flow Requirements (Level)												
EMS ID: 900504												
Site WB												
Level (m)												
Date	April	May	June	July	August	September	October	November	December	January	February	March
1	0.5815	0.5736	0.4885	0.4989	0.4928	0.4610	0.4780	0.5761	1.2690	0.5990	0.6148	0.6018
2	0.5795	0.5735	0.4846	0.4958	0.4959	0.4590	0.4844	0.5780	1.2981	0.6075	0.6127	0.6171
3	0.5803	0.5723	0.4833	0.4927	0.4945	0.4572	0.4872	0.7241	1.1863	0.5986	0.6102	0.6336
4	0.5809	0.5673	0.4823	0.4892	0.4931	0.4569	0.4961	0.9782	1.0308	0.6033	0.6073	0.6429
5	0.5796	0.5389	0.4802	0.4871	0.4880	0.4551	0.4869	1.1471	0.9185	0.6001	0.6074	0.6408
6	0.5784	0.5150	0.4795	0.4900	0.4837	0.4536	0.4843	1.1149	0.8609	0.6018	0.6049	0.6337
7	0.5754	0.5083	0.4767	0.4845	0.4832	0.4554	0.4919	1.2293	0.7932	0.5997	0.6080	0.6241
8	0.5740	0.5067	0.4796	0.4847	0.4781	0.4589	0.4843	0.9588	0.7409	0.5966	0.6143	0.6169
9	0.5789	0.5058	0.4858	0.4873	0.4766	0.4624	0.4882	0.8908	0.7022	0.5936	0.6363	0.6133
10	0.5730	0.5044	0.4927	0.4874	0.4719	0.4602	0.4816	0.8996	0.6736	0.5936	0.6568	0.6114
11	0.5772	0.5033	0.4965	0.4892	0.4699	0.4626	0.4869	0.8793	0.6490	0.6061	0.6639	0.6094
12	0.5777	0.5049	0.4970	0.4831	0.4664	0.4647	0.4739	0.8374	0.6538	0.6477	0.6592	0.6066
13	0.5759	0.5050	0.4960	0.4791	0.4628	0.4620	0.4886	0.8351	0.6572	0.7499	0.6470	0.6048
14	0.5755	0.5031	0.4975	0.4909	0.4620	0.4639	0.4885	0.8560	0.6420	0.7790	0.6361	0.6068
15	0.5694	0.5016	0.4975	0.4893	0.4645	0.4612	0.4960	0.9192	0.6320	0.7527	0.6279	0.6020
16	0.5734	0.5009	0.5019	0.4891	0.4649	0.4631	0.5065	0.9630	0.6223	0.7194	0.6230	0.6069
17	0.5737	0.5000	0.4987	0.4874	0.4618	0.4774	0.5190	0.9295	0.6225	0.6975	0.6177	0.6070
18	0.5729	0.4920	0.4924	0.4866	0.4694	0.4835	0.5262	0.8618	0.6164	0.6858	0.6140	0.6100
19	0.5702	0.4894	0.4871	0.4845	0.4782	0.4758	0.5352	0.8012	0.6084	0.6795	0.6120	0.6013
20	0.5689	0.4839	0.4857	0.4693	0.4883	0.4774	0.5164	0.7542	0.6046	0.7352	0.6127	0.6015
21	0.5684	0.4828	0.4847	0.4878	0.4824	0.4746	0.5300	0.7205	0.6089	0.7898	0.6138	0.5973
22	0.5659	0.4897	0.4811	0.4903	0.4727	0.4653	0.5372	0.6878	0.6026	0.7550	0.6135	0.6052
23	0.5661	0.4900	0.4779	0.4913	0.4668	0.4662	0.5542	0.6666	0.6035	0.7068	0.6087	0.5982
24	0.5681	0.4923	0.4773	0.4944	0.4680	0.4668	0.5887	0.6611	0.6027	0.6727	0.6033	0.6040
25	0.5692	0.5014	0.4917	0.4925	0.4660	0.4626	0.7411	0.6992	0.6029	0.6489	0.5977	0.5986
26	0.5675	0.5042	0.4985	0.4864	0.4656	0.4667	0.8768	0.8855	0.6001	0.6339	0.5935	0.6010
27	0.5673	0.4998	0.5046	0.4816	0.4664	0.4634	0.8510	0.9687	0.6023	0.6231	0.5957	0.6049
28	0.5712	0.4934	0.5069	0.4810	0.4673	0.4654	0.8169	1.0998	0.5989	0.6149	0.5957	0.6050
29	0.5772	0.4907	0.5078	0.4886	0.4669	0.4706	0.7228	1.2415	0.5985	0.6080		0.6101
30	0.5768	0.4875	0.5038	0.4909	0.4638	0.4696	0.6522	1.2250	0.5923	0.6108		0.6095
31		0.4875		0.4906	0.4617		0.6055		0.5918	0.6151		0.6112
Notes: Flow curve is being developed as a result of high flows washing away hydrometric station												

Table 29 Flow Tables LLE, LLS, LLSM, WA, WB, LLO, 7S, IR8, S1 and S2 9 Page(s)

5 in 30 Flow Requirements (Level)												
EMS ID: E219412												
Site LLO												
Flow (m ³ /s)												
Date	April	May	June	July	August	September	October	November	December	January	February	March
1	0.1404	0.0723	0.0246	0.0000	0.0000	0.0000	0.0000	0.1006	0.9273		0.3481	0.2933
2	0.1267	0.0672	0.0167	0.0000	0.0000	0.0000	0.0000	0.0797	0.7496		0.3449	0.4250
3	0.1210	0.0598	0.0120	0.0000	0.0000	0.0000	0.0000	0.1543	0.4638	0.0019	0.3132	0.6053
4	0.1216	0.0558	0.0075	0.0000	0.0000	0.0000	0.0000	0.3724	0.2718	0.0583	0.2919	0.6592
5	0.1151	0.0564	0.0023	0.0000	0.0000	0.0000	0.0030	0.5858	0.1937	0.1836	0.2856	0.6087
6	0.1060	0.0448	0.0000	0.0000	0.0000	0.0000	0.0103	0.4758	0.1443	0.1855	0.3032	0.5381
7	0.0989	0.0418	0.0000	0.0000	0.0000	0.0000	0.0286	1.4948	0.1136	0.1391	0.2853	0.4831
8	0.0916	0.0408	0.0000	0.0000	0.0000	0.0000	0.0304	0.3281	0.0846	0.1335	0.3309	0.4379
9	0.0956	0.0394	0.0000	0.0000	0.0000	0.0000	0.0422	0.2732	0.0696	0.1274	0.4704	0.4184
10	0.0858	0.0359	0.0149	0.0000	0.0000	0.0000	0.0409	0.4130	0.0670	0.1366	0.6704	0.4004
11	0.0872	0.0329	0.0208	0.0000	0.0000	0.0000	0.0568	0.3937	0.1218	0.2259	0.7295	0.3759
12	0.0819	0.0347	0.0187	0.0000	0.0000	0.0000	0.0501	0.2757	0.2001	0.5014	0.6814	0.3550
13	0.0924	0.0352	0.0158	0.0000	0.0000	0.0000	0.0695	0.2405	0.1936	1.5581	0.5970	0.3307
14	0.0873	0.0316	0.0138	0.0000	0.0000	0.0000	0.0713	0.2829	0.1533	1.8694	0.4944	0.3459
15	0.0743	0.0278	0.0106	0.0000	0.0000	0.0000	0.0797	0.3701	0.1241	1.4270	0.4534	0.3452
16	0.0748	0.0246	0.0106	0.0000	0.0000	0.0000	0.1019	0.4106	0.1093	1.0835	0.4047	0.3902
17	0.0715	0.0205	0.0054	0.0000	0.0000	0.0000	0.1784	0.3294	0.1022	0.8788	0.3933	0.3977
18	0.0660	0.0162	0.0011	0.0000	0.0000	0.0000	0.2733	0.2229	0.0832	0.7853	0.3858	0.4064
19	0.0584	0.0186	0.0000	0.0000	0.0000	0.0000	0.3052	0.1570	0.0640	0.7697	0.3728	0.3671
20	0.0527	0.0132	0.0000	0.0000	0.0000	0.0000	0.2343	0.1234	0.0443	1.2181	0.3668	0.3400
21	0.0496	0.0097	0.0000	0.0000	0.0000	0.0000	0.2574	0.1026	0.0380	2.1052	0.3681	0.3024
22	0.0439	0.0083	0.0000	0.0000	0.0000	0.0000	0.3578	0.0746	0.0257	1.3958	0.3598	0.3254
23	0.0399	0.0036	0.0000	0.0000	0.0000	0.0000	0.5653	0.0580	0.0315	0.9420	0.3353	0.3402
24	0.0425	0.0031	0.0000	0.0000	0.0000	0.0000	0.7235	0.0610	0.0344	0.6929	0.2895	0.3792
25	0.0488	0.0228	0.0000	0.0000	0.0000	0.0000	7.1918	0.1061	0.0371	0.5648	0.2673	0.3494
26	0.0544	0.0329	0.0000	0.0000	0.0000	0.0000	13.6223	0.3607	0.0285	0.4606	0.2456	0.3418
27	0.0561	0.0301	0.0000	0.0000	0.0000	0.0000	1.8532	0.4502	0.0242	0.4064	0.2428	0.3490
28	0.0633	0.0311	0.0000	0.0000	0.0000	0.0000	0.5416	0.8862	0.0125	0.3549	0.2589	0.3747
29	0.0756	0.0297	0.0000	0.0000	0.0000	0.0000	0.2935	1.1001	0.0064	0.3147		0.4041
30	0.0787	0.0236	0.0000	0.0000	0.0000	0.0000	0.2242	0.7871		0.3010		0.3925
31		0.0230		0.4906	0.0000		0.1525			0.3152		0.3589

Table 29 Flow Tables LLE, LLS, LLSM, WA, WB, LLO, 7S, IR8, S1 and S2 9 Page(s)

5 in 30 Flow Requirements (Level)							
EMS ID: E297232							
Site IR8							
Flow (m³/s)							
Date	April	May	June	July	August	September	October through March
1	0.97	2.22	0.88	0.0131	4.4583	4.2967	Could not access site to download data for Q3 and Q4, due to snow. Pressure transducer washed away discovered April 25, 2022.
2	0.94	1.67	0.77	0.0059	4.4453	4.2666	
3	0.91	1.46	0.63	*	4.4535	4.2444	
4	0.92	1.43	0.52	*	4.4132	4.2693	
5	0.88	1.50	0.44	*	4.3873	4.3779	
6	0.86	1.58	0.38	*	4.3505	4.5490	
7	0.85	1.70	0.31	*	4.4211	4.6125	
8	0.85	1.26	0.30	*	4.7278	4.5632	
9	0.85	1.09	0.44	*	5.9445	4.7911	
10	0.79	1.27	0.67	0.1186	5.8119	4.9198	
11	0.74	1.34	0.62	*	5.2428	4.9568	
12	0.69	1.92	0.51	*	5.1186	5.0265	
13	0.68	1.91	0.48	5.8119	4.8711	5.3852	
14	0.72	1.85	0.41	*	4.6758	5.7737	
15	0.87	1.73	0.38	*	4.5662	5.6398	
16	1.39	1.81	0.45	*	4.5499	5.6785	
17	2.13	1.52	0.38	*	4.5702	5.6494	
18	2.74	1.30	0.32	*	4.4350	7.8814	
19	3.20	0.94	0.29	*	4.4388	21.5827	
20	2.66	0.82	0.25	2.1474	4.4094	15.2698	
21	2.68	0.94	0.21	1.0772	4.3658	15.1248	
22	2.43	1.09	0.18	4.8540	4.3219	13.2196	
23	2.04	1.23	0.15	4.8550	4.2651	11.5596	
24	2.33	1.20	0.13	4.8348	4.2182	10.7974	
25	2.24	1.38	0.11	4.8565	4.2423	9.9581	
26	2.11	1.01	0.09	4.8076	4.2080	9.1486	
27	1.81	0.92	0.07	4.7338	4.2630	9.5229	
28	1.69	0.91	0.05	4.6719	4.4380	14.0276	
29	2.26	0.84	0.04	4.6337	4.5168	22.6960	
30	2.88	0.84	0.02	4.5903	4.4675	18.8039	
31		0.86		4.5182	4.3565		
* Level Logger was out of water							

Table 29 Flow Tables LLE, LLS, LLSM, WA, WB, LLO, 7S, IR8, S1 and S2 9 Page(s)

[illegible]

Table 30 Precipitation 1 Page(s)

Daily Precipitation (mm)												
DATE	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR
1	0	1.5	0	0	0	0	1.5	0.0	21.9	0.3	0.1	1.1
2	0	0	0	0	0	0	0.0	4.2	8.3	0	0	10.9
3	0	0	0	0	0	0	8.3	20.9	0.2	5.3	0.6	0.2
4	4	0.8	0	0	0	0.1	0.2	15.5	0.1	2.2	2.4	0.3
5	0	0	0.3	0	0	3.9	4.1	15.6	0.0	0	2.7	0
6	0	0	1.5	0	0	0	4.4	12.6	0.0	0	0	0.1
7	0	1.2	0.2	0	1	0	1.9	3.0	0.1	0	0	0
8	1.4	0	0	0	11.8	0	0.3	8.2	6.1	0.1	0.8	0
9	0	0	7	0	0	7.5	4.6	4.3	4.3	0	11.3	0
10	5.1	0.2	10.7	0	0	3.1	7.0	21.8	1.6	2.5	3.2	0
11	0.1	0	3.9	0	0	0	0.3	2.0	19.1	34.2	0.1	0.4
12	0	1.4	0	0	0	9.1	0.0	5.4	4.6	6.5	0	3.3
13	0	4	1.8	0	0	0.1	3.4	0.3	0.0	22.4	0.1	7.5
14	0	0	1.3	0	0	0	1.0	18.4	1.2	1.9	0	0.1
15	0	0	0.8	0	0	7.5	0.9	7.5	2.6	0.1	0.7	0.8
16	0	0	2.5	0	1.7	0	8.0	8.4	15.1	0.1	0	1.9
17	0	0	0	0.7	0.4	0.2	13.6	0.0	2.6	1.6	0	0
18	0	3.2	0	0	0	40	4.0	0.0	0.0	2	0	1.3
19	0	0.3	0	0	0	3	0.1	1.6	6.7	0	0	0.1
20	0	0.1	0.5	0	0	5.8	0.0	4.1	0.1	13.6	1.1	0.2
21	0	0	0	4.9	0	1.3	0.7	3.1	0.1	9.7	0.1	0.1
22	0	0	0	0	0	0	22.9	0.0	0.0	0	0	6.7
23	0	0	0	0.1	0	2	1.6	4.6	9.2	0	0	1.9
24	2.1	0	0	0	0	0	2.9	0.4	0.5	0.1	0	0.8
25	3.7	12.8	0	0	0	0	66.8	2.5	0.0	0	0	0
26	6.4	7.6	0	0	0	3.3	39.6	23.3	0.0	0.1	0	0.1
27	0.2	1.8	0	0	3.4	8.4	9.5	0.1	0.0	0.1	8.7	4.9
28	4.1	2.8	0	0	0.1	6.7	1.8	30.0	0.0	0	3.9	11
29	4.7	0	0	0	0	1.3	2.9	12.7	0.0	0.1		1.2
30	1.2	0	0	0	0	12.5	0.1	1.3	0.0	1.3		0
31		3.7		0	0		0		2.90	14.8		0
Monthly Total (mm)	33.00	41.40	30.50	5.70	18.40	115.80	212.40	231.80	107.30	119.00	35.80	54.90
Quarterly Total (mm)	104.90			Quarterly Total (mm)	139.90		Quarterly Total (mm)	551.50		Quarterly Total (mm)		209.70

Table 31 Groundwater Description 1 Page(s)

Groundwater Wells - Description				
Area	Groundwater ID	In-situ / Ex-situ	Screened Interval	Comment
2-North	1 Mains 2-North (1M2N)	In-situ	No. 1 Seam	Flooded Underground Workings in 1-Mains Area, Dewatering well
	5 Mains#2 (5M#2)	In-situ	No. 1 Seam	Flooded Underground Workings in 5-Mains Area, Dewatering well
	3 Mains 2-North (3M2N)	In-situ	No. 1 Seam	Flooded Underground Workings in 3-Mains Area, Underground Pump System
	QU08-21GD	Ex-situ	No. 1 Seam	Down gradient of u/g tailings disposal, measure water quality and hydraulic gradients downstream of forjan fault
	QU08-21GS	Ex-situ	No. 4 Coal Seam and	
	QU10-10D	Ex-situ	No. 1 Seam / mudstone	Down gradient of u/g tailings disposal, measures water quality and hydraulic head downgradient of 2 North workings
	QU10-10S	Ex-situ	No. 4 Seam /	
	QU10-11S	Ex-situ	Fractured Sandstone	Measure water quality and hydraulic gradient in Forjan Fault
	QU10-11D	Ex-situ	No.1 Seam	Down gradient of u/g tailings disposal, measures water quality and hydraulic head down gradient t of 2 North workings
	QU10-13D	In-situ	Caved Zone	Down gradient of u/g tailings disposal, measures water quality and hydraulic head down gradient t of 2 North workings
5-South Mine Pool	5SMW	In-situ	Mine Pool (1 Seam)	Water pumped from 5-South Flooded Mine Pool into 3-Mains of 2-North Mine
River Barrier Pillar (RBP)	QU11-05S	Ex-situ	Sandstone	Down gradient of u/g tailings disposal, measure water quality and hydraulic head down gradient of 2 North workings
	QU11-05D	Ex-situ	Sandstone	Monitoring water quality and vertical gradients downstream of the RBP and 2-North mine.
	QU11-09S	Ex-situ	Sandstone	Monitor water quality & upward vertical gradients of the RBP and 2-North workings. Mine pool – CCR backfill in River Barrier Pillar
	QU11-09M	In-situ	RBP Mine Pool	Monitor water quality in the RBP and 2-North workings. Mine pool – CCR backfill in River Barrier Pillar.
2-North Plant Site	MW-00-1S	Ex-situ	Till	Shallow Groundwater Below Plant Coal pad
	MW-00-1D	Ex-situ	1-Seam	Groundwater below the coal pad
	MW-00-6D	Ex-situ	Till	Groundwater below the coal pad
	MW-00-6S	Ex-situ	Till	Groundwater below the coal pad
4-South	QU10-08D	Ex-situ	No. 3 Seam	4 South (just outside mine pool) up gradient of existing workings
	QU11-01	In-Situ	Foot print area of 4 South GOB	Assess 4 South Mine Pool water quality
	QU10-09S	Ex-situ	Down gradient of existing workings	Access vertical gradients and water quality adjacent to Long Lake.
	QU10-09D	Ex-situ	Down gradient of existing workings	Access vertical gradients and water quality adjacent to Long Lake.
2-South & 3-South	MW002	Ex-situ	1 Seam	3S seepage to Long Lake
	MW004	In-Situ	Mine Pool (1 Seam)	2-South Mine Pool Gob depillared area
	QU11-11 (INF)	In-Situ	Mine Pool (1 Seam)	2-South mine pool dewatering well for Passive Treatment System
7-South	1M7S	In-Situ	No. 4 Coal Seam	Underground Sump
	QU08-10	Ex-situ	No. 4 Coal Seam	Downgradient of 7S -screened No. 3 Coal -Southern margin of workings
	QU08-13A	Ex-situ	No. 4 Coal Seam	Down Gradient of the CCR backfill towards QR
	QU08-13B	Ex-situ	Till & SST contact	Down Gradient of the CCR backfill towards QR
	QU14-10	In-Situ	Mine Void	PAG-CCR Water Cover in Mine Void
7- South Area 5	1M7SA5	In-Situ	Sump	Underground Sump
	QU11-35	Ex-situ	Sandstone above No. 4 Seam	South end of 7SA5 footprint at 100280m N (mine grid)
242 AREA	QU11-36D	Ex-situ	Sandstone below No. 5 seam	Downgradient of 7SA5
	242MW	In-situ	No. 4 Seam	Mine pool

Table 32 In-Situ Groundwater Wells Q1 2 Page(s)

In-situ Groundwater Q1		5-Mains 2-North		1-Mains 2-North				3-Mains 2-North		1Mains 7S and Area 5		7 South Area 5		242 Mine Pool Water
	Area Well ID. Replicates	5M#2	5M#2	1M2N	1M2N	1M2N	QU1013D	3M2N	3M2N	1M7SA5	1M7SA5	7SA5	7SA5	242MW
Date		6-May-21	2-Jun-21	13-Apr-21	6-May-21	2-Jun-21	20-May-21	6-Apr-21	2-Jun-21	7-Apr-21	2-Jun-21	7-Apr-21	2-Jun-21	27-May-21
SO4-D	mg/L	530	440	1500	1500	1600	1400	720	720	64	84	24	44	41
Turb	NTU			130			37							150
Alk-T	mg/L	470	560	520	360	520	510	410	420	160	150	170	160	91
Acidity83	mg/L	8.5	15.0	23.8	21.4	50.6	20.2	8.8	13.5	<1.0	<1.0	<1.0	<1.0	8.2
N-D	mg/L	0.203	0.222	0.419	0.415	0.405	0.458		0.193		0.226		0.167	0.118
DOC	mg/L	0.76	0.60	1.2	0.71	<0.50	1.3		0.87		<0.50		0.99	1.3
Hydrox	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bicarb	mg/L	570	680	630	440	640	620	490	510	200	190	210	190	110
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cl-D	mg/L	11	12	12	12	13	15		4.0		1.2		1.5	<1.0
F-D	mg/L	0.080	0.074	0.070	0.064	0.065	0.083		0.13		0.51		0.61	0.064
Br-D	mg/L	0.073	0.065	0.16	0.19	0.15	0.18		0.083		<0.010		<0.010	<0.010
P-D	mg/L	<0.0010	<0.0030	<0.030	0.0015	<0.0030	<0.0030		<0.0030		<0.0030		<0.0030	<0.0030
Al-D	mg/L	<0.0060	<0.0030	<0.0060	<0.0060	<0.0060	<0.0060	<0.0030	<0.0030	<0.0030	0.0080	<0.0030	<0.0030	<0.0030
Ag-D	mg/L	<0.000040	<0.000020	<0.000040	<0.000040	<0.000040	<0.000040	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
As-D	mg/L	0.0109	0.00961	0.00459	0.00389	0.00436	0.00119	0.00117	0.00020	0.165	0.0465	0.233	0.223	0.0763
Ba-D	mg/L	0.0377	0.0300	0.0298	0.0270	0.0246	0.0570	0.0140	0.0130	0.266	0.251	0.367	0.164	0.0677
B-D	mg/L	1.11	1.02	1.11	1.18	1.22	1.25	0.765	0.794	0.486	0.515	0.476	0.556	0.054
Be-D	mg/L	<0.00020	<0.00010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Bi-D	mg/L	<0.0020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cd-D	mg/L	<0.000020	<0.000010	<0.000020	<0.000020	<0.000020	<0.000020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Ca-D	mg/L	111	95.0	284	277	278	270	128	123	49.4	51.5	42.7	41.4	40.5
Cr-D	mg/L	<0.0020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Co-D	mg/L	0.00058	0.00050	<0.00040	<0.00040	0.00078	<0.00040	0.00049	0.00069	<0.00020	0.00047	<0.00020	0.00032	0.00173
Cu-D	mg/L	0.00073	0.00052	0.00103	0.00068	0.00040	<0.00040	<0.00020	<0.00020	0.00048	0.00049	0.00074	0.00027	<0.00020
Fe-D	mg/L	0.904	0.945	12.1	13.3	15.4	7.87	0.0072	0.248	<0.0050	0.138	<0.0050	0.0177	12.6
Hard-D	mg/L	319	272	821	817	823	778	395	384	167	175	142	141	114
Pb-D	mg/L	<0.00040	0.00072	<0.00040	<0.00040	<0.00040	<0.00040	0.00036	<0.00020	<0.00020	<0.00020	0.00054	<0.00020	<0.00020
Mg-D	mg/L	10.2	8.54	27.3	30.6	31.1	25.0	18.2	18.3	10.7	11.3	8.61	9.09	3.20
Mn-D	mg/L	0.310	0.276	1.15	1.32	1.41	1.27	0.192	0.221	0.0055	0.0244	0.0140	0.0116	0.613
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019
Na-D	mg/L	366	325	453	501	495	524	314	319	23.2	20.0	23.0	23.4	2.15
Mo-D	mg/L	<0.0020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0012	<0.0010
Ni-D	mg/L	<0.0020	0.0012	<0.0020	<0.0020	0.0028	<0.0020	0.0020	0.0011	0.0011	0.0017	0.162	<0.0010	0.0011
K-D	mg/L	3.67	3.22	6.83	7.11	6.98	6.70	3.52	3.61	2.19	2.18	2.18	2.07	0.471
S-D	mg/L	191	163	466	490	502	476	238	248	17.8	24.7	7.2	14.7	11.9
Sb-D	mg/L	<0.0010	<0.00050	<0.0010	<0.0010	<0.0010	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Se-D	mg/L	<0.00020	<0.00010	<0.00020	<0.00020	0.00043	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Si-D	mg/L	3.50	3.17	4.45	4.30	4.29	5.25	3.17	2.96	4.54	4.20	4.84	4.79	3.48
Sr-D	mg/L	1.24	1.09	2.99	3.11	2.96	2.70	1.29	1.40	0.520	0.566	0.500	0.533	0.0669
Tl-D	mg/L	<0.000020	<0.000010	<0.000020	<0.000020	<0.000020	<0.000020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.000015
Ti-D	mg/L	<0.010	<0.0050	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
U-D	mg/L	<0.00020	<0.00010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
V-D	mg/L	<0.010	<0.0050	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Zn-D	mg/L	0.024	0.0370	0.336	0.042	0.038	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
HZSEquiv	mg/L	0.000957	0.0117	0.00489	0.0330	0.0648	0.191							0.000957
Notes: Groundwater = GW River Barrier Pillar = RBP														

Table 32 In-Situ Groundwater Wells Q1 2 Page(s)

In-situ Groundwater Q1		GW next to 3-South Pit		2-3 South Mine Pool		2 South Mine Pool Well Pump				River Barrier Pillar Water Cover Over PAG-CCR		7S Water Cover Over PAG-CCR	4-South Flooded Mine Pool	
Date	Area Well ID. Replicates	MW002	MW002	MW004	MW004	INF	INF	INF	INF	QU1109M	QU1109M	QU1410	QU1101	QU1101
		MW002-11MAY21-R	MW002-11MAY21-R	MW004-13MAY21-R	MW004-13MAY21-R	6-Apr-21	10-May-21	1-Jun-21	1-Jun-21	13-Apr-21	15-Jun-21	12-May-21	QU1101-22Jun21-R	QU1101-22Jun-21
SO4-D	mg/L	1400	1300	410	430	640	670	740	740	1300	1300	1900	1500	1500
Turb	NTU	23	31	0.46	0.49						240	8.0	300	160
Alk-T	mg/L	300	280	130	130	270	270	260	270	500	470	300	100	64
Acidity83	mg/L	21.7	26.4	9.5	9.8	11.4	15.3	17.3	16.1	22.2	63.3	29.6	208	164
N-D	mg/L	0.727	0.408	0.197	0.229					0.321	0.406	0.251	0.437	0.424
DOC	mg/L	1.0	0.87				1.0			0.85	1.1	1.2	2.2	2.1
Hydrox	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bicarb	mg/L	360	350	160	160	320	330	320	330	600	570	370	130	78
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cl-D	mg/L	1.3	1.3	<1.0	<1.0					26	26	5.9	5.2	4.2
F-D	mg/L	0.13	0.12	0.081	0.080					0.13	0.089	0.17	0.490	0.440
Br-D	mg/L	0.12	0.12	0.046	0.053					0.17	0.18	0.19	0.17	0.27
P-D	mg/L	0.0068	0.0048	<0.0030	<0.0030					<0.0030	<0.0030	0.0047	0.0098	0.018
Al-D	mg/L	<0.0060	<0.015	0.0049	0.0044	<0.0030	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.015	<0.015
Ag-D	mg/L	<0.000040	<0.00010	<0.000020	<0.000020	<0.000020	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040	<0.00010	<0.00010
As-D	mg/L	0.00198	0.00172	0.00025	0.00023	0.00323	0.00368	0.00370	0.00379	0.0106	0.00365	0.111	0.107	0.107
Ba-D	mg/L	0.0136	0.0128	0.0268	0.0274	0.0232	0.0215	0.0211	0.0221	0.0214	0.0172	0.0149	0.0119	0.0118
B-D	mg/L	0.69	0.72	0.204	0.209	0.654	0.68	0.70	0.70	1.17	1.10	1.04	1.10	1.06
Be-D	mg/L	<0.00020	<0.00050	<0.00010	<0.00010	<0.00010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00050	<0.00050
Bi-D	mg/L	<0.0020	<0.0050	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0050	<0.0050
Cd-D	mg/L	<0.000020	<0.000050	0.000025	<0.00010	<0.00010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00050	<0.00050
Ca-D	mg/L	437	412	149	146	231	253	245	258	204	221	496	343	342
Cr-D	mg/L	<0.0020	<0.0050	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0050	<0.0050
Co-D	mg/L	0.00323	0.0032	<0.00020	<0.00020	0.00048	0.00051	<0.00040	0.00042	0.00385	0.00072	0.00049	<0.0010	<0.0010
Cu-D	mg/L	<0.00040	<0.0010	0.00134	0.00117	<0.00020	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.0010	<0.0010
Fe-D	mg/L	4.19	3.99	<0.0050	<0.0050	3.34	3.71	3.70	3.83	29.3	30.9	1.91	153	153
Hard-D	mg/L	1270	1210	442	435	641	703	683	719	608	662	1830	1070	1060
Pb-D	mg/L	<0.00040	<0.0010	<0.00020	<0.00020	<0.00020	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.0010	<0.0010
Mg-D	mg/L	43.7	42.7	17.1	17.4	15.8	17.3	17.1	18.0	24.0	26.9	144	51.8	51.0
Mn-D	mg/L	1.57	1.45	0.0128	0.0119	0.369	0.414	0.384	0.403	1.36	1.41	1.39	2.44	2.39
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019
Na-D	mg/L	52.2	51.4	33.1	33.7	112	114	112	117	462	470	50.6	129	131
Mo-D	mg/L	<0.0020	<0.0050	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0050	<0.0050
Ni-D	mg/L	0.0021	<0.0050	<0.0010	0.0010	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0050	<0.0050
K-D	mg/L	4.46	4.23	1.58	1.57	1.92	1.94	2.00	2.12	6.37	6.93	6.88	6.22	6.21
S-D	mg/L	390	373	125	131	219	239	233	248	405	414	578	478	477
Sb-D	mg/L	<0.0010	<0.0025	<0.00050	<0.00050	<0.00050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0025	<0.0025
Se-D	mg/L	<0.00020	<0.00050	<0.00010	<0.00010	0.00015	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00050	<0.00050
Si-D	mg/L	3.42	3.24	3.06	2.97	3.10	3.34	3.18	3.35	4.09	4.08	3.04	5.49	5.46
Sr-D	mg/L	4.07	3.76	1.18	1.19	2.18	2.37	2.29	2.42	2.31	2.51	4.68	1.86	1.96
Tl-D	mg/L	<0.000020	<0.000050	<0.000010	<0.000010	<0.000010	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000050	<0.000050
Ti-D	mg/L	<0.010	<0.025	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.025	<0.025
U-D	mg/L	0.00042	<0.00050	<0.00010	<0.00010	<0.00010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00088	<0.00050	<0.00050
V-D	mg/L	<0.010	<0.025	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.025	<0.025
Zn-D	mg/L	<0.010	<0.025	0.0100	0.0120	<0.0050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.025	<0.025
H2SEquiv	mg/L	0.000957	0.000957	0.000957	0.000957	0.00351	0.000957	0.000957	0.000957	0.138	0.0308	0.000957	0.00957	0.00957
Notes:														
Groundwater = GW River Barrier Pillar = RB														

Table 33 In-Situ Groundwater Wells Q2 2 Page(s)

In-situ Groundwater Q2 Area Well ID. Replicates m	Water Level Date	5 Mains 2-North				1-Mains 2North			2-North Mine Pool QU1013D	3-Mains 2North		Next to 3-South Pit		2-3 South Mine Pool			MW004
		5M#2	5M#2	5M#2	5M#2 Rep	1M2N	1M2N	1M2N		3M2N	3M2N	MW002	MW002 Rep	INF	INF	INF	
		14-Jul-21	9-Aug-21	2-Sep-21	2-Sep-21	14-Jul-21	9-Aug-21	2-Sep-21		12-Jul-21	2-Sep-21	29-Jul-21	29-Jul-21	5-Jul-21	9-Aug-21	27-Sep-21	
SO4-D	mg/L	390	360	310	330	1400	1300	1200	1300	830	820	1300	1300	470	600	670	430
H2SEquiv	mg/L	0.00914	0.0159	0.117	0.117	0.117	0.0542	0.106	0.914		0.000957	0.000957	0.000957	0.0563	0.000957	0.000957	0.000957
Cond-F	uS/cm		1684	2000			3550	3490	3405		2380	2186		1555	1469	1650	1058
pH-F	pH Units		7.36	7.31			6.67	6.59	6.49	7.24	7.35	7.19		7.7	7.17	7.17	7.25
Turb	NTU			20	22			110	63		16	45	48				0.63
Alk-T	mg/L	560	580	590	570	540	540	520	530	400	410	280	270	240	280	280	170
Acidity83	mg/L	8.1	7.0	<1.0	<1.0	30.9	31.2	21.9	4.3	8.3	<1.0	17.5	14.6	14.6	19.1	18.6	5.5
N-D	mg/L	0.261	0.211	0.191	0.191	0.396		0.405	0.550	0.225	0.317	0.234	0.234				0.104
DOC	mg/L	0.81		0.88	0.84	1.3		0.91	1.1	0.56	0.56	1.2	1.1			<0.50	1.7
Hydrox	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bicarb	mg/L	680	710	710	700	660	660	640	640	490	500	340	330	290	340	340	210
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cl-D	mg/L	14	18	18	18	16	18	19	19	4.0	4.6	1.5	1.5				<1.0
F-D	mg/L	0.080	0.084	0.067	0.057	0.087	0.11	0.10	0.080	0.14	0.13	0.11	0.10				0.12
Br-D	mg/L	0.075	0.056	0.063	0.056	0.20	0.17	0.15	0.17	0.076	0.093	0.17	0.16				0.058
P-D	mg/L	<0.0030		<0.0030	<0.0030	<0.0030		<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030			<0.0030	<0.0030
TSS	mg/L	1.6	<1.4			28	24			6.4					10	6.4	
Al-D	mg/L	<0.0030	0.0031	<0.0030	<0.0030	<0.0060	<0.0060	0.0048	0.0031	0.0058	0.0037	<0.0060	<0.0060	0.0038	<0.0030	<0.0030	0.0057
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000040	<0.000040	<0.000020	<0.000020	<0.000020	<0.000020	<0.000040	<0.000040	<0.000020	<0.000020	<0.000020	<0.000020
As-D	mg/L	0.00934	0.00871	0.00674	0.00666	0.00602	0.00713	0.00787	0.00109	0.00012	0.00019	0.00212	0.00208	0.00426	0.00488	0.00471	0.00066
Ba-D	mg/L	0.0287	0.0287	0.0272	0.0272	0.0225	0.0205	0.0195	0.0396	0.0126	0.0133	0.0149	0.0144	0.0187	0.0233	0.0221	0.0393
Ba-D	mg/L	0.945	1.10	0.999	1.06	1.10	1.28	1.18	1.18	0.865	0.874	0.78	0.80	0.684	0.717	0.700	0.252
Be-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010
Bi-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000020	<0.000020	<0.000010	<0.000010	0.000014	<0.000010	<0.000020	<0.000020	<0.000010	<0.000010	<0.000010	<0.000010
Ca-D	mg/L	88.1	78.3	79.7	82.2	260	235	208	219	144	145	473	471	187	236	245	170
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010
Co-D	mg/L	0.00044	0.00034	<0.00020	<0.00020	<0.00040	<0.00040	0.00029	<0.00020	0.00427	0.00184	0.00365	0.00369	<0.00020	0.00075	0.00067	0.00038
Cu-D	mg/L	0.00030	0.00037	0.00023	0.00032	<0.00040	<0.00040	0.00033	<0.00020	0.00055	0.00032	<0.00040	<0.00040	<0.00020	<0.00020	<0.00020	0.00068
Fe-D	mg/L	0.974	0.632	0.0647	0.0547	13.9	11.8	12.6	6.54	0.218	0.0427	4.93	4.88	9.47	3.48	4.09	0.0236
Hard-D	mg/L	253	223	227	233	765	691	611	636	450	447	1390	1390	532	653	675	496
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00040	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00040	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020
Mg-D	mg/L	7.90	6.79	6.71	6.62	28.2	25.5	22.6	21.8	21.7	20.7	50.4	51.1	15.5	15.7	15.1	17.5
Mn-D	mg/L	0.254	0.209	0.217	0.217	1.22	1.07	0.981	1.47	0.263	0.229	1.53	1.53	0.367	0.398	0.428	0.0526
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019
Na-D	mg/L	325	301	318	316	491	461	456	520	376	355	64.1	64.9	116	113	114	41.4
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	0.0066	<0.0010	0.0071	0.0026	0.0023	0.0023	<0.0010	0.0012	0.0010	0.0013
K-D	mg/L	3.20	2.91	3.10	3.03	6.69	6.27	6.29	6.25	3.95	3.96	5.35	5.31	2.29	1.94	1.90	1.65
S-D	mg/L	136	110	111	110	446	416	362	414	274	265	424	428	198	219	223	148
Sb-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00020	<0.00010	0.00162	<0.00010	<0.00010	<0.00020	<0.00020	0.00012	<0.00010	<0.00010	<0.00010
Si-D	mg/L	2.96	3.40	3.64	3.72	3.97	4.50	4.17	4.76	2.90	3.24	3.76	3.49	2.85	3.28	3.45	2.90
Sr-D	mg/L	0.959	0.843	0.897	0.884	2.51	2.37	2.14	2.23	1.64	1.49	4.03	4.06	2.17	2.15	2.18	1.59
Tl-D	mg/L	0.000017	<0.000010	<0.000010	<0.000010	0.000027	<0.000020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000020	<0.000020	<0.000010	<0.000010	<0.000010	<0.000010
Ti-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
U-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	0.00047	0.00045	<0.00010	<0.00010	<0.00010	<0.00010
V-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
Zn-D	mg/L	0.0146	0.0091	0.155	0.158	0.016	<0.010	0.0520	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	0.0065

Notes:
Groundwater = GW River Barrier Pillar = RBP

Table 33 In-Situ Groundwater Wells Q2 2 Page(s)

In-situ Groundwater Q2		River Barrier Pillar		7-South Water Cover Over PAG-CCR				242 Mine Pool	1M7SA5	7 South	7SA5
Area	Well ID.	QU1109M	QU1109M	QU1410	QU1410 Rep	QU1410	QU1410 Rep	242MW		7SA5	
Replicates	m										
Water Level		37.69	44.4	11.045	11.01			23.705			
Date		19-Aug-21	27-Sep-21	28-Jul-21	28-Jul-21	22-Sep-21	22-Sep-21	23-Sep-21	12-Jul-21	12-Jul-21	2-Sep-21
SO4-D	mg/L	1300	1200	1900	1800	1800	1800	43	170	62	100
H2SEquiv	mg/L	0.0106	1.06	0.000957	0.000957	0.000957	0.000957	0.00829			0.000957
Cond-F	uS/cm	3168.7	2937.3	3002.8		2967.3		305			492
pH-F	pH Units	6.58	6.75	6.48		6.47		6.35	7.84	7.95	7.5
Turb	NTU	61	210	12	10	7.4	10	100			0.74
Alk-T	mg/L	500	440	310	310	320	320	93	150	160	140
Acidity83	mg/L	17.2	14.7	16.4	22.1	36.2	33.9	2.5	<1.0	<1.0	<1.0
N-D	mg/L	0.360	0.419	0.255	0.248	0.328	0.299	0.137	0.507	0.229	0.316
DOC	mg/L	<0.50	1.0	1.8	1.6	1.2	1.2	0.54	1.4	0.83	0.65
Hydrox	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bicarb	mg/L	600	540	380	380	390	380	110	180	200	170
Carb	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cl-D	mg/L	26	28	7.1	6.9	6.5	6.4	<1.0	1.6	1.7	2.1
F-D	mg/L	0.083	0.095	0.14	0.14	<0.050	0.17	0.075	0.48	0.53	0.54
Br-D	mg/L	0.18	0.18	0.16	0.17	0.20	0.20	<0.050	<0.010	<0.010	0.013
P-D	mg/L	<0.0030	<0.0010	0.0045	<0.0030	<0.0030	<0.0030	0.0071	<0.0030	0.0082	0.011
TSS	mg/L								4.0	1.2	
Al-D	mg/L	<0.0060	<0.0060	<0.015	<0.015	<0.015	<0.015	<0.0030	0.0104	<0.0030	<0.0030
Ag-D	mg/L	<0.000040	<0.000040	<0.00010	<0.00010	<0.00010	<0.00010	<0.000020	<0.000020	<0.000020	<0.000020
As-D	mg/L	0.00341	0.00379	0.107	0.108	0.104	0.102	0.0886	0.0166	0.199	0.215
Ba-D	mg/L	0.0106	0.0155	0.0159	0.0157	0.0152	0.0150	0.0709	0.178	0.329	0.143
B-D	mg/L	1.11	1.07	1.15	1.13	1.06	0.87	0.062	0.552	0.517	0.567
Be-D	mg/L	<0.00020	<0.00020	<0.00050	<0.00050	<0.00050	<0.00050	<0.00010	<0.00010	<0.00010	<0.00010
Bi-D	mg/L	<0.0020	<0.0020	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010
Cd-D	mg/L	<0.000020	<0.000020	<0.000050	<0.000050	<0.000050	<0.000050	<0.000010	<0.000010	<0.000010	<0.000010
Ca-D	mg/L	241	217	536	543	522	524	45.8	72.3	48.0	54.5
Cr-D	mg/L	<0.0020	<0.0020	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010
Co-D	mg/L	<0.00040	<0.00040	<0.0010	<0.0010	<0.0010	<0.0010	0.00175	0.00142	0.00062	0.00026
Cu-D	mg/L	<0.00040	<0.00040	<0.0010	<0.0010	<0.0010	<0.0010	<0.00020	0.00074	0.00032	<0.00020
Fe-D	mg/L	21.5	24.5	2.48	2.49	1.99	2.04	14.4	0.110	0.0090	0.0075
Hard-D	mg/L	703	634	2000	2040	1930	1960	129	260	165	191
Pb-D	mg/L	<0.00040	<0.00040	<0.0010	<0.0010	<0.0010	<0.0010	<0.00020	<0.00020	<0.00020	<0.00020
Mg-D	mg/L	24.3	22.1	162	165	153	158	3.53	19.2	11.0	13.3
Mn-D	mg/L	0.977	0.983	1.42	1.45	1.43	1.46	0.693	0.0624	0.0213	0.0110
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019
Na-D	mg/L	492	466	67.8	68.4	59.1	60.2	2.40	23.3	23.4	25.4
Mo-D	mg/L	<0.0020	<0.0020	<0.0050	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010	0.0017
Ni-D	mg/L	<0.0020	<0.0020	<0.0050	<0.0050	<0.0050	<0.0050	0.0014	0.0043	0.0021	0.0013
K-D	mg/L	6.87	6.82	7.60	7.61	6.86	7.14	0.482	2.42	2.25	2.27
S-D	mg/L	420	393	614	621	632	599	11.6	51.0	18.8	31.8
Sb-D	mg/L	<0.0010	<0.0010	<0.0025	<0.0025	<0.0025	<0.0025	<0.00050	<0.00050	<0.00050	<0.00050
Se-D	mg/L	<0.00020	<0.00020	<0.00050	<0.00050	<0.00050	<0.00050	<0.00010	<0.00010	<0.00010	<0.00010
Si-D	mg/L	3.88	4.05	3.27	3.23	3.40	3.27	3.94	3.72	4.26	5.02
Sr-D	mg/L	2.64	2.49	4.35	4.29	4.67	4.61	0.0698	0.729	0.548	0.649
Tl-D	mg/L	<0.000020	<0.000020	<0.000050	<0.000050	<0.000050	<0.000050	0.000014	0.000011	<0.000010	<0.000010
Ti-D	mg/L	<0.010	<0.010	<0.025	<0.025	<0.025	<0.025	<0.0050	<0.0050	<0.0050	<0.0050
U-D	mg/L	<0.00020	<0.00020	0.00092	0.00091	0.00078	0.00086	<0.00010	<0.00010	<0.00010	<0.00010
V-D	mg/L	<0.010	<0.010	<0.025	<0.025	<0.025	<0.025	<0.0050	<0.0050	<0.0050	<0.0050
Zn-D	mg/L	<0.010	<0.010	<0.025	<0.025	<0.025	<0.025	<0.0050	<0.0050	<0.0050	<0.0050

Notes:

Groundwater = GW River Barrier Pillar = R

Table 34 In-Situ Groundwater Wells Q3 2 Page(s)

In-situ Groundwater Q3	Area Well ID Replicates (R)	2-North Flooded Mine pool							2-South Flooded Mine Pool		
		5M#2	5M#2	1M2N	1M2N	3M2N	QU1013D	QU1013D QA/QC	INF	INF	INF
							51.71	51.71	8.9	12.8	0.0058
		3-Nov-21	9-Dec-21	3-Nov-21	9-Dec-21	14-Dec-21	8-Dec-21	8-Dec-21	4-Oct-21	1-Nov-21	7-Dec-21
Water Level Bel m	Units										
Parameter											
Date											
SO4-D	mg/L	250	220	680	720	670	690	700	670	540	580
S ²⁻ as H ₂ S	mg/L	0.00978	0.0128	0.000957	0.0542	0.000957	0.101	0.0914	0.000957	0.000957	0.000957
Cond-F	uS/cm	1327.6	1697	1956	2650	2050	2268	2268	1536.4	1421.8	1638
pH-F	pH Units	7.26	7.6	6.98	7.24	7.16	6.88	6.88	6.99	6.87	7.32
Temp-F	C	11.5	8.4	10.4	8.8	9.7	7.7	7.7		7.835	8.4
DO-F	mg/L						0.47	0.47			
ORP-F	mV						-194.6	-194.6			
Turb	NTU	2.2	3.0	29	79	2.2	47	50			
Alk-T	mg/L	560	510	500	490	370	520	530	290	280	240
Acidity83	mg/L	<1.0	<1.0	19.6	4.7	2.4	<1.0	7.7	13.2	14.5	20.9
N-D	mg/L						0.349	0.349			
DOC	mg/L	0.73	1.1	1.2	0.72	0.99	1.0	0.98			
Hydrox	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bicarb	mg/L	680	610	610	600	450	630	640	350	340	290
Carb	mg/L	<1.0	6.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cl-D	mg/L	17	11	25	15	4.0	20	20			
F-D	mg/L	0.067	0.088	0.14	0.11	0.14	0.11	0.11			
Br-D	mg/L	0.044	0.039	0.16	0.16	0.017	0.15	0.14			
P-D	mg/L	<0.0030	<0.0030	<0.0030	<0.0060	0.0070	0.0032	<0.0060			
TSS	mg/L								7.2	5.6	7.2
Al-D	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	0.0086	<0.0030	<0.0030	<0.0030	0.0116	<0.0030
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
As-D	mg/L	0.00804	0.00725	0.00989	0.00590	0.00012	0.00234	0.00240	0.00476	0.00434	0.00270
Ba-D	mg/L	0.0264	0.0252	0.0208	0.0176	0.0131	0.0268	0.0266	0.0218	0.0210	0.0194
B-D	mg/L	0.961	0.911	1.15	0.966	0.732	1.00	0.999	0.705	0.670	0.585
Be-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Bi-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Ca-D	mg/L	71.4	65.2	143	143	120	130	131	244	233	204
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Co-D	mg/L	0.00040	0.00056	<0.00020	<0.00020	0.00051	<0.00020	0.00021	0.00068	0.00106	0.00098
Cu-D	mg/L	<0.00020	0.00024	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Fe-D	mg/L	0.644	0.592	4.09	6.41	0.0995	4.38	4.37	3.92	4.04	2.47
Hard-D	mg/L	203	186	416	418	244	378	382	670	645	561
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Pb-D	mg/L	0.110	0.0600	0.160	0.160	0.110	0.160	0.160	0.160	0.160	0.160
Mg-D	mg/L	5.98	5.70	14.4	14.8	16.9	13.0	13.0	15.0	15.5	12.7
Mn-D	mg/L	0.198	0.170	0.515	0.587	0.0824	0.645	0.642	0.425	0.439	0.309
Hg-D	mg/L	<0.0000019	<0.0000019	0.0000022	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019
Na-D	mg/L	270	258	368	360	294	373	369	112	116	98.2
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-D	mg/L	<0.0010	0.0021	<0.0010	<0.0010	0.0022	<0.0010	<0.0010	0.0011	0.0019	0.0016
K-D	mg/L	2.79	2.82	5.11	5.13	3.62	4.85	4.91	1.88	1.99	1.67
S-D	mg/L	78.9	68.3	241	237	224	219	221	216	218	183
Sb-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00026	<0.00010	<0.00010	<0.00010	0.00011
Si-D	mg/L	3.57	3.29	4.10	3.85	3.38	3.98	3.96	3.54	3.39	3.40
Sr-D	mg/L	0.768	0.689	1.50	1.47	1.23	1.35	1.35	2.26	2.09	1.93
Tl-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Ti-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
U-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
V-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Zn-D	mg/L	0.0080	0.0104	0.0068	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Notes:											
Groundwater = GW River Barrier Pillar = RBP											

Table 34 In-Situ Groundwater Wells Q3 2 Page(s)

In-situ Groundwater Q3	Area Well ID Replicates (R)	3-South Pit Groundwater		2-South Flooded Mine Pool		5-South Mine Pool Pumped to 2-North			RBP Water Cover Over PAG-CCR QU1109M	7-South Water Cover Over PAG-CCR QU1410	1-Mains 7-South Area 5 Water 1M7SA5
		MW002	MW002 QA/QC	MW004	MW004 QA/QC	SSMW	SSMW	SSMW			
		3.35	3.35	39.575		74.3			43.135	10.8	
		3.35	3.35	39.575		74.3			43.135	10.8	
Water Level Bel m	Units										
Parameter	Units										
Date		28-Oct-21	28-Oct-21	29-Nov-21	29-Nov-21	13-Oct-21	3-Nov-21	9-Dec-21	3-Nov-21	9-Dec-21	14-Dec-21
SO4-D	mg/L	1300	1300	292	272	350	330	270	1300	1800	160
S ²⁻ as H ₂ S	mg/L	0.000957	0.000957	0.0106	0.0106	0.0276	0.00744	0.0244	0.0234	0.000957	0.000957
Cond-F	uS/cm	2168.6	2168.6	731.1	731.1	1206.6	1023.6	1301	2889.4	2927	644
pH-F	pH Units	6.77	6.77	7.09	7.09	7.08	7.32	7.35	6.86	6.75	8.36
Temp-F	C	11.112	11.112	8.1	8.1	8.486	8.9	7	8.534	6.7	9.7
DO-F	mg/L	0.45	0.45	7.72	7.72	2.35			0.56	0.46	
ORP-F	mV	-29.2	-29.2	177	177	-92.1			-122	13.2	
Turb	NTU	38	51	0.00142	0.00138		24	15	160	27	1.1
Alk-T	mg/L	280	290	90.2	86.7	320	350	300	500	310	150
Acidity83	mg/L	38.2	39.8	5.9	4.6	4.7	3.5	10.2	13.1	16.2	<1.0
N-D	mg/L	0.267	0.278						0.366	0.217	
DOC	mg/L	2.0	0.96	2.61	2.71	<0.50	2.2	3.1	<0.50	1.2	0.77
Hydrox	mg/L	<1.0	<1.0			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bicarb	mg/L	340	350			390	420	360	620	380	180
Carb	mg/L	<1.0	<1.0			<1.0	<1.0	6.9	<1.0	<1.0	<1.0
Cl-D	mg/L	1.6	1.7	0.53	0.62	4.5	4.8	3.9	3.4	7.1	1.7
F-D	mg/L	0.13	0.13	0.12	0.11	0.23	0.16	0.17	0.080	0.17	0.43
Br-D	mg/L	0.26	0.23	<0.10	<0.10	0.038	0.055	0.054	0.30	0.43	0.13
P-D	mg/L	<0.0030	<0.0030	0.0096	0.0102	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030
TSS	mg/L					29					
Al-D	mg/L	<0.0060	<0.0060	0.0144	0.0147	0.0052	0.0031	0.0178	<0.0060	<0.0060	0.0050
Ag-D	mg/L	<0.000040	<0.000040	<0.00001	<0.00001	<0.000020	<0.000020	<0.000020	<0.000040	<0.000040	<0.000020
As-D	mg/L	0.00228	0.00222	0.000255	0.000265	0.00136	0.00944	0.00406	0.00481	0.110	0.107
Ba-D	mg/L	0.0143	0.0136	0.0175	0.0178	0.0302	0.0465	0.0261	0.0117	0.0159	0.192
B-D	mg/L	0.77	0.72	0.171	0.179	0.925	0.833	0.766	1.08	1.01	0.436
Be-D	mg/L	<0.00020	<0.00020	<0.00001	<0.00001	<0.00010	<0.00010	<0.00010	<0.00020	<0.00020	<0.00010
Bi-D	mg/L	<0.0020	<0.0020	<0.00001	<0.00001	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	<0.0010
Cd-D	mg/L	<0.000020	<0.000020	0.0000053	0.0000079	<0.000010	<0.000010	<0.000010	<0.000020	<0.000020	<0.000010
Ca-D	mg/L	482	469	116	120	70.4	68.4	55.1	220	547	72.0
Cr-D	mg/L	<0.0020	<0.0020	0.00017	0.00016	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	<0.0010
Co-D	mg/L	0.00327	0.00332	0.000272	0.000267	0.00612	0.00116	0.00341	<0.00040	0.00042	0.00074
Cu-D	mg/L	<0.00040	<0.00040	0.00126	0.00128	0.00034	<0.00020	0.00069	<0.00040	<0.00040	0.00035
Fe-D	mg/L	4.57	4.42	0.0032	0.0029	14.6	7.36	5.98	18.5	2.48	0.104
Hard-D	mg/L	1410	1370			216	213	172	636	2010	369
Pb-D	mg/L	<0.00040	<0.00040	<0.00005	<0.00005	<0.00020	<0.00020	<0.00020	<0.00040	<0.00040	<0.00020
Pb-D	mg/L	0.1600	0.1600			0.110	0.110	0.0600	0.160	0.1600	0.160
Mg-D	mg/L	49.9	48.0	14.6	14.8	9.73	10.2	8.31	21.0	156	15.5
Mn-D	mg/L	1.40	1.38	0.0124	0.0116	0.362	0.261	0.204	0.666	1.48	0.0388
Hg-D	mg/L	<0.0000019	<0.0000019	<0.000005	<0.000005	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019
Na-D	mg/L	63.8	61.7	26.3	26.3	199	167	165	476	64.9	18.7
Mo-D	mg/L	<0.0020	<0.0020	0.000206	0.000156	0.0019	0.0015	0.0011	<0.0020	<0.0020	<0.0010
Ni-D	mg/L	0.0025	0.0024	0.00211	0.0022	0.0089	0.0093	0.0057	<0.0020	<0.0020	0.0021
K-D	mg/L	5.74	5.51	1.27	1.3	4.75	4.52	4.64	6.77	7.53	2.19
S-D	mg/L	417	395	110	112	116	92.8	77.9	415	596	46.2
Sb-D	mg/L	<0.0010	<0.0010	<0.00005	<0.00005	<0.00050	<0.00050	<0.00050	<0.0010	<0.0010	<0.00050
Se-D	mg/L	<0.00020	<0.00020	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00020	<0.00020	<0.00010
Si-D	mg/L	4.06	3.83	3.37	3.37	3.27	3.99	3.06	4.10	3.13	4.38
Sr-D	mg/L	4.29	4.15	0.767	0.781	0.874	0.875	0.685	2.62	4.73	0.650
Ti-D	mg/L	<0.000020	<0.000020	<0.000004	<0.000004	<0.000010	<0.000010	<0.000010	<0.000020	<0.000020	<0.000010
Ti-D	mg/L	<0.010	<0.010	<0.0002	<0.0002	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050
U-D	mg/L	0.00039	0.00037	0.0000166	0.0000185	<0.00010	<0.00010	<0.00010	<0.00020	0.00088	<0.00010
V-D	mg/L	<0.010	<0.010	<0.0002	<0.0002	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050
Zn-D	mg/L	<0.010	<0.010	0.0039	0.0045	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050

Notes:

Groundwater = GW River Barrier Pillar = RBP

Table 35 In-Situ Groundwater Wells Q4 3 Page(s)

In-situ Groundwater Q4 Water Level	Well ID m Replicates (R)	2-North Dewater Areas							2-North QU1013D 40.33	
		5M#2 35.91	5M#2 41.77	1M2N	1M2N	3M2N	3M2N	3M2N	QU1013D 40.33 R	
		14-Feb-22	29-Mar-22	14-Feb-22	29-Mar-22	27-Jan-22	14-Feb-22	29-Mar-22	9-Mar-22	9-Mar-22
Date Parameter	Units									
SO4-D	mg/L	250	140	740	810	1200	640	640	630	530
S ²⁻ as H ₂ S	mg/L	0.0149	0.00882	0.0967	0.0957				0.244	0.287
Cond-F	uS/cm	1654	1318.8	2410	2113.3	2620	2040	1812.5	2128	
pH-F	pH Units	7.29	7.48	6.6	6.76	7.20	7.43	7.13	7.25	
Temp-F	C	11.1	11.048	10.7	12.439		13.8	13.718	7.20	
DO-F	mg/L								1	
ORP-F	mV								-229.6	
Turb	NTU	2.4	2.7	60	72	5.6	1.8	1.9	5.7	4.9
Alk-T	mg/L	530	530	500	500	290	390	410	600	600
Acidity83	mg/L	5.3	3.3	30.5	21.4	5.6	18.9	8.1	<1.0	<1.0
N-D	mg/L	0.143	0.163	0.284	0.478	0.175	0.195	0.140	0.303	0.314
DOC	mg/L	1.3	1.0	1.3	0.76	<0.50	0.60	0.62	0.83	0.71
Hydrox	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bicarb	mg/L	640	620	610	600	350	480	500	730	730
Cl-D	mg/L	7.3	7.7	9.2	<10	9.4	3.3	3.7	25	26
F-D	mg/L	0.085	0.086	0.11	0.10	0.12	0.14	0.13	0.12	0.12
Br-D	mg/L	0.024	0.034	0.098	<0.10	0.062	0.41	0.11	0.10	0.10
P-D	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	0.0092	<0.0030	<0.0030	0.0074	0.0069
Ag-D	mg/L	<0.000020	<0.000020	<0.000040	<0.000040	<0.000040	<0.000020	<0.000020	<0.000040	<0.000040
As-D	mg/L	0.00797	0.00846	0.00523	0.00528	0.00236	0.00011	0.00031	0.00037	0.00032
Ba-D	mg/L	0.0280	0.0254	0.0194	0.0195	0.0128	0.0125	0.0130	0.0412	0.0418
B-D	mg/L	0.893	0.964	1.01	1.10	0.76	0.736	0.810	1.62	1.64
Be-D	mg/L	<0.00010	<0.00010	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010	<0.00020	<0.00020
Bi-D	mg/L	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0020	<0.0020
Cd-D	mg/L	<0.000010	<0.000010	<0.000020	<0.000020	<0.000020	<0.000010	<0.000010	<0.000020	<0.000020
Ca-D	mg/L	70.5	60.5	150	143	297	116	117	62.1	61.1
Co-D	mg/L	0.00031	0.00028	<0.00040	<0.00040	0.00351	0.00027	0.00069	<0.00040	<0.00040
Cu-D	mg/L	<0.00020	<0.00020	<0.00040	0.00044	<0.00040	0.00072	<0.00020	<0.00040	<0.00040
Fe-D	mg/L	0.465	0.529	6.27	5.96	0.340	0.0905	0.0516	0.506	0.528
Hard-D	mg/L	201	175	436	425	877	356	365	172	169
Pb-D	mg/L	<0.00020	<0.00020	<0.00040	<0.00040	<0.00040	<0.00020	<0.00020	<0.00040	<0.00040
Pb-CSR	mg/L	0.110	0.0600	0.160	0.160	0.160	0.160	0.160	0.0600	0.0600
Mg-D	mg/L	6.09	5.86	15.2	16.5	32.9	16.3	17.6	3.98	3.93
Mn-D	mg/L	0.169	0.161	0.575	0.600	0.453	0.0754	0.246	0.153	0.152
Hg-D	mg/L	<0.0000019		<0.0000019		<0.0000019	<0.0000019		<0.0000019	<0.0000019
Mo-D	mg/L	<0.0010	<0.0010	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0020	<0.0020
Ni-D	mg/L	<0.0010	<0.0010	<0.0020	<0.0020	0.0064	0.0012	0.0012	<0.0020	<0.0020
K-D	mg/L	2.89	2.84	5.23	5.36	3.82	3.47	3.56	3.90	3.86
S-D	mg/L	87.1	74.8	245	250	374	228	228	200	201
Sb-D	mg/L	<0.00050	<0.00050	<0.0010	<0.0010	<0.0010	<0.00050	<0.00050	<0.0010	<0.0010
Se-D	mg/L	<0.00010	<0.00010	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010	<0.00020	<0.00020
Si-D	mg/L	3.41	3.36	4.06	3.97	3.34	3.29	3.41	4.78	4.79
Sr-D	mg/L	0.769	0.685	1.42	1.42	2.14	1.18	1.19	0.778	0.777
Tl-D	mg/L	<0.000010	<0.000010	<0.000020	<0.000020	<0.000020	<0.000010	<0.000010	<0.000020	<0.000020
Ti-D	mg/L	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.010	<0.010
V-D	mg/L	<0.0050	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.010	<0.010
N-NH3	mg/L	0.093	0.11	0.25	0.26		0.048	0.10	0.25	0.29

Notes:
Groundwater = GW River Barrier Pillar = RBP

Table 35 In-Situ Groundwater Wells Q4 3 Page(s)

In-situ Groundwater Q4		2-South Mine Pool Well Pump			2-South		3-South Pit	4-South Mine Pool	7-S Water Cover Over PAG	
Water Level	Well ID	INF	INF	INF	MW004	MW004	MW002	QU1101	QU1410	QU1410
	m	15	18.4	16.1	39.65	39.65	3.36	26.89	10.82	10.82
	Replicates (R)					R				R
Date		4-Jan-22	1-Feb-22	1-Mar-22	19-Jan-22	19-Jan-22	19-Jan-22	14-Mar-22	28-Feb-22	28-Feb-22
Parameter	Units									
SO4-D	mg/L	540	460	580	260	290	1400	1500	1800	1800
S ²⁻ as H ₂ S	mg/L	0.0128	0.000957	0.00266	0.000957	0.000957	0.000957	0.0191	0.000957	0.000957
Cond-F	uS/cm	1719	1609	1522		851	2256.5	2331.5	2772	2772
pH-F	pH Units	7.17	7.38	7.44		6.90	6.77	6.73	6.73	6.73
Temp-F	C	7.4	7.2	8.5		6.7	10.566	7.385	7.4	7.4
DO-F	mg/L					6.26	0.53	0.64	1.5	1.5
ORP-F	mV					108	-20.9	-127.1	-57.7	-57.7
Turb	NTU				0.95	0.97	56	730	27	27
Alk-T	mg/L	250	210	220	84	85	280	76	310	310
Acidity83	mg/L	9.6	<1.0	5.2	1.4	1.2	7.3	126	18.1	29.4
N-D	mg/L				0.079	0.094	0.227	0.418	0.215	0.224
DOC	mg/L				1.7	1.7	0.87	1.5	1.1	1.1
Hydrox	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bicarb	mg/L	300	260	270	100	100	350	92	380	380
Cl-D	mg/L				<1.0	<1.0	1.6	2.9	6.6	6.9
F-D	mg/L				0.070	0.071	0.13	0.53	0.18	0.18
Br-D	mg/L				0.013	0.013	0.057	0.17	<0.20	<0.20
P-D	mg/L				<0.0030	<0.0030	<0.0030	0.0098	0.0045	0.0059
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000040	<0.000040	<0.00010	<0.00010
As-D	mg/L	0.00237	0.00264	0.00195	0.00029	0.00029	0.00236	0.156	0.116	0.111
Ba-D	mg/L	0.0200	0.0189	0.0189	0.0171	0.0171	0.0156	0.0128	0.0153	0.0148
B-D	mg/L	0.609	0.669	0.561	0.156	0.157	0.78	1.13	1.03	1.04
Be-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00020	<0.00050	<0.00050
Bi-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	<0.0050	<0.0050
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000020	<0.000020	<0.000050	<0.000050
Ca-D	mg/L	233	201	200	124	126	525	371	540	515
Co-D	mg/L	0.00072	0.00039	0.00071	0.00038	0.00036	0.00307	<0.00040	<0.0010	<0.0010
Cu-D	mg/L	<0.00020	<0.00020	<0.00020	0.00091	0.00096	<0.00040	<0.00040	<0.0010	<0.0010
Fe-D	mg/L	2.56	2.14	2.23	0.0220	0.0255	4.65	150	2.04	1.97
Hard-D	mg/L	645	551	558	375	381	1530	1140	2040	1950
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00040	<0.00040	<0.0010	<0.0010
Pb-CSR	mg/L	0.160	0.160	0.160	0.160	0.160	0.1600	0.1600	0.1600	0.1600
Mg-D	mg/L	15.1	12.2	14.0	16.0	16.3	52.5	51.2	168	162
Mn-D	mg/L	0.315	0.284	0.298	0.0258	0.0263	1.51	2.32	1.45	1.39
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019		<0.0000019	<0.0000019
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	<0.0050	<0.0050
Ni-D	mg/L	0.0013	<0.0010	0.0012	0.0022	0.0021	0.0023	<0.0020	<0.0050	<0.0050
K-D	mg/L	1.85	1.69	1.68	1.11	1.12	5.93	6.31	7.68	7.49
S-D	mg/L	209	183	181	117	122	472	479	660	636
Sb-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010	<0.0010	<0.0025	<0.0025
Se-D	mg/L	0.00016	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00020	<0.00050	<0.00050
Si-D	mg/L	3.35	3.57	3.16	3.39	3.41	4.28	6.11	3.64	3.41
Sr-D	mg/L	2.14	1.91	1.72	0.860	0.863	4.68	2.18	4.90	4.69
Tl-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000020	<0.000020	<0.000050	<0.000050
Ti-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.025	<0.025
V-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.025	<0.025
N-NH3	mg/L	0.058	0.075	0.085						

Notes:

Groundwater = GW River Barrier Pillar = RBP

Table 35 In-Situ Groundwater Wells Q4 3 Page(s)

In-situ Groundwater Q4		242 Mine Pool		7 South Portal Sump			1Mains 7S and Area 5			7 South Area 5		
Water Level	Well ID m Replicates (R)	242MW 21.6	242MW 21.6 R	7SP5	7SP5	7SP5	1M7SA5	1M7SA5	1M7SA5	7SA5	7SA5	7SA5
Date Parameter	Units	3-Mar-22	3-Mar-22	18-Jan-22	1-Feb-22	1-Mar-22	27-Jan-22	14-Feb-22	29-Mar-22	27-Jan-22	14-Feb-22	29-Mar-22
SO4-D	mg/L	77	78	130	160	170	210	170	110	37	44	45
S ²⁻ as H ₂ S	mg/L	0.000957	0.000957									
Cond-F	uS/cm	210.2	210.2	447	517	458	1002	606	445.1	438	436	373.1
pH-F	pH Units	5.15	5.15	7	7.36	7.1	7.78	7.46	7.87	8.14	7.57	7.99
Temp-F	C	7.4	7.4	4.2	5.5	8.1		12	11.468		13.6	14.978
DO-F	mg/L	2.17	2.17									
ORP-F	mV	156.3	156.3									
Turb	NTU	1.4	1.3				2.2	3.3	1.8	1.5	5.6	0.86
Alk-T	mg/L	12	11	61	65	61	150	130	150	160	160	160
Acidity83	mg/L	13.0	9.1	4.9	2.2	2.2	5.2	<1.0	<1.0	<1.0	2.1	<1.0
N-D	mg/L	0.086	0.082				0.204	0.231	0.203	0.391	0.218	0.171
DOC	mg/L	0.50	0.52				<0.50	<0.50	0.69	0.92	<0.50	0.58
Hydrox	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bicarb	mg/L	15	14	75	79	74	180	160	190	200	200	200
Cl-D	mg/L	<1.0	<1.0				1.5	1.8	1.9	1.5	2.3	2.3
F-D	mg/L	<0.050	<0.050				0.37	0.34	0.39	0.52	0.58	0.49
Br-D	mg/L	<0.010	<0.010				0.019	0.023	<0.010	<0.010	<0.010	<0.010
P-D	mg/L	<0.0030	<0.0030				<0.0030	<0.0030	0.0071	0.011	0.0082	0.014
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
As-D	mg/L	0.00291	0.00291	0.00128	0.00068	0.00036	0.0785	0.0709	0.128	0.225	0.224	0.230
Ba-D	mg/L	0.0286	0.0296	0.0125	0.0142	0.0113	0.142	0.141	0.211	0.325	0.150	0.153
B-D	mg/L	0.071	0.069	0.071	0.060	0.052	0.400	0.370	0.515	0.507	0.552	0.593
Be-D	mg/L	0.00012	0.00011	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Bi-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cd-D	mg/L	0.000023	0.000025	0.000011	0.000015	0.000017	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Ca-D	mg/L	31.0	31.3	52.6	57.6	57.6	89.5	76.6	59.3	42.6	44.5	43.0
Co-D	mg/L	0.00135	0.00135	0.00207	0.00222	0.00295	0.00116	0.00119	0.00025	<0.00020	<0.00020	<0.00020
Cu-D	mg/L	0.00147	0.00143	0.00097	0.00117	0.00149	0.00025	0.00036	0.00039	<0.00020	<0.00020	<0.00020
Fe-D	mg/L	1.79	1.78	1.86	0.799	0.975	0.0829	0.0246	0.0216	0.0103	0.0062	0.0086
Hard-D	mg/L	84.9	85.7	177	196	200	296	257	203	142	152	148
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Pb-CSR	mg/L	0.0500	0.0500	0.0600	0.0600	0.110	0.110	0.110	0.110	0.0600	0.0600	0.0600
Mg-D	mg/L	1.82	1.83	11.1	12.6	13.6	17.6	15.9	13.4	8.72	9.97	9.81
Mn-D	mg/L	0.122	0.121	0.101	0.123	0.157	0.0639	0.0579	0.0171	0.0103	0.0072	0.0071
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019		<0.0000019	<0.0000019	
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0012	0.0012
Ni-D	mg/L	0.0034	0.0034	0.0046	0.0050	0.0065	0.0030	0.0032	0.0013	<0.0010	<0.0010	<0.0010
K-D	mg/L	0.422	0.421	0.732	0.729	0.676	2.15	1.93	2.22	2.19	2.23	2.20
S-D	mg/L	25.4	25.4	43.3	48.1	49.8	65.1	53.0	32.6	9.8	14.8	15.0
Sb-D	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Si-D	mg/L	4.27	4.36	3.58	3.79	4.15	4.08	4.24	4.88	5.18	5.32	5.56
Sr-D	mg/L	0.0376	0.0377	0.177	0.204	0.194	0.695	0.555	0.586	0.514	0.519	0.537
Tl-D	mg/L	0.000388	0.000408	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Ti-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
V-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
N-NH3	mg/L			0.021	0.019	0.023		0.022	<0.015		0.024	<0.015

Notes:

Groundwater = GW River Barrier Pillar = RBP

Table 36 Ex-Situ Groundwater Wells Q1 5 Page(s)

Ex-Situ Ground Water Q1	Area Well ID.	Freshwater Aquatic Life (CSR-AW)	QU0810	7-South QU0813A	QU0813B
Topo Elev.	MASL				
Bottom Elev.	MASL				
Water Level	m		27.19	8.97	6.3
Parameter	Replicates				
Date	Units		17-May-21	12-May-21	12-May-21
SO4-D	mg/L	1280	79	130	170
Turb	NTU		15	3.7	20
Alk-T	mg/L		160	200	270
Acidity ⁸³	mg/L		3.7	<1.0	<1.0
N-D	mg/L		0.461	0.208	0.244
DOC	mg/L			1.3	0.81
Hydrox	mg/L		<1.0	<1.0	<1.0
Bicarb	mg/L		190	240	330
Carb	mg/L		<1.0	<1.0	<1.0
Cl-D	mg/L	1500	<1.0	32	34
F-D	mg/L	2 to 3	0.52	0.66	0.62
Br-D	mg/L		<0.010	0.062	0.070
P-D	mg/L		0.010	0.028	0.037
Al-D	mg/L		0.0039	<0.0030	0.0127
Ag-D	mg/L	0.0005 - 0.015	<0.000020	<0.000020	<0.000020
As-D	mg/L	0.05	0.00055	0.446	0.458
Ba-D	mg/L	10	0.0805	0.309	0.155
B-D	mg/L	50	0.203	0.801	1.29
Be-D	mg/L	0.053	<0.00010	<0.00010	<0.00010
Bi-D	mg/L		<0.0010	<0.0010	<0.0010
Cd-D	mg/L	0.0005	0.000018	<0.000010	<0.000010
Ca-D	mg/L		61.2	51.7	57.6
Cr-D	mg/L	0.01	<0.0010	<0.0010	<0.0010
Co-D	mg/L	0.04	<0.00020	<0.00020	<0.00020
Cu-D	mg/L	0.02	0.00310	<0.00020	<0.00020
Fe-D	mg/L		0.0053	0.283	0.412
Hard-D	mg/L		206	180	192
Pb-D	mg/L	0.04	<0.00020	<0.00020	<0.00020
Mg-D	mg/L		13.1	12.4	11.6
Mn-D	mg/L		0.0182	0.0519	0.102
Hg-D	mg/L	0.00025	<0.0000019	<0.0000019	<0.0000019
Na-D	mg/L		5.00	75.5	115
Mo-D	mg/L	10	<0.0010	<0.0010	0.0011
Ni-D	mg/L		0.0021	<0.0010	<0.0010
K-D	mg/L		2.78	2.57	2.84
S-D	mg/L		24.6	41.2	52.6
Sb-D	mg/L	0.09	<0.00050	<0.00050	<0.00050
Se-D	mg/L	0.02	0.00016	0.00062	<0.00010
Si-D	mg/L		3.61	3.86	4.57
Sr-D	mg/L		0.584	0.805	0.762
Tl-D	mg/L	0.003	0.000021	<0.000010	<0.000010
Ti-D	mg/L	1	<0.0050	<0.0050	<0.0050
U-D	mg/L	0.085	0.00080	<0.00010	0.00010
V-D	mg/L		<0.0050	<0.0050	<0.0050
Zn-D	mg/L	0.075	<0.0050	<0.0050	<0.0050
H2SEquiv	mg/L	0.02	0.00882	0.223	0.0627
Notes:					
Bold Red - indicates result is greater than standard					
Groundwater = GW River Barrier Pillar = RBP					

Table 36 Ex-Situ Groundwater Wells Q1 5 Page(s)

Ex-Situ Ground Water Q1 Topo Elev. Bottom Elev. Water Level Parameter Date	Area Well ID. MASL MASL m Replicates Units	Freshwater Aquatic Life (CSR-AW)	QU0821GD At collar QU0821GD-26MAY21-R 26-May-21	QU0821GD At collar 26-May-21	2 / 3 North QU0821GS At collar 26-May-21	QU1010D 30.45 QU1010D-18MAY21-R 18-May-21	QU1010D 30.45 18-May-21
SO4-D	mg/L	1280	<1.0	<1.0	<1.0	<1.0	<1.0
Turb	NTU		6.8	7.2	4.0	60	54
Alk-T	mg/L		210	210	210	91	90
Acidity83	mg/L		<1.0	<1.0	<1.0	13.4	13.0
N-D	mg/L		0.498	0.515	0.476	0.788	0.785
DOC	mg/L		<13	<13	<5.0	10	12
Hydrox	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Bicarb	mg/L		260	250	250	110	110
Carb	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0
Cl-D	mg/L	1500	910	910	620	3200	3400
F-D	mg/L	2 to 3	1.2	1.2	1.3	<0.050	<0.050
Br-D	mg/L		1.3	1.3	0.87	4.3	4.4
P-D	mg/L		0.027	0.026	0.0088	0.043	0.045
Al-D	mg/L		<0.015	<0.015	<0.015	<0.015	<0.015
Ag-D	mg/L	0.0005 - 0.015	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
As-D	mg/L	0.05	0.167	0.165	0.111	0.0115	0.0112
Ba-D	mg/L	10	2.03	1.99	1.40	1.35	1.33
B-D	mg/L	50	2.69	2.66	2.32	0.35	0.34
Be-D	mg/L	0.053	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Bi-D	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Cd-D	mg/L	0.0005	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Ca-D	mg/L		89.3	90.7	62.6	576	568
Cr-D	mg/L	0.01	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Co-D	mg/L	0.04	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cu-D	mg/L	0.02	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Fe-D	mg/L		0.884	0.915	0.306	5.74	5.74
Hard-D	mg/L		278	281	196	1490	1470
Pb-D	mg/L	0.04	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Mg-D	mg/L		13.4	13.3	9.68	12.0	11.9
Mn-D	mg/L		0.0701	0.0693	0.0575	0.381	0.376
Hg-D	mg/L	0.00025	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019
Na-D	mg/L		464	463	332	1360	1330
Mo-D	mg/L	10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Ni-D	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
K-D	mg/L		8.59	8.31	6.75	8.24	8.13
S-D	mg/L		<15	<15	<15	<15	<15
Sb-D	mg/L	0.09	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
Se-D	mg/L	0.02	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Si-D	mg/L		4.08	4.09	3.83	3.73	3.67
Sr-D	mg/L		1.97	1.93	1.36	6.05	6.01
Tl-D	mg/L	0.003	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Ti-D	mg/L	1	<0.025	<0.025	<0.025	<0.025	<0.025
U-D	mg/L	0.085	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
V-D	mg/L		<0.025	<0.025	<0.025	<0.025	<0.025
Zn-D	mg/L	0.075	<0.025	<0.025	<0.025	<0.025	<0.025
H2SEquiv	mg/L	0.02	0.0532	0.0489	0.0170	0.000957	0.000957
Notes:							
Bold Red - indicates result is greater than standard							
Groundwater = GW River Barrier Pillar = RBP							

Table 36 Ex-Situ Groundwater Wells Q1 5 Page(s)

Ex-Situ Ground Water Q1	Area Well ID.	Freshwater Aquatic Life (CSR-AW)	2 / 3 North			
Topo Elev.	MASL		QU1010S	QU1011D	QU1011S	QU1011S
Bottom Elev.	MASL					
Water Level	m		31.88	26.26	6.4	6.4
Parameter	Replicates		QU1011S-17MAY21-R			
Date	Units		19-May-21	17-May-21	17-May-21	17-May-21
SO4-D	mg/L	1280	29	1.5	3.3	3.1
Turb	NTU		25	290	2.4	2.5
Alk-T	mg/L		310	340	150	150
Acidity83	mg/L		2.5	5.1	4.3	3.3
N-D	mg/L		0.390	0.341	0.110	0.117
DOC	mg/L		4.6	1.7	1.2	1.2
Hydrox	mg/L		<1.0	<1.0	<1.0	<1.0
Bicarb	mg/L		380	420	180	180
Carb	mg/L		<1.0	<1.0	<1.0	<1.0
Cl-D	mg/L	1500	640	190	9.8	9.8
F-D	mg/L	2 to 3	0.85	0.67	0.15	0.15
Br-D	mg/L		0.83	0.34	0.016	0.017
P-D	mg/L		0.034	0.048	0.0098	0.0083
Al-D	mg/L		0.0179	<0.0060	<0.0030	<0.0030
Ag-D	mg/L	0.0005 - 0.015	<0.000040	<0.000040	<0.000020	<0.000020
As-D	mg/L	0.05	0.105	0.0458	0.00424	0.00424
Ba-D	mg/L	10	1.07	0.225	0.185	0.185
B-D	mg/L	50	3.11	2.23	0.378	0.380
Be-D	mg/L	0.053	<0.00020	<0.00020	<0.00010	<0.00010
Bi-D	mg/L		<0.0020	<0.0020	<0.0010	<0.0010
Cd-D	mg/L	0.0005	<0.000020	<0.000020	<0.000010	<0.000010
Ca-D	mg/L		76.9	32.0	25.8	25.9
Cr-D	mg/L	0.01	<0.0020	<0.0020	<0.0010	<0.0010
Co-D	mg/L	0.04	<0.00040	<0.00040	0.00021	0.00022
Cu-D	mg/L	0.02	<0.00040	<0.00040	<0.00020	<0.00020
Fe-D	mg/L		0.496	1.19	0.435	0.431
Hard-D	mg/L		243	94.8	89.1	89.3
Pb-D	mg/L	0.04	<0.00040	<0.00040	<0.00020	<0.00020
Mg-D	mg/L		12.4	3.62	5.97	6.01
Mn-D	mg/L		0.182	0.148	0.0749	0.0758
Hg-D	mg/L	0.00025	<0.0000019	<0.0000019	<0.0000019	<0.0000019
Na-D	mg/L		447	215	27.8	28.4
Mo-D	mg/L	10	<0.0020	<0.0020	<0.0010	<0.0010
Ni-D	mg/L		<0.0020	<0.0020	<0.0010	<0.0010
K-D	mg/L		7.80	3.81	1.70	1.73
S-D	mg/L		9.1	<6.0	<3.0	<3.0
Sb-D	mg/L	0.09	<0.0010	<0.0010	<0.00050	<0.00050
Se-D	mg/L	0.02	<0.00020	<0.00020	<0.00010	<0.00010
Si-D	mg/L		5.07	4.69	3.49	3.41
Sr-D	mg/L		1.54	0.483	0.302	0.307
Tl-D	mg/L	0.003	<0.000020	<0.000020	<0.000010	<0.000010
Ti-D	mg/L	1	<0.010	<0.010	<0.0050	<0.0050
U-D	mg/L	0.085	0.00023	<0.00020	<0.00010	<0.00010
V-D	mg/L		<0.010	<0.010	<0.0050	<0.0050
Zn-D	mg/L	0.075	<0.010	<0.010	<0.0050	<0.0050
H2SEquiv	mg/L	0.02	0.0850	0.170	0.000957	0.000957
Notes:						
Bold Red - indicates result is greater than standard						
Groundwater = GW River Barrier Pillar = RBP						

Table 36 Ex-Situ Groundwater Wells Q1 5 Page(s)

Ex-Situ Ground Water Q1 Topo Elev. Bottom Elev. Water Level Parameter Date	Area Well ID. MASL MASL m Replicates Units	Freshwater Aquatic Life (CSR-AW)	2-North / RBP				4-South		
			QU1105D	QU1105S	QU1109S	QU1109S	QU1008D	QU1009S	QU1009D
			At collar	11.29	5.23	5.23	37.411	3.6	4.53
			QU1109S-15Jun21-R						
			19-May-21	19-May-21	15-Jun-21	15-Jun-21	22-Jun-21	11-May-21	11-May-21
SO4-D	mg/L	1280	420	570	440	430	1.0	120	75
Turb	NTU		3.0	17	23	25	190	30	5.1
Alk-T	mg/L		260	460	500	490	290	140	180
Acidity83	mg/L		5.4	3.1	9.6	9.3	<1.0	10.6	2.2
N-D	mg/L		0.397	0.372	0.489	0.543	0.180	0.180	0.164
DOC	mg/L		23	0.59	0.92	1.1	5.3	1.5	1.4
Hydrox	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bicarb	mg/L		310	560	600	590	350	170	220
Carb	mg/L		<1.0	<1.0	3.8	5.8	3.9	<1.0	<1.0
Cl-D	mg/L	1500	1300	20	52	53	7.3	<1.0	1.4
F-D	mg/L	2 to 3	<0.050	0.48	0.43	0.44	2.30	0.055	0.25
Br-D	mg/L		2.2	0.097	0.13	0.12	0.018	0.031	0.020
P-D	mg/L		0.054	0.015	0.0090	0.0074	0.22	0.010	0.013
Al-D	mg/L		<0.015	<0.0060	<0.0060	<0.0060	0.223	<0.0030	<0.0030
Ag-D	mg/L	0.0005 - 0.015	<0.00010	<0.000040	<0.000040	<0.000040	<0.000040	<0.000020	<0.000020
As-D	mg/L	0.05	0.00141	0.133	0.0873	0.0879	0.147	0.0832	0.110
Ba-D	mg/L	10	0.105	0.0496	0.0319	0.0325	0.0331	0.124	0.112
B-D	mg/L	50	0.46	1.79	2.00	2.06	2.05	0.053	0.493
Be-D	mg/L	0.053	<0.00050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010
Bi-D	mg/L		<0.0050	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010
Cd-D	mg/L	0.0005	<0.000050	<0.000020	<0.000020	<0.000020	<0.000020	<0.000010	<0.000010
Ca-D	mg/L		164	105	39.7	39.3	2.87	71.7	51.4
Cr-D	mg/L	0.01	<0.0050	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010
Co-D	mg/L	0.04	<0.0010	<0.00040	<0.00040	<0.00040	<0.00040	<0.00020	<0.00020
Cu-D	mg/L	0.02	<0.0010	<0.00040	<0.00040	<0.00040	<0.00040	<0.00020	<0.00020
Fe-D	mg/L		<0.025	2.70	0.862	0.867	0.174	5.22	0.597
Hard-D	mg/L		430	329	135	134	8.38	221	170
Pb-D	mg/L	0.04	<0.0010	<0.00040	<0.00040	<0.00040	<0.00040	<0.00020	<0.00020
Mg-D	mg/L		5.35	16.1	8.80	8.77	0.30	10.2	10.0
Mn-D	mg/L		0.0603	0.252	0.0725	0.0727	0.173	0.381	0.0540
Hg-D	mg/L	0.00025	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019
Na-D	mg/L		928	348	387	382	128	8.71	31.8
Mo-D	mg/L	10	<0.0050	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010
Ni-D	mg/L		<0.0050	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010
K-D	mg/L		5.09	6.49	5.05	5.08	0.76	0.652	1.52
S-D	mg/L		142	204	150	149	<6.0	35.5	23.1
Sb-D	mg/L	0.09	<0.0025	<0.0010	<0.0010	<0.0010	<0.0010	<0.00050	<0.00050
Se-D	mg/L	0.02	<0.00050	<0.00020	<0.00020	<0.00020	0.00117	<0.00010	<0.00010
Si-D	mg/L		4.40	5.05	5.62	5.58	5.45	8.79	9.63
Sr-D	mg/L		1.78	1.55	0.722	0.735	0.0798	0.274	0.910
Tl-D	mg/L	0.003	<0.000050	<0.000020	<0.000020	<0.000020	<0.000020	<0.000010	<0.000010
Ti-D	mg/L	1	<0.025	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.0050
U-D	mg/L	0.085	<0.00050	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010
V-D	mg/L		<0.025	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.0050
Zn-D	mg/L	0.075	<0.025	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.0050
H2SEquiv	mg/L	0.02	24.4	0.138	2.66	2.87	0.255	0.0117	0.0861
Notes:									
Bold Red - indicates result is greater than standard									
Groundwater = GW River Barrier Pillar = RBP									

Table 36 Ex-Situ Groundwater Wells Q1 5 Page(s)

Ex-Situ Ground Water Q1	Area Well ID.	Freshwater Aquatic Life (CSR-AW)	MW001D	MW001S	Below Plant Monitoring Wells MW001S	MW006D	MW006S	MW006S
Topo Elev.	MASL							
Bottom Elev.	MASL							
Water Level	m		3.98	9.501	9.501	4.662	5.841	5.841
Parameter	Replicates		MW001S-17Jun21-R		MW006S-21Jun21-R			
Date	Units		17-Jun-21	17-Jun-21	17-Jun-21	21-Jun-21	21-Jun-21	21-Jun-21
SO4-D	mg/L	1280	620	580	560	13	600	560
Turb	NTU		49	7.7	7.9	0.13	0.22	0.26
Alk-T	mg/L		340	300	280	80	160	150
Acidity83	mg/L		38.4	40.4	37.7	<1.0	4.0	2.7
N-D	mg/L		0.150	0.145	0.126	0.154	0.219	0.237
DOC	mg/L		2.7	2.2	2.3	<0.50	1.4	1.3
Hydrox	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bicarb	mg/L		420	360	350	98	190	180
Carb	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cl-D	mg/L	1500	2.1	2.1	1.9	1.5	3.8	3.5
F-D	mg/L	2 to 3	<0.050	<0.050	<0.050	0.099	0.066	0.061
Br-D	mg/L		0.069	0.078	0.077	<0.010	0.076	0.10
P-D	mg/L		0.0064	<0.0030	<0.0030	0.15	0.046	0.048
Al-D	mg/L		<0.0030	<0.0030	<0.0030	0.0164	<0.0030	<0.0030
Ag-D	mg/L	0.0005 - 0.015	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
As-D	mg/L	0.05	0.00280	0.00100	0.00102	0.0293	0.00152	0.00155
Ba-D	mg/L	10	0.0503	0.0237	0.0233	0.0115	0.0313	0.0314
B-D	mg/L	50	0.333	0.347	0.349	0.054	0.160	0.161
Be-D	mg/L	0.053	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Bi-D	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cd-D	mg/L	0.0005	0.000040	0.000072	0.000072	<0.000010	0.000018	0.000018
Ca-D	mg/L		229	231	234	16.4	134	133
Cr-D	mg/L	0.01	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Co-D	mg/L	0.04	0.00216	0.00217	0.00218	0.00050	<0.00020	<0.00020
Cu-D	mg/L	0.02	<0.00020	<0.00020	<0.00020	0.00042	0.00073	0.00071
Fe-D	mg/L		3.60	0.769	0.770	0.0166	<0.0050	<0.0050
Hard-D	mg/L		719	741	747	43.0	388	385
Pb-D	mg/L	0.04	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mg-D	mg/L		35.6	40.1	39.6	0.512	12.9	12.7
Mn-D	mg/L		1.96	1.62	1.59	0.0906	0.0301	0.0259
Hg-D	mg/L	0.00025	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019
Na-D	mg/L		79.6	81.1	81.8	19.3	133	131
Mo-D	mg/L	10	<0.0010	<0.0010	<0.0010	0.0033	0.0293	0.0294
Ni-D	mg/L		0.0027	0.0012	0.0012	<0.0010	<0.0010	<0.0010
K-D	mg/L		1.91	1.84	1.84	0.784	2.13	2.09
S-D	mg/L		186	216	217	3.8	190	187
Sb-D	mg/L	0.09	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Se-D	mg/L	0.02	<0.00010	<0.00010	<0.00010	<0.00010	0.00026	0.00027
Si-D	mg/L		8.25	8.49	8.43	3.22	4.41	4.54
Sr-D	mg/L		1.32	1.48	1.45	0.0835	0.799	0.790
Tl-D	mg/L	0.003	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Ti-D	mg/L	1	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
U-D	mg/L	0.085	0.00181	0.00194	0.00192	0.00068	0.00609	0.00600
V-D	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Zn-D	mg/L	0.075	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
H2SEquiv	mg/L	0.02	0.0170	0.00372	0.000957	0.000957	0.000957	0.000957
Notes:								
Bold Red - indicates result is greater than standard								
Groundwater = GW River Barrier Pillar = RBP								

Table 37 Ex-Situ Groundwater Wells Q2 2 Page(s)

Ex-Situ Ground Water Q2	Area Well ID	Freshwater Aquatic Life (CSR-AW)	2 / 3 North							
			QU0821GS	QU0821GS	QU0821GD	QU1010S	QU1010D	QU1011S	QU1011D	QU1011D
Water Level	m		Rep							
Parameter	Replicates									
Date	Units		5-Aug-21	5-Aug-21	5-Aug-21	2-Sep-21	2-Sep-21	24-Aug-21	24-Aug-21	24-Aug-21
SO4-D	mg/L	1280	2.3	1.7	3.0	7.1	2.3	7.7	<1.0	<1.0
H2SEquiv	mg/L	0.02	0.0298	0.0361	0.0585	0.574	0.000957	0.000957	0.0861	0.0744
Cond-F	uS/cm		1153.9		3480.6	1936	10145.6	319.4	181.1	
pH-F	pH Units		7.59		7.36	7.71	7.00	7.05	6.87	
Turb	NTU		4.6	4.5	4.8	1300	59	0.91	4.4	4.2
Alk-T	mg/L		200	180	200	210	85	140	340	350
Acidity83	mg/L		<1.0	<1.0	1.1	<1.0	7.1	1.3	9.1	9.7
N-D	mg/L		0.200	0.217	0.424	0.400	0.808	0.135	0.370	0.374
DOC	mg/L		2.1	0.59	6.4	<2.5	42	<0.50	1.8	2.6
Hydrox	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bicarb	mg/L		240	220	250	250	100	180	410	420
Carb	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cl-D	mg/L	1500	250	240	1100	440	3100	4.0	340	350
F-D	mg/L	2 to 3	1.50	1.50	0.990	0.86	<0.050	0.26	0.46	0.46
Br-D	mg/L		0.36	0.36	1.5	0.70	4.3	<0.010	0.60	0.59
P-D	mg/L		0.029	0.034	0.024	0.0097	0.039	0.0097	0.054	0.058
Al-D	mg/L		<0.0060	<0.0060	<0.015	0.0057	0.0058	<0.0030	0.0153	0.0086
Ag-D	mg/L	0.0005 - 0.015	<0.000040	<0.000040	<0.00010	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
As-D	mg/L	0.05	0.183	0.185	0.142	0.0957	0.0117	0.00695	0.0271	0.0272
Ba-D	mg/L	10	0.669	0.673	2.41	0.763	1.35	0.199	0.335	0.331
B-D	mg/L	50	2.10	2.11	3.04	1.59	0.333	0.476	1.43	1.42
Be-D	mg/L	0.053	<0.00020	<0.00020	<0.00050	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Bi-D	mg/L		<0.0020	<0.0020	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cd-D	mg/L		<0.000020	<0.000020	<0.000050	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Ca-D	mg/L		32.1	31.4	114	60.5	631	28.8	54.7	53.1
Cr-D	mg/L	0.01	<0.0020	<0.0020	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Co-D	mg/L	0.04	<0.00040	<0.00040	<0.0010	<0.00020	0.00033	<0.00020	<0.00020	<0.00020
Cu-D	mg/L		0.00055	<0.00040	<0.0010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Fe-D	mg/L		0.345	0.333	1.03	0.208	6.56	0.601	2.20	2.15
Hard-D	mg/L		104	102	347	191	1620	97.5	157	153
Pb-D	mg/L		<0.00040	<0.00040	<0.0010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mg-D	mg/L		5.79	5.64	15.0	9.61	11.7	6.18	4.89	4.86
Mn-D	mg/L		0.0603	0.0599	0.0998	0.151	0.447	0.101	0.234	0.237
Hg-D	mg/L	0.001	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019
Na-D	mg/L		185	185	567	272	1370	23.0	300	299
Mo-D	mg/L	10	<0.0020	<0.0020	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Ni-D	mg/L		<0.0020	<0.0020	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
K-D	mg/L		4.84	4.79	9.00	5.97	8.07	2.39	4.58	4.51
S-D	mg/L		<6.0	<6.0	<15	5.1	<3.0	<3.0	<3.0	<3.0
Sb-D	mg/L	0.2	<0.0010	<0.0010	<0.0025	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Se-D	mg/L	0.01	<0.00020	<0.00020	<0.00050	0.00159	<0.00010	<0.00010	<0.00010	<0.00010
Si-D	mg/L		3.52	3.43	4.09	4.30	3.97	3.75	5.90	5.77
Sr-D	mg/L		0.756	0.737	2.33	1.23	6.35	0.376	0.858	0.864
Tl-D	mg/L	0.003	<0.000020	<0.000020	<0.000050	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Ti-D	mg/L	1	<0.010	<0.010	<0.025	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
U-D	mg/L	3	<0.00020	<0.00020	<0.00050	0.00011	<0.00010	<0.00010	<0.00010	<0.00010
V-D	mg/L		<0.010	<0.010	<0.025	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Zn-D	mg/L		<0.010	<0.010	<0.025	<0.0050	0.0052	<0.0050	<0.0050	<0.0050
Notes:										
Bold Red - indicates result is greater than standard										
Groundwater = GW River Barrier Pillar = RBP										

Table 37 Ex-Situ Groundwater Wells Q2 2 Page(s)

2-North / River Barrier Pillar			River Barrier Pillar			7-South	
QU1105S	QU1105D	QU1105D	QU1109S	QU1109S	QU1109S	QU0813A	QU0813A
27.67	23.08	Rep	6.11	Rep	6.255	14.67	Rep
23-Aug-21	23-Aug-21	23-Aug-21	19-Aug-21	19-Aug-21	27-Sep-21	16-Aug-21	16-Aug-21
71	350	280	290	300	240	67	74
0.0670	42.5	41.5	1.59	1.59	0.0202	0.170	0.234
393.6	5277.6		1578.3		1456.9	627.5	
7.96	7.7		7.5		7.62	7.54	
5.6	0.54	0.42	3.6	2.6	2.8	2.0	1.7
120	320	310	480	490	480	200	220
<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.1
0.154	0.398	0.407	0.381	0.379	0.422	0.224	0.230
<0.50	30	32	<0.50	<0.50	1.2	<0.50	<0.50
<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
150	390	380	590	590	560	240	260
<1.0	1.9	<1.0	<1.0	2.9	13	<1.0	<1.0
2.1	1300	1300	45	45	41	21	24
0.31	<0.050	<0.050	0.56	0.56	0.62	0.061	0.71
<0.010	2.0	2.0	0.10	0.10	0.093	0.038	0.045
0.0066	<0.10	<0.10	0.013	0.012	0.013	0.015	0.018
<0.0030	<0.015	<0.015	<0.0060	<0.0060	<0.0060	<0.0030	<0.0030
<0.000020	<0.00010	<0.00010	<0.000040	<0.000040	<0.000040	<0.000020	<0.000020
0.104	0.00307	0.00324	0.0850	0.0926	0.0982	0.378	0.373
0.0367	0.163	0.162	0.0303	0.0313	0.0310	0.218	0.217
0.453	0.45	0.47	1.93	1.94	1.93	0.986	0.981
<0.00010	<0.00050	<0.00050	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010
<0.0010	<0.0050	<0.0050	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010
<0.000010	<0.000050	<0.000050	<0.000020	<0.000020	<0.000020	<0.000010	<0.000010
12.5	150	145	25.2	26.3	21.8	41.7	42.3
<0.0010	<0.0050	<0.0050	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010
<0.00020	<0.0010	<0.0010	<0.00040	<0.00040	<0.00040	<0.00020	<0.00020
<0.00020	<0.0010	<0.0010	<0.00040	<0.00040	<0.00040	<0.00020	<0.00020
0.141	<0.025	0.038	0.251	0.257	0.151	0.174	0.181
40.5	395	384	86.9	90.1	74.7	146	147
<0.00020	<0.0010	<0.0010	<0.00040	<0.00040	<0.00040	<0.00020	<0.00020
2.25	5.11	5.11	5.80	5.95	4.94	10.1	10.1
0.0283	0.0816	0.0812	0.0349	0.0351	0.0275	0.0370	0.0365
<0.0000019	<0.000019	<0.000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019
63.8	909	899	331	334	293	79.0	78.3
<0.0010	<0.0050	<0.0050	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010
<0.0010	<0.0050	<0.0050	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010
2.15	5.09	5.06	4.18	4.20	3.91	2.60	2.55
21.7	140	135	93.0	94.4	82.6	27.4	25.5
<0.00050	<0.0025	<0.0025	<0.0010	<0.0010	<0.0010	<0.00050	<0.00050
0.00063	0.0209	0.0154	0.00122	<0.00020	0.00230	0.00070	0.00066
3.03	4.56	4.48	5.39	5.57	5.67	4.17	4.16
0.185	1.78	1.79	0.469	0.468	0.410	0.717	0.724
<0.000010	<0.000050	<0.000050	<0.000020	<0.000020	<0.000020	<0.000010	<0.000010
<0.0050	<0.025	<0.025	<0.010	<0.010	<0.010	<0.0050	<0.0050
<0.00010	<0.00050	<0.00050	<0.00020	<0.00020	<0.00020	<0.00010	<0.00010
<0.0050	<0.025	<0.025	<0.010	<0.010	<0.010	<0.0050	<0.0050
<0.0050	<0.025	<0.025	<0.010	<0.010	<0.010	<0.0050	<0.0050

Table 38 Ex-Situ Groundwater Wells Q3 1 Page(s)

Ex-situ Groundwater Q3	Area Well ID		QU1105S	2-North QU1105D	QU1105D	Shallow GW above RBP QU1109S	QU1109S	7-South QU0813A	7-South QU0813B	4-South QU1009S	4-South QU1009D
Water Level Below Casir m			26.81	37.33	37.33	3.42	3.42	11.5	12.533	2.8	4.2
Parameter Date	Replicates (R)	Freshwater Aquatic Life (CSR-AW)			R		R				
SO4-D	mg/L	1280	4-Nov-21	4-Nov-21	4-Nov-21	3-Nov-21	3-Nov-21	30-Nov-21	30-Nov-21	28-Oct-21	28-Oct-21
S ²⁻ as H ₂ S	mg/L	0.02	210	250	240	280	240	76	32	120	73
Cond-F	uS/cm		0.0606	54.2	52.1	1.81	1.81	0.181	0.0213	0.0223	0.0819
pH-F	pH Units		992.8	4966.6	4966.6	1388	1388	562.7	311.4	458.1	454.7
Temp-F	C		6.98	7.82	7.82	7.77	7.77	7.87	8.12	6.91	7.48
DO-F	mg/L		9.734	9.695	9.695	8.974	8.974	8.2	8	8.308	8.069
ORP-F	mV		0.39	0.36	0.36	0.51	0.51	0.46	0.36	0.48	0.44
Turb	NTU		-235.1	-354.4	-354.4	-181.3	-181.3	-227.1	-181.4	-126.4	-179.3
Alk-T	mg/L		7.1	170	170	3.3	3.2	3.0	6.6	41	7.0
Acidity83	mg/L		330	350	340	470	470	210	130	150	180
N-D	mg/L		9.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	18.4	10.0
DOC	mg/L		0.237	0.367	0.372	0.383	0.363	0.20	0.091	0.171	0.203
Hydrox	mg/L		2.1	<5.0	<5.0	<0.50	<0.50	0.94	0.85	0.89	2.1
Bicarb	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carb	mg/L		400	420	420	520	540	250	160	180	220
Cl-D	mg/L	1500	<1.0	<1.0	<1.0	25	17	<1.0	<1.0	<1.0	<1.0
F-D	mg/L	3	0.18	0.050	<0.050	0.60	0.61	0.74	0.43	0.080	0.24
Br-D	mg/L		0.035	2.0	2.0	0.089	0.093	0.032	<0.010	0.037	0.018
P-D	mg/L		0.0034	0.28	0.28	0.017	0.017	0.042	0.044	0.011	0.012
Al-D	mg/L		<0.0030	0.0132	0.0125	<0.0030	<0.0060	<0.0030	<0.0030	<0.0030	<0.0030
Ag-D	mg/L	0.0005 to 0.015	<0.000020	<0.000040	<0.000040	<0.000020	<0.000040	<0.000020	<0.000020	<0.000020	<0.000020
As-D	mg/L	0.05	0.0589	0.00479	0.00492	0.102	0.0953	0.374	0.533	0.0941	0.104
Ba-D	mg/L	10	0.0983	0.161	0.154	0.0342	0.0341	0.212	0.0567	0.129	0.120
B-D	mg/L	50	1.22	0.51	0.52	1.85	1.80	0.812	0.331	0.062	0.418
Be-D	mg/L	0.053	<0.00010	<0.00020	<0.00020	<0.00010	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010
Bi-D	mg/L		<0.0010	<0.0020	<0.0020	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010
Cd-D	mg/L		<0.000010	<0.000020	<0.000020	<0.000010	<0.000020	<0.000010	<0.000010	<0.000010	<0.000010
Ca-D	mg/L		58.6	138	135	21.9	22.1	42.3	30.2	73.7	56.0
Cr-D	mg/L	0.01	<0.0010	<0.0020	<0.0020	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010
Cu-D	mg/L	0.04	<0.00020	<0.00040	<0.00040	<0.00020	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020
Co-D	mg/L	0.04 to 0.09	<0.00020	<0.00040	<0.00040	<0.00020	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020
Fe-D	mg/L		1.09	<0.010	<0.010	0.121	0.128	0.289	0.139	4.56	0.679
Hard-D	mg/L		189	362	353	76.8	77.0	149	97.9	229	186
Pb-D	mg/L	0.06 to 0.16	<0.00020	<0.00040	<0.00040	<0.00020	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020
Mg-D	mg/L		10.4	4.35	4.20	5.39	5.28	10.5	5.45	10.9	11.3
Mn-D	mg/L		0.233	0.112	0.108	0.0257	0.0269	0.0601	0.0675	0.359	0.0547
Hg-D	mg/L	0.001	<0.0000019	<0.000019	<0.000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019
Na-D	mg/L		158	866	831	310	307	64.5	28.4	9.35	31.2
Mo-D	mg/L	10	<0.0010	<0.0020	<0.0020	<0.0010	<0.0020	<0.0010	0.0023	<0.0010	<0.0010
Ni-D	mg/L	0.650 to 1.50	<0.0010	<0.0020	<0.0020	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010
K-D	mg/L		3.42	4.68	4.53	4.07	4.08	2.60	1.47	0.711	1.67
S-D	mg/L		75.1	293	294	102	93.2	24.1	11.7	34.6	26.0
Sb-D	mg/L	0.2	<0.00050	<0.0010	<0.0010	<0.00050	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050
Se-D	mg/L	0.01	<0.00010	0.0158	0.0132	0.00182	0.00136	0.00015	<0.00010	0.00012	0.00068
Si-D	mg/L		3.47	6.26	6.04	5.67	5.85	4.16	4.63	9.20	9.70
Sr-D	mg/L		0.688	1.68	1.61	0.417	0.411	0.619	0.261	0.283	0.919
Tl-D	mg/L	0.003	<0.000010	<0.000020	<0.000020	<0.000010	<0.000020	<0.000010	<0.000010	<0.000010	<0.000010
Ti-D	mg/L	1	<0.0050	<0.010	<0.010	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
U-D	mg/L	3	<0.00010	<0.00020	<0.00020	<0.00010	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010
V-D	mg/L		<0.0050	<0.010	<0.010	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
Zn-D	mg/L	0.9 to 2.4	<0.0050	<0.010	<0.010	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050

Notes:
Bold Red - indicates result is greater than standard
Groundwater = GW River Barrier Pillar = RBP

Table 39 Ex-Situ Groundwater Wells Q4 3 Page(s)

Ex-situ Groundwater Q4			2N / 3N Mine Area					2-North	
Well ID			QU0821GS	QU0821GD	QU1010S	QU1010D	QU1010D	QU1105S	QU1105D
Water Level	m		Top of Casing	0	31	29.74	29.74	8.29	2.02
Replicates (R)							R		
Parameter	Units	Freshwater Aquatic Life (CSR-AW)							
Date			17-Mar-22	17-Mar-22	23-Mar-22	23-Mar-22	23-Mar-22	8-Mar-22	8-Mar-22
SO4-D	mg/L	1280	<1.0	<1.0	7.9	<1.0	<1.0	420	390
S ²⁻ as H ₂ S	mg/L	0.02	0.149	0.0904	0.415	0.0106	0.00999	0.234	40.4
Cond-F	uS/cm		542.6	2435.7	7.74	6.86	6.86	1632.6	5109
pH-F	pH Units		8.11	7.54	7.869	7.765	7.765	7.04	7.52
Temp-F	C		8.383	8.662	1255.6	9495.7	9495.7	7.967	7.5
DO-F	mg/L		0.6	0.79	0.5	0.48	0.48	0.9	0.43
ORP-F	mV		-167.3	-94	-186.6	-85	-85	-99.6	-365.6
Turb	NTU		1.5	6.6	160	90	87	25	46
Alk-T	mg/L		190	210	270	91	89	400	310
Acidity83	mg/L		<1.0	<1.0	1.8	20.6	19.5	2.2	<1.0
N-D	mg/L		0.237	0.421	0.316	0.738	0.781	0.354	0.438
DOC	mg/L		0.97	9.5	1.6	<13	<13	0.93	7.0
Hydrox	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bicarb	mg/L		240	250	330	110	110	490	360
Carb	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	8.2
Cl-D	mg/L	1500	68	720	250	3500	3500	13	1300
F-D	mg/L		1.6	1.3	0.93	<0.050	<0.050	0.44	<0.050
Flu-CSR	mg/L	2 to 3	3.00	3.00	3.00	3.000	3.000	3.00	3.00
Br-D	mg/L		0.062	0.95	0.39	5.1	4.9	0.044	2.0
P-D	mg/L	0.05	0.038	0.027	0.032	0.050	0.047	0.0094	0.11
Al-D	mg/L	10	<0.0030	<0.015	0.0645	<0.015	<0.015	<0.0030	<0.015
Ag-D	mg/L	0.0005 to 0.015	<0.000020	<0.00010	<0.000040	<0.00010	<0.00010	<0.000020	<0.00010
As-D	mg/L	0.05	0.211	0.186	0.112	0.0116	0.0119	0.127	0.00151
Ba-D	mg/L	10	0.316	1.78	0.421	1.31	1.32	0.0699	0.108
B-D	mg/L	50	1.90	2.82	2.31	0.39	0.38	1.27	0.41
Be-D	mg/L	0.053	<0.00010	<0.00050	<0.00020	<0.00050	<0.00050	<0.00010	<0.00050
Bi-D	mg/L	0.04	<0.0010	<0.0050	<0.0020	<0.0050	<0.0050	<0.0010	<0.0050
Cd-D	mg/L		<0.000010	<0.000050	<0.000020	<0.000050	<0.000050	<0.000010	<0.000050
Cd-CSR	mg/L		0.000300	0.000600	0.000500	0.0006000	0.0006000	0.000600	0.000600
Ca-D	mg/L		14.7	75.1	32.9	637	635	76.8	148
Cr-D	mg/L	0.01	<0.0010	<0.0050	<0.0020	<0.0050	<0.0050	<0.0010	<0.0050
Co-D	mg/L	0.04	<0.00020	<0.0010	<0.00040	<0.0010	<0.0010	<0.00020	<0.0010
Cu-D	mg/L	0.04 to 0.09	<0.00020	<0.0010	<0.00040	<0.0010	<0.0010	<0.00020	<0.0010
Fe-D	mg/L		0.284	0.615	0.284	7.70	7.70	1.93	<0.025
Hard-D	mg/L		51.5	235	105	1640	1640	237	389
Pb-D	mg/L	0.06 to 0.16	<0.00020	<0.0010	<0.00040	<0.0010	<0.0010	<0.00020	<0.0010
Mg-D	mg/L		3.58	11.5	5.50	12.1	12.1	11.0	4.67
Mn-D	mg/L	0.2	0.0384	0.0481	0.0748	0.513	0.517	0.181	0.0468
Hg-D	mg/L	0.001						<0.0000019	<0.0000019
Na-D	mg/L		104	402	234	1360	1360	264	862
Mo-D	mg/L	10	<0.0010	<0.0050	<0.0020	<0.0050	<0.0050	<0.0010	<0.0050
Ni-D	mg/L	0.25 to 1.50	<0.0010	<0.0050	<0.0020	<0.0050	<0.0050	<0.0010	<0.0050
K-D	mg/L		3.90	8.05	5.12	7.88	7.86	5.53	4.77
S-D	mg/L		<3.0	<15	<6.0	<15	<15	136	227
Sb-D	mg/L	0.2	<0.00050	<0.0025	<0.0010	<0.0025	<0.0025	<0.00050	<0.0025
Se-D	mg/L	0.01	0.00016	<0.00050	0.00177	<0.00050	<0.00050	0.00061	0.0332
Si-D	mg/L		3.90	4.16	4.66	4.03	4.04	4.69	4.27
Sr-D	mg/L		0.434	1.67	0.658	6.31	6.40	1.20	1.75
Tl-D	mg/L	0.003	<0.000010	<0.000050	<0.000020	<0.000050	<0.000050	<0.000010	<0.000050
Ti-D	mg/L	1	<0.0050	<0.025	<0.010	<0.025	<0.025	<0.0050	<0.025
U-D	mg/L	3	<0.00010	<0.00050	<0.00020	<0.00050	<0.00050	<0.00010	<0.00050
V-D	mg/L		<0.0050	<0.025	<0.010	<0.025	<0.025	<0.0050	<0.025
Zn-D	mg/L	0.075 to 2.4	<0.0050	<0.025	<0.010	<0.025	<0.025	<0.0050	<0.025
Notes:									
Bold Red - indicates result is greater than standard									
Groundwater = GW River Barrier Pillar = RBP									

Table 39 Ex-Situ Groundwater Wells Q4 3 Page(s)

Ex-situ Groundwater Q4			2-North Below Plant					7-South			
Well ID			MW001S	MW001D	MW001D	MW006S	MW006D	QU0810	QU0810	QU0813A	QU0813B
Water Level	m		3.23	9.86	9.86	1.8	1.47	24.47	24.47	8.29	1.47
Replicates (R)					R				R		
Parameter	Units	Freshwater Aquatic Life (CSR-AW)	24-Feb-22	24-Feb-22	24-Feb-22	24-Feb-22	2-Mar-22	31-Mar-22	31-Mar-22	2-Mar-22	28-Feb-22
SO4-D	mg/L	1280	310	280	310	420	13	370	430	77	89
S ²⁻ as H ₂ S	mg/L	0.02	0.000957	0.00266	0.000957	0.00266	0.0181	0.000957	0.00266	0.287	0.128
Cond-F	uS/cm		1168.9	1218	1218	1245	183.0	1096.6	1096.6	630.9	608.7
pH-F	pH Units		6.21	6.81	6.81	7.69	8.75	6.81	6.81	7.71	7.87
Temp-F	C		7.615	7	7	7.6	8.3	9.12	9.12	7.9	7.782
DO-F	mg/L		0.86	2.33	2.33	1.2	0.25	1.04	1.04	0.18	0.52
ORP-F	mV		80.8	-25	-25	-1.6	-217.2	141.1	141.1	-236.8	-129.2
Turb	NTU		6.8	34	30	1.6	0.35	9.5	10	2.7	1.8
Alk-T	mg/L		280	330	330	150	75	210	220	210	220
Acidity83	mg/L		36.4	19.9	27.4	3.0	<1.0	11.2	12.3	<1.0	<1.0
N-D	mg/L		0.117	0.125	0.125	0.981	0.121	0.173	0.209	0.245	0.211
DOC	mg/L		2.7	2.5	2.5	1.7	0.68	0.55	0.55	0.56	0.67
Hydrox	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bicarb	mg/L		340	410	410	180	92	260	260	260	270
Carb	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.6
Cl-D	mg/L	1500	1.6	1.7	1.7	3.2	<1.0	<1.0	<1.0	23	21
F-D	mg/L		<0.050	<0.050	<0.050	0.062	0.11	0.32	0.33	0.71	0.64
Flu-CSR	mg/L	2 to 3	3.00	3.00	3.00	3.00	2.00	3.00	3.00	3.00	3.00
Br-D	mg/L		0.067	0.069	0.079	0.072	<0.010	0.054	0.060	0.034	0.030
P-D	mg/L	0.05	<0.0030	0.010	0.010	0.088	0.15	0.0069	0.0072	0.061	0.057
Al-D	mg/L	10	<0.0030	0.0048	0.0058	<0.0030	0.0154	<0.0030	<0.0030	<0.0030	<0.0030
Ag-D	mg/L	0.0005 to 0.015	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
As-D	mg/L	0.05	0.00265	0.00301	0.00293	0.00198	0.0307	0.00039	0.00038	0.455	0.501
Ba-D	mg/L	10	0.0201	0.0365	0.0363	0.0273	0.0104	0.0429	0.0438	0.235	0.105
B-D	mg/L	50	0.264	0.289	0.267	0.127	<0.050	0.282	0.280	0.803	0.959
Be-D	mg/L	0.053	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Bi-D	mg/L	0.04	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cd-D	mg/L		0.000041	0.000052	0.000054	0.000019	<0.000010	0.000054	0.000052	<0.000010	<0.000010
Cd-CSR	mg/L		0.000600	0.000600	0.000600	0.000600	0.000300	0.000600	0.000600	0.000600	0.000500
Ca-D	mg/L		169	186	180	122	17.9	198	197	46.9	43.5
Cr-D	mg/L	0.01	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Co-D	mg/L	0.04	0.00178	0.00232	0.00236	<0.00020	<0.00020	0.00154	0.00155	<0.00020	<0.00020
Cu-D	mg/L	0.04 to 0.09	<0.00020	0.00070	0.00091	0.00068	<0.00020	0.00095	0.00124	<0.00020	<0.00020
Fe-D	mg/L		1.16	2.55	2.57	<0.0050	0.0654	0.0402	0.0418	0.272	0.233
Hard-D	mg/L		541	579	564	351	47.0	655	655	165	143
Pb-D	mg/L	0.06 to 0.16	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Mg-D	mg/L		29.2	27.7	27.6	11.4	0.556	38.9	39.4	11.5	8.45
Mn-D	mg/L	0.2	1.36	1.61	1.61	0.0522	0.0385	0.208	0.206	0.0538	0.0779
Hg-D	mg/L	0.001	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019			<0.0000019	<0.0000019
Na-D	mg/L		62.7	66.4	66.9	148	21.7	10.4	10.7	76.9	81.9
Mo-D	mg/L	10	<0.0010	<0.0010	<0.0010	0.0319	0.0033	<0.0010	<0.0010	<0.0010	0.0013
Ni-D	mg/L	0.25 to 1.50	<0.0010	0.0023	0.0023	0.0011	<0.0010	0.0077	0.0077	<0.0010	<0.0010
K-D	mg/L		1.39	1.56	1.58	2.17	0.797	4.22	4.28	2.69	2.19
S-D	mg/L		127	124	125	166	4.3	150	152	26.7	26.7
Sb-D	mg/L	0.2	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Se-D	mg/L	0.01	<0.00010	<0.00010	<0.00010	0.00025	<0.00010	<0.00010	<0.00010	0.00108	<0.00010
Si-D	mg/L		9.25	9.27	8.78	4.63	3.47	4.05	4.03	3.89	4.58
Sr-D	mg/L		0.977	1.01	0.983	0.673	0.0831	1.59	1.65	0.645	0.474
Tl-D	mg/L	0.003	<0.000010	0.000012	0.000012	0.000016	<0.000010	0.000039	0.000039	<0.000010	<0.000010
Ti-D	mg/L	1	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
U-D	mg/L	3	0.00131	0.00161	0.00162	0.00686	0.00065	0.00203	0.00198	<0.00010	<0.00010
V-D	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Zn-D	mg/L	0.075 to 2.4	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Notes:											
Bold Red - indicates result is greater than standard											
Groundwater = GW River Barrier Pillar = RBP											

Table 39 Ex-Situ Groundwater Wells Q4 3 Page(s)

Ex-situ Groundwater Q4			242 Area	4-South					
Well ID			QU1136D	QU1008D	QU1008D	QU1009S	QU1009D	QU1009D	
Water Level	m		25.37	33.6	33.6	2.39	3.8	3.8	
Replicates (R)					R				R
Parameter	Units	Freshwater Aquatic Life (CSR-AW)							
Date			3-Mar-22	16-Mar-22	16-Mar-22	20-Jan-22	20-Jan-22	20-Jan-22	
SO4-D	mg/L	1280	14	3.3	3.4	94	88	88	
S ²⁻ as H ₂ S	mg/L	0.02	0.0181	0.223	0.287	0.0213	0.0670	0.0755	
Cond-F	uS/cm		326.1	464.8	464.8	506.5	487.5	487.5	
pH-F	pH Units		7.49	8.7	8.7	6.89	7.33	7.33	
Temp-F	C		7.379	7.385	7.385	7.7	7.4	7.4	
DO-F	mg/L		0.51	0.51	0.51	0.60	0.32	0.32	
ORP-F	mV		-113.8	-243.6	-243.6	-147	-210.6	-210.6	
Turb	NTU		5.0	130	130	69	14	14	
Alk-T	mg/L		150	260	260	160	180	170	
Acidity83	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
N-D	mg/L		0.169	0.164	0.186	0.087	0.123	0.169	
DOC	mg/L		<0.50	4.8	5.2	1.1	1.1	0.93	
Hydrox	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Bicarb	mg/L		190	310	300	190	220	210	
Carb	mg/L		<1.0	7.2	8.9	<1.0	<1.0	<1.0	
Cl-D	mg/L	1500	<1.0	5.4	7.1	<1.0	1.2	1.2	
F-D	mg/L		0.71	1.8	1.8	0.063	0.17	0.17	
Flu-CSR	mg/L	2 to 3	3.00	2.00	2.00	3.00	3.00	3.00	
Br-D	mg/L		<0.010	<0.010	<0.010	0.022	0.017	0.017	
P-D	mg/L	0.05	0.085	0.17	0.17	0.0077	0.016	0.0096	
Al-D	mg/L	10	<0.0060	0.461	0.730	<0.0030	<0.0030	<0.0030	
Ag-D	mg/L	0.0005 to 0.015	<0.000040	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	
As-D	mg/L	0.05	0.881	0.149	0.149	0.0847	0.0912	0.0906	
Ba-D	mg/L	10	0.104	0.0329	0.0358	0.135	0.133	0.131	
B-D	mg/L	50	0.64	1.94	1.97	0.056	0.296	0.296	
Be-D	mg/L	0.053	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	
Bi-D	mg/L	0.04	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Cd-D	mg/L		<0.000020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	
Cd-CSR	mg/L		0.000600	0.000100	0.000100	0.000600	0.000600	0.000600	
Ca-D	mg/L		44.9	2.76	2.89	77.3	63.9	64.2	
Cr-D	mg/L	0.01	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Co-D	mg/L	0.04	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	
Cu-D	mg/L	0.04 to 0.09	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	
Fe-D	mg/L		0.594	0.236	0.343	4.77	0.875	0.888	
Hard-D	mg/L		150	8.13	8.72	239	212	212	
Pb-D	mg/L	0.06 to 0.16	<0.00040	<0.00020	0.00027	<0.00020	<0.00020	<0.00020	
Mg-D	mg/L		9.24	0.304	0.368	11.2	12.7	12.5	
Mn-D	mg/L	0.2	0.0351	0.169	0.176	0.376	0.0719	0.0711	
Hg-D	mg/L	0.001	<0.0000019			<0.0000019	<0.0000019	<0.0000019	
Na-D	mg/L		11.5	120	119	9.29	23.3	22.7	
Mo-D	mg/L	10	0.0028	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Ni-D	mg/L	0.25 to 1.50	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
K-D	mg/L		0.87	0.676	0.701	0.722	1.60	1.56	
S-D	mg/L		<6.0	<3.0	<3.0	33.1	27.7	26.1	
Sb-D	mg/L	0.2	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	
Se-D	mg/L	0.01	<0.00020	<0.00010	0.00130	<0.00010	<0.00010	<0.00010	
Si-D	mg/L		4.70	7.06	7.80	8.98	9.98	9.99	
Sr-D	mg/L		0.396	0.0797	0.0826	0.282	0.974	0.970	
Tl-D	mg/L	0.003	<0.000020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	
Ti-D	mg/L	1	<0.010	0.0100	0.0205	<0.0050	<0.0050	<0.0050	
U-D	mg/L	3	<0.00020	<0.00010	0.00011	<0.00010	<0.00010	<0.00010	
V-D	mg/L		<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	
Zn-D	mg/L	0.075 to 2.4	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	
Notes:									
Bold Red - indicates result is greater than standard									
Groundwater = GW River Barrier Pillar = RBP									

Table 40 Potential Seepage Near QU1109 (S) 2 Page(s)

EMS ID		0 WQG-Max										
Site Description		Potential Seepage near QU1109										
Site Name	S	Std Val	S-13APR21-M	S-26APR21-M	S-3MAY21-M	S-10MAY21-M	S-2Jun21-M	S-10Jun21-M	S-15Jun21-M	S-21Jun21-M	S-29Jun21-M	S-6JUL21-M
Date		Max	2021-04-13	2021-04-26	2021-05-03	2021-05-10	2021-06-02	2021-06-10	2021-06-15	2021-06-21	2021-06-29	2021-07-06
pH-F	pH Units		8.29	8.31	8.01	8.01		7.89	7.87		8.11	8.28
Cond-F	uS/cm		1769	1669	1815	1815		2220	2210		1581	1509
SO4-D	mg/L		300	310	310	360	230	230	210	270	200	250
TSS	mg/L	25	2.0	1.6	1.6	1.6	2.4	2.0		1.6	25	2.8
Alk-T	mg/L		460	430	430	480	490	470	460	460	480	480
Acidity83	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
DOC	mg/L		1.7	1.8	1.6	1.6	1.2	2.0	2.4	1.3	2.7	3.0
Al-T	mg/L		0.0077	0.0079	0.0085	0.0065	0.0111	0.0072	0.0696	0.0109	0.0659	0.0231
As-T	mg/L	0.005	0.0486	0.0485	0.0474	0.0519	0.0390	0.0336	0.0310	0.0245	0.0453	0.0284
Ba-T	mg/L		0.0713	0.0687	0.0670	0.0629	0.0525	0.0452	0.0455	0.0419	0.0541	0.0393
B-T	mg/L		1.65	1.76	1.71	1.72	1.72	1.65	1.78	1.97	2.17	1.62
Cd-T	mg/L		<0.000010	<0.000010	<0.000020	<0.000010	<0.000020	<0.000010	<0.000020	<0.000010	<0.000020	<0.000010
Ca-T	mg/L		39.1	38.8	37.7	35.7	31.7	30.1	29.6	30.7	29.5	28.4
Cr-T	mg/L		<0.0010	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010
Co-T	mg/L	0.11	0.00046	0.00061	0.00066	0.00065	0.00050	0.00033	0.00061	<0.00020	0.00097	0.00037
Cu-T	mg/L		<0.00050	<0.00050	<0.0010	<0.00050	<0.0010	<0.00050	<0.0010	<0.00050	<0.0010	0.00052
Hard-T	mg/L		135	135	131	123	110	104	103	107	102	96.9
Fe-T	mg/L	1.0	0.256	0.365	0.358	0.368	0.400	0.298	0.607	0.211	1.71	0.665
Pb-T	mg/L	0.01763	<0.00020	<0.00020	<0.00040	<0.00020	<0.00040	<0.00020	<0.00040	<0.00020	<0.00040	<0.00020
Mg-T	mg/L		9.19	9.12	8.93	8.21	7.54	6.91	6.97	7.42	6.84	6.34
Mn-T	mg/L	0.8706	0.267	0.326	0.326	0.323	0.251	0.153	0.174	0.0747	0.345	0.134
Hg-T	mg/L		<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019
Mo-T	mg/L	2.0	<0.0010	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010
Ni-T	mg/L		<0.0010	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	0.0039	<0.0010	<0.0020	<0.0010
K-T	mg/L		4.51	4.46	4.55	4.43	4.64	4.22	4.32	4.55	4.59	4.12
S-T	mg/L		112	112	106	105	81.4	79.1	78.2	79.7	69.4	67.2
Se-T	mg/L		<0.00010	<0.00010	<0.00020	<0.00010	<0.00020	<0.00010	<0.00020	<0.00010	<0.00020	<0.00010
Si-T	mg/L		4.49	4.58	4.50	4.57	4.26	3.97	4.35	4.28	4.44	4.18
Ag-T	mg/L	0.0001	<0.000020	<0.000020	<0.000040	<0.000020	<0.000040	<0.000020	<0.000040	<0.000020	<0.000040	<0.000020
Na-T	mg/L		307	308	306	304	310	306	288	315	297	276
Sr-T	mg/L		0.571	0.596	0.588	0.602	0.493	0.472	0.452	0.463	0.432	0.430
Zn-T	mg/L	0.033	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	0.021	<0.0050	<0.010	<0.0050
Al-D	mg/L	0.1	0.0046	0.0050	<0.0060	<0.0060	0.0062	<0.0060	0.0144	0.0071	0.0092	0.0068
As-D	mg/L		0.0483	0.0442	0.0414	0.0458	0.0320	0.0281	0.0238	0.0212	0.0220	0.0196
Ba-D	mg/L		0.0711	0.0674	0.0648	0.0635	0.0481	0.0427	0.0422	0.0393	0.0403	0.0356
B-D	mg/L		1.65	1.64	1.60	1.82	1.83	1.67	1.76	1.91	1.96	1.78
Be-D	mg/L		<0.00010	<0.00010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010	<0.00020	<0.00010
Cd-D	mg/L	0.00017	<0.000010	<0.000010	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000010	<0.000020	<0.000010
Ca-D	mg/L		39.8	37.8	37.5	36.6	29.1	28.5	29.0	29.7	28.3	28.2
Cr-D	mg/L		<0.0010	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0020	<0.0010
Co-D	mg/L		0.00045	0.00061	0.00064	0.00065	0.00046	<0.00040	<0.00040	<0.00020	<0.00040	<0.00020
Cu-D	mg/L	≤ 0.0054	<0.00020	<0.00020	<0.00040	<0.00040	<0.00040	<0.00040	0.00126	0.00041	0.00071	0.00045
Hard-D	mg/L		136	131	128	129	102	99.2	101	102	97.8	97.4
Fe-D	mg/L	0.35	0.157	0.178	0.141	0.105	0.095	0.107	0.121	0.107	0.091	0.0977
Pb-D	mg/L		<0.00020	<0.00020	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00020	<0.00040	<0.00020
Mg-D	mg/L		8.96	8.98	8.35	9.04	7.11	6.82	6.92	6.72	6.56	6.57
Mn-D	mg/L		0.247	0.316	0.324	0.339	0.245	0.152	0.119	0.0701	0.0192	0.0255
Hg-D	mg/L		<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019
Mo-D	mg/L		<0.0010	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0020	<0.0010
Ni-D	mg/L		<0.0010	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0010	<0.0020	<0.0010
K-D	mg/L		4.36	4.39	4.42	4.81	4.33	4.29	4.27	4.06	4.52	4.15
S-D	mg/L		115	113	106	111	79.2	73.6	72.9	78.4	68.4	66.4
Se-D	mg/L		<0.00010	<0.00010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00010	<0.00020	<0.00010
Si-D	mg/L		4.69	4.38	4.46	4.64	4.04	3.84	4.13	3.87	4.10	3.88
Na-D	mg/L		297	307	293	331	291	292	286	302	287	284
Sr-D	mg/L		0.584	0.580	0.563	0.585	0.464	0.447	0.436	0.417	0.430	0.398
Zn-D	mg/L		<0.0050	<0.0050	0.010	<0.010	<0.010	<0.010	<0.010	<0.0050	<0.010	<0.0050

Table 40 Potential Seepage Near QU1109 (S) 2 Page(s)

EMS ID		0																
Site Description		Potential 5																
Site Name	S	S-13JUL21-M	S-20JUL21-M	S-19AUG21-M	S-25AUG21-M	S-21SEP21-M	S-27SEP21-M	S-5OCT21-M	S-12OCT21-M	S-20OCT21-M	S-26OCT21-M	S-3NOV21-M	S-8DEC21-M	S-14FEB22-M	S-1MAR22-M	S-22MAR22-M	S-28MAR22-M	
Date		2021-07-13	2021-07-20	2021-08-19	2021-08-25	2021-09-21	2021-09-27	2021-10-05	2021-10-12	2021-10-20	2021-10-26	2021-11-03	2021-12-08	2022-02-14	2022-03-01	2022-03-22	2022-03-28	
pH-F	pH Units	8.03	8.04	7.6	7.56	7.69	7.89	7.79	8	7.94	7.27	7.74	8.1	8.42	8.14	7.99	7.9	
Cond-F	uS/cm	1376	1244	1531	1413	1126	1092	962.6	986.1	972	430.3	750	1059	1198	1239	1321	1058.6	
SO4-D	mg/L	240	180	180	180	190	170	180	150	190	110	160	130	160	200	180	180	
TSS	mg/L	1.6	1.6			2.0		<1.0	<1.0	<1.0	1.6				2.4	<1.0	<1.0	
Alk-T	mg/L	480	470	440	400	340	340	340	370	340	110	240	300	350	360	400	370	
Acidity83	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.9	1.1	<1.0	1.9	<1.0	2.1	<1.0	
DOC	mg/L	2.5	2.1	4.3	3.9	6.5	8.0	7.1	4.5	4.9	5.2	3.7	2.4	<0.50	2.3	2.6	1.9	
Al-T	mg/L	0.0101	0.0095	0.0401	0.0325	0.0556	0.0504	0.0560	0.0247	0.0236	0.170	0.0618	0.0345	0.0105	0.0144	0.0132	0.0287	
As-T	mg/L	0.0207	0.0190	0.0298	0.0276	0.0249	0.0164	0.0156	0.0146	0.0138	0.0147	0.0292	0.0423	0.0501	0.0624	0.0720	0.0748	
Ba-T	mg/L	0.0361	0.0346	0.0436	0.0407	0.0335	0.0273	0.0289	0.0294	0.0305	0.0313	0.0403	0.0409	0.0446	0.0496	0.0509	0.0519	
B-T	mg/L	1.77	1.80	1.97	1.88	1.61	1.48	1.45	1.41	1.46	0.597	1.08	1.14	1.07	1.40	1.37	1.45	
Cd-T	mg/L	<0.000010	<0.000010	<0.000020	<0.000010	0.000022	<0.000010	<0.000020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	
Ca-T	mg/L	28.1	29.1	28.1	26.5	22.8	21.6	21.6	23.1	23.0	18.4	22.4	25.2	25.6	27.2	25.1	25.7	
Cr-T	mg/L	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Co-T	mg/L	<0.00020	<0.00020	0.00075	0.00073	0.00053	<0.00020	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00023	<0.00020	
Cu-T	mg/L	0.00052	<0.00050	<0.0010	0.00082	0.00121	0.00109	0.0010	0.00068	0.00060	0.00093	0.00059	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	
Hard-T	mg/L	97.4	98.5	95.9	91.1	77.4	72.2	74.5	80.0	79.1	67.8	80.5	89.3	90.5	96.8	90.1	90.2	
Fe-T	mg/L	0.193	0.163	0.414	0.714	1.14	0.516	0.472	0.438	0.248	0.322	0.26	0.168	0.131	0.221	0.257	0.273	
Pb-T	mg/L	<0.00020	<0.00020	<0.00040	<0.00020	<0.00020	<0.00020	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	
Mg-T	mg/L	6.59	6.25	6.24	6.02	4.94	4.45	4.97	5.44	5.27	5.32	6	6.41	6.46	7.01	6.68	6.35	
Mn-T	mg/L	0.0276	0.0245	0.521	0.455	0.166	0.0336	0.0308	0.0494	0.0153	0.0243	0.0283	0.0317	0.0355	0.0554	0.0847	0.0713	
Hg-T	mg/L	<0.000019	<0.000019	0.0000020	<0.000019	0.0000022	<0.000019	0.0000030	<0.000019	<0.000019	0.0000020	<0.000019	<0.000019	<0.000019	<0.000019			
Mo-T	mg/L	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Ni-T	mg/L	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
K-T	mg/L	4.10	4.04	3.73	3.65	3.22	3.01	3.29	3.12	3.39	1.78	2.77	2.71	2.95	3.31	3.53	3.51	
S-T	mg/L	65.6	63.3	61.4	61.5	62.9	54.6	59.8	61.1	63.9	35.3	55.5	43.8	53.2	57.5	58.1	59.7	
Se-T	mg/L	<0.00010	<0.00010	<0.00020	<0.00010	<0.00010	<0.00010	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	
Si-T	mg/L	3.97	4.05	4.91	4.56	4.59	4.24	4.10	3.78	4.27	4.57	4.63	4.42	4.46	4.82	4.52	5.15	
Ag-T	mg/L	<0.000020	<0.000020	<0.000040	<0.000020	<0.000020	<0.000020	<0.000040	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	
Na-T	mg/L	292	288	280	275	236	205	221	229	210	70.5	145	169	182	223	232	225	
Sr-T	mg/L	0.403	0.402	0.355	0.352	0.288	0.260	0.280	0.283	0.321	0.211	0.319	0.311	0.319	0.331	0.359	0.384	
Zn-T	mg/L	<0.0050	<0.0050	0.030	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	
Al-D	mg/L	0.0080	0.0052	0.0234	0.0218	0.0168	0.0286	0.0259	0.0105	0.0136	0.0335	0.0155	0.0125	0.0060	0.0075	0.0076	0.0125	
As-D	mg/L	0.0174	0.0177	0.0266	0.0296	0.0135	0.0135	0.0122	0.0117	0.0120	0.0132	0.0279	0.0444	0.0553	0.0595	0.0715	0.0676	
Ba-D	mg/L	0.0329	0.0323	0.0403	0.0412	0.0252	0.0264	0.0264	0.0280	0.0292	0.0301	0.0386	0.0411	0.0494	0.0477	0.0520	0.0501	
B-D	mg/L	1.86	1.71	1.76	1.71	1.68	1.48	1.32	1.37	1.31	0.553	1.12	1.13	1.18	1.41	1.49	1.52	
Be-D	mg/L	<0.00020	<0.00010	<0.00020	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	
Cd-D	mg/L	<0.000020	<0.000010	<0.000020	<0.000020	0.0000106	<0.000010	0.000011	<0.000010	<0.000020	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	
Ca-D	mg/L	28.1	27.7	27.1	27.0	21.2	21.3	20.7	23.7	23.9	18.5	22.6	25.5	28.7	26.0	26.5	24.2	
Cr-D	mg/L	<0.0020	<0.0010	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Co-D	mg/L	<0.00040	<0.00020	0.00071	0.00065	<0.00020	<0.00020	<0.00020	<0.00020	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	<0.00020	
Cu-D	mg/L	0.00046	0.00043	0.00071	0.00049	0.00102	0.00118	0.00138	0.00058	0.00060	0.00062	0.00039	0.00025	<0.00020	0.00023	0.00053	0.00025	
Hard-D	mg/L	97.1	94.4	90.6	90.2	70.9	71.6	70.6	79.8	81.5	67.1	79.7	89.7	101	93.0	93.5	88.1	
Fe-D	mg/L	0.040	0.0276	0.243	0.217	0.130	0.207	0.191	0.0991	0.096	0.0761	0.0727	0.0841	0.109	0.147	0.203	0.201	
Pb-D	mg/L	<0.00040	<0.00020	<0.00040	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	
Mg-D	mg/L	6.52	6.13	5.54	5.53	4.37	4.47	4.59	5.03	5.28	5.04	5.63	6.34	7.00	6.82	6.65	6.70	
Mn-D	mg/L	0.0105	0.0062	0.516	0.409	0.0061	0.0191	0.0192	0.0061	0.0068	0.0146	0.0226	0.0292	0.0382	0.0514	0.0831	0.0706	
Hg-D	mg/L	<0.000019	<0.000019	0.0000020	<0.000019	0.0000023	0.0000031	0.0000030	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019		
Mo-D	mg/L	<0.0020	<0.0010	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Ni-D	mg/L	<0.0020	<0.0010	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
K-D	mg/L	4.12	3.78	3.57	3.74	2.95	2.92	3.01	3.04	3.39	1.79	2.66	2.70	3.18	3.28	3.72	3.47	
S-D	mg/L	67.3	60.4	54.2	60.3	58.6	56.0	53.0	58.3	63.2	34.9	53.5	45.5	60.3	57.5	62.6	58.9	
Se-D	mg/L	<0.00020	<0.0001															

Table 41 Potential Seepage Near QU1105 (S2) 1 Page(s)

EMS ID	0 Stn Std WQG-Max						
Site Description	Possible seepage on QR by QU1105						
Site Name	S2	Std Val		S2-13SEP21-M	S2-8MAR22-M	S2-22MAR22-M	S2-28MAR22-M
Date		Max	Min	2021-09-13	2022-03-08	2022-03-22	2022-03-28
pH-F	pH Units			6.9	7.62	7.42	7.22
Cond-F	uS/cm			387	1575	1537	1309.9
SO4-D	mg/L			160	300	380	360
TSS	mg/L	25	0		<1.0	2.4	<1.0
Alk-T	mg/L				370	390	390
Acidity83	mg/L				1.3	14.5	4.7
DOC	mg/L			0.96	1.2	2.1	1.2
Al-T	mg/L			0.0415	0.0102	0.0077	0.0079
As-T	mg/L	0.005	0	0.0908	0.0402	0.0510	0.0510
Ba-T	mg/L			0.0543	0.0913	0.0939	0.0928
B-T	mg/L			0.614	0.934	0.867	0.909
Cd-T	mg/L			<0.000010	<0.000010	<0.000010	<0.000010
Ca-T	mg/L			32.5	72.1	77.7	79.8
Cr-T	mg/L			<0.0010	<0.0010	<0.0010	<0.0010
Co-T	mg/L	0.11	0	0.00039	0.00023	0.00038	0.00034
Cu-T	mg/L			<0.00050	0.00052	0.00072	<0.00050
Hard-T	mg/L			106	236	250	252
Fe-T	mg/L	1.0	0	1.85	1.06	1.51	1.39
Pb-T	mg/L	0.01763	0	<0.00020	<0.00020	<0.00020	<0.00020
Mg-T	mg/L			6.04	13.6	13.5	12.7
Mn-T	mg/L	0.8706	0	0.498	0.202	0.262	0.264
Hg-T	mg/L			<0.0000019			
Mo-T	mg/L	2.0	0	<0.0010	<0.0010	<0.0010	<0.0010
Ni-T	mg/L			<0.0010	<0.0010	<0.0010	<0.0010
K-T	mg/L			2.83	5.03	4.93	4.84
S-T	mg/L			52.4	116	118	120
Se-T	mg/L			<0.00010	<0.00010	<0.00010	<0.00010
Si-T	mg/L			3.91	4.09	3.94	4.38
Ag-T	mg/L	0.0001	0	<0.000020	<0.000020	<0.000020	<0.000020
Na-T	mg/L			112	222	221	213
Sr-T	mg/L			0.466	1.05	1.10	1.22
Zn-T	mg/L	0.033	0	<0.0050	<0.0050	<0.0050	<0.0050
Al-D	mg/L	0.1	0	0.0056	0.0035	0.0033	<0.0030
As-D	mg/L			0.0375	0.0414	0.0424	0.0368
Ba-D	mg/L			0.0476	0.0942	0.0940	0.0901
B-D	mg/L			0.618	1.06	0.960	0.989
Be-D	mg/L			<0.00010	<0.00010	<0.00010	<0.00010
Cd-D	mg/L	0.00017	0	<0.000010	<0.000010	0.000011	<0.000010
Ca-D	mg/L			31.3	76.1	82.3	76.3
Cr-D	mg/L			<0.0010	<0.0010	<0.0010	<0.0010
Co-D	mg/L			0.00026	0.00021	0.00035	0.00038
Cu-D	mg/L	≤ 0.0054	0	<0.00020	0.00022	0.00022	<0.00020
Hard-D	mg/L			103	242	261	248
Fe-D	mg/L	0.35	0	0.342	1.01	1.21	0.977
Pb-D	mg/L			<0.00020	<0.00020	<0.00020	<0.00020
Mg-D	mg/L			6.06	12.7	13.5	13.9
Mn-D	mg/L			0.387	0.200	0.263	0.262
Hg-D	mg/L			<0.0000019			
Mo-D	mg/L			<0.0010	<0.0010	<0.0010	<0.0010
Ni-D	mg/L			<0.0010	<0.0010	<0.0010	<0.0010
K-D	mg/L			2.79	5.07	5.07	4.92
S-D	mg/L			51.8	115	126	122
Se-D	mg/L			<0.00010	<0.00010	<0.00010	<0.00010
Si-D	mg/L			3.76	4.14	4.46	4.31
Na-D	mg/L			112	212	227	223
Sr-D	mg/L			0.46	1.21	1.20	1.12
Zn-D	mg/L			<0.0050	<0.0050	<0.0050	<0.0050

Table 42 NNL Depth Profile 1 Page(s)

EMS ID: E217018																														
Site NAME: NO NAME LAKE (NNL)																														
NO NAME LAKE DEPTH PROFILING SPRING																														
Sample Date Parameter Sample Depth (m)	07-Apr						14-Apr						20-Apr						27-Apr						04-May					
	TEMP. °C	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. °C	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. °C	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. °C	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. °C	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV
1	7.20	7.38	27.80	92.90	11.21	222.80	8.80	6.70	28.50	85.20	9.85	187.00	13.60	6.52	31.00	100.60	10.98	148.30	12.90	6.98	31.80	85.80	9.11	183.10	12.80	7.49	32.00	81.10	8.58	215.40
2	7.10	7.30	27.90	95.00	11.42	237.60	8.20	6.63	28.40	87.20	10.15	190.90	12.50	6.40	31.00	98.80	10.63	153.70	12.80	6.96	31.70	85.30	9.02	183.50	12.70	7.40	31.90	81.20	8.69	215.80
3	7.10	7.32	27.80	106.20	12.25	223.10	7.70	6.59	28.50	85.10	10.11	193.00	9.10	6.33	29.90	103.30	11.87	158.90	10.60	6.91	30.70	93.90	10.38	186.80	11.80	7.31	31.90	82.90	8.95	218.20
4	7.10	7.32	28.00	95.60	11.36	222.72	7.00	6.55	28.70	81.70	9.72	194.50	8.00	6.28	29.90	100.90	11.92	162.40	8.70	6.86	30.20	95.20	11.09	190.30	9.40	7.29	30.20	87.80	10.14	220.50
5	6.50	7.18	28.30	101.00	11.46	228.10	6.60	6.49	29.00	76.20	9.40	196.80	6.70	6.22	30.40	97.00	11.93	166.10	7.40	6.81	30.40	92.20	11.03	193.80	7.10	7.18	30.60	82.30	9.77	225.10
6	6.30	7.15	28.70	121.50	12.55	226.30	6.20	6.44	29.20	81.00	9.92	199.40	6.00	6.18	31.10	93.00	11.49	169.10	6.20	6.77	31.40	87.40	10.71	195.70	6.10	7.12	31.40	77.90	9.69	226.60
7	5.60	7.18	29.00	115.20	11.02	217.10	6.00	6.39	29.40	80.00	9.57	199.80	5.70	6.16	31.50	88.80	11.13	169.10	6.00	6.75	31.60	84.10	10.46	197.20	5.80	7.10	31.80	74.80	9.38	227.70
8	5.40	7.02	29.40	96.20	11.51	228.00	5.80	6.39	29.70	77.60	9.54	201.80	5.60	6.15	31.80	86.10	10.86	169.70	5.80	6.74	31.90	82.80	10.44	197.20	5.70	7.08	31.90	74.80	9.23	226.40
9	5.20	7.07	29.60	86.20	10.84	231.20	5.60	6.34	29.90	77.80	9.33	202.10	5.50	6.14	32.20	86.40	10.86	170.60	5.50	6.72	32.20	80.70	10.34	197.60	5.70	7.07	31.90	74.50	9.20	225.60
10	5.10	7.07	30.30	82.80	10.58	225.20	5.50	6.31	30.10	77.30	9.62	203.20	5.40	6.16	32.40	84.40	10.60	168.20	5.40	6.70	32.60	78.80	9.90	197.60	5.60	7.05	32.10	72.30	9.05	223.20
11	5.00	6.98	31.30	80.80	10.07	222.80	5.50	6.31	30.10	73.60	9.13	202.40	5.40	6.15	32.50	84.40	10.63	167.00	5.40	6.69	32.90	77.10	9.83	197.30	5.60	7.04	32.10	71.60	8.97	223.20
12	4.90	6.93	32.80	78.70	10.01	220.40	5.40	6.29	30.50	72.70	9.22	202.70	5.30	6.16	32.70	83.60	10.58	168.80	5.20	6.67	34.40	74.80	9.52	197.80	5.50	7.04	32.60	62.90	8.28	169.00
13	4.90	6.93	34.00	80.50	10.94	226.30	5.30	6.26	31.10	67.7	8.54	202.30	5.30	6.13	34.10	64.90	8.24	96.00	5.20	6.63	34.40	70.50	8.91	195.20	5.50	6.99	33.50	60.30	7.93	153.20
1m from Bottom (1MB)	1MB = 13m						1MB = 13m						1MB = 13m						1MB = 13m						1MB = 13m					

Table 43 LLM Depth Profile 3 Page(s)

EMS ID: E206619

Site NAME: LONG LAKE (LLM)

LONG LAKE DEPTH PROFILING SPRING

Sample Date Parameter Sample Depth (m)	08-Apr						14-Apr						20-Apr						27-Apr						04-May					
	TEMP.	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. °C	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. °C	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. °C	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. °C	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV
1	7.30	7.46	141.00	95.00	11.55	182.00	8.90	6.70	142.70	88.00	10.09	192.20	12.90	6.85	146.30	96.80	10.38	124.40	12.80	7.02	151.10	87.70	9.26	180.80	12.70	7.38	157.80	83.90	8.86	151.50
2	7.30	7.38	141.20	94.00	11.63	175.50	8.70	6.67	141.30	84.50	9.66	195.10	12.70	6.85	147.00	96.60	10.26	128.50	12.70	7.03	150.40	86.70	9.34	179.30	12.60	7.40	155.20	80.60	8.48	153.30
3	7.30	7.39	141.30	93.30	11.25	173.70	8.20	6.68	144.10	86.90	9.90	193.90	9.30	6.84	158.90	98.90	11.27	131.80	10.90	7.00	177.60	93.50	10.17	181.40	12.60	7.41	155.50	83.50	8.44	154.40
4	7.30	7.38	142.00	92.30	11.15	174.50	7.20	6.64	191.20	83.30	10.02	195.10	8.20	6.79	181.00	97.20	11.53	136.00	8.50	6.99	186.20	94.90	10.99	181.90	9.30	7.38	199.50	86.70	10.01	160.70
5	7.30	7.27	195.00	88.10	10.86	178.00	5.80	6.61	241.10	65.30	7.94	195.00	6.80	6.74	232.60	87.10	10.73	141.70	7.10	6.94	232.90	84.50	10.15	185.70	7.30	7.32	248.60	78.30	9.51	164.90
6	5.50	7.22	240.50	72.60	9.09	179.10	5.40	6.58	262.70	55.60	7.04	195.70	5.70	6.69	274.30	73.10	9.19	144.10	5.90	6.89	273.80	73.60	8.84	189.10	5.90	7.27	275.90	62.10	7.72	170.10
7	5.00	7.17	265.30	65.70	8.54	180.60	5.10	6.56	269.60	53.80	6.80	196.00	5.10	6.66	283.80	66.90	8.51	146.10	5.30	6.86	285.90	61.30	7.77	191.00	5.40	7.25	285.90	59.20	7.14	172.60
8	4.70	7.13	277.10	56.40	7.21	181.00	4.80	6.56	272.50	55.20	6.93	193.10	4.90	6.65	291.30	56.70	7.25	146.10	5.00	6.84	290.90	55.30	7.15	192.40	5.10	7.24	291.30	50.40	6.42	173.50
9	4.70	7.11	281.50	51.20	6.54	181.30	4.80	6.54	278.30	48.10	5.85	193.80	4.80	6.64	295.50	54.20	6.95	146.60	4.90	6.82	294.40	53.60	6.74	193.70	5.00	7.24	294.20	45.70	5.88	174.20
10	4.70	7.09	285.20	47.60	6.19	181.00	4.80	6.53	281.30	46.20	5.49	193.40	4.80	6.63	297.20	53.10	6.82	146.80	4.80	6.81	296.20	52.20	6.53	194.20	4.90	7.25	295.60	43.30	5.88	173.90
11	4.70	7.08	285.80	47.00	6.00	180.80	4.70	6.53	283.70	42.10	5.40	193.40	4.80	6.63	298.80	51.10	6.54	147.00	4.80	6.79	297.30	49.10	6.22	194.20	4.90	7.25	296.50	41.80	5.38	174.50
12	4.70	7.07	288.60	44.30	5.70	180.80	4.70	6.52	285.30	39.80	5.17	192.60	4.80	6.64	299.60	49.40	6.35	145.50	4.80	6.78	299.30	47.60	5.97	194.60	4.80	7.26	297.30	40.60	5.21	173.70
13	4.70	7.06	289.70	42.30	5.50	180.70	4.70	6.52	286.20	39.60	5.06	191.70	4.70	6.63	301.50	47.30	6.15	146.50	4.80	6.77	301.40	43.90	5.64	194.40	4.80	7.26	300.10	38.10	4.91	172.60
14	4.70	7.06	290.70	40.50	5.24	180.30	4.70	6.52	287.80	36.20	4.63	191.80	4.70	6.64	302.40	45.20	5.80	146.20	4.80	6.77	301.90	43.20	5.57	194.10	4.80	7.25	306.00	37.20	4.78	172.60
15	4.70	7.05	291.90	38.10	4.86	179.90	4.70	6.51	288.30	36.00	4.55	190.60	4.70	6.65	302.80	46.20	5.95	145.20	4.80	6.77	302.60	42.10	5.37	194.00	4.80	7.25	314.80	34.90	4.53	171.80
16	4.70	7.04	292.10	37.10	4.77	179.10	4.70	6.51	289.10	35.00	4.47	189.60	4.70	6.65	302.90	45.50	5.83	144.70	4.80	6.76	302.90	41.30	5.30	193.80	4.80	7.25	320.10	33.30	4.25	171.80
17	4.70	7.02	292.50	37.00	4.73	178.10	4.70	6.51	289.20	36.00	4.57	189.30	4.70	6.66	303.10	45.40	5.77	144.70	4.80	6.76	303.10	40.60	5.24	193.30	4.80	7.26	309.10	32.40	4.12	169.70
18	4.70	7.02	293.40	35.20	4.53	177.30	4.70	6.51	289.70	34.20	4.36	189.10	4.70	6.67	303.40	43.70	5.61	143.50	4.80	6.76	303.30	39.80	4.98	192.50	4.80	7.26	304.60	31.40	4.04	169.60
19	4.70	7.00	294.00	34.50	4.39	176.90	4.70	6.51	289.90	32.60	4.19	187.40	4.70	6.66	303.60	43.70	5.62	144.60	4.80	6.76	303.20	39.80	5.10	192.60	4.80	7.27	301.80	31.90	4.09	167.50
20	4.70	7.00	294.20	34.50	4.42	176.30	4.70	6.46	291.40	29.30	3.74	165.10	4.70	6.65	304.00	35.50	4.55	64.40	4.80	6.71	304.10	34.50	4.37	193.80	4.80	7.27	300.70	30.30	3.84	163.90
21	4.80	7.05	304.10	28.80	3.56	108.40	4.70	6.45	291.50	25.90	3.30	142.30	4.70	6.65	312.00	22.60	3.05	62.00	4.80	6.70	330.10	30.00	4.00	121.80	4.80	7.28	320.21	20.30	3.40	141.61

Table 43 LLM Depth Profile 3 Page(s)

1m from Bottom (1MB)							1MB = 21m							1MB = 21m							1MB = 21m							1MB = 21m						
EMS ID: E206619																																		
Site NAME: LONG LAKE (LLM)																																		
LONG LAKE DEPTH PROFILING SUMMER																																		
Sample Date Parameter Sample Depth (m)	12-Jul						19-Jul						26-Jul						04-Aug						10-Aug									
	TEMP. Celsius	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. Celsius	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. Celsius	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. Celsius	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. Celsius	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV				
1	23.87	7.60	192.10	98.10	8.28	138.40	21.64	7.61	196.80	96.30	8.48	143.90	22.40	7.60	207.20	98.90	8.74	161.00	23.29	7.57	222.60	99.30	8.46	165.30	22.13	7.50	224.20	96.60	8.42	146.40				
2	23.79	7.60	192.30	97.90	8.27	140.00	21.66	7.60	196.80	96.30	8.47	146.30	21.37	7.60	207.00	98.50	8.71	162.50	23.26	7.57	222.80	99.10	8.46	167.10	22.05	7.50	224.30	96.10	8.39	146.80				
3	23.71	7.60	192.20	97.40	8.24	141.60	21.03	7.60	196.80	96.10	8.46	148.70	21.18	7.57	206.70	98.40	8.73	165.30	23.10	7.57	222.70	98.60	7.56	168.80	21.93	7.48	224.20	95.90	8.39	148.20				
4	20.32	7.14	198.60	109.60	9.96	163.10	21.55	7.60	197.70	96.60	8.54	151.00	20.70	7.47	210.60	96.90	8.69	170.70	22.11	7.36	225.80	99.40	7.36	174.40	21.63	7.44	224.70	95.70	8.42	150.30				
5	13.22	6.96	172.60	101.90	10.56	173.30	14.55	7.08	248.70	102.70	10.45	171.90	14.54	6.96	262.50	102.70	10.50	190.40	17.27	7.04	268.20	110.10	10.64	191.40	19.61	6.93	252.90	111.20	10.20	164.90				
6	9.84	6.88	266.50	84.00	9.54	178.60	11.24	7.04	269.50	89.40	9.92	176.60	10.24	6.87	275.30	85.40	9.60	194.70	10.99	6.80	290.20	84.80	9.36	198.20	13.36	6.84	281.50	95.00	10.03	172.30				
7	8.37	6.82	271.10	74.20	8.66	180.10	8.62	6.97	273.70	71.60	8.40	180.10	8.24	6.80	280.70	69.30	8.13	197.90	8.76	6.72	293.60	70.00	8.12	201.20	9.32	6.70	289.50	71.30	8.17	177.80				
8	7.54	6.81	275.20	63.50	7.68	181.10	7.21	6.87	277.00	64.00	7.72	181.50	7.23	6.68	283.10	58.70	7.09	202.70	7.82	6.64	295.10	63.00	7.47	202.10	7.76	6.64	292.70	60.40	7.15	181.00				
9	6.33	6.75	276.10	59.70	7.35	181.80	6.51	6.83	276.90	59.00	7.23	182.60	6.62	6.65	283.40	56.10	6.87	203.10	7.02	6.59	296.10	58.00	7.05	203.90	6.88	6.58	293.10	55.00	6.68	181.10				
10	5.85	6.74	276.60	55.10	6.73	182.50	6.05	6.79	277.80	52.10	6.41	182.60	6.10	6.61	285.50	49.80	6.14	204.10	6.42	6.56	296.50	52.30	6.44	204.80	6.32	6.54	294.30	48.60	5.98	181.70				
11	5.72	6.50	278.00	48.50	6.07	183.10	5.78	6.80	278.30	50.00	6.24	180.50	5.77	6.60	285.70	45.20	5.66	204.20	6.05	6.54	297.70	47.50	5.89	205.90	6.05	6.52	295.00	45.40	5.63	181.60				
12	5.57	6.68	278.70	46.10	5.80	183.00	5.58	6.82	279.30	45.10	5.66	180.00	5.62	6.59	285.80	42.80	5.36	204.50	5.79	6.51	298.30	42.80	5.34	206.10	5.85	6.55	295.40	42.20	5.27	181.30				
13	5.44	6.67	278.90	43.20	5.44	183.00	5.42	6.79	279.40	42.30	5.33	180.50	5.49	6.58	286.20	40.80	5.13	204.20	5.62	6.51	298.90	40.70	5.09	206.70	5.43	6.49	295.90	34.70	4.37	180.00				
14	5.35	6.66	279.30	40.60	5.15	183.10	5.28	6.78	280.10	39.80	5.02	181.10	5.32	6.57	287.00	37.70	4.77	204.40	5.33	6.48	300.40	33.80	4.26	207.50	5.43	6.52	296.00	34.40	4.32	177.20				
15	5.21	6.66	280.20	38.30	4.81	183.30	5.22	6.75	280.90	36.90	4.62	181.00	5.23	6.56	288.00	32.60	4.13	204.70	5.21	6.46	301.60	27.30	3.44	207.60	5.29	6.49	297.50	29.40	3.72	179.10				
16	5.11	6.65	281.10	34.20	4.33	183.40	5.12	6.74	281.70	33.20	4.22	181.20	5.15	6.55	288.60	29.90	3.80	204.50	5.18	6.46	301.90	25.70	3.26	207.70	5.21	6.45	297.40	25.60	3.25	179.50				
17	5.07	6.64	281.60	32.40	4.07	183.30	5.10	6.73	282.40	30.50	3.87	181.10	5.13	6.54	289.30	27.20	3.45	204.30	5.16	6.47	302.30	23.90	3.04	207.40	5.19	6.44	297.90	24.50	3.09	179.30				
18	5.06	6.63	282.00	30.20	3.84	183.30	5.09	6.72	282.60	28.40	3.60	180.80	5.11	6.54	289.70	25.50	3.24	204.10	5.15	6.46	302.20	23.60	3.00	207.40	5.17	6.43	297.70	23.30	2.96	179.40				
19	5.06	6.63	282.50	28.80	3.66	183.10	5.08	6.72	283.20	26.10	3.30	180.50	5.11	6.54	290.10	24.80	3.15	204.20	5.15	6.46	302.40	23.40	2.97	207.40	5.17	6.44	297.90	22.80	2.90	179.10				
20	5.02	6.63	282.30	27.00	3.43	182.30	5.09	6.95	294.60	12.70	1.62	71.90	5.11	6.55	289.90	24.10	3.07	203.80	5.14	6.46	302.50	22.80	2.89	207.30	5.16	6.43	298.30	21.60	2.73	179.20				
21	5.06	6.64	283.20	24.30	3.12	175.60							5.11	6.54	292.50	19.40	2.46	156.40	5.38	6.45	303.90	19.30	2.37	139.40	5.16	6.74	329.60	5.00	0.62	-23.20				
1m from Bottom (1MB)							1MB = 20m							1MB = 21m							1MB = 21m							1MB = 21m						

Table 43 LLM Depth Profile 3 Page(s)

EMS ID: E206619																																			
Site NAME: LONG LAKE (LLM)																																			
LONG LAKE DEPTH PROFILING FALL																																			
Sample Date Parameter Sample Depth (m)	06-Oct						13-Oct						19-Oct						27-Oct						02-Nov										
	TEMP. Celcius	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. Celcius	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. Celcius	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. Celcius	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. Celcius	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV					
1	13.36	7.32	249.60	88.70	9.26	99.00	11.51	7.25	246.40	85.20	9.28	70.20	10.62	7.18	231.40	84.80	9.43	161.90	8.71	6.90	67.20	88.50	10.27	143.20	7.38	7.69	113.10	87.00	10.39	152.00					
2	13.36	7.32	249.60	88.70	9.26	100.20	11.51	7.25	246.50	85.30	9.29	72.50	10.62	7.14	231.30	84.60	9.41	162.20	8.70	6.62	66.60	87.10	10.14	143.50	7.38	6.97	112.90	84.50	10.16	166.00					
3	13.37	7.32	249.60	88.70	9.26	102.00	11.51	7.24	246.60	85.20	9.28	73.80	10.62	7.15	231.40	84.50	9.39	161.90	8.67	6.59	64.50	87.00	10.13	142.20	7.38	6.84	112.90	84.40	10.14	168.20					
4	13.36	7.31	249.50	88.70	9.26	103.30	11.51	7.24	246.60	85.10	9.27	75.20	10.62	7.16	231.50	84.40	9.38	161.80	8.62	6.59	61.50	86.90	10.13	140.70	7.38	6.81	112.90	84.30	10.14	168.70					
5	13.36	7.31	249.60	88.70	9.26	104.20	11.51	7.23	246.50	85.10	9.27	76.50	10.62	7.16	231.60	84.30	9.37	161.30	8.58	6.57	62.50	86.50	10.10	139.70	7.38	6.78	112.90	84.20	10.12	168.80					
6	13.36	7.30	249.60	88.70	9.27	104.80	11.50	7.23	247.10	85.10	9.27	77.90	10.62	7.16	231.40	84.30	9.37	161.20	9.04	6.57	133.40	86.30	9.96	137.10	7.38	6.77	112.90	84.10	10.11	168.40					
7	13.34	7.30	249.60	88.40	9.24	105.50	11.49	7.22	246.70	85.10	9.27	79.20	10.61	7.17	232.00	84.20	9.36	161.00	8.78	6.73	123.90	86.30	10.06	132.80	7.38	6.74	116.30	83.90	10.09	169.50					
8	10.40	6.83	284.80	59.10	6.60	122.70	11.46	7.21	246.80	84.70	9.23	80.60	10.61	7.16	232.10	84.10	9.36	160.50	8.91	6.72	163.30	85.40	9.87	131.90	7.26	6.71	128.70	85.10	10.05	169.60					
9	8.48	6.66	284.60	50.40	5.89	125.60	8.52	6.75	284.70	51.90	6.05	96.30	10.61	7.17	233.10	83.90	9.34	160.60	9.01	6.76	201.80	80.60	9.31	129.10	7.26	6.70	142.20	81.30	9.81	169.20					
10	7.18	6.64	285.60	44.10	5.31	126.50	7.56	6.70	285.20	46.10	5.53	99.20	9.49	6.79	288.70	57.70	6.54	169.60	9.00	6.79	258.30	66.80	7.70	131.20	7.28	6.66	184.70	73.50	8.84	171.20					
11	6.67	6.62	285.70	42.10	5.14	126.80	6.86	6.67	286.40	42.30	5.14	100.80	7.46	6.74	285.20	46.20	5.50	170.70	7.72	6.73	285.50	45.90	5.30	134.00	6.95	6.59	287.30	41.80	5.03	172.80					
12	6.36	6.61	286.10	38.20	4.70	127.40	6.39	6.63	286.60	36.10	4.45	102.50	6.73	6.68	286.20	39.90	4.85	171.50	6.70	6.66	286.60	39.10	4.07	134.80	6.48	6.59	287.80	35.60	4.37	171.40					
13	6.09	6.58	286.30	34.10	4.27	127.80	6.05	6.64	286.70	33.20	4.09	102.60	6.39	6.65	286.60	37.10	4.52	172.30	6.29	6.62	287.20	35.90	4.38	135.40	6.11	6.59	289.90	31.70	3.91	170.90					
14	5.84	6.56	286.60	31.00	3.83	128.80	5.83	6.64	287.20	28.50	3.55	102.10	6.13	6.63	286.90	32.70	4.05	172.70	6.08	6.61	287.40	31.90	3.89	135.70	5.85	6.58	289.00	27.70	3.45	178.20					
15	5.62	6.52	287.70	25.40	3.16	129.50	5.60	6.60	287.50	24.70	3.09	101.90	5.92	6.61	287.20	28.70	3.57	172.80	5.73	6.59	288.50	27.40	3.41	135.80	5.76	6.57	289.40	24.10	3.00	170.20					
16	5.46	6.50	287.60	21.20	2.65	129.90	5.52	6.65	288.10	20.80	2.58	101.80	5.66	6.59	287.60	25.50	3.18	172.70	5.48	6.57	288.90	22.50	2.58	135.80	5.52	6.55	290.10	20.30	2.53	170.10					
17	5.38	6.48	288.10	17.00	2.13	129.90	5.42	6.64	288.50	16.40	2.05	102.30	5.54	6.56	288.20	20.60	2.58	172.90	5.41	6.55	289.10	15.60	1.87	136.00	5.48	6.54	290.80	15.30	1.90	170.20					
18	5.34	6.46	288.20	10.20	1.25	129.60	5.36	6.62	291.00	7.10	0.89	104.80	5.40	6.54	288.40	15.90	2.00	172.90	5.31	6.53	290.90	10.40	1.28	136.20	5.40	6.52	292.90	11.90	1.44	172.00					
19	5.32	6.45	290.10	6.70	0.85	130.00	5.35	6.63	292.30	6.10	0.76	105.20	5.36	6.53	288.90	9.80	1.20	173.50	5.37	6.53	292.50	8.40	1.04	135.70	5.39	6.52	295.20	8.60	1.06	173.00					
20	5.32	6.49	291.80	5.30	0.67	128.40	5.35	6.65	293.30	5.50	0.69	105.00	5.35	6.52	291.70	6.90	0.86	174.60	5.37	6.55	293.70	6.90	0.85	134.90	5.37	6.53	296.10	7.00	0.88	173.00					
21	5.31	6.51	294.00	4.70	0.59	128.20	5.35	6.66	294.20	5.10	0.64	104.80	5.34	6.53	293.80	4.80	0.60	173.20	5.36	6.56	295.40	5.80	0.72	133.90	5.36	6.55	297.50	62.00	0.78	172.90					
22																			5.35	6.57	312.20	5.20	0.66	49.20											
1m from Bottom (1MB)						1MB = 21m						1MB = 21m						1MB = 21m						1MB = 22m						1MB = 21m					

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 44 MQL Depth Profile 3 Page(s)

EMS ID E206618																														
Site NAME: MIDDLE QUINSAM LAKE (MQL)																														
MIDDLE QUINSAM LAKE DEPTH PROFILING SPRING																														
Sample Date Parameter Sample Depth (m)	07-Apr						14-Apr						20-Apr						27-Apr						04-May					
	TEMP. °C	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. °C	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. °C	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. °C	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. °C	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV
1	8.00	7.58	113.80	108.20	12.64	138.30	9.40	7.04	117.60	98.60	11.40	122.7	13.90	7.37	164.80	98.70	10.05	103.20	12.90	7.31	184.40	88.80	9.43	168.60	13.00	7.93	185.00	84.90	8.93	185.40
2	7.90	7.55	112.70	105.00	12.43	140.00	8.90	7.02	115.40	98.30	11.28	125	13.60	7.36	163.30	98.50	10.16	107.90	12.80	7.30	184.60	88.50	9.19	169.80	12.90	7.94	184.20	78.80	8.34	184.20
3	7.90	7.51	112.10	103.80	12.57	143.00	8.50	7.00	115.80	93.60	10.97	129.5	10.80	7.35	160.80	104.20	11.52	109.70	12.10	7.30	190.30	85.40	9.63	170.40	12.80	7.94	183.60	80.10	8.40	188.30
4	7.90	7.50	112.40	104.70	12.29	143.80	8.40	7.00	117.60	94.30	11.00	129.1	9.90	7.33	149.50	104.80	11.78	112.00	11.10	7.30	166.50	93.50	10.27	170.60	12.40	7.92	182.90	81.00	8.71	185.60
5	7.90	7.50	112.40	101.50	12.00	143.50	7.90	7.00	116.70	94.40	11.05	131.3	9.00	7.33	137.00	105.90	12.19	113.50	10.00	7.30	142.30	98.50	11.18	170.70	11.50	7.94	172.00	83.10	9.06	185.80
6	7.90	7.48	111.90	99.90	11.89	145.70	7.70	6.99	117.30	91.70	10.86	133.2	8.50	7.30	132.10	106.60	12.36	116.90	9.20	7.28	134.60	100.90	11.51	172.70	10.60	8.20	147.70	87.60	9.77	186.00
7	7.80	7.47	111.90	101.10	11.99	147.40	7.70	6.98	117.90	93.7	11.22	134.8	8.20	7.28	128.40	102.50	12.13	119.50	8.60	7.27	129.80	100.10	11.60	173.90	9.20	7.93	129.80	91.70	10.61	187.10
8	7.40	7.45	112.00	102.90	11.88	147.60	7.40	6.97	117.20	92.60	11.16	136.7	7.70	7.25	123.70	100.90	11.97	123.10	8.10	7.25	125.10	98.60	11.66	174.80	8.50	7.62	124.00	88.80	89.70	189.30
9	6.70	7.41	112.20	98.00	11.92	149.70	7.30	6.96	115.80	89.00	10.73	138	7.60	7.22	123.20	101.70	12.12	126.40	7.70	7.23	123.30	94.70	11.28	176.50	8.00	7.32	121.40	85.00	10.05	190.90
10	6.70	7.38	112.10	99.20	12.19	152.20	7.20	6.96	114.20	90.30	10.83	138.7	7.30	7.20	121.70	97.60	11.76	127.90	7.50	7.17	122.50	94.70	11.21	180.30	7.70	7.21	122.10	81.30	9.88	192.90
11	6.70	7.37	112.20	98.20	12.34	152.80	69.00	6.97	113.40	88.30	10.43	139	7.30	7.20	121.40	97.70	11.96	128.50	7.40	7.17	122.30	91.30	11.12	179.20	7.60	7.46	121.80	81.30	9.73	194.20
12	6.70	7.37	112.20	97.40	11.78	152.90	6.90	6.94	112.70	88.60	10.57	142.9	7.20	7.19	121.00	98.20	11.97	129.30	7.30	7.16	122.30	91.80	10.91	180.10	7.60	7.76	122.00	80.10	9.57	194.70
13	6.60	7.35	112.20	97.40	12.12	153.40	6.80	6.94	113.30	85.50	10.38	141.4	7.10	7.17	121.70	95.30	11.50	130.40	7.30	7.11	127.80	63.10	9.81	179.10	7.50	7.79	121.90	76.50	9.44	195.80
14	6.60	7.35	112.30	87.50	10.67	153.10	6.80	6.66	144.00	40.10	4.06	43.7	7.00	7.02	171.60	60.20	7.28	76.80	7.20	6.97	148.30	59.70	6.61	131.50	7.50	8.26	124.90	78.90	9.47	187.30
1m from Bottom (BS)	BS=14m						BS=14m						BS=14m						BS=14m						BS=14m					

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 44 MQL Depth Profile 3 Page(s)

EMS ID E206618																														
Site NAME: MIDDLE QUINSAM LAKE (MQL)																														
MIDDLE QUINSAM LAKE DEPTH PROFILING SUMMER																														
Sample Date Parameter Sample Depth (m)	12-Jul						19-Jul						26-Jul						04-Aug						10-Aug					
	TEMP. Celcius	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. Celcius	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. Celcius	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. Celcius	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. Celcius	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV
1	25.00	8.12	190.50	106.20	8.77	158.10	22.49	8.10	189.00	103.70	8.98	118.60	22.24	8.02	182.20	105.40	9.17	115.50	24.36	7.99	188.60	106.90	8.94	90.10	22.76	7.87	193.80	102.80	8.85	104.90
	24.87	8.12	190.80	106.00	8.78	159.80	22.39	8.10	187.40	102.80	8.92	120.70	21.93	8.11	185.10	104.80	9.17	125.70	24.23	7.99	188.30	108.30	9.08	92.80	22.57	7.87	194.20	102.90	8.89	109.50
2	24.56	8.12	187.00	108.10	9.03	163.50	22.35	8.10	188.20	102.90	8.93	122.60	21.68	8.10	186.80	104.50	9.19	134.30	24.03	7.93	187.80	110.00	9.25	94.60	22.46	7.87	193.70	102.00	8.84	112.10
3	23.80	8.15	208.70	119.60	10.12	161.40	22.31	8.09	188.90	103.00	8.95	124.20	21.50	8.08	187.90	104.60	9.24	136.30	23.35	7.90	185.70	109.70	9.36	96.10	22.41	7.88	193.40	101.90	8.84	112.90
4	20.69	8.31	234.50	122.60	11.02	163.80	21.76	8.16	193.30	104.10	9.14	126.00	21.41	8.06	188.90	103.30	9.14	138.50	22.75	7.95	186.90	108.90	9.37	96.40	22.23	7.83	195.50	102.10	8.88	115.10
5	19.05	8.30	234.10	109.80	10.25	172.80	19.62	8.21	232.80	115.90	10.63	130.00	21.12	8.03	198.50	110.20	9.95	139.60	21.74	7.99	199.20	108.90	9.58	98.30	21.92	7.77	201.30	102.80	9.00	117.90
6	16.78	8.31	223.10	113.40	11.19	166.50	16.84	8.30	201.30	122.20	11.82	130.40	17.53	8.32	195.00	125.50	12.20	139.20	18.53	8.45	217.90	132.20	12.54	96.80	19.13	8.38	217.10	132.70	12.30	111.10
7	14.29	8.38	154.40	128.00	13.16	165.90	14.90	8.47	160.60	128.70	13.03	128.60	14.64	8.27	152.70	127.10	12.96	140.60	16.06	8.41	179.90	133.30	13.05	100.80	15.65	8.38	164.90	132.90	13.21	115.00
8	12.10	7.99	123.50	121.60	13.10	174.00	11.61	7.88	123.10	116.80	12.66	140.90	13.31	8.12	131.60	124.00	13.02	147.20	13.27	8.04	136.10	121.10	12.72	109.80	13.38	7.86	135.80	121.20	12.66	127.30
9	11.18	7.79	122.60	115.00	12.63	178.40	10.95	7.63	122.90	109.00	12.03	144.30	11.01	7.60	126.80	105.00	11.57	158.70	11.93	7.68	133.00	111.30	12.02	112.90	11.94	7.49	132.10	106.60	11.49	133.60
10	10.50	7.58	122.60	122.50	11.89	183.00	10.41	7.45	123.90	98.40	11.04	147.40	10.52	7.45	127.30	96.90	10.80	161.20	11.20	7.34	133.70	99.30	10.89	113.70	11.05	7.21	133.20	91.00	10.02	137.50
11	10.15	7.42	123.10	101.90	11.25	185.70	10.08	7.31	89.10	92.40	10.40	149.60	10.27	7.31	128.30	90.10	10.07	162.60	10.55	7.15	135.30	86.70	9.60	110.20	10.73	7.10	134.30	83.90	9.30	138.70
12	9.96	7.31	123.80	95.40	10.77	187.50	9.97	7.16	126.30	83.20	9.38	152.00	10.16	7.16	129.40	84.10	9.45	163.90	10.41	7.02	136.40	78.90	8.75	109.80	10.50	6.99	135.30	76.30	8.48	140.30
13							9.93	7.02	126.90	76.40	8.64	86.70	10.16	7.08	129.30	83.20	9.34	164.00							10.46	6.89	135.70	73.30	8.19	140.30
13.5																														
1m from Bottom (1MB)	1MB = 13m						1MB = 13.5m						1MB = 13.5m						1MB = 13m						1MB = 13.5m					

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 44 MQL Depth Profile 3 Page(s)

EMS ID E206618																																
Site NAME: MIDDLE QUINSAM LAKE (MQL)																																
MIDDLE QUINSAM LAKE DEPTH PROFILING FALL																																
Sample Depth (m)	Sample Parameter	06-Oct						13-Oct						19-Oct						27-Oct						02-Nov						
		TEMP. Celcius	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. Celcius	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. Celcius	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. Celcius	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. Celcius	pH	COND. µS/cm	% Sat.	D.O. mg/L	ORP mV	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 14.5	1	13.64	7.38	174.10	90.60	9.41	37.70	11.52	7.39	164.50	88.70	9.66	45.70	10.63	7.22	159.70	88.10	9.79	153.40	9.52	7.13	164.10	88.80	10.13	71.70	8.25	7.06	161.10	87.70	10.32	160.70	
	2	13.53	7.37	173.80	90.80	9.45	43.30	11.52	7.39	164.50	88.60	9.65	47.20	10.63	7.21	159.70	88.00	9.78	154.20	9.50	7.15	164.60	88.80	10.14	72.70	8.25	7.07	161.00	87.50	10.29	160.10	
	3	13.52	7.39	173.60	90.80	9.45	46.80	11.51	7.38	164.40	88.50	9.65	48.90	10.63	7.20	159.80	87.80	9.76	154.90	9.50	7.20	164.50	88.70	10.13	73.50	8.25	7.09	161.00	86.80	10.22	158.50	
	4	13.44	7.40	173.10	91.00	9.48	53.40	11.50	7.38	164.20	88.60	9.65	49.90	10.62	7.21	160.10	87.70	9.75	154.90	9.50	7.19	164.50	88.60	10.12	74.70	8.24	7.09	161.00	86.80	10.22	159.10	
	5	13.42	7.39	173.40	90.60	9.45	59.30	11.49	7.38	164.50	88.40	9.63	51.50	10.62	7.20	160.10	87.40	9.72	154.80	9.49	7.21	164.40	88.60	10.11	74.80	8.24	7.08	161.00	86.70	10.21	159.00	
	6	13.41	7.38	173.00	90.50	9.45	60.50	11.49	7.37	164.50	88.40	9.63	52.40	10.60	7.19	159.90	87.10	9.70	155.20	9.48	7.22	164.30	88.60	10.12	75.70	8.24	7.08	161.00	86.70	10.20	158.70	
	7	13.40	7.39	172.80	90.50	9.45	61.90	11.48	7.38	164.50	88.30	9.62	54.80	10.58	7.19	159.80	86.90	9.67	155.00	9.48	7.22	163.60	88.60	10.12	76.90	8.24	7.08	161.00	86.60	10.19	158.80	
	8	13.39	7.39	173.60	90.00	9.40	66.10	11.44	7.37	164.50	87.80	9.58	57.80	10.58	7.18	159.80	86.80	9.66	155.80	9.48	7.22	163.50	88.60	10.12	77.20	8.23	7.08	161.10	86.50	10.18	158.80	
	9	13.34	7.39	173.30	89.70	9.38	68.50	11.43	7.37	164.30	87.60	9.56	59.90	10.58	7.17	160.10	87.00	9.68	156.20	9.48	7.21	163.70	88.60	10.13	78.30	8.23	7.08	161.00	86.40	10.18	158.80	
	10	13.32	7.38	172.40	89.40	9.35	70.20	11.41	7.36	164.60	87.60	9.56	61.20	10.58	7.19	160.10	87.10	9.71	155.20	9.47	7.22	163.70	88.60	10.12	78.00	8.22	7.08	161.00	86.30	10.16	159.00	
	11	13.29	7.37	172.10	89.70	9.39	71.50	11.40	7.38	164.40	87.70	9.58	61.70	10.57	7.19	160.20	87.20	9.71	155.40	9.47	7.22	164.10	88.60	10.13	78.70	8.22	7.07	161.40	86.30	10.16	159.00	
	12	13.25	7.38	170.60	72.90	9.40	72.90	11.36	7.38	164.40	87.60	9.58	62.50	10.57	7.20	160.30	87.20	9.71	154.70	9.48	7.24	164.30	88.70	10.13	79.50	8.21	7.07	161.00	86.20	10.15	158.70	
	13	13.18	7.37	168.80	89.90	9.42	75.20	11.34	7.37	164.10	87.70	9.59	63.30	10.54	7.20	160.40	87.00	9.69	154.60	9.47	7.25	164.30	88.60	10.12	80.10	8.18	7.07	161.10	85.90	10.13	158.40	
	14														10.52	7.21	160.70	86.90	9.69	154.30	9.46	7.24	164.60	88.50	10.12	80.90	8.15	7.06	160.90	85.60	10.10	158.60
	14.5																				9.44	7.24	164.50	88.50	10.11	80.80	8.15	7.04	160.90	85.00	10.04	158.30
1m from Bottom (1MB)		1MB = 13m						1MB = 13m						1MB = 14m						1MB = 14.5m						1MB = 14.5m						

Table 45 LQL Depth Profile 1 Page(s)

EMS ID E292118																														
Site NAME: LOWER QUINSAM LAKE (LQL)																														
Sample Date Parameter Sample Depth (m)	08-Apr						14-Apr						20-Apr						28-Apr						04-May					
	TEMP. °C	pH	C µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. °C	pH	C µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. °C	pH	C µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. °C	pH	C µS/cm	% Sat.	D.O. mg/L	ORP mV	TEMP. °C	pH	C µS/cm	% Sat.	D.O. mg/L	ORP mV
1	6.80	7.42	103.50	97.40	11.69	239.50	8.80	7.01	105.70	106.80	12.38	154.60	11.20	7.30	113.20	104.70	11.51	151.10	11.00	7.35	117.30	88.70	9.96	180.60	11.00	7.05	120.30	82.90	9.15	192.30
2	6.80	7.41	103.40	97.20	11.70	229.60	8.70	6.99	106.30	99.70	11.71	156.00	9.20	7.25	112.20	103.30	11.75	154.00	10.10	7.31	116.60	90.70	10.27	184.80	10.00	7.05	120.60	82.30	9.26	192.60
3	6.80	7.40	103.50	97.40	11.78	225.70	7.70	6.96	107.00	99.60	11.80	157.80	8.70	7.22	112.70	100.60	11.69	155.60	9.30	7.29	120.40	87.90	10.15	186.50	9.90	7.00	118.90	81.60	9.35	193.20
4	6.80	7.39	103.50	97.20	11.68	224.40	7.60	6.95	106.20	95.60	11.40	159.20	8.60	7.21	113.00	99.40	11.62	156.80	9.10	7.27	119.30	86.90	10.80	187.80	9.70	7.02	116.40	80.90	9.26	193.10
5	6.80	7.38	103.50	95.10	11.49	221.10	7.40	6.93	107.00	96.30	11.50	161.00	8.30	7.19	113.20	102.80	12.19	158.40	8.90	7.25	118.50	87.70	10.13	188.70	9.40	7.03	113.70	80.10	9.22	192.70
6	6.80	7.38	103.50	94.90	11.59	218.20	7.20	6.92	105.60	93.70	11.19	161.80	8.00	7.19	112.80	100.10	11.93	158.00	8.70	7.23	116.10	87.20	10.26	189.90	8.90	7.04	112.10	81.30	9.37	193.70
7	6.80	7.37	103.50	96.30	11.50	215.00	7.00	6.91	106.30	89.00	11.35	162.90	7.60	7.17	112.00	98.50	11.75	159.20	8.10	7.22	112.30	86.30	10.62	190.70	7.90	7.07	109.10	79.70	9.39	194.20
8	6.80	7.36	103.50	94.00	11.66	212.70	6.90	6.90	105.50	90.20	10.94	163.70	7.10	7.16	112.30	99.50	12.12	159.60	7.50	7.20	111.80	90.20	10.82	191.80	7.80	7.07	108.30	79.30	9.48	195.00
9	6.80	7.34	103.40	94.00	11.51	211.70	6.70	6.90	106.30	90.20	10.92	163.70	6.70	7.14	113.60	99.20	12.21	160.30	7.30	7.16	111.90	88.60	10.73	193.50	7.50	7.08	107.90	79.90	9.46	195.10
10	6.70	7.33	103.50	95.40	11.71	211.40	6.60	6.88	108.50	88.90	10.94	165.50	6.60	7.14	114.30	97.80	12.02	160.20	7.10	7.14	112.50	89.20	10.85	194.40	7.30	7.08	107.90	78.40	9.46	196.90
11	6.30	7.34	103.60	93.00	11.60	207.60	6.50	6.89	109.00	85.00	10.41	163.90	6.50	7.14	114.70	97.20	11.88	160.20	6.90	7.12	113.10	88.20	10.73	194.90	7.20	7.11	107.90	78.30	9.52	195.90
12	6.10	7.32	104.10	94.40	11.60	205.80	6.40	6.88	109.10	83.50	10.17	165.20	6.50	7.15	115.10	95.20	11.66	159.90	6.80	7.12	113.80	85.90	10.48	195.30	6.90	7.13	108.50	77.80	9.43	196.20
13	6.00	7.30	104.70	92.70	11.25	205.00	6.40	6.89	109.20	84.20	10.32	164.30	6.40	7.15	115.40	94.30	11.63	159.60	6.60	7.10	114.70	83.20	10.27	195.60	6.70	7.15	109.50	73.40	8.95	196.30
14	5.90	7.28	104.60	95.20	11.31	204.20	6.30	6.88	109.20	86.50	10.50	164.60	6.40	7.14	115.40	92.70	11.42	159.60	6.50	7.08	115.00	82.00	10.04	195.70	6.60	7.15	109.70	70.10	8.57	197.40
15	5.80	7.28	105.60	95.00	11.43	203.70	6.30	6.88	109.40	84.50	10.46	164.50	6.40	7.14	115.60	90.60	11.26	159.40	6.50	7.07	115.00	81.70	10.03	196.00	6.60	7.19	109.70	70.8	8.73	196.70
16	5.70	7.26	105.80	87.80	10.97	202.00	6.30	6.89	109.60	85.20	10.30	163.40	6.30	7.13	115.70	90.10	11.12	159.60	6.50	7.06	115.00	80.60	9.87	195.80	6.50	7.20	110.00	65.30	8.12	196.60
17	5.70	7.26	105.80	91.60	10.82	200.00	6.30	6.89	109.80	84.30	10.20	161.80	6.30	7.13	115.90	87.70	10.74	159.20	6.50	7.03	115.20	76.30	9.32	192.20	6.50	7.22	110.10	63.30	7.83	196.10
18	5.70	7.26	105.70	81.90	10.10	198.00	6.30	6.90	109.80	74.10	9.08	159.30	6.30	7.13	115.90	78.70	9.59	157.40	6.50	6.98	115.10	77.20	9.40	175.00	6.50	7.23	110.10	59.10	7.33	192.70
1m from Bottom (1MB)	1MB = 18m						1MB = 18m						1MB = 18m						1MB = 18m						1MB = 18m					

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Table 46 Spring Lakes 17 Page(s)

Table 46 Spring Lakes 17 Page(s)											
EMS ID		E217018							Water Quality Guidelines		
StnName		No Name Lake 1M									
StnCode		NNL1									
Date	Unit	7-Apr-21	14-Apr-21	20-Apr-21	27-Apr-21	4-May-21	Count	Maximum	5 in 30 Ave	Average	Max
SO4-D	mg/L	1.6	2.0	2.5	1.6	1.8	5	2.5	1.9	128	
Turb	NTU	0.51	0.29	0.28	0.22	0.22	5	0.51	0.30		
Alk-T	mg/L	10	12	12	12	11	5	12	11.4		
Al-T	mg/L	0.0370	0.0355	0.0276	0.0273	0.0257	5	0.0370	0.0306		
As-T	mg/L	0.00021	0.00022	0.00020	0.00022	0.00023	5	0.00023	0.00022		0.005
Ba-T	mg/L	0.0011	0.0014	<0.0010	0.0011	0.0011	5	0.0014	0.00104	1	
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050		
Ca-T	mg/L	3.53	3.86	3.54	3.87	3.93	5	3.93	3.75		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	5	<0.00050	0.000250		
Hard-T	mg/L	12.2	13.2	12.1	13.2	13.4	5	13.4	12.8		
Fe-T	mg/L	0.072	0.063	0.050	0.057	0.062	5	0.072	0.061		1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763
Mg-T	mg/L	0.831	0.873	0.786	0.864	0.876	5	0.876	0.846		
Mn-T	mg/L	0.0039	0.0037	0.0033	0.0043	0.0044	5	0.0044	0.0039	0.737	0.8706
Hg-T	mg/L	0.0000025	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	0.0000025	0.00000126	0.00002	
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1	2
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025	
K-T	mg/L	0.054	0.064	0.051	0.057	0.064	5	0.064	0.058		
S-T	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50		
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001
Na-T	mg/L	1.06	1.08	1.03	1.09	1.14	5	1.14	1.08		
Sr-T	mg/L	0.0113	0.0122	0.0112	0.0127	0.0127	5	0.0127	0.0120		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033
Al-D	mg/L	0.0291	0.0250	0.0254	0.0230	0.0219	5	0.0291	0.0249	0.05	0.1
As-D	mg/L	0.00017	0.00020	0.00021	0.00020	0.00023	5	0.00023	0.00020		
Ba-D	mg/L	0.0010	0.0010	<0.0010	0.0011	0.0010	5	0.0011	0.00092		
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250		
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017
Ca-D	mg/L	3.40	3.56	3.72	3.82	3.76	5	3.82	3.65		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Cu-D	mg/L	0.00037	0.00036	0.00034	0.00035	0.00030	5	0.00037	0.00034	*	*
Hard-D	mg/L	11.9	12.2	12.8	12.8	12.9	5	12.9	12.5		
Fe-D	mg/L	0.0376	0.0361	0.0388	0.0434	0.0505	5	0.0505	0.0413		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Mg-D	mg/L	0.825	0.811	0.855	0.797	0.853	5	0.855	0.828		
Mn-D	mg/L	0.0026	0.0022	0.0027	0.0040	0.0040	5	0.0040	0.0031		
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
K-D	mg/L	0.055	0.055	0.057	0.067	0.066	5	0.067	0.060		
S-D	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50		
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050		
Na-D	mg/L	1.02	1.01	1.07	1.06	1.11	5	1.11	1.05		
Sr-D	mg/L	0.0113	0.0114	0.0114	0.0120	0.0122	5	0.0122	0.0117		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		
N-NO2	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.02	0.06
N-NO3	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	5	<0.020	0.0100	3	32.8
N-NO23	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	5	<0.020	0.0100		
P-T	mg/L	<0.0030	<0.0030	0.0049	<0.0030	0.0048	5	0.0049	0.00284		
P-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	5	<0.010	0.0050		
DOC	mg/L	2.3	2.7	2.1	2.4	2.3	5	2.7	2.4		
Chlr-a	ug/L					<0.50	1	<0.50	0.250		

Notes: *Copper is a variable guideline. See Exceedance Table.

Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 46 Spring Lakes 17 Page(s)

EMS ID	E217018							Water Quality Guidelines			
StnName	No Name Lake 4M										
StnCode	NNL4										
Date	Unit	7-Apr-21	14-Apr-21	20-Apr-21	27-Apr-21	4-May-21	Count	Maximum	5 in 30 Ave	Average	Max
SO4-D	mg/L	1.7	1.8	5.0	1.4	2.2	5	5.0	2.4	128	
Turb	NTU	0.40	0.32	0.63	0.28	0.29	5	0.63	0.38		
Alk-T	mg/L	10	11	9.2	13	11	5	13	10.8		
Al-T	mg/L	0.0371	0.0339	0.0297	0.0306	0.0263	5	0.0371	0.0315		
As-T	mg/L	0.00021	0.00022	0.00020	0.00021	0.00022	5	0.00022	0.00021		0.005
Ba-T	mg/L	0.0011	0.0010	0.0010	0.0010	0.0010	5	0.0011	0.0010	1	
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050		
Ca-T	mg/L	3.67	3.76	3.45	3.80	3.76	5	3.80	3.69		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	0.00084	<0.00050	5	0.00084	0.000368		
Hard-T	mg/L	12.7	12.8	11.8	13.0	12.7	5	13.0	12.6		
Fe-T	mg/L	0.076	0.069	0.057	0.049	0.054	5	0.076	0.061		1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763
Mg-T	mg/L	0.855	0.833	0.785	0.844	0.810	5	0.855	0.825		
Mn-T	mg/L	0.0041	0.0037	0.0029	0.0025	0.0031	5	0.0041	0.0033	0.737	0.8706
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095	0.00002	
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1	2
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025	
K-T	mg/L	0.053	0.061	0.053	0.059	0.058	5	0.061	0.057		
S-T	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50		
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001
Na-T	mg/L	1.07	1.05	1.01	1.08	1.04	5	1.08	1.05		
Sr-T	mg/L	0.0116	0.0117	0.0111	0.0124	0.0119	5	0.0124	0.0117		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033
Al-D	mg/L	0.0301	0.0272	0.0255	0.0224	0.0228	5	0.0301	0.0256	0.05	0.1
As-D	mg/L	0.00015	0.00020	0.00018	0.00018	0.00022	5	0.00022	0.00019		
Ba-D	mg/L	<0.0010	0.0011	<0.0010	0.0010	0.0010	5	0.0011	0.00082		
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250		
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017
Ca-D	mg/L	3.61	3.58	3.72	3.74	3.72	5	3.74	3.67		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Cu-D	mg/L	0.00037	0.00040	0.00034	0.00034	0.00029	5	0.00040	0.00035	*	*
Hard-D	mg/L	12.5	12.5	12.7	12.4	12.8	5	12.8	12.6		
Fe-D	mg/L	0.0394	0.0381	0.0339	0.0308	0.0414	5	0.0414	0.0367		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Mg-D	mg/L	0.850	0.852	0.834	0.753	0.846	5	0.852	0.827		
Mn-D	mg/L	0.0024	0.0020	0.0016	0.0019	0.0027	5	0.0027	0.0021		
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
K-D	mg/L	0.059	0.060	0.055	0.063	0.065	5	0.065	0.060		
S-D	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50		
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050		
Na-D	mg/L	1.08	1.06	1.06	1.02	1.06	5	1.08	1.06		
Sr-D	mg/L	0.0118	0.0117	0.0110	0.0119	0.0122	5	0.0122	0.0117		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		
N-NO2	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.02	0.06
N-NO3	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	5	<0.020	0.0100	3	32.8
N-NO23	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	5	<0.020	0.0100		
P-T	mg/L	0.0036	<0.0030	0.0039	<0.0030	0.0045	5	0.0045	0.00300		
P-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	5	<0.010	0.0050		
DOC	mg/L	2.4	2.6	2.0	2.4	2.4	5	2.6	2.4		

Notes: *Copper is a variable guideline. See Exceedance Table.

Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 46 Spring Lakes 17 Page(s)

EMS ID	E217018							Water Quality Guidelines			
StnName	No Name Lake 9M										
StnCode	NNL9										
Date	Unit	7-Apr-21	14-Apr-21	20-Apr-21	27-Apr-21	4-May-21	Count	Maximum	5 in 30 Ave	Average	Max
SO4-D	mg/L	2.7	2.8	3.6	2.6	2.1	5	3.6	2.8	128	
Turb	NTU	0.54	0.41	0.56	0.39	0.27	5	0.56	0.43		
Alk-T	mg/L	11	11	13	11	10	5	13	11.2		
Al-T	mg/L	0.0413	0.0379	0.0342	0.0350	0.0294	5	0.0413	0.0356		
As-T	mg/L	0.00022	0.00021	0.00021	0.00019	0.00021	5	0.00022	0.00021		0.005
Ba-T	mg/L	0.0012	0.0011	0.0011	0.0011	0.0011	5	0.0012	0.0011	1	
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050		
Ca-T	mg/L	3.81	4.08	3.72	3.95	3.87	5	4.08	3.89		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	5	<0.00050	0.000250		
Hard-T	mg/L	13.1	13.8	12.6	13.4	13.2	5	13.8	13.2		
Fe-T	mg/L	0.092	0.087	0.088	0.082	0.073	5	0.092	0.084		1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763
Mg-T	mg/L	0.871	0.873	0.806	0.854	0.853	5	0.873	0.851		
Mn-T	mg/L	0.0060	0.0054	0.0054	0.0047	0.0043	5	0.0060	0.0052	0.737	0.8706
Hg-T	mg/L	0.0000023	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	0.0000023	0.00000122	0.00002	
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1	2
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025	
K-T	mg/L	0.054	0.065	0.055	0.059	0.063	5	0.065	0.059		
S-T	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50		
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001
Na-T	mg/L	1.03	1.05	1.02	1.05	1.08	5	1.08	1.05		
Sr-T	mg/L	0.0129	0.0126	0.0122	0.0134	0.0129	5	0.0134	0.0128		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0059	5	0.0059	0.00318	0.0075	0.033
Al-D	mg/L	0.0323	0.0276	0.0305	0.0272	0.0238	5	0.0323	0.0283	0.05	0.1
As-D	mg/L	0.00015	0.00020	0.00021	0.00017	0.00020	5	0.00021	0.00019		
Ba-D	mg/L	0.0011	0.0011	0.0012	0.0011	0.0010	5	0.0012	0.0011		
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250		
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017
Ca-D	mg/L	3.86	3.79	3.96	3.94	3.71	5	3.96	3.85		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Cu-D	mg/L	0.00035	0.00034	0.00088	0.00034	0.00029	5	0.00088	0.00044	*	*
Hard-D	mg/L	13.2	12.9	13.4	13.1	12.6	5	13.4	13.0		
Fe-D	mg/L	0.0461	0.0457	0.0485	0.0374	0.0439	5	0.0485	0.0443		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Mg-D	mg/L	0.866	0.833	0.858	0.780	0.805	5	0.866	0.828		
Mn-D	mg/L	0.0031	0.0023	0.0025	0.0018	0.0027	5	0.0031	0.0025		
Hg-D	mg/L	0.0000020	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	0.0000020	0.00000116		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
K-D	mg/L	0.060	0.061	0.073	0.071	0.063	5	0.073	0.066		
S-D	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50		
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050		
Na-D	mg/L	1.03	1.02	1.16	0.989	1.02	5	1.16	1.044		
Sr-D	mg/L	0.0137	0.0126	0.0125	0.0133	0.0123	5	0.0137	0.0129		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		
N-NO2	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.02	0.06
N-NO3	mg/L	0.026	0.021	0.022	0.023	<0.020	5	0.026	0.0204	3	32.8
N-NO23	mg/L	0.026	0.021	0.022	0.023	<0.020	5	0.026	0.0204		
P-T	mg/L	<0.0030	<0.0030	0.0037	<0.0030	0.0047	5	0.0047	0.00258		
P-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	5	<0.010	0.0050		
DOC	mg/L	2.3	2.6	2.1	2.7	2.6	5	2.7	2.5		

Notes: *Copper is a variable guideline. See Exceedance Table.

Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 46 Spring Lakes 17 Page(s)

EMS ID	E217018							Water Quality Guidelines			
StnName	No Name Lake 1 Metre from Bottom										
StnCode	NNL 1MB										
Date	Unit	7-Apr-21	14-Apr-21	20-Apr-21	27-Apr-21	4-May-21	Count	Maximum	5 in 30 Ave	Average	Max
SO4-D	mg/L	2.9	2.6	3.6	3.8	3.4	5	3.8	3.3	128	
Turb	NTU	0.34	0.35	0.57	0.78	0.36	5	0.78	0.48		
Alk-T	mg/L	10	10	9.1	9.4	11	5	11	9.9		
Al-T	mg/L	0.0413	0.0389	0.0382	0.0384	0.0348	5	0.0413	0.0383		
As-T	mg/L	0.00021	0.00021	0.00023	0.00028	0.00021	5	0.00028	0.00023		0.005
Ba-T	mg/L	0.0011	0.0012	0.0013	0.0012	0.0011	5	0.0013	0.0012	1	
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050		
Ca-T	mg/L	3.88	4.08	3.97	4.28	3.95	5	4.28	4.03		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	5	<0.00050	0.000250		
Hard-T	mg/L	13.3	13.9	13.5	14.4	13.3	5	14.4	13.7		
Fe-T	mg/L	0.091	0.094	0.107	0.182	0.096	5	0.182	0.114		1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763
Mg-T	mg/L	0.883	0.887	0.859	0.892	0.832	5	0.892	0.871		
Mn-T	mg/L	0.0061	0.0058	0.0069	0.0092	0.0052	5	0.0092	0.0066	0.737	0.8706
Hg-T	mg/L	0.0000022	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	0.0000022	0.00000120	0.00002	
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1	2
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025	
K-T	mg/L	0.055	0.067	0.059	0.063	0.061	5	0.067	0.061		
S-T	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50		
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001
Na-T	mg/L	1.06	1.06	1.06	1.05	1.04	5	1.06	1.05		
Sr-T	mg/L	0.0129	0.0132	0.0132	0.0151	0.0134	5	0.0151	0.0136		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033
Al-D	mg/L	0.0317	0.0291	0.0316	0.0283	0.0253	5	0.0317	0.0292	0.05	0.1
As-D	mg/L	0.00016	0.00020	0.00017	0.00021	0.00018	5	0.00021	0.00018		
Ba-D	mg/L	0.0011	0.0012	0.0012	0.0011	0.0011	5	0.0012	0.0011		
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250		
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017
Ca-D	mg/L	3.91	3.80	4.06	4.06	3.90	5	4.06	3.95		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Cu-D	mg/L	0.00035	0.00037	0.00035	0.00034	0.00028	5	0.00037	0.00034	*	*
Hard-D	mg/L	13.3	12.9	13.8	13.6	13.0	5	13.8	13.3		
Fe-D	mg/L	0.0463	0.0450	0.0490	0.0783	0.0465	5	0.0783	0.0530		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Mg-D	mg/L	0.870	0.839	0.894	0.841	0.794	5	0.894	0.848		
Mn-D	mg/L	0.0031	0.0025	0.0032	0.0045	0.0021	5	0.0045	0.0031		
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
K-D	mg/L	0.057	0.063	0.063	0.067	0.064	5	0.067	0.063		
S-D	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50		
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050		
Na-D	mg/L	1.04	1.03	1.08	1.03	0.987	5	1.08	1.033		
Sr-D	mg/L	0.0132	0.0126	0.0130	0.0146	0.0130	5	0.0146	0.0133		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		
N-NO2	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.02	0.06
N-NO3	mg/L	0.026	0.027	0.033	0.034	0.025	5	0.034	0.029	3	32.8
N-NO23	mg/L	0.026	0.027	0.033	0.034	0.025	5	0.034	0.029		
P-T	mg/L	<0.0030	<0.0030	0.0030	<0.0030	0.0040	5	0.0040	0.00230		
P-D	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	5	<0.010	0.0050		
DOC	mg/L	2.5	2.4	2.0	2.4	2.2	5	2.5	2.3		

Notes: *Copper is a variable guideline. See Exceedance Table.

Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 46 Spring Lakes 17 Page(s)

EMS ID	E206619	Water Quality Guidelines									
StnName	Long Lake Middle 1 M										
StnCode	LLM1										
Date	Unit	7-Apr-21	14-Apr-21	20-Apr-21	27-Apr-21	4-May-21	Count	Maximum	5 in 30 Ave	Average	Max
SO4-D	mg/L	45	50	42	42	41	5	50	44.0	128	
Turb	NTU	0.36	0.26	0.30	0.22	0.21	5	0.36	0.27		
Alk-T	mg/L	25	27	27	26	27	5	27	26.4		
Al-T	mg/L	0.0292	0.0273	0.0248	0.0232	0.0201	5	0.0292	0.0249		
As-T	mg/L	0.00031	0.00029	0.00029	0.00031	0.00033	5	0.00033	0.00031		0.005
Ba-T	mg/L	0.0039	0.0038	0.0036	0.0039	0.0040	5	0.0040	0.0038	1	
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050		
Ca-T	mg/L	17.8	18.9	17.1	18.0	17.4	5	18.9	17.8		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0062	5	0.0062	0.00164		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	0.00070	5	0.00070	0.000340		
Hard-T	mg/L	54.4	57.1	51.9	54.9	53.7	5	57.1	54.4		
Fe-T	mg/L	0.074	0.072	0.061	0.051	0.049	5	0.074	0.061		1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763
Mg-T	mg/L	2.40	2.40	2.24	2.40	2.47	5	2.47	2.38		
Mn-T	mg/L	0.0142	0.0139	0.0121	0.0112	0.0100	5	0.0142	0.0123	0.737	0.8706
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095	0.00002	
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0067	5	0.0067	0.00174	1	2
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0281	5	0.0281	0.00602	0.025	
K-T	mg/L	0.215	0.240	0.219	0.225	0.235	5	0.240	0.227		
S-T	mg/L	13.9	13.8	14.1	13.7	14.7	5	14.7	14.0		
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001
Na-T	mg/L	5.93	6.08	5.69	5.98	6.14	5	6.14	5.96		
Sr-T	mg/L	0.128	0.130	0.117	0.124	0.126	5	0.130	0.125		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033
Al-D	mg/L	0.0228	0.0201	0.0186	0.0171	0.0157	5	0.0228	0.0189	0.05	0.1
As-D	mg/L	0.00024	0.00028	0.00027	0.00028	0.00029	5	0.00029	0.00027		
Ba-D	mg/L	0.0035	0.0037	0.0036	0.0038	0.0037	5	0.0038	0.0037		
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250		
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017
Ca-D	mg/L	18.2	18.0	17.6	18.0	17.8	5	18.2	17.9		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Cu-D	mg/L	0.00032	0.00032	0.00034	0.00029	0.00027	5	0.00034	0.00031	*	*
Hard-D	mg/L	55.4	54.6	53.4	54.5	54.1	5	55.4	54.4		
Fe-D	mg/L	0.0440	0.0432	0.0391	0.0366	0.0344	5	0.0440	0.0395		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Mg-D	mg/L	2.39	2.33	2.29	2.29	2.37	5	2.39	2.33		
Mn-D	mg/L	0.0110	0.0100	0.0079	0.0071	0.0060	5	0.0110	0.0084		
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
K-D	mg/L	0.218	0.227	0.216	0.218	0.230	5	0.230	0.222		
S-D	mg/L	14.0	13.5	13.6	13.6	13.8	5	14.0	13.7		
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050		
Na-D	mg/L	5.83	6.05	5.73	5.78	5.94	5	6.05	5.87		
Sr-D	mg/L	0.118	0.124	0.115	0.126	0.126	5	0.126	0.122		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		
N-NO2	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.02	0.06
N-NO3	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	5	<0.020	0.0100	3	32.8
N-NO23	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	5	<0.020	0.0100		
P-T	mg/L	<0.0030	<0.0030	0.022	<0.0030	<0.0030	5	0.022	0.00560		
P-D	mg/L				<0.010	<0.010	2	<0.010	0.0050		
DOC	mg/L	2.2	3.4	2.3	2.6	2.6	5	3.4	2.6		
Chlr-a	ug/L					0.69	1	0.69	0.69		

Notes: *Copper is a variable guideline. See Exceedance Table.

Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 46 Spring Lakes 17 Page(s)

EMS ID	E206619							Water Quality Guidelines			
StnName	Long Lake Middle 4 M										
StnCode	LLM4										
Date	Unit	7-Apr-21	14-Apr-21	20-Apr-21	27-Apr-21	4-May-21	Count	Maximum	5 in 30 Ave	Average	Max
SO4-D	mg/L	42	59	60	51	53	5	60	53.0	128	
Turb	NTU	0.37	0.35	0.62	0.24	0.23	5	0.62	0.36		
Alk-T	mg/L	25	30	29	36	30	5	36	30.0		
Al-T	mg/L	0.0306	0.0275	0.0261	0.0237	0.0192	5	0.0306	0.0254		
As-T	mg/L	0.00030	0.00030	0.00028	0.00031	0.00030	5	0.00031	0.00030		0.005
Ba-T	mg/L	0.0039	0.0044	0.0041	0.0043	0.0042	5	0.0044	0.0042	1	
B-T	mg/L	<0.050	0.052	<0.050	0.051	0.052	5	0.052	0.0410	1.2	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050		
Ca-T	mg/L	18.1	22.8	20.0	20.9	21.0	5	22.8	20.6		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0029	5	0.0029	0.00098		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	5	<0.00050	0.000250		
Hard-T	mg/L	54.9	68.3	60.4	63.2	63.6	5	68.3	62.1		
Fe-T	mg/L	0.074	0.078	0.067	0.059	0.049	5	0.078	0.065		1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763
Mg-T	mg/L	2.37	2.77	2.54	2.69	2.68	5	2.77	2.61		
Mn-T	mg/L	0.0144	0.0182	0.0150	0.0143	0.0119	5	0.0182	0.0148	0.737	0.8706
Hg-T	mg/L	0.0000021	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	0.0000021	0.00000118	0.00002	
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0032	5	0.0032	0.00104	1	2
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0129	5	0.0129	0.00298	0.025	
K-T	mg/L	0.219	0.278	0.241	0.263	0.267	5	0.278	0.254		
S-T	mg/L	14.7	17.8	16.2	17.7	17.6	5	17.8	16.8		
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001
Na-T	mg/L	6.07	7.23	6.76	7.00	7.20	5	7.23	6.85		
Sr-T	mg/L	0.131	0.157	0.143	0.147	0.153	5	0.157	0.146		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033
Al-D	mg/L	0.0218	0.0194	0.0195	0.0168	0.0141	5	0.0218	0.0183	0.05	0.1
As-D	mg/L	0.00026	0.00028	0.00028	0.00030	0.00027	5	0.00030	0.00028		
Ba-D	mg/L	0.0036	0.0044	0.0040	0.0042	0.0042	5	0.0044	0.0041		
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	0.052	5	0.052	0.0304		
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017
Ca-D	mg/L	18.8	21.3	21.6	21.0	21.6	5	21.6	20.9		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Cu-D	mg/L	0.00030	0.00032	0.00032	0.00029	0.00025	5	0.00032	0.00030	*	*
Hard-D	mg/L	56.4	64.4	65.0	63.1	65.1	5	65.1	62.8		
Fe-D	mg/L	0.0446	0.0435	0.0401	0.0368	0.0312	5	0.0446	0.0392		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Mg-D	mg/L	2.31	2.73	2.68	2.57	2.73	5	2.73	2.60		
Mn-D	mg/L	0.0110	0.0134	0.0109	0.0076	0.0047	5	0.0134	0.0095		
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
K-D	mg/L	0.217	0.267	0.262	0.247	0.270	5	0.270	0.253		
S-D	mg/L	14.2	17.0	17.3	16.8	17.8	5	17.8	16.6		
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050		
Na-D	mg/L	5.84	7.17	7.11	6.87	7.34	5	7.34	6.87		
Sr-D	mg/L	0.124	0.153	0.148	0.149	0.154	5	0.154	0.146		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		
N-NO2	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.02	0.06
N-NO3	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	5	<0.020	0.0100	3	32.8
N-NO23	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	5	<0.020	0.0100		
P-T	mg/L	<0.0030	<0.0030	0.0032	<0.0030	<0.0030	5	0.0032	0.00184		
P-D	mg/L				<0.010	<0.010	2	<0.010	0.0050		
DOC	mg/L	2.3	2.3	2.0	2.3	2.5	5	2.5	2.3		

Notes: *Copper is a variable guideline. See Exceedance Table.
Factor applied to less-than results when calculating statistics: 0.5

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Table 46 Spring Lakes 17 Page(s)

EMS ID	E206619							Water Quality Guidelines			
StnName	Long Lake Middle 9 M										
StnCode	LLM9										
Date	Unit	7-Apr-21	14-Apr-21	20-Apr-21	27-Apr-21	4-May-21	Count	Maximum	5 in 30 Ave	Average	Max
SO4-D	mg/L	94	99	97	97	99	5	99	97.2	128	
Turb	NTU	0.53	0.42	0.56	0.46	0.28	5	0.56	0.45		
Alk-T	mg/L	40	41	42	40	42	5	42	41.0		
Al-T	mg/L	0.0250	0.0249	0.0241	0.0224	0.0195	5	0.0250	0.0232		
As-T	mg/L	0.00028	0.00028	0.00027	0.00029	0.00027	5	0.00029	0.00028		0.005
Ba-T	mg/L	0.0056	0.0052	0.0053	0.0054	0.0053	5	0.0056	0.0054	1	
B-T	mg/L	0.084	0.082	0.087	0.086	0.087	5	0.087	0.085	1.2	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050		
Ca-T	mg/L	37.5	35.8	35.7	36.3	34.3	5	37.5	35.9		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0016	5	0.0016	0.00072		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	5	<0.00050	0.000250		
Hard-T	mg/L	111	105	106	108	102	5	111	106.4		
Fe-T	mg/L	0.082	0.077	0.071	0.064	0.059	5	0.082	0.071		1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763
Mg-T	mg/L	4.14	3.89	4.06	4.21	4.01	5	4.21	4.06		
Mn-T	mg/L	0.0963	0.0666	0.104	0.0885	0.0875	5	0.104	0.0886	0.737	0.8706
Hg-T	mg/L	0.0000020	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	0.0000020	0.00000116	0.00002	
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0018	5	0.0018	0.00076	1	2
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0067	5	0.0067	0.00174	0.025	
K-T	mg/L	0.433	0.435	0.432	0.446	0.439	5	0.446	0.437		
S-T	mg/L	32.2	30.2	32.4	32.4	30.9	5	32.4	31.6		
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001
Na-T	mg/L	13.1	12.2	13.1	12.9	12.6	5	13.1	12.8		
Sr-T	mg/L	0.287	0.262	0.276	0.283	0.267	5	0.287	0.275		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033
Al-D	mg/L	0.0182	0.0167	0.0152	0.0154	0.0134	5	0.0182	0.0158	0.05	0.1
As-D	mg/L	0.00023	0.00026	0.00024	0.00025	0.00023	5	0.00026	0.00024		
Ba-D	mg/L	0.0052	0.0054	0.0051	0.0053	0.0052	5	0.0054	0.0052		
B-D	mg/L	0.083	0.071	0.088	0.079	0.085	5	0.088	0.081		
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017
Ca-D	mg/L	37.3	32.9	36.7	36.1	34.2	5	37.3	35.4		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Cu-D	mg/L	0.00033	0.00033	0.00035	0.00030	0.00026	5	0.00035	0.00031	*	*
Hard-D	mg/L	110	97.6	109	106	102	5	110	104.9		
Fe-D	mg/L	0.0388	0.0361	0.0323	0.0311	0.0271	5	0.0388	0.0331		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Mg-D	mg/L	4.19	3.77	4.22	3.94	3.99	5	4.22	4.02		
Mn-D	mg/L	0.0715	0.0452	0.0805	0.0609	0.0619	5	0.0805	0.0640		
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
K-D	mg/L	0.438	0.423	0.476	0.419	0.436	5	0.476	0.438		
S-D	mg/L	31.7	28.0	32.7	30.0	30.6	5	32.7	30.6		
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050		
Na-D	mg/L	13.2	11.5	13.5	12.5	12.5	5	13.5	12.6		
Sr-D	mg/L	0.289	0.254	0.273	0.272	0.267	5	0.289	0.271		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		
N-NO2	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.02	0.06
N-NO3	mg/L	0.046	0.051	0.046	0.044	0.047	5	0.051	0.047	3	32.8
N-NO23	mg/L	0.046	0.051	0.046	0.044	0.047	5	0.051	0.047		
P-T	mg/L	<0.0030	<0.0030	<0.0030	0.0031	<0.0030	5	0.0031	0.00182		
P-D	mg/L				<0.010	<0.010	2	<0.010	0.0050		
DOC	mg/L	2.3	2.3	2.2	2.4	2.3	5	2.4	2.3		

Notes: *Copper is a variable guideline. See Exceedance Table.

Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 46 Spring Lakes 17 Page(s)

EMS ID	E206619							Water Quality Guidelines			
StnName	Long Lake Middle 1 Metre From Bottom										
StnCode	LLM 1MB										
Date	Unit	7-Apr-21	14-Apr-21	20-Apr-21	27-Apr-21	4-May-21	Count	Maximum	5 in 30 Ave	Average	Max
SO4-D	mg/L	100	110	98	100	100	5	110	101.6	128	
Turb	NTU	0.89	0.71	0.80	0.61	0.41	5	0.89	0.68		
Alk-T	mg/L	43	45	44	41	43	5	45	43.2		
Al-T	mg/L	0.0193	0.0231	0.0194	0.0200	0.0180	5	0.0231	0.0200		
As-T	mg/L	0.00030	0.00028	0.00028	0.00031	0.00027	5	0.00031	0.00029		0.005
Ba-T	mg/L	0.0060	0.0059	0.0054	0.0058	0.0058	5	0.0060	0.0058	1	
B-T	mg/L	0.091	0.090	0.090	0.097	0.094	5	0.097	0.092	1.2	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050		
Ca-T	mg/L	39.0	38.2	36.8	38.7	36.2	5	39.0	37.8		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	5	<0.00050	0.000250		
Hard-T	mg/L	116	113	109	114	108	5	116	112.0		
Fe-T	mg/L	0.073	0.080	0.074	0.073	0.066	5	0.080	0.073		1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763
Mg-T	mg/L	4.49	4.29	4.24	4.31	4.21	5	4.49	4.31		
Mn-T	mg/L	0.193	0.141	0.148	0.128	0.123	5	0.193	0.147	0.737	0.8706
Hg-T	mg/L	0.0000020	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	0.0000020	0.00000116	0.00002	
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	5	0.0010	0.00060	1	2
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0037	5	0.0037	0.00114	0.025	
K-T	mg/L	0.457	0.477	0.451	0.458	0.463	5	0.477	0.461		
S-T	mg/L	34.3	33.1	33.9	33.8	32.9	5	34.3	33.6		
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001
Na-T	mg/L	14.2	13.5	14.0	13.6	13.5	5	14.2	13.8		
Sr-T	mg/L	0.305	0.289	0.281	0.292	0.282	5	0.305	0.290		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033
Al-D	mg/L	0.0119	0.0130	0.0122	0.0130	0.0103	5	0.0130	0.0121	0.05	0.1
As-D	mg/L	0.00021	0.00025	0.00022	0.00023	0.00021	5	0.00025	0.00022		
Ba-D	mg/L	0.0049	0.0053	0.0051	0.0054	0.0054	5	0.0054	0.0052		
B-D	mg/L	0.092	0.082	0.091	0.082	0.091	5	0.092	0.088		
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017
Ca-D	mg/L	39.1	37.8	38.1	37.6	35.6	5	39.1	37.6		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Cu-D	mg/L	0.00028	0.00029	0.00031	0.00030	0.00024	5	0.00031	0.00028	*	*
Hard-D	mg/L	116	112	113	111	106	5	116	111.6		
Fe-D	mg/L	0.0253	0.0276	0.0253	0.0255	0.0211	5	0.0276	0.0250		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Mg-D	mg/L	4.42	4.24	4.36	4.24	4.05	5	4.42	4.26		
Mn-D	mg/L	0.100	0.0927	0.0890	0.0801	0.0740	5	0.100	0.0872		
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
K-D	mg/L	0.462	0.488	0.490	0.442	0.449	5	0.490	0.466		
S-D	mg/L	34.4	32.6	34.5	32.2	32.8	5	34.5	33.3		
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050		
Na-D	mg/L	13.9	13.5	14.1	13.5	12.9	5	14.1	13.6		
Sr-D	mg/L	0.303	0.284	0.277	0.284	0.279	5	0.303	0.285		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		
N-NO2	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.02	0.06
N-NO3	mg/L	0.064	0.083	0.057	0.058	0.060	5	0.083	0.064	3	32.8
N-NO23	mg/L	0.064	0.083	0.057	0.058	0.060	5	0.083	0.064		
P-T	mg/L	<0.0030	<0.0030	<0.0030	0.0044	<0.0030	5	0.0044	0.00208		
P-D	mg/L				<0.010	<0.010	2	<0.010	0.0050		
DOC	mg/L	2.2	3.1	2.4	2.4	2.4	5	3.1	2.5		

Notes: *Copper is a variable guideline. See Exceedance Table.

Factor applied to less-than results when calculating statistics: 0.5

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Table 46 Spring Lakes 17 Page(s)

EMS ID	E206618	Water Quality Guidelines									
StnName	Middle Quinsam Lake 1M										
StnCode	MLL1										
Date	Unit	7-Apr-21	14-Apr-21	20-Apr-21	27-Apr-21	4-May-21	Count	Maximum	5 in 30 Ave	Average	Max
SO4-D	mg/L	28	28	34	43	48	5	48	36.2	128	
Turb	NTU	0.20	0.18	0.16	0.15	0.15	5	0.20	0.17		
Alk-T	mg/L	28	33	36	39	38	5	39	34.8		
Al-T	mg/L	0.0166	0.0151	0.0140	0.0154	0.0137	5	0.0166	0.0150		
As-T	mg/L	0.00010	0.00010	0.00011	0.00013	0.00012	5	0.00013	0.00011		0.005
Ba-T	mg/L	0.0015	0.0015	0.0018	0.0020	0.0018	5	0.0020	0.0017	1	
B-T	mg/L	<0.050	<0.050	<0.050	0.057	0.057	5	0.057	0.0378	1.2	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050		
Ca-T	mg/L	11.5	11.9	13.5	14.3	14.0	5	14.3	13.0		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11
Cu-T	mg/L	0.00058	0.00051	<0.00050	0.00053	<0.00050	5	0.00058	0.000424		
Hard-T	mg/L	34.9	35.8	40.6	43.3	42.0	5	43.3	39.3		
Fe-T	mg/L	0.029	0.030	0.027	0.030	0.030	5	0.030	0.029		1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763
Mg-T	mg/L	1.51	1.48	1.70	1.84	1.69	5	1.84	1.64		
Mn-T	mg/L	0.0046	0.0045	0.0050	0.0065	0.0058	5	0.0065	0.0053	0.737	0.8706
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095	0.00002	
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1	2
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025	
K-T	mg/L	0.157	0.175	0.238	0.284	0.269	5	0.284	0.225		
S-T	mg/L	8.3	8.7	13.1	15.7	14.7	5	15.7	12.1		
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001
Na-T	mg/L	9.73	10.8	16.3	18.8	18.1	5	18.8	14.75		
Sr-T	mg/L	0.0505	0.0535	0.0734	0.0921	0.0907	5	0.0921	0.0720		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033
Al-D	mg/L	0.0151	0.0120	0.0125	0.0113	0.0105	5	0.0151	0.0123	0.05	0.1
As-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	0.00011	5	0.00011	0.000062		
Ba-D	mg/L	0.0015	0.0015	0.0018	0.0018	0.0019	5	0.0019	0.0017		
B-D	mg/L	<0.050	<0.050	<0.050	0.053	0.055	5	0.055	0.0366		
Cd-D	mg/L	<0.000010	<0.000010	0.000065	<0.000010	<0.000010	5	0.000065	0.0000170	0.000087	0.00017
Ca-D	mg/L	11.5	11.6	13.6	14.2	13.3	5	14.2	12.8		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Cu-D	mg/L	0.00050	0.00047	0.00047	0.00048	0.00041	5	0.00050	0.00047	*	*
Hard-D	mg/L	34.9	35.2	41.0	42.3	40.2	5	42.3	38.7		
Fe-D	mg/L	0.0206	0.0191	0.0190	0.0198	0.0191	5	0.0206	0.0195		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Mg-D	mg/L	1.51	1.50	1.71	1.68	1.67	5	1.71	1.61		
Mn-D	mg/L	0.0026	0.0025	0.0038	0.0049	0.0049	5	0.0049	0.0037		
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
K-D	mg/L	0.151	0.173	0.238	0.279	0.272	5	0.279	0.223		
S-D	mg/L	8.2	8.6	13.0	14.8	14.4	5	14.8	11.8		
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050		
Na-D	mg/L	9.47	10.5	16.3	17.9	18.0	5	18.0	14.43		
Sr-D	mg/L	0.0519	0.0522	0.0755	0.0868	0.0898	5	0.0898	0.0712		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		
N-NO2	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.02	0.06
N-NO3	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	5	<0.020	0.0100	3	32.8
N-NO23	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	5	<0.020	0.0100		
P-T	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	5	<0.0030	0.00150		
P-D	mg/L	<0.010			<0.010		2	<0.010	0.0050		
DOC	mg/L	0.59	1.8	1.8	1.6	1.6	5	1.8	1.48		
Chl-a	ug/L					<0.50	1	<0.50	0.250		

Notes: *Copper is a variable guideline. See Exceedance Table.

Factor applied to less-than results when calculating statistics: 0.5

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Table 46 Spring Lakes 17 Page(s)

EMS ID	E206618							Water Quality Guidelines			
StnName	Middle Quinsam Lake 4M										
StnCode	MQL4										
Date	Unit	7-Apr-21	14-Apr-21	20-Apr-21	27-Apr-21	4-May-21	Count	Maximum	5 in 30 Ave	Average	Max
SO4-D	mg/L	27	28	33	44	48	5	48	36.0	128	
Turb	NTU	0.20	0.15	0.19	0.18	0.15	5	0.20	0.17		
Alk-T	mg/L	28	32	35	39	39	5	39	34.6		
Al-T	mg/L	0.0169	0.0155	0.0147	0.0147	0.0139	5	0.0169	0.0151		
As-T	mg/L	0.00011	<0.00010	0.00011	0.00011	0.00013	5	0.00013	0.000102		0.005
Ba-T	mg/L	0.0015	0.0015	0.0015	0.0019	0.0019	5	0.0019	0.0017	1	
B-T	mg/L	<0.050	<0.050	<0.050	0.054	0.058	5	0.058	0.0374	1.2	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050		
Ca-T	mg/L	11.2	12.1	12.2	14.9	14.4	5	14.9	13.0		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11
Cu-T	mg/L	0.00055	0.00050	<0.00050	<0.00050	0.00055	5	0.00055	0.000420		
Hard-T	mg/L	34.1	36.4	36.6	44.4	43.4	5	44.4	39.0		
Fe-T	mg/L	0.029	0.031	0.025	0.031	0.322	5	0.322	0.088		1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763
Mg-T	mg/L	1.46	1.52	1.52	1.74	1.78	5	1.78	1.60		
Mn-T	mg/L	0.0046	0.0046	0.0041	0.0054	0.0076	5	0.0076	0.0053	0.737	0.8706
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095	0.00002	
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1	2
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025	
K-T	mg/L	0.155	0.182	0.196	0.261	0.284	5	0.284	0.216		
S-T	mg/L	8.9	8.6	10.8	14.3	15.1	5	15.1	11.5		
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001
Na-T	mg/L	9.52	11.1	13.4	17.5	18.9	5	18.9	14.08		
Sr-T	mg/L	0.0501	0.0561	0.0632	0.0859	0.0941	5	0.0941	0.0699		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033
Al-D	mg/L	0.0128	0.0120	0.0109	0.0118	0.0106	5	0.0128	0.0116	0.05	0.1
As-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	0.00013	5	0.00013	0.000066		
Ba-D	mg/L	0.0015	0.0014	0.0015	0.0018	0.0019	5	0.0019	0.0016		
B-D	mg/L	<0.050	<0.050	<0.050	0.052	0.057	5	0.057	0.0368		
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017
Ca-D	mg/L	11.5	11.3	12.5	14.0	14.0	5	14.0	12.7		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Cu-D	mg/L	0.00048	0.00046	0.00044	0.00048	0.00042	5	0.00048	0.00046	*	*
Hard-D	mg/L	35.2	34.1	37.8	41.7	42.2	5	42.2	38.2		
Fe-D	mg/L	0.0175	0.0189	0.0164	0.0186	0.0200	5	0.0200	0.0183		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Mg-D	mg/L	1.54	1.43	1.60	1.65	1.75	5	1.75	1.59		
Mn-D	mg/L	0.0026	0.0021	0.0016	0.0035	0.0051	5	0.0051	0.0030		
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
K-D	mg/L	0.156	0.172	0.205	0.257	0.278	5	0.278	0.214		
S-D	mg/L	8.5	9.1	11.5	14.0	15.5	5	15.5	11.7		
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050		
Na-D	mg/L	9.62	10.6	14.0	17.0	18.4	5	18.4	13.92		
Sr-D	mg/L	0.0522	0.0520	0.0663	0.0836	0.0922	5	0.0922	0.0693		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		
N-NO2	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.02	0.06
N-NO3	mg/L	<0.020	<0.020	<0.020	<0.020	0.026	5	0.026	0.0132	3	32.8
N-NO23	mg/L	<0.020	<0.020	<0.020	<0.020	0.026	5	0.026	0.0132		
P-T	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	5	<0.0030	0.00150		
P-D	mg/L	<0.010			<0.010		2	<0.010	0.0050		
DOC	mg/L	1.7	1.7	1.6	1.7	1.7	5	1.7	1.7		

Notes: *Copper is a variable guideline. See Exceedance Table.

Factor applied to less-than results when calculating statistics: 0.5

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Table 46 Spring Lakes 17 Page(s)

EMS ID	E206618							Water Quality Guidelines			
StnName	Middle Quinsam Lake 9M										
StnCode	MQL9										
Date	Unit	7-Apr-21	14-Apr-21	20-Apr-21	27-Apr-21	4-May-21	Count	Maximum	5 in 30 Ave	Average	Max
SO4-D	mg/L	28	28	28	28	28	5	28	28.0	128	
Turb	NTU	0.20	0.19	0.42	0.20	0.20	5	0.42	0.24		
Alk-T	mg/L	28	32	32	31	31	5	32	30.8		
Al-T	mg/L	0.0178	0.0150	0.0135	0.0142	0.0119	5	0.0178	0.0145		
As-T	mg/L	0.00010	<0.00010	0.00010	0.00012	0.00012	5	0.00012	0.000098		0.005
Ba-T	mg/L	0.0016	0.0015	0.0015	0.0015	0.0014	5	0.0016	0.0015	1	
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050		
Ca-T	mg/L	12.0	11.7	11.5	11.4	10.8	5	12.0	11.5		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11
Cu-T	mg/L	0.00052	<0.00050	0.00054	0.00051	<0.00050	5	0.00054	0.000414		
Hard-T	mg/L	36.6	35.4	34.6	34.6	32.8	5	36.6	34.8		
Fe-T	mg/L	0.031	0.030	0.025	0.024	0.019	5	0.031	0.026		1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763
Mg-T	mg/L	1.60	1.49	1.45	1.51	1.42	5	1.60	1.49		
Mn-T	mg/L	0.0053	0.0044	0.0034	0.0031	0.0023	5	0.0053	0.0037	0.737	0.8706
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095	0.00002	
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1	2
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025	
K-T	mg/L	0.167	0.172	0.169	0.175	0.165	5	0.175	0.170		
S-T	mg/L	9.7	8.8	9.7	9.3	8.3	5	9.7	9.2		
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001
Na-T	mg/L	10.1	10.5	11.2	11.0	10.3	5	11.2	10.6		
Sr-T	mg/L	0.0535	0.0536	0.0534	0.0581	0.0547	5	0.0581	0.0547		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033
Al-D	mg/L	0.0118	0.0113	0.0108	0.0108	0.0094	5	0.0118	0.0108	0.05	0.1
As-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	5	0.00010	0.000060		
Ba-D	mg/L	0.0015	0.0014	0.0014	0.0014	0.0014	5	0.0015	0.0014		
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250		
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017
Ca-D	mg/L	11.7	11.5	11.4	11.4	10.7	5	11.7	11.3		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Cu-D	mg/L	0.00047	0.00043	0.00043	0.00048	0.00040	5	0.00048	0.00044	*	*
Hard-D	mg/L	35.7	34.6	34.6	34.2	32.8	5	35.7	34.4		
Fe-D	mg/L	0.0157	0.0169	0.0140	0.0134	0.0105	5	0.0169	0.0141		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Mg-D	mg/L	1.55	1.43	1.46	1.40	1.45	5	1.55	1.46		
Mn-D	mg/L	0.0014	0.0012	<0.0010	<0.0010	<0.0010	5	0.0014	0.00082		
Hg-D	mg/L	0.0000023	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	0.0000023	0.00000122		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
K-D	mg/L	0.152	0.174	0.169	0.181	0.172	5	0.181	0.170		
S-D	mg/L	9.3	9.0	8.9	9.9	9.0	5	9.9	9.2		
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050		
Na-D	mg/L	9.48	10.2	11.0	10.5	10.5	5	11.0	10.34		
Sr-D	mg/L	0.0528	0.0522	0.0543	0.0557	0.0557	5	0.0557	0.0541		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		
N-NO2	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.02	0.06
N-NO3	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	5	<0.020	0.0100	3	32.8
N-NO23	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	5	<0.020	0.0100		
P-T	mg/L	<0.0030	<0.0030	<0.0030	0.0085	<0.0030	5	0.0085	0.00290		
P-D	mg/L	<0.010			<0.010		2	<0.010	0.0050		
DOC	mg/L	1.8	1.6	1.5	1.7	1.7	5	1.8	1.7		

Notes: *Copper is a variable guideline. See Exceedance Table.

Factor applied to less-than results when calculating statistics: 0.5

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Table 46 Spring Lakes 17 Page(s)

EMS ID	E206618	Water Quality Guidelines									
StnName	Middle Quinsam Lake 1 Metre from Bottom										
StnCode	MQL 1MB										
Date	Unit	7-Apr-21	14-Apr-21	20-Apr-21	27-Apr-21	4-May-21	Count	Maximum	5 in 30 Ave	Average	Max
SO4-D	mg/L	28	28	28	28	28	5	28	28.0	128	
Turb	NTU	0.18	0.20	0.24	0.30	0.12	5	0.30	0.21		
Alk-T	mg/L	28	30	31	39	33	5	39	32.2		
Al-T	mg/L	0.0167	0.0147	0.0143	0.0137	0.0126	5	0.0167	0.0144		
As-T	mg/L	0.00011	0.00010	0.00011	<0.00010	0.00011	5	0.00011	0.000096		0.005
Ba-T	mg/L	0.0016	0.0016	0.0015	0.0016	0.0016	5	0.0016	0.0016	1	
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050		
Ca-T	mg/L	11.7	11.7	11.3	11.7	11.1	5	11.7	11.5		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11
Cu-T	mg/L	0.00051	0.00054	<0.00050	<0.00050	0.00052	5	0.00054	0.000414		
Hard-T	mg/L	35.4	35.3	34.2	35.3	33.7	5	35.4	34.8		
Fe-T	mg/L	0.030	0.029	0.025	0.025	0.021	5	0.030	0.026		1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763
Mg-T	mg/L	1.50	1.47	1.46	1.51	1.47	5	1.51	1.48		
Mn-T	mg/L	0.0050	0.0044	0.0037	0.0029	0.0025	5	0.0050	0.0037	0.737	0.8706
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095	0.00002	
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1	2
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025	
K-T	mg/L	0.157	0.162	0.158	0.159	0.169	5	0.169	0.161		
S-T	mg/L	9.3	8.3	9.3	9.2	8.8	5	9.3	9.0		
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001
Na-T	mg/L	9.52	9.49	10.3	9.99	10.3	5	10.3	9.92		
Sr-T	mg/L	0.0534	0.0524	0.0515	0.0552	0.0549	5	0.0552	0.0535		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033
Al-D	mg/L	0.0117	0.0110	0.0106	0.0093	0.0081	5	0.0117	0.0101	0.05	0.1
As-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	5	0.00010	0.000060		
Ba-D	mg/L	0.0015	0.0015	0.0015	0.0015	0.0015	5	0.0015	0.0015		
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250		
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017
Ca-D	mg/L	11.4	11.2	11.5	11.2	11.0	5	11.5	11.3		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Cu-D	mg/L	0.00044	0.00043	0.00043	0.00044	0.00040	5	0.00044	0.00043	*	*
Hard-D	mg/L	34.8	33.9	34.8	33.5	33.5	5	34.8	34.1		
Fe-D	mg/L	0.0150	0.0151	0.0132	0.0113	0.0103	5	0.0151	0.0130		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Mg-D	mg/L	1.53	1.47	1.47	1.36	1.44	5	1.53	1.45		
Mn-D	mg/L	0.0012	<0.0010	<0.0010	<0.0010	<0.0010	5	0.0012	0.00064		
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
K-D	mg/L	0.149	0.162	0.164	0.162	0.168	5	0.168	0.161		
S-D	mg/L	8.9	8.5	9.0	8.5	8.5	5	9.0	8.7		
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050		
Na-D	mg/L	9.46	9.23	10.4	9.49	10.0	5	10.4	9.72		
Sr-D	mg/L	0.0525	0.0508	0.0539	0.0527	0.0542	5	0.0542	0.0528		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		
N-NO2	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.02	0.06
N-NO3	mg/L	0.025	<0.020	<0.020	<0.020	<0.020	5	0.025	0.0130	3	32.8
N-NO23	mg/L	0.025	<0.020	<0.020	<0.020	<0.020	5	0.025	0.0130		
P-T	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	5	<0.0030	0.00150		
P-D	mg/L	<0.010			<0.010		2	<0.010	0.0050		
DOC	mg/L	1.8	1.8	1.5	1.8	1.7	5	1.8	1.7		

Notes: *Copper is a variable guideline. See Exceedance Table.
Factor applied to less-than results when calculating statistics: 0.5

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Table 46 Spring Lakes 17 Page(s)

EMS ID		LLE Zone of Dilution 2							Water Quality Guidelines		
StnName		LLE22									
StnCode	Unit	7-Apr-21	14-Apr-21	20-Apr-21	27-Apr-21	4-May-21	Count	Maximum	5 in 30 Ave	Average	Max
SO4-D	mg/L	46	43	46	44	42	5	46	44.2	128	
Turb	NTU	0.48	0.33	0.39	0.26	0.24	5	0.48	0.34		
Alk-T	mg/L	25	26	26	26	27	5	27	26.0		
Al-T	mg/L	0.0302	0.0288	0.0245	0.0228	0.0189	5	0.0302	0.0250		
As-T	mg/L	0.00031	0.00030	0.00029	0.00032	0.00032	5	0.00032	0.00031		0.005
Ba-T	mg/L	0.0039	0.0038	0.0037	0.0040	0.0039	5	0.0040	0.0039	1	
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050		
Ca-T	mg/L	18.5	18.9	17.2	18.8	17.4	5	18.9	18.2		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	5	<0.00050	0.000250		
Hard-T	mg/L	56.3	57.4	52.1	56.9	53.2	5	57.4	55.2		
Fe-T	mg/L	0.076	0.071	0.062	0.053	0.050	5	0.076	0.062		1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763
Mg-T	mg/L	2.43	2.48	2.24	2.44	2.38	5	2.48	2.39		
Mn-T	mg/L	0.0143	0.0141	0.0124	0.0114	0.0099	5	0.0143	0.0124	0.737	0.8706
Hg-T	mg/L	0.0000024	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	0.0000024	0.00000124	0.00002	
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1	2
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0020	5	0.0020	0.00080	0.025	
K-T	mg/L	0.220	0.242	0.211	0.228	0.232	5	0.242	0.227		
S-T	mg/L	14.1	14.5	13.9	14.7	13.9	5	14.7	14.2		
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001
Na-T	mg/L	6.06	6.16	5.70	6.08	5.92	5	6.16	5.98		
Sr-T	mg/L	0.130	0.130	0.119	0.126	0.123	5	0.130	0.126		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033
Al-D	mg/L	0.0243	0.0197	0.0196	0.0163	0.0131	5	0.0243	0.0186	0.05	0.1
As-D	mg/L	0.00025	0.00028	0.00027	0.00030	0.00030	5	0.00030	0.00028		
Ba-D	mg/L	0.0039	0.0037	0.0037	0.0038	0.0038	5	0.0039	0.0038		
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250		
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017
Ca-D	mg/L	18.6	17.8	17.5	18.0	17.9	5	18.6	18.0		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Cu-D	mg/L	0.00032	0.00030	0.00031	0.00031	0.00024	5	0.00032	0.00030	*	*
Hard-D	mg/L	56.3	53.9	53.5	54.6	54.3	5	56.3	54.5		
Fe-D	mg/L	0.0452	0.0444	0.0400	0.0355	0.0353	5	0.0452	0.0401		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Mg-D	mg/L	2.39	2.29	2.37	2.35	2.35	5	2.39	2.35		
Mn-D	mg/L	0.0113	0.0098	0.0082	0.0073	0.0063	5	0.0113	0.0086		
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	0.0000030	5	0.0000030	0.00000136		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
K-D	mg/L	0.229	0.219	0.222	0.220	0.228	5	0.229	0.224		
S-D	mg/L	14.3	13.3	14.2	13.7	14.3	5	14.3	14.0		
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050		
Na-D	mg/L	5.94	5.84	5.96	5.86	5.78	5	5.96	5.88		
Sr-D	mg/L	0.124	0.121	0.113	0.126	0.125	5	0.126	0.122		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		
N-NO2	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.02	0.06
N-NO3	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	5	<0.020	0.0100	3	32.8
N-NO23	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	5	<0.020	0.0100		
P-T	mg/L	<0.0030	<0.0030	<0.0030	0.0032	<0.0030	5	0.0032	0.00184		
P-D	mg/L				<0.010	<0.010	2	<0.010	0.0050		
DOC	mg/L	1.7	2.3	2.3	2.4	2.4	5	2.4	2.2		

Notes: *Copper is a variable guideline. See Exceedance Table.
Factor applied to less-than results when calculating statistics: 0.5

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Table 46 Spring Lakes 17 Page(s)

EMS ID	E292118	Water Quality Guidelines									
StnName	Lower Quinsam Lake 1M										
StnCode	LQL1										
Date	Unit	7-Apr-21	14-Apr-21	20-Apr-21	28-Apr-21	4-May-21	Count	Maximum	5 in 30 Ave	Average	Max
SO4-D	mg/L	22	23	21	23	25	5	25	22.8	128	
Turb	NTU	0.37	0.28	0.38	0.34	0.30	5	0.38	0.33		
Alk-T	mg/L	29	32	32	33	33	5	33	31.8		
Al-T	mg/L	0.0320	0.0256	0.0310	0.0323	0.0340	5	0.0340	0.0310		
As-T	mg/L	0.00078	0.00082	0.00076	0.00074	0.00076	5	0.00082	0.00077		0.005
Ba-T	mg/L	0.0039	0.0039	0.0037	0.0038	0.0038	5	0.0039	0.0038	1	
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050		
Ca-T	mg/L	11.1	11.5	11.4	11.7	11.7	5	11.7	11.5		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11
Cu-T	mg/L	0.00052	<0.00050	0.00051	0.00056	0.00053	5	0.00056	0.000474		
Hard-T	mg/L	33.7	34.9	34.2	34.9	35.3	5	35.3	34.6		
Fe-T	mg/L	0.090	0.087	0.071	0.068	0.072	5	0.090	0.078		1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763
Mg-T	mg/L	1.46	1.51	1.38	1.37	1.45	5	1.51	1.43		
Mn-T	mg/L	0.0058	0.0058	0.0045	0.0043	0.0044	5	0.0058	0.0050	0.737	0.8706
Hg-T	mg/L	0.0000020	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	0.0000020	0.00000116	0.00002	
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1	2
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025	
K-T	mg/L	0.202	0.220	0.203	0.218	0.237	5	0.237	0.216		
S-T	mg/L	7.0	7.3	7.4	7.3	8.0	5	8.0	7.4		
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	5	0.00010	0.000060	0.002	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001
Na-T	mg/L	8.35	8.78	8.43	9.20	10.5	5	10.5	9.05		
Sr-T	mg/L	0.0548	0.0580	0.0544	0.0592	0.0660	5	0.0660	0.0585		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033
Al-D	mg/L	0.0198	0.0171	0.0244	0.0247	0.0235	5	0.0247	0.0219	0.05	0.1
As-D	mg/L	0.00071	0.00073	0.00073	0.00074	0.00066	5	0.00074	0.00071		
Ba-D	mg/L	0.0037	0.0037	0.0037	0.0036	0.0036	5	0.0037	0.0037		
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250		
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017
Ca-D	mg/L	11.1	10.9	11.8	11.8	11.8	5	11.8	11.5		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Cu-D	mg/L	0.00046	0.00041	0.00054	0.00053	0.00046	5	0.00054	0.00048	*	*
Hard-D	mg/L	33.9	33.2	35.1	34.9	35.3	5	35.3	34.5		
Fe-D	mg/L	0.0583	0.0529	0.0474	0.0458	0.0501	5	0.0583	0.0509		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Mg-D	mg/L	1.51	1.46	1.39	1.35	1.39	5	1.51	1.42		
Mn-D	mg/L	0.0029	0.0022	0.0023	0.0016	0.0022	5	0.0029	0.0022		
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
K-D	mg/L	0.201	0.209	0.209	0.207	0.231	5	0.231	0.211		
S-D	mg/L	6.8	6.9	6.9	7.9	8.0	5	8.0	7.3		
Se-D	mg/L	<0.00010	<0.00010	<0.00010	0.00011	<0.00010	5	0.00011	0.000062		
Na-D	mg/L	8.28	8.32	8.56	9.11	10.1	5	10.1	8.87		
Sr-D	mg/L	0.0555	0.0551	0.0574	0.0591	0.0654	5	0.0654	0.0585		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		
N-NO2	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.02	0.06
N-NO3	mg/L	0.031	<0.020	<0.020	<0.020	<0.020	5	0.031	0.0142	3	32.8
N-NO23	mg/L	0.031	<0.020	<0.020	<0.020	<0.020	5	0.031	0.0142		
P-T	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	5	<0.0030	0.00150		
P-D	mg/L				<0.010		1	<0.010	0.0050		
DOC	mg/L	1.9	2.2	2.4	2.2	2.4	5	2.4	2.2		
Chlr-a	ug/L					0.86	1	0.86	0.86		

Notes: *Copper is a variable guideline. See Exceedance Table.

Factor applied to less-than results when calculating statistics: 0.5

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Table 46 Spring Lakes 17 Page(s)

EMS ID		E292118								
StnName		Lower Quinsam Lake 4M								
StnCode		LQL4								
Date		7-Apr-21	14-Apr-21	20-Apr-21	28-Apr-21	4-May-21	Count	Maximum	5 in 30 Ave	
Parameter	Unit									
SO4-D	mg/L	22	22	21	24	25	5	25	22.8	Average 128
Turb	NTU	0.37	0.28	0.56	0.32	0.35	5	0.56	0.38	2.5 8.5
Alk-T	mg/L	29	31	33	34	33	5	34	32.0	
Al-T	mg/L	0.0307	0.0255	0.0349	0.0406	0.0334	5	0.0406	0.0330	
As-T	mg/L	0.00080	0.00080	0.00081	0.00078	0.00070	5	0.00081	0.00078	0.005
Ba-T	mg/L	0.0040	0.0038	0.0038	0.0039	0.0037	5	0.0040	0.0038	1.00
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	
Ca-T	mg/L	10.8	11.5	11.2	12.0	11.3	5	12.0	11.4	
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004 0.11
Cu-T	mg/L	0.00053	<0.00050	0.00053	0.00059	0.00052	5	0.00059	0.000484	
Hard-T	mg/L	33.1	34.9	33.8	35.5	33.8	5	35.5	34.2	
Fe-T	mg/L	0.091	0.084	0.079	0.071	0.068	5	0.091	0.079	1.0
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978 0.01763
Mg-T	mg/L	1.50	1.51	1.42	1.38	1.37	5	1.51	1.44	
Mn-T	mg/L	0.0059	0.0053	0.0047	0.0045	0.0041	5	0.0059	0.0049	0.737 0.8706
Hg-T	mg/L	0.0000020	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	0.0000020	0.00000116	0.00002
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1.0 2.0
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025
K-T	mg/L	0.212	0.216	0.211	0.226	0.231	5	0.231	0.219	
S-T	mg/L	7.4	7.0	7.6	7.6	8.4	5	8.4	7.6	
Se-T	mg/L	<0.00010	<0.00010	0.00011	<0.00010	<0.00010	5	0.00011	0.000062	0.002
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005 0.0001
Na-T	mg/L	8.74	8.59	8.73	9.59	10.1	5	10.1	9.15	
Sr-T	mg/L	0.0544	0.0563	0.0547	0.0616	0.0629	5	0.0629	0.0580	
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075 0.033
Al-D	mg/L	0.0207	0.0177	0.0250	0.0270	0.0244	5	0.0270	0.0230	0.05 0.1
As-D	mg/L	0.00068	0.00071	0.00074	0.00071	0.00066	5	0.00074	0.00070	
Ba-D	mg/L	0.0037	0.0039	0.0037	0.0037	0.0037	5	0.0039	0.0037	
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087 0.00017
Ca-D	mg/L	10.7	10.8	11.7	11.6	10.8	5	11.7	11.1	
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	
Cu-D	mg/L	0.00046	0.00043	0.00055	0.00052	0.00047	5	0.00055	0.00049	* *
Hard-D	mg/L	33.0	32.8	35.1	34.7	32.5	5	35.1	33.6	
Fe-D	mg/L	0.0557	0.0518	0.0459	0.0433	0.0430	5	0.0557	0.0479	0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	
Mg-D	mg/L	1.51	1.39	1.40	1.39	1.35	5	1.51	1.41	
Mn-D	mg/L	0.0029	0.0024	0.0014	0.0014	0.0013	5	0.0029	0.0019	
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095	
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	
K-D	mg/L	0.199	0.208	0.210	0.215	0.231	5	0.231	0.213	
S-D	mg/L	7.1	6.1	6.9	7.7	8.4	5	8.4	7.2	
Se-D	mg/L	<0.00010	<0.00010	0.00010	<0.00010	<0.00010	5	0.00010	0.000060	
Na-D	mg/L	8.22	8.17	8.67	9.43	9.69	5	9.69	8.84	
Sr-D	mg/L	0.0552	0.0547	0.0603	0.0596	0.0646	5	0.0646	0.0589	
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	
N-NO2	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.02 0.06
N-NO3	mg/L	0.067	<0.020	0.021	<0.020	<0.020	5	0.067	0.0236	3.0 32.8
N-NO23	mg/L	0.067	<0.020	0.021	<0.020	<0.020	5	0.067	0.0236	
P-T	mg/L	<0.0030	<0.0030	0.0031	<0.0030	<0.0030	5	0.0031	0.00182	
P-D	mg/L				<0.010		1	<0.010	0.0050	
DOC	mg/L	2.2	2.1	2.2	2.3	2.6	5	2.6	2.3	

Notes: *Copper is a variable guideline. See Exceedance Table.

Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 46 Spring Lakes 17 Page(s)

EMS ID	E292118							Water Quality Guidelines			
StnName	Lower Quinsam Lake 9M										
StnCode	LQL9										
Date	Unit	7-Apr-21	14-Apr-21	20-Apr-21	28-Apr-21	4-May-21	Count	Maximum	5 in 30 Ave	Average	Max
SO4-D	mg/L	22	22	30	22	23	5	30	23.8	128	
Turb	NTU	0.35	0.31	0.40	0.26	0.27	5	0.40	0.32		
Alk-T	mg/L	28	31	24	32	31	5	32	29.2		
Al-T	mg/L	0.0319	0.0257	0.0290	0.0266	0.0280	5	0.0319	0.0282		
As-T	mg/L	0.00076	0.00081	0.00078	0.00080	0.00074	5	0.00081	0.00078		0.005
Ba-T	mg/L	0.0038	0.0041	0.0037	0.0038	0.0037	5	0.0041	0.0038	1	
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050		
Ca-T	mg/L	10.8	11.8	10.9	11.4	10.9	5	11.8	11.2		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11
Cu-T	mg/L	0.00051	<0.00050	<0.00050	0.00052	<0.00050	5	0.00052	0.000356		
Hard-T	mg/L	33.0	35.9	33.0	34.3	32.7	5	35.9	33.8		
Fe-T	mg/L	0.090	0.092	0.081	0.072	0.069	5	0.092	0.081		1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763
Mg-T	mg/L	1.49	1.57	1.44	1.43	1.33	5	1.57	1.45		
Mn-T	mg/L	0.0058	0.0062	0.0054	0.0046	0.0043	5	0.0062	0.0053	0.737	0.8706
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095	0.00002	
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1	2
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025	
K-T	mg/L	0.207	0.216	0.204	0.206	0.212	5	0.216	0.209		
S-T	mg/L	6.9	7.3	7.3	6.8	7.3	5	7.3	7.1		
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001
Na-T	mg/L	8.48	8.81	8.57	8.74	8.62	5	8.81	8.64		
Sr-T	mg/L	0.0547	0.0570	0.0538	0.0570	0.0603	5	0.0603	0.0566		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033
Al-D	mg/L	0.0221	0.0182	0.0208	0.0201	0.0209	5	0.0221	0.0204	0.05	0.1
As-D	mg/L	0.00073	0.00075	0.00070	0.00072	0.00067	5	0.00075	0.00071		
Ba-D	mg/L	0.0038	0.0038	0.0037	0.0036	0.0037	5	0.0038	0.0037		
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250		
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017
Ca-D	mg/L	11.2	10.9	11.5	11.0	11.0	5	11.5	11.1		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Cu-D	mg/L	0.00046	0.00042	0.00053	0.00047	0.00044	5	0.00053	0.00046	*	*
Hard-D	mg/L	34.2	32.9	34.6	33.4	33.2	5	34.6	33.7		
Fe-D	mg/L	0.0578	0.0517	0.0477	0.0440	0.0449	5	0.0578	0.0492		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Mg-D	mg/L	1.52	1.40	1.43	1.45	1.37	5	1.52	1.43		
Mn-D	mg/L	0.0029	0.0019	0.0010	<0.0010	<0.0010	5	0.0029	0.00136		
Hg-D	mg/L	0.0000024	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	0.0000024	0.00000124		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
K-D	mg/L	0.200	0.196	0.209	0.201	0.222	5	0.222	0.206		
S-D	mg/L	6.6	6.9	7.0	7.4	6.8	5	7.4	6.9		
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050		
Na-D	mg/L	8.24	8.01	8.72	8.46	8.64	5	8.72	8.41		
Sr-D	mg/L	0.0562	0.0537	0.0589	0.0554	0.0597	5	0.0597	0.0568		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		
N-NO2	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.02	0.06
N-NO3	mg/L	0.023	0.023	<0.020	<0.020	<0.020	5	0.023	0.0152	3	32.8
N-NO23	mg/L	0.023	0.023	<0.020	<0.020	<0.020	5	0.023	0.0152		
P-T	mg/L	<0.0030	0.15	0.0034	<0.0030	<0.0030	5	0.15	0.03158		
P-D	mg/L				<0.010		1	<0.010	0.0050		
DOC	mg/L	0.91	2.0	2.0	2.0	2.7	5	2.7	1.92		

Notes: *Copper is a variable guideline. See Exceedance Table.

Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 46 Spring Lakes 17 Page(s)

EMS ID	E292118							Water Quality Guidelines			
StnName	Lower Quinsam Lake 1 Metre from Bottom										
StnCode	LQL 1MB										
Date	Unit	7-Apr-21	14-Apr-21	20-Apr-21	28-Apr-21	4-May-21	Count	Maximum	5 in 30 Ave	Average	Max
SO4-D	mg/L	23	24	22	24	23	5	24	23.2	128	
Turb	NTU	0.43	0.43	0.42	0.42	0.43	5	0.43	0.43		
Alk-T	mg/L	29	33	33	33	39	5	39	33.4		
Al-T	mg/L	0.0313	0.0259	0.0237	0.0311	0.0246	5	0.0313	0.0273		
As-T	mg/L	0.00085	0.00090	0.00083	0.00083	0.00083	5	0.00090	0.00085		0.005
Ba-T	mg/L	0.0042	0.0042	0.0039	0.0039	0.0041	5	0.0042	0.0041	1	
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050		
Ca-T	mg/L	11.2	12.1	11.0	11.8	10.5	5	12.1	11.3		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11
Cu-T	mg/L	0.00052	<0.00050	<0.00050	0.00056	<0.00050	5	0.00056	0.000366		
Hard-T	mg/L	34.3	36.7	33.5	35.5	32.2	5	36.7	34.4		
Fe-T	mg/L	0.112	0.107	0.104	0.090	0.136	5	0.136	0.110		1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763
Mg-T	mg/L	1.54	1.57	1.46	1.43	1.45	5	1.57	1.49		
Mn-T	mg/L	0.0089	0.0082	0.0087	0.0079	0.0203	5	0.0203	0.0108	0.737	0.8706
Hg-T	mg/L	0.0000020	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	0.0000020	0.00000116	0.00002	
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1	2
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025	
K-T	mg/L	0.214	0.227	0.205	0.223	0.212	5	0.227	0.216		
S-T	mg/L	7.5	7.5	7.4	7.7	7.1	5	7.7	7.4		
Se-T	mg/L	<0.00010	<0.00010	<0.00010	0.00011	<0.00010	5	0.00011	0.000062	0.002	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001
Na-T	mg/L	8.69	9.35	8.78	9.43	8.52	5	9.43	8.95		
Sr-T	mg/L	0.0568	0.0598	0.0557	0.0605	0.0586	5	0.0605	0.0583		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033
Al-D	mg/L	0.0198	0.0186	0.0173	0.0238	0.0133	5	0.0238	0.0186	0.05	0.1
As-D	mg/L	0.00074	0.00072	0.00072	0.00070	0.00067	5	0.00074	0.00071		
Ba-D	mg/L	0.0039	0.0039	0.0038	0.0039	0.0039	5	0.0039	0.0039		
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250		
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017
Ca-D	mg/L	11.1	11.5	11.2	11.6	10.4	5	11.6	11.2		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Cu-D	mg/L	0.00045	0.00049	0.00048	0.00052	0.00039	5	0.00052	0.00047	*	*
Hard-D	mg/L	34.0	35.0	34.2	34.9	31.5	5	35.0	33.9		
Fe-D	mg/L	0.0671	0.0612	0.0548	0.0515	0.0740	5	0.0740	0.0617		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Mg-D	mg/L	1.52	1.54	1.48	1.45	1.36	5	1.54	1.47		
Mn-D	mg/L	0.0057	0.0046	0.0029	0.0035	0.0139	5	0.0139	0.0061		
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
K-D	mg/L	0.201	0.206	0.208	0.216	0.202	5	0.216	0.207		
S-D	mg/L	7.0	6.7	7.0	8.2	6.7	5	8.2	7.1		
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050		
Na-D	mg/L	8.55	9.18	8.74	9.15	8.23	5	9.18	8.77		
Sr-D	mg/L	0.0566	0.0568	0.0579	0.0587	0.0567	5	0.0587	0.0573		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		
N-NO2	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.02	0.06
N-NO3	mg/L	0.026	0.027	0.022	<0.020	0.029	5	0.029	0.0228	3	32.8
N-NO23	mg/L	0.026	0.027	0.022	<0.020	0.029	5	0.029	0.0228		
P-T	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	5	<0.0030	0.00150		
P-D	mg/L				<0.010		1	<0.010	0.0050		
DOC	mg/L	1.8	2.5	1.9	2.0	2.2	5	2.5	2.1		

Notes: *Copper is a variable guideline. See Exceedance Table.

Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 47 Summer and Fall Lakes 18 Page(s)

StnName	Long Lake Middle 1 Metre						Count				
StnCode	LLM1							Maximum	5 in 30 Ave	Average	Max
Date	Unit	12-Jul-21	19-Jul-21	26-Jul-21	4-Aug-21	10-Aug-21					
SO4-D	mg/L	59	68	68	71	69	5	71	67	128	
Turb	NTU	0.16	0.16	0.20	0.18	0.18	5	0.20	0.18	2.5	8.5
Alk-T	mg/L	35	37	39	37	40	5	40	37.6		
Al-T	mg/L	0.0090	0.0091	0.0077	0.0089	0.0080	5	0.0091	0.0085		
As-T	mg/L	0.00048	0.00054	0.00050	0.00064	0.00055	5	0.00064	0.00054		0.005
Ba-T	mg/L	0.0050	0.0051	0.0051	0.0056	0.0052	5	0.0056	0.0052	1	5
B-T	mg/L	0.063	0.066	0.063	0.074	0.067	5	0.074	0.067	1.2	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050		
Ca-T	mg/L	25.2	26.4	25.1	30.1	27.5	5	30.1	26.90		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	5	<0.00050	0.00025		
Hard-T	mg/L	76.2	80.3	76.2	90.7	83.0	5	90.7	81.3		
Fe-T	mg/L	0.024	0.025	0.021	0.023	0.021	5	0.025	0.023		1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763
Mg-T	mg/L	3.20	3.47	3.26	3.76	3.45	5	3.76	3.43		
Mn-T	mg/L	0.0079	0.0080	0.0063	0.0064	0.0066	5	0.0080	0.007	0.737	0.8706
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.0000010	0.00002	0.00001
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1	2
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025	0.025
K-T	mg/L	0.303	0.293	0.301	0.345	0.330	5	0.345	0.314		
S-T	mg/L	19.8	20.3	20.8	24.2	21.2	5	24.2	21.3		
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001
Na-T	mg/L	8.44	8.74	8.30	9.93	9.01	5	9.93	8.88		
Sr-T	mg/L	0.171	0.187	0.177	0.195	0.182	5	0.195	0.182		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033
Al-D	mg/L	0.0157	0.0075	0.0075	0.0078	0.0071	5	0.0157	0.0091	0.05	0.1
As-D	mg/L	0.00051	0.00051	0.00045	0.00055	0.00048	5	0.00055	0.0005		
Ba-D	mg/L	0.0049	0.0052	0.0051	0.0053	0.0053	5	0.0053	0.0052		
B-D	mg/L	0.060	0.062	0.061	0.068	0.066	5	0.068	0.0630		
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017
Ca-D	mg/L	25.0	26.8	26.2	28.1	28.2	5	28.2	26.9		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Cu-D	mg/L	0.00043	0.00029	0.00029	0.00041	0.00024	5	0.00043	0.00033	*	*
Hard-D	mg/L	75.5	80.3	79.1	84.7	84.4	5	84.7	80.8		
Fe-D	mg/L	0.0171	0.0155	0.0139	0.0127	0.0115	5	0.0171	0.0141		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Mg-D	mg/L	3.15	3.26	3.29	3.50	3.40	5	3.50	3.32		
Mn-D	mg/L	0.0033	0.0012	<0.0010	<0.0010	<0.0010	5	0.0033	0.0012		
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
K-D	mg/L	0.289	0.290	0.312	0.313	0.301	5	0.313	0.301		
S-D	mg/L	20.5	21.1	20.7	22.4	20.9	5	22.4	21.1		
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050		
Na-D	mg/L	8.05	8.18	8.62	8.95	8.66	5	8.95	8.49		
Sr-D	mg/L	0.161	0.184	0.179	0.192	0.193	5	0.193	0.1820		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		
N-NO2	mg/L	<0.0050	<0.0050	<0.0050		<0.0050	4	<0.0050	0.00250	0.02	0.06
N-NO3	mg/L	<0.020	<0.020	<0.020		<0.020	4	<0.020	0.01	3	32.8
N-NO23	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	5	<0.020	0.01		
P-T	mg/L	0.0056	<0.0030	0.0056	<0.0030	<0.0030	5	0.0056	0.00314	0.007	
P-D	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	5	<0.0030	0.00150		
DOC	mg/L	2.3	2.3	<0.50	4.1	2.6	5	4.1	2.31		
Chlr-a	ug/L	<0.50					1	<0.50	0.25		

Notes: *Copper is a variable guideline. See Exceedance Table.

Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 47 Summer and Fall Lakes 18 Page(s)

EMS ID	E206619						Count	Water Quality Guidelines			
StnName	Long Lake Middle 4 Metre							Maximum	5 in 30 Ave	Average	Max
StnCode	LLM4										
Date	Unit	12-Jul-21	19-Jul-21	26-Jul-21	4-Aug-21	10-Aug-21					
SO4-D	mg/L	67	67	71	75	76	5	76	71.2	128	
Turb	NTU	0.15	0.16	0.25	0.21	0.18	5	0.25	0.19	2.5	8.5
Alk-T	mg/L	32	37	39	40	39	5	40	37.4		
Al-T	mg/L	0.0083	0.0090	0.0081	0.0085	0.0081	5	0.009	0.0084		
As-T	mg/L	0.00038	0.00057	0.00049	0.00058	0.00056	5	0.00058	0.00052		0.005
Ba-T	mg/L	0.0049	0.0054	0.0051	0.0057	0.0055	5	0.0057	0.0053	1	5
B-T	mg/L	0.065	0.067	0.064	0.072	0.071	5	0.072	0.068	1.2	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050		
Ca-T	mg/L	25.7	27.0	26.5	28.5	28.8	5	28.8	27.3		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	5	<0.00050	0.000250		
Hard-T	mg/L	77.5	81.9	80.0	85.9	86.7	5	86.7	82.4		
Fe-T	mg/L	0.025	0.025	0.023	0.026	0.023	5	0.026	0.024		1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763
Mg-T	mg/L	3.25	3.49	3.38	3.60	3.61	5	3.61	3.47		
Mn-T	mg/L	0.0076	0.0081	0.0071	0.0065	0.0075	5	0.0081	0.0074	0.737	0.8706
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095	0.00002	0.00001
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1	2
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025	0.025
K-T	mg/L	0.305	0.300	0.318	0.335	0.351	5	0.351	0.322		
S-T	mg/L	21.1	21.8	21.2	23.7	23.6	5	23.7	22.3		
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001
Na-T	mg/L	8.62	8.95	8.62	9.35	9.37	5	9.37	8.98		
Sr-T	mg/L	0.174	0.190	0.183	0.186	0.187	5	0.19	0.184		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033
Al-D	mg/L	0.0068	0.0070	0.0076	0.0089	0.0064	5	0.0089	0.0073	0.05	0.1
As-D	mg/L	0.00040	0.00055	0.00046	0.00055	0.00050	5	0.00055	0.00049		
Ba-D	mg/L	0.0049	0.0052	0.0051	0.0053	0.0054	5	0.00540	0.0052		
B-D	mg/L	0.060	0.062	0.062	0.071	0.067	5	0.071	0.064		
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017
Ca-D	mg/L	24.1	25.8	26.5	29.5	27.8	5	29.5	26.7		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Cu-D	mg/L	0.00025	0.00027	0.00028	0.00031	0.00025	5	0.00031	0.00027	*	*
Hard-D	mg/L	72.8	78.1	80.1	88.4	83.7	5	88.4	80.6		
Fe-D	mg/L	0.0169	0.0161	0.0142	0.0147	0.0120	5	0.0169	0.0148		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Mg-D	mg/L	3.04	3.33	3.40	3.58	3.45	5	3.58	3.36		
Mn-D	mg/L	0.0043	0.0012	<0.0010	<0.0010	0.0010	5	0.0043	0.0015		
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
K-D	mg/L	0.279	0.293	0.319	0.328	0.308	5	0.328	0.305		
S-D	mg/L	19.7	21.2	20.5	24.1	23.2	5	24.100	21.7		
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050		
Na-D	mg/L	7.96	8.25	8.76	9.10	8.90	5	9.1	8.59		
Sr-D	mg/L	0.159	0.190	0.186	0.197	0.192	5	0.197	0.185		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		
N-NO2	mg/L	<0.0050	<0.0050	<0.0050		<0.0050	4	<0.0050	0.00250	0.02	0.06
N-NO3	mg/L	<0.020	<0.020	<0.020		<0.020	4	<0.020	0.0100	3	32.8
N-NO23	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	5	<0.020	0.0100		
P-T	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	5	<0.0030	0.0015	0.007	
P-D	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	5	<0.0030	0.00150		
DOC	mg/L	2.4	2.2	2.5	3.8	2.4	5	3.8	2.7		

Notes: *Copper is a variable guideline. See Exceedance Table.

Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 47 Summer and Fall Lakes 18 Page(s)

EMS ID	E206619						Count	Water Quality Guidelines			
StnName	Long Lake Middle 9 Metre							Maximum	5 in 30 Ave	Average	Max
StnCode	LLM9										
Date	Unit	12-Jul-21	19-Jul-21	26-Jul-21	4-Aug-21	10-Aug-21					
SO4-D	mg/L	110	110	98	93	110	5	110	104.2	128	
Turb	NTU	0.15	0.14	0.18	0.19	0.18	5	0.19	0.17	2.5	8.5
Alk-T	mg/L	40	46	50	48	46	5	50	46		
Al-T	mg/L	0.0115	0.0104	0.0106	0.0108	0.0103	5	0.0115	0.0107		
As-T	mg/L	0.0002	0.00022	0.00019	0.00033	0.00018	5	0.0003	0.00022		0.005
Ba-T	mg/L	0.0053	0.0055	0.0053	0.0056	0.0052	5	0.0056	0.0054	1	5
B-T	mg/L	0.093	0.093	0.088	0.096	0.09	5	0.096	0.0920	1.2	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050		
Ca-T	mg/L	37	38.2	35.6	38.5	37.3	5	38.5	37.3		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11
Cu-T	mg/L	<0.00050	<0.00050	0.00514	<0.00050	<0.00050	5	0.00514	0.001228		
Hard-T	mg/L	110	114	106	114	111	5	114	111		
Fe-T	mg/L	0.02	0.015	0.02	0.026	0.022	5	0.026	0.021		1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763
Mg-T	mg/L	4.22	4.42	4.23	4.42	4.28	5	4.42	4.31		
Mn-T	mg/L	0.0516	0.0548	0.0591	0.0522	0.0647	5	0.0647	0.0565	0.737	0.8706
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095	0.00002	0.00001
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1	2
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025	0.025
K-T	mg/L	0.457	0.453	0.453	0.482	0.461	5	0.482	0.461		
S-T	mg/L	31.9	32.8	32.1	33.7	32.1	5	33.7	32.5		
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001
Na-T	mg/L	13.9	13.9	13.1	13.7	13.3	5	13.9	13.6		
Sr-T	mg/L	0.282	0.295	0.274	0.272	0.267	5	0.295	0.278		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033
Al-D	mg/L	0.0096	0.0101	0.01	0.0094	0.0085	5	0.0101	0.0095	0.05	0.1
As-D	mg/L	0.00021	0.00022	0.00016	0.00024	0.00015	5	0.00024	0.0002		
Ba-D	mg/L	0.005	0.0054	0.0056	0.0053	0.0053	5	0.0056	0.0053		
B-D	mg/L	0.088	0.088	0.086	0.09	0.089	5	0.09	0.088		
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017
Ca-D	mg/L	35.5	37.7	37.5	37	37.4	5	37.7	37		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Cu-D	mg/L	0.00026	0.00029	0.00031	0.00028	0.00027	5	0.00031	0.00028	*	*
Hard-D	mg/L	105	112	111	109	110	5	112	109.4		
Fe-D	mg/L	0.014	0.0193	0.0143	0.0145	0.0128	5	0.0193	0.015		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Mg-D	mg/L	4.1	4.2	4.31	4.11	4.12	5	4.31	4.17		
Mn-D	mg/L	0.0453	0.0559	0.0575	0.044	0.0595	5	0.0595	0.0524		
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
K-D	mg/L	0.439	0.437	0.457	0.428	0.44	5	0.457	0.44		
S-D	mg/L	30.7	31.7	32.7	29.4	32.6	5	32.7	31.4		
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050		
Na-D	mg/L	13	12.9	13.5	12.7	13.2	5	13.5	13.1		
Sr-D	mg/L	0.265	0.292	0.28	0.275	0.283	5	0.292	0.279		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		
N-NO2	mg/L	<0.0050	<0.0050	<0.0050		<0.0050	4	<0.0050	0.00250	0.02	0.06
N-NO3	mg/L	0.033	0.049	0.025		0.045	4	0.049	0.038	3	32.8
N-NO23	mg/L	0.033	0.049	0.025	0.032	0.045	5	0.049	0.037		
P-T	mg/L	<0.0030	<0.0030	<0.0030	0.0031	<0.0030	5	0.0031	0.00182	0.007	
P-D	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	5	<0.0030	0.00150		
DOC	mg/L	2	1.9	<0.50	3.5	2.3	5	3.5	1.99		

Notes: *Copper is a variable guideline. See Exceedance Table.

Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 47 Summer and Fall Lakes 18 Page(s)

EMS ID	E206619						Count	Water Quality Guidelines			
StnName	Long Lake Middle 1 Metre from Bottom							Maximum	5 in 30 Ave	Average	Max
StnCode	LLM 1MB										
Date	Unit	12-Jul-21	19-Jul-21	26-Jul-21	4-Aug-21	10-Aug-21					
SO4-D	mg/L	110	110	95	110	100	5	110	105	128	
Turb	NTU	0.46	0.77	0.30	1.7	3.6	5	3.6	1.37	2.5	8.5
Alk-T	mg/L	44	49	51	49	48	5	51	48.2		
Al-T	mg/L	0.0112	0.0109	0.01	0.0111	0.0092	5	0.0112	0.0105		
As-T	mg/L	0.00025	0.00033	0.00023	0.0003	0.0003	5	0.00034	0.00028		0.005
Ba-T	mg/L	0.00850	0.0109	0.0073	0.0099	0.0087	5	0.0109	0.0091	1	5
B-T	mg/L	0.0920	0.094	0.09	0.1	0.093	5	0.1000	0.094	1.2	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050		
Ca-T	mg/L	37.6	39	36.8	39.7	38	5	39.7	38.2		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	5	<0.00050	0.000250		
Hard-T	mg/L	111	115	109	118	112	5	118	113		
Fe-T	mg/L	0.048	0.071	0.037	0.066	0.05	5	0.071	0.054		1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763
Mg-T	mg/L	4.25	4.38	4.21	4.59	4.29	5	4.59	4.34		
Mn-T	mg/L	0.487	0.858	0.317	0.597	0.507	5	0.858	0.553	0.737	0.8706
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095	0.00002	0.00001
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1	2
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025	0.025
K-T	mg/L	0.473	0.469	0.458	0.517	0.487	5	0.517	0.481		
S-T	mg/L	32.9	32.2	32.8	35.1	31.8	5	35.1	33		
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001
Na-T	mg/L	14.2	14.2	13.2	14.5	13.7	5	14.5	14.00		
Sr-T	mg/L	0.288	0.312	0.3	0.281	0.274	5	0.312	0.287		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033
Al-D	mg/L	0.0097	0.0075	0.0081	0.0079	0.0061	5	0.0097	0.0079	0.05	0.1
As-D	mg/L	0.00024	0.0003	0.00017	0.0002	0.00017	5	0.0003	0.00021		
Ba-D	mg/L	0.0083	0.0103	0.0065	0.0087	0.007	5	0.0103	0.0082		
B-D	mg/L	0.091	0.093	0.088	0.096	0.093	5	0.096	0.092		
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017
Ca-D	mg/L	35.5	39.1	37.9	39.3	37.8	5	39.3	37.9		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Cu-D	mg/L	0.00033	0.00033	0.00029	0.00028	0.00026	5	0.00033	0.00030	*	*
Hard-D	mg/L	106	115	113	116	111	5	116	112.2		
Fe-D	mg/L	0.0136	0.0164	0.0142	0.0144	0.009	5	0.0164	0.0135		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Mg-D	mg/L	4.19	4.28	4.4	4.38	4.15	5	4.4	4.28		
Mn-D	mg/L	0.423	0.839	0.217	0.454	0.208	5	0.839	0.428		
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
K-D	mg/L	0.471	0.469	0.474	0.473	0.447	5	0.474	0.467		
S-D	mg/L	31.5	34.5	32.700	33.6	32.6	5	34.500	33		
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050		
Na-D	mg/L	13.5	13.8	13.9	14	13.4	5	14	13.7		
Sr-D	mg/L	0.277	0.307	0.27	0.3	0.286	5	0.307	0.288		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		
N-NO2	mg/L	<0.0050	<0.0050	<0.0050		<0.0050	4	<0.0050	0.00250	0.02	0.06
N-NO3	mg/L	0.08	0.193	0.047		0.088	4	0.193	0.102	3	32.8
N-NO23	mg/L	0.08	0.193	0.047	0.083	0.088	5	0.193	0.098		
P-T	mg/L	<0.0030	0.0049	<0.0030	<0.0030	<0.0030	5	0.0049	0.00218	0.007	
P-D	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	5	<0.0030	0.00150		
DOC	mg/L	2	2	0.78	3.1	2.2	5	3.1	2.02		

Notes: *Copper is a variable guideline. See Exceedance Table.

Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 47 Summer and Fall Lakes 18 Page(s)

EMS ID E206618							Count	Water Quality Guidelines			
StnName Middle Quinsam Lake 1 Metre						Maximum		5 in 30 Ave	Average	Max	
StnCode	MQL1										
Date	Unit	12-Jul-21	19-Jul-21	26-Jul-21	4-Aug-21	10-Aug-21					
SO4-D	mg/L	52	52	50	47	51	5	52	50.4	128	
Turb	NTU	0.22	0.24	0.24	0.2	0.23	5	0.24	0.23	2.5	8.5
Alk-T	mg/L	43	44	49	50	51	5	51	47.4		
Al-T	mg/L	0.0153	0.0138	0.0143	0.0154	0.0135	5	0.0154	0.0145		
As-T	mg/L	0.00017	0.00021	0.0002	0.00024	0.00017	5	0.00024	0.0002		0.005
Ba-T	mg/L	0.00190	0.00190	0.0018	0.0017	0.0017	5	0.0019	0.0018	1	5
B-T	mg/L	0.073	0.069	0.063	0.0730	0.07	5	0.073	0.07	1.2	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050		
Ca-T	mg/L	14.7	14.3	14.3	14.3	13.4	5	14.7	14.2		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	0.00051	<0.00050	5	0.00051	0.000302		
Hard-T	mg/L	44.5	43.3	43.7	43.5	41.1	5	44.5	43.2		
Fe-T	mg/L	0.04	0.044	0.04	0.045	0.0	5	0.045	0.042		1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763
Mg-T	mg/L	1.9	1.85	1.93	1.92	1.85	5	1.93	1.89		
Mn-T	mg/L	0.0109	0.0104	0.01	0.007	0.0073	5	0.0109	0.0086	0.737	0.8706
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095	0.00002	0.00001
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1	2
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025	0.025
K-T	mg/L	0.324	0.291	0.294	0.306	0.306	5	0.324	0.304		
S-T	mg/L	17.2	15.3	14.8	15.3	15.4	5	17.2	15.6		
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001
Na-T	mg/L	24	21.9	22.4	22.7	21.9	5	24.0	22.6		
Sr-T	mg/L	0.0998	0.0963	0.0837	0.0851	0.0856	5	0.0998	0.0901		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033
Al-D	mg/L	0.0176	0.0125	0.0131	0.0134	0.0135	5	0.0176	0.014	0.05	0.1
As-D	mg/L	0.00019	0.0002	0.00014	0.00018	0.00015	5	0.00020	0.00017		
Ba-D	mg/L	0.0018	0.0018	0.0019	0.0016	0.0017	5	0.0019	0.0018		
B-D	mg/L	0.069	0.08	0.063	0.068	0.07	5	0.080	0.07		
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017
Ca-D	mg/L	13.5	14.1	14.4	13.3	13.7	5	14.4	13.8		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Cu-D	mg/L	0.00053	0.00043	0.00046	0.00047	0.00041	5	0.00053	0.00046	*	*
Hard-D	mg/L	41.60000	42.8	43.7	40.5	41.6	5	43.7	42		
Fe-D	mg/L	0.0227	0.0255	0.0	0.0243	0.0237	5	0.0255	0.0242		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Mg-D	mg/L	1.88	1.83	1.86	1.78	1.82	5	1.88	1.83		
Mn-D	mg/L	0.0015	0.00	0.001	<0.0010	<0.0010	5	0.0015	0.00094		
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
K-D	mg/L	0.329	0.279	0.304	0.282	0.297	5	0.329	0.298		
S-D	mg/L	15.9	15.5	14.9	13	15.1	5	15.9	14.9		
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050		
Na-D	mg/L	22.2	21.9	21.7	21	22	5	22.2	21.8		
Sr-D	mg/L	0.0947	0.0929	0.0896	0.0833	0.1	5	0.0947	0.0896		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		
Chlr-a	ug/L	<0.50					1	<0.50	0.25000		
N-NO2	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.0025	0.02	0.06
N-NO3	mg/L	0.076	<0.020	0.155	0.033	<0.020	5	0.155	0.0568	3	32.8
N-NO23	mg/L	0.076	<0.020	0.155	0.033	<0.020	5	0.155	0.0568		
P-T	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	5	<0.0030	0.0015	0.006	
P-D	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	5	<0.0030	0.0015		
DOC	mg/L	1.9	1.6	<0.50	2.5	1.8	5	2.5	1.61		
Notes: *Copper is a variable guideline. See Exceedance Table.											
Factor applied to less-than results when calculating statistics: 0.5											

Notes: *Copper is a variable guideline. See Exceedance Table.

Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 47 Summer and Fall Lakes 18 Page(s)

EMS ID	E206618						Count	Water Quality Guidelines			
StnName	Middle Quinsam Lake 4 Metre							Maximum	5 in 30 Ave	Average	Max
StnCode	MQL4										
Date	Unit	12-Jul-21	19-Jul-21	26-Jul-21	4-Aug-21	10-Aug-21					
SO4-D	mg/L	50	53	47	47	50	5	53	49.4	128	
Turb	NTU	0.29	0.21	0.23	0.25	0.24	5	0.29	0.24	2.5	8.5
Alk-T	mg/L	42	49	48	50	49	5	50	47.6		
Al-T	mg/L	0.0141	0.0152	0.0128	0.0135	0.0136	5	0.0152	0.0138		
As-T	mg/L	0.00017	0.00023	0.00017	0.00023	0.00016	5	0.00023	0.00019		0.005
Ba-T	mg/L	0.002	0.0019	0.002	0.0016	0.0018	5	0.002	0.0019	1	5
B-T	mg/L	0.072	0.074	0.065	0.069	0.072	5	0.074	0.070	1.2	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050		
Ca-T	mg/L	14.2	15	13.8	13.7	13.9	5	15	14.1		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11
Cu-T	mg/L	0.00052	<0.00050	<0.00050	<0.00050	0.00052	5	0.00052	0.000358		
Hard-T	mg/L	43.1	45.70000	42.1	41.7	42.6	5	45.7	43		
Fe-T	mg/L	0.048	0.047	0.039	0.046	0.043	5	0.048	0.045		1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763
Mg-T	mg/L	1.83	1.99	1.87	1.85	1.93	5	1.99	1.89		
Mn-T	mg/L	0.0126	0.0111	0.0083	0.0076	0.008	5	0.0126	0.0095	0.737	0.8706
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095	0.00002	0.00001
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1	2
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025	0.025
K-T	mg/L	0.31	0.302	0.286	0.29	0.318	5	0.318	0.301		
S-T	mg/L	15.7	16.6	15	14.6	15.8	5	16.6	15.5		
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001
Na-T	mg/L	22.5	23.4	21.9	21.4	23.3	5	23.4	22.5		
Sr-T	mg/L	0.0969	0.0996	0.0861	0.082	0.0869	5	0.0996	0.0903		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033
Al-D	mg/L	0.0129	0.0148	0.0123	0.0116	0.0125	5	0.0148	0.0128	0.05	0.1
As-D	mg/L	0.00018	0.0002	0.00014	0.00015	0.00014	5	0.0002	0.00016		
Ba-D	mg/L	0.0018	0.0019	0.0018	0.0017	0.0017	5	0.0019	0.0018		
B-D	mg/L	0.066	0.068	0.064	0.064	0.069	5	0.069	0.066		
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017
Ca-D	mg/L	13.6	14.5	14	13.4	12.9	5	14.5	13.7		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Cu-D	mg/L	0.00044	0.0005	0.00046	0.00041	0.00042	5	0.0005	0.00045	*	*
Hard-D	mg/L	41.5	44	42.8	40.8	39.6	5	44	41.7		
Fe-D	mg/L	0.0284	0.0415	0.0211	0.0254	0.0208	5	0.0415	0.0274		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Mg-D	mg/L	1.84	1.91	1.91	1.8	1.81	5	1.91	1.85		
Mn-D	mg/L	0.0011	0.0103	<0.0010	<0.0010	<0.0010	5	0.0103	0.00258		
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.0005		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
K-D	mg/L	0.293	0.294	0.307	0.273	0.284	5	0.307	0.29		
S-D	mg/L	15.1	16	15.6	13.5	14.9	5	16	15.0		
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050		
Na-D	mg/L	21.3	21.8	22	20.7	21.9	5	22	21.5		
Sr-D	mg/L	0.0932	0.098	0.1	0.1	0.0889	5	0.098	0.0906		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		
N-NO2	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.02	0.06
N-NO3	mg/L	0.022	<0.020	<0.020	<0.020	0.027	5	0.027	0.0158	3	32.8
N-NO23	mg/L	0.022	<0.020	<0.020	<0.020	0.027	5	0.027	0.0158		
P-T	mg/L	<0.0030	<0.0030	<0.0030	0.0037	<0.0030	5	0.0037	0.00194	0.006	
P-D	mg/L	<0.0030	<0.0030	<0.0030	0.0066	<0.0030	5	0.0066	0.00252		
DOC	mg/L	1.5	1.7	<0.50	2.6	1.7	5	2.6	1.55		

Notes: *Copper is a variable guideline. See Exceedance Table.

Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 47 Summer and Fall Lakes 18 Page(s)

EMS ID	E206618						Count	Water Quality Guidelines			
StnName	Middle Quinsam Lake 9 Metre							Maximum	5 in 30 Ave	Average	Max
StnCode	MQL9										
Date	Unit	12-Jul-21	19-Jul-21	26-Jul-21	4-Aug-21	10-Aug-21					
SO4-D	mg/L	36	46	41	47	49	5	49	43.8	128	
Turb	NTU	0.19	0.2	0.28	0.27	0.37	5	0.37	0.26	2.5	8.5
Alk-T	mg/L	33	44	47	50	40	5	50	42.8		
Al-T	mg/L	0.0098	0.0135	0.0121		0.0108	5	0.0135	0.0115		
As-T	mg/L	0.00011	0.0002	0.00016	0.00021	0.00014	5	0.00021	0.00016		0.005
Ba-T	mg/L	0.00150	0.0018	0.00170	0.0017	0.0017	5	0.0018	0.0017	1	5
B-T	mg/L	<0.050	0.065	0.06	0.06	0.059	5	0.065	0.0538	1.2	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050		
Ca-T	mg/L	12.6	14.3	13.4	14	13.7	5	14.3	13.6		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	0.00054	0.00053	5	0.00054	0.000364		
Hard-T	mg/L	38.1	43.5	41	42.5	41.6	5	43.5	41.3		
Fe-T	mg/L	0.018	0.035	0.034	0.037	0.032	5	0.037	0.031		1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763
Mg-T	mg/L	1.6	1.92	1.8	1.83	1.81	5	1.92	1.79		
Mn-T	mg/L	0.01	0.0092	0.0078	0.0082	0.0101	5	0.01	0.0083	0.737	0.8706
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095	0.00002	0.00001
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1	2
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025	0.025
K-T	mg/L	0.189	0.258	0.253	0.249	0.259	5	0.259	0.242		
S-T	mg/L	11.4	15.2	13.6	14	14.2	5	15.2	13.7		
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001
Na-T	mg/L	14.4	20.8	19.8	19.3	18.6	5	20.8	18.6		
Sr-T	mg/L	0.0674	0.0907	0.0787	0.1	0.079	5	0.0907	0.0789		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033
Al-D	mg/L	0.0101	0.0097	0.0121	0.0116	0.0093	5	0.0121	0.0106	0.05	0.1
As-D	mg/L	0.00013	0.00017	0.00011	0.00016	0.00012	5	0.00017	0.00014		
Ba-D	mg/L	0.0015	0.0018	0.0018	0.0016	0.00170	5	0.00180	0.0017		
B-D	mg/L	<0.050	0.057	0.057	0.062	0.06	5	0.062	0.0522		
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017
Ca-D	mg/L	12	13.5	13.9	13.6	13.6	5	13.9	13.3		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Cu-D	mg/L	0.00045	0.00048	0.00047	0.00043	0.00045	5	0.00048	0.00046	*	*
Hard-D	mg/L	36.8	41.1	42.2	41.1	41.1	5	42.2	40.5		
Fe-D	mg/L	0.0094	0.0146	0.0193	0.0211	0.0109	5	0.0211	0.0151		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Mg-D	mg/L	1.65	1.78	1.81	1.76	1.77	5	1.81	1.75		
Mn-D	mg/L	0.001	0.0011	0.0011	<0.0010	<0.0010	5	0.0011	0.00084		
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
K-D	mg/L	0.196	0.229	0.274	0.257	0.247	5	0.274	0.241		
S-D	mg/L	12	13.4	14.7	13.5	13.5	5	14.7	13.4		
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050		
Na-D	mg/L	14.5	18	19.6	19	19	5	19.6	18		
Sr-D	mg/L	0.0682	0.085	0.1	0.0806	0.0842	5	0.1	0.0801		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		
N-NO2	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.02	0.06
N-NO3	mg/L	<0.020	0.029	<0.020	<0.020	<0.020	5	0.029	0.0138	3	32.8
N-NO23	mg/L	<0.020	0.029	<0.020	<0.020	<0.020	5	0.029	0.0138		
P-T	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	5	<0.0030	0.0015	0.006	
P-D	mg/L	<0.0030	0.0061	<0.0030	<0.0030	<0.0030	5	0.0061	0.00242		
DOC	mg/L	1.6	1	1.6	2.5	1.8	5	2.5	1.7		

Notes: *Copper is a variable guideline. See Exceedance Table.

Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 47 Summer and Fall Lakes 18 Page(s)

EMS ID	E206618						Count	Water Quality Guidelines			
StnName	Middle Quinsam Lake 1 Metre from Bottom							Maximum	5 in 30 Ave	Average	Max
StnCode	MQL 1MB										
Date	Unit	12-Jul-21	19-Jul-21	26-Jul-21	4-Aug-21	10-Aug-21					
SO4-D	mg/L	29	30	30	29	26	5	30	28.8	128	
Turb	NTU	0.17	0.16	0.26	0.26	0.22	5	0.26	0.21	2.5	8.5
Alk-T	mg/L	32	35	37	36	37	5	37	35.4		
Al-T	mg/L	0.0073	0.0069	0.0066	0.0074	0.0054	5	0.0074	0.0067		
As-T	mg/L	<0.00010	0.00013	0.0001	0.00015	<0.00010	5	0.00015	0.000096		0.005
Ba-T	mg/L	0.0017	0.00180	0.0021	0.0021	0.0022	5	0.0022	0.002	1	5
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.025	1.2	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050		
Ca-T	mg/L	12.3	12.1	12.7	12.9	12.4	5	12.9	12.5		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11
Cu-T	mg/L	<0.00050	<0.00050	0.00054	0.00055	0.00055	5	0.00055	0.000428		
Hard-T	mg/L	37.1	37.1	39	39.3	38	5	39.3	38.1		
Fe-T	mg/L	0.019	0.02	0.024	0.028	0.029	5	0.029	0.024		1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763
Mg-T	mg/L	1.56	1.68	1.75	1.7	1.69	5	1.75	1.68		
Mn-T	mg/L	0.01	0.0077	0.0098	0.0093	0.0097	5	0.0098	0.0086	0.737	0.8706
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095	0.00002	0.00001
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1	2
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025	0.025
K-T	mg/L	0.179	0.175	0.183	0.184	0.192	5	0.192	0.183		
S-T	mg/L	9.2	9.1	9.2	9.4	9	5	9.4	9.2		
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001
Na-T	mg/L	12	12.1	12.4	12.1	11.7	5	12.4	12.1		
Sr-T	mg/L	0.0595	0.0612	0.0575	0.0608	0.0573	5	0.0612	0.0593		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033
Al-D	mg/L	0.0051	0.0072	0.0059	0.0047	0.0044	5	0.0072	0.0055	0.05	0.1
As-D	mg/L	0.00011	0.0001	<0.00010	<0.00010	<0.00010	5	0.00011	0.000074		
Ba-D	mg/L	0.0016	0.0019	0.002	0.002	0.00220	5	0.00220	0.0019		
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.025		
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017
Ca-D	mg/L	11.5	12.1	12.5	12.2	12.6	5	12.6	12.2		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Cu-D	mg/L	0.00043	0.00045	0.00048	0.00046	0.00046	5	0.00048	0.00046	*	*
Hard-D	mg/L	35.1	36.8	38.1	37.4	38.2	5	38.2	37.1		
Fe-D	mg/L	0.0097	0.0107	0.0117	0.0101	0.0109	5	0.0117	0.0106		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Mg-D	mg/L	1.54	1.62	1.68	1.65	1.65	5	1.68	1.63		
Mn-D	mg/L	0.0037	0.0047	0.0057	0.0049	0.0053	5	0.0057	0.0049		
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
K-D	mg/L	0.166	0.164	0.186	0.182	0.193	5	0.193	0.178		
S-D	mg/L	9	9.2	8.6	8.7	8.5	5	9.2	8.8		
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050		
Na-D	mg/L	11.1	11.4	11.7	11.6	11.7	5	11.7	11.5		
Sr-D	mg/L	0.0541	0.0605	0.0585	0.0584	0.1	5	0.0605	0.0581		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		
N-NO2	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.02	0.06
N-NO3	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	5	<0.020	0.01	3	32.8
N-NO23	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	5	<0.020	0.01		
P-T	mg/L	<0.0030	<0.0030	0.0031	0.0039	<0.0030	5	0.0039	0.00230	0.006	
P-D	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	5	<0.0030	0.00150		
DOC	mg/L	1.5	1.7	1.7	2.5	1.8	5	2.5	1.8		

Notes: *Copper is a variable guideline. See Exceedance Table.

Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 47 Summer and Fall Lakes 18 Page(s)

EMS ID	LLE Zone of Dilution 2						Count	Water Quality Guidelines			
StnName	LLEZ2							Maximum	5 in 30 Ave	Average	Max
StnCode	Unit	12-Jul-21	19-Jul-21	26-Jul-21	4-Aug-21	10-Aug-21					
SO4-D	mg/L	66	68	68	70	70	5	70	68.4	128	
Turb	NTU	0.18	0.18	0.18	0.21	0.2	5	0.21	0.19	2.5	8.5
Alk-T	mg/L	33	36	38	39	39	5	39	37.0		
Al-T	mg/L	0.0094	0.0097	0.0083	0.0106	0.0082	5	0.0106	0.0092		
As-T	mg/L	0.00047	0.00055	0.00051	0.00061	0.00058	5	0.00061	0.00054		0.005
Ba-T	mg/L	0.0049	0.00750	0.0052	0.0054	0.0054	5	0.0075	0.0057	1	5
B-T	mg/L	0.066	0.067	0.065	0.0720	0.068	5	0.0720	0.0680	1.2	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050		
Ca-T	mg/L	25.4	26.9	26	28.2	27.8	5	28.2	26.9		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	5	<0.00050	0.00025		
Hard-T	mg/L	76.7	81.3	79.2	85.6	84.3	5	85.6	81.4		
Fe-T	mg/L	0.024	0.028	0.023	0.023	0.021	5	0.028	0.024		1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763
Mg-T	mg/L	3.2	3.42	3.45	3.7	3.62	5	3.7	3.48		
Mn-T	mg/L	0.0085	0.0086	0.0072	0.0063	0.0069	5	0.0086	0.0075	0.737	0.8706
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095	0.00002	0.00001
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1	2
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025	0.025
K-T	mg/L	0.297	0.298	0.321	0.328	0.3400	5	0.3400	0.317		
S-T	mg/L	20.600	20.5	20.8	24.4	24.2	5	24.4	22.1		
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001
Na-T	mg/L	8.59	8.75	8.7	9.37	9.19	5	9.37	8.92		
Sr-T	mg/L	0.17	0.191	0.18	0.181	0.185	5	0.191	0.182		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033
Al-D	mg/L	0.0073	0.0075	0.0094	0.0084	0.0073	5	0.0094	0.008	0.05	0.1
As-D	mg/L	0.0005	0.00054	0.00045	0.00055	0.00049	5	0.00055	0.00051		
Ba-D	mg/L	0.0049	0.0053	0.0053	0.00520	0.00530	5	0.00530	0.0052		
B-D	mg/L	0.06	0.065	0.063	0.068	0.071	5	0.071	0.065		
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017
Ca-D	mg/L	23.5	25.8	26.5	28.3	27.6	5	28.3	26.3		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Cu-D	mg/L	0.00031	0.00031	0.00048	0.00027	0.00026	5	0.00048	0.00033	*	*
Hard-D	mg/L	71.5	77.90000	80.2	85	83.3	5	85	79.6		
Fe-D	mg/L	0.0172	0.0157	0.0147	0.0138	0.0116	5	0.0172	0.0146		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Mg-D	mg/L	3.09	3.3	3.43	3.48	3.5	5	3.5	3.36		
Mn-D	mg/L	0.0039	0.0015	0.0011	<0.0010	0.001	5	0.0039	0.0016		
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
K-D	mg/L	0.288	0.294	0.331	0.322	0.317	5	0.331	0.31		
S-D	mg/L	18.6	21.5	21.3	23.200	23.6	5	23.6	21.6		
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050		
Na-D	mg/L	7.93	8.48	8.84	8.94	8.96	5	8.96	8.63		
Sr-D	mg/L	0.158	0.188	0.181	0.197	0.193	5	0.197	0.1830		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	0.0059	<0.0050	5	0.0059	0.00318		
N-NO2	mg/L	<0.0050	<0.0050	<0.0050		<0.0050	5	<0.0050	0.00250	0.02	0.06
N-NO3	mg/L	0.041	0.349	<0.020		0.02	5	0.349	0.1050	3	32.8
N-NO23	mg/L	0.041	0.349	<0.020	0.214	0.02	5	0.349	0.1268		
P-T	mg/L	<0.0030	<0.0030	<0.0030	0.0043	<0.0030	5	0.0043	0.00206	0.007	
P-D	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	5	<0.0030	0.00150		
DOC	mg/L	2.2	1.9	1.1	4.7	2.4	5	4.7	2.5		

Notes: *Copper is a variable guideline. See Exceedance Table.

Factor applied to less-than results when calculating statistics: 0.5

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Table 47 Summer and Fall Lakes 18 Page(s)

StnName	Long Lake Middle 1 Metre						Count	Maximum	5 in 30 Ave	Average	Max
StnCode	LLM1										
Date	Unit	6-Oct-21	13-Oct-21	19-Oct-21	27-Oct-21	2-Nov-21					
SO4-D	mg/L	93	94	71	15	39	5	94	62.4	128	
Turb	NTU	0.19	0.27	0.23	0.73	0.53	5	0.73	0.39		
Alk-T	mg/L	42	43	42	14	21	5	43	32.4		
Al-T	mg/L	0.0060	0.0062	0.0071	0.0585	0.0617	5	0.0617	0.0279		
As-T	mg/L	0.00054	0.00054	0.00046	0.00036	0.00035	5	5	0.00045		0.005
Ba-T	mg/L	0.0062	0.0063	0.0059	0.0024	0.0039	5	0.0063	0.0049	1	5
B-T	mg/L	0.079	0.080	0.070	<0.050	<0.050	5	0.080	0.0558	1.2	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050		
Ca-T	mg/L	34.2	32.7	30.6	7.72	13.8	5	34.2	23.80		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	0.00060	0.00061	5	0.00061	0.000392		
Hard-T	mg/L	102	98.2	91.4	24.5	42.5	5	102	71.7		
Fe-T	mg/L	0.019	0.019	0.024	0.096	0.093	5	0.096	0.050		1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763
Mg-T	mg/L	4.07	4.03	3.66	1.26	1.98	5	4.07	3.00		
Mn-T	mg/L	0.0101	0.0116	0.0095	0.0071	0.0120	5	0.0120	0.0101	0.737	0.8706
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019	0.0000021	<0.0000019	5	0.0000021	0.0000012	0.00002	0.00001
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1	2
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025	0.025
K-T	mg/L	0.374	0.377	0.345	0.173	0.258	5	0.377	0.305		
S-T	mg/L	29.4	27.2	25.9	4.4	9.7	5	29.4	19.3		
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001
Na-T	mg/L	10.6	10.5	9.35	2.37	4.04	5	10.6	7.37		
Sr-T	mg/L	0.229	0.240	0.213	0.0398	0.0803	5	0.240	0.1604		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033
Al-D	mg/L	0.0047	0.0044	0.0052	0.0458	0.0446	5	0.0458	0.0209	0.05	0.1
As-D	mg/L	0.00051	0.00047	0.00049	0.00034	0.00035	5	0.00051	0.00043		
Ba-D	mg/L	0.0063	0.0060	0.0060	0.0023	0.0038	5	0.0063	0.0049		
B-D	mg/L	0.077	0.085	0.068	<0.050	<0.050	5	0.085	0.0560		
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017
Ca-D	mg/L	34.5	30.7	31.7	7.94	13.3	5	34.5	23.63		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Cu-D	mg/L	0.00027	0.00028	0.00022	0.00056	0.00058	5	0.00058	0.00038	*	*
Hard-D	mg/L	103	93.0	95.2	25.2	41.5	5	103	71.6		
Fe-D	mg/L	0.0093	0.0090	0.0106	0.0674	0.0627	5	0.0674	0.0318		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Mg-D	mg/L	4.21	3.97	3.87	1.32	2.01	5	4.21	3.08		
Mn-D	mg/L	0.0026	0.0027	0.0022	0.0051	0.0095	5	0.0095	0.0044		
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
K-D	mg/L	0.377	0.367	0.384	0.182	0.259	5	0.384	0.314		
S-D	mg/L	28.0	26.9	26.0	4.3	10.1	5	28.0	19.1		
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050		
Na-D	mg/L	11.0	10.4	9.96	2.44	4.30	5	11.0	7.62		
Sr-D	mg/L	0.246	0.221	0.218	0.0404	0.0797	5	0.246	0.1610		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		
N-NO2	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.02	0.06
N-NO3	mg/L	<0.020	<0.020	<0.020	<0.020	0.067	5	0.067	0.0214	3	32.8
N-NO23	mg/L	<0.020	<0.020	<0.020	<0.020	0.067	5	0.067	0.0214		
P-T	mg/L	<0.0030	<0.0030	<0.0030	0.0052	0.0046	5	0.0052	0.00286		
P-D	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	5	<0.0030	0.00150		
DOC	mg/L	2.1	2.4	2.0	4.5	4.6	5	4.6	3.1		
Chlr-a	ug/L	0.79					1	0.79	0.79		

Notes: *Copper is a variable guideline. See Exceedance Table.

Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 47 Summer and Fall Lakes 18 Page(s)

EMS ID	E206619						Count	Water Quality Guidelines			
StnName	Long Lake Middle 4 Metre							Maximum	5 in 30 Ave	Average	Max
StnCode	LLM4										
Date	Unit	6-Oct-21	13-Oct-21	19-Oct-21	27-Oct-21	2-Nov-21					
SO4-D	mg/L	94	90	81	13	38	5	94	63.2	128	
Turb	NTU	0.25	0.35	0.20	0.73	0.63	5	0.73	0.43		
Alk-T	mg/L	46	44	40	13	21	5	46	32.8		
Al-T	mg/L	0.0058	0.0058	0.0074	0.0601	0.0620	5	0.0620	0.0282		
As-T	mg/L	0.00052	0.00051	0.00047	0.00034	0.00038	5	0.00052	0.00044		0.005
Ba-T	mg/L	0.0064	0.0065	0.0058	0.0023	0.0039	5	0.0065	0.0050	1	5
B-T	mg/L	0.079	0.080	0.068	<0.050	<0.050	5	0.080	0.0554	1.2	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050		
Ca-T	mg/L	35.3	32.4	30.2	7.24	13.7	5	35.3	23.77		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	0.00057	0.00058	5	0.00058	0.000380		
Hard-T	mg/L	105	97.5	90.8	23.0	42.9	5	105	71.8		
Fe-T	mg/L	0.018	0.020	0.024	0.097	0.096	5	0.097	0.051		1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763
Mg-T	mg/L	4.07	4.04	3.72	1.19	2.08	5	4.07	3.02		
Mn-T	mg/L	0.0098	0.0118	0.0095	0.0068	0.0123	5	0.0123	0.0100	0.737	0.8706
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019	0.0000027	<0.0000019	5	0.0000027	0.00000130	0.00002	0.00001
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1	2
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025	0.025
K-T	mg/L	0.388	0.374	0.343	0.168	0.261	5	0.388	0.307		
S-T	mg/L	29.7	26.1	25.4	3.8	10.2	5	29.7	19.0		
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001
Na-T	mg/L	10.6	10.6	9.49	2.18	4.10	5	10.6	7.39		
Sr-T	mg/L	0.232	0.245	0.206	0.0355	0.0807	5	0.245	0.1598		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033
Al-D	mg/L	0.0050	0.0054	0.0052	0.0473	0.0456	5	0.0473	0.0217	0.05	0.1
As-D	mg/L	0.00054	0.00047	0.00047	0.00033	0.00034	5	0.00054	0.00043		
Ba-D	mg/L	0.0062	0.0062	0.0059	0.0022	0.0039	5	0.0062	0.0049		
B-D	mg/L	0.074	0.082	0.067	<0.050	<0.050	5	0.082	0.0546		
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017
Ca-D	mg/L	33.9	31.7	31.2	7.11	13.4	5	33.9	23.46		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Cu-D	mg/L	0.00026	0.00026	0.00021	0.00057	0.00061	5	0.00061	0.00038	*	*
Hard-D	mg/L	101	95.4	93.6	22.8	41.9	5	101	70.9		
Fe-D	mg/L	0.0093	0.0097	0.0109	0.0667	0.0654	5	0.0667	0.0324		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Mg-D	mg/L	4.09	3.96	3.80	1.21	2.04	5	4.09	3.02		
Mn-D	mg/L	0.0028	0.0028	0.0020	0.0048	0.0096	5	0.0096	0.0044		
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	0.0000028	0.0000019	5	0.0000028	0.00000151		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
K-D	mg/L	0.376	0.366	0.377	0.169	0.260	5	0.377	0.310		
S-D	mg/L	28.1	27.3	25.2	3.7	9.7	5	28.1	18.8		
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050		
Na-D	mg/L	11.0	10.2	9.71	2.19	4.27	5	11.0	7.47		
Sr-D	mg/L	0.248	0.221	0.213	0.0350	0.0786	5	0.248	0.1591		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		
N-NO2	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.02	0.06
N-NO3	mg/L	<0.020	<0.020	<0.020	<0.020	0.025	5	0.025	0.0130	3	32.8
N-NO23	mg/L	<0.020	<0.020	<0.020	<0.020	0.025	5	0.025	0.0130		
P-T	mg/L	<0.0030	<0.0030	<0.0030	0.0045	0.0038	5	0.0045	0.00256		
P-D	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	5	<0.0030	0.00150		
DOC	mg/L	2.3	2.2	3.0	4.4	4.6	5	4.6	3.3		

Notes: *Copper is a variable guideline. See Exceedance Table.

Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 47 Summer and Fall Lakes 18 Page(s)

EMS ID	E206619							Water Quality Guidelines				
StnName	Long Lake Middle 9 Metre							Count	Maximum	5 in 30 Ave	Average	Max
StnCode	LLM9											
Date	Unit	6-Oct-21	13-Oct-21	19-Oct-21	27-Oct-21	2-Nov-21						
SO4-D	mg/L	110	100	83	71	33	5	110	79.4	128		
Turb	NTU	0.23	0.23	0.31	1.4	0.53	5	1.4	0.54			
Alk-T	mg/L	54	48	42	29	21	5	54	38.8			
Al-T	mg/L	0.0070	0.0072	0.0079	0.0660	0.0681	5	0.0681	0.0312			
As-T	mg/L	0.00022	0.00031	0.00047	0.00044	0.00042	5	0.00047	0.00037		0.005	
Ba-T	mg/L	0.0055	0.0061	0.0063	0.0064	0.0043	5	0.0064	0.0057	1	5	
B-T	mg/L	0.088	0.090	0.076	0.061	<0.050	5	0.090	0.0680	1.2		
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			
Ca-T	mg/L	34.9	36.6	31.6	24.1	15.8	5	36.6	28.6			
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	0.00053	0.00062	5	0.00062	0.000380			
Hard-T	mg/L	104	109	95.0	73.7	49.0	5	109	86.1			
Fe-T	mg/L	0.020	0.022	0.026	0.108	0.103	5	0.108	0.056		1	
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763	
Mg-T	mg/L	4.02	4.24	3.93	3.30	2.35	5	4.24	3.57			
Mn-T	mg/L	0.0804	0.0748	0.0117	0.0212	0.0149	5	0.0804	0.0406	0.737	0.8706	
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019	0.0000021	<0.0000019	5	0.0000021	0.00000118	0.00002	0.00001	
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1	2	
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025	0.025	
K-T	mg/L	0.435	0.436	0.365	0.406	0.285	5	0.436	0.385			
S-T	mg/L	30.9	30.2	27.8	21.1	11.8	5	30.9	24.4			
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	
Na-T	mg/L	12.7	12.8	10.1	7.25	4.75	5	12.8	9.52			
Sr-T	mg/L	0.267	0.291	0.225	0.159	0.0973	5	0.291	0.2079			
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	
Al-D	mg/L	0.0067	0.0066	0.0053	0.0375	0.0427	5	0.0427	0.0198	0.05	0.1	
As-D	mg/L	0.00026	0.00025	0.00048	0.00039	0.00035	5	0.00048	0.00035			
Ba-D	mg/L	0.0061	0.0058	0.0061	0.0061	0.0039	5	0.0061	0.0056			
B-D	mg/L	0.090	0.096	0.071	0.061	<0.050	5	0.096	0.0686			
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	
Ca-D	mg/L	38.8	36.2	32.5	24.3	14.6	5	38.8	29.3			
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			
Cu-D	mg/L	0.00030	0.00032	0.00021	0.00050	0.00057	5	0.00057	0.00038	*	*	
Hard-D	mg/L	115	108	97.1	74.4	45.3	5	115	88.0			
Fe-D	mg/L	0.0152	0.0143	0.0130	0.0633	0.0660	5	0.0660	0.0344		0.35	
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			
Mg-D	mg/L	4.27	4.19	3.85	3.34	2.17	5	4.27	3.56			
Mn-D	mg/L	0.0795	0.0708	0.0043	0.0169	0.0112	5	0.0795	0.0365			
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095			
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			
K-D	mg/L	0.433	0.443	0.376	0.412	0.264	5	0.443	0.386			
S-D	mg/L	33.0	31.3	26.4	20.8	11.2	5	33.0	24.5			
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			
Na-D	mg/L	13.4	13.1	9.72	7.32	4.43	5	13.4	9.59			
Sr-D	mg/L	0.296	0.266	0.223	0.162	0.0877	5	0.296	0.2069			
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250			
N-NO2	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.02	0.06	
N-NO3	mg/L	0.025	0.022	<0.020	<0.020	<0.020	5	0.025	0.0154	3	32.8	
N-NO23	mg/L	0.025	0.022	<0.020	<0.020	<0.020	5	0.025	0.0154			
P-T	mg/L	<0.0030	<0.0030	<0.0030	0.0045	<0.0030	5	0.0045	0.00210			
P-D	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	5	<0.0030	0.00150			
DOC	mg/L	2.1	2.6	2.2	4.0	4.6	5	4.6	3.1			

Notes: *Copper is a variable guideline. See Exceedance Table.

Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 47 Summer and Fall Lakes 18 Page(s)

EMS ID	E206619						Count	Water Quality Guidelines			
StnName	Long Lake Middle 1 Metre from Bottom							Maximum	5 in 30 Ave	Average	Max
StnCode	LLM 1MB										
Date	Unit	6-Oct-21	13-Oct-21	19-Oct-21	27-Oct-21	2-Nov-21					
SO4-D	mg/L	100	120	110	110	73	5	120	102.6	128	
Turb	NTU	0.46	1.6	0.64	0.93	0.53	5	1.6	0.83		
Alk-T	mg/L	46	55	52	49	41	5	55	48.6		
Al-T	mg/L	0.0075	0.0063	0.0069	0.0072	0.0341	5	0.0341	0.0124		
As-T	mg/L	0.00030	0.00025	0.00024	0.00024	0.00029	5	0.00030	0.00026		0.005
Ba-T	mg/L	0.0058	0.0076	0.0076	0.0077	0.0060	5	0.0077	0.0069	1	5
B-T	mg/L	0.096	0.097	0.092	0.090	0.069	5	0.097	0.089	1.2	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050		
Ca-T	mg/L	38.4	38.3	37.6	36.1	25.2	5	38.4	35.1		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	5	<0.00050	0.000250		
Hard-T	mg/L	114	114	112	107	76.0	5	114	104.6		
Fe-T	mg/L	0.020	0.036	0.032	0.052	0.069	5	0.069	0.042		1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763
Mg-T	mg/L	4.39	4.40	4.31	3.99	3.15	5	4.40	4.05		
Mn-T	mg/L	0.402	1.97	1.34	1.71	0.683	5	1.97	1.221	0.737	0.8706
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095	0.00002	0.00001
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1	2
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025	0.025
K-T	mg/L	0.477	0.484	0.502	0.460	0.368	5	0.502	0.458		
S-T	mg/L	33.2	33.8	34.0	30.8	21.4	5	34.0	30.6		
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001
Na-T	mg/L	13.6	14.2	13.5	12.5	8.70	5	14.2	12.50		
Sr-T	mg/L	0.293	0.321	0.300	0.275	0.182	5	0.321	0.274		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033
Al-D	mg/L	0.0049	0.0037	0.0045	0.0039	0.0243	5	0.0243	0.0083	0.05	0.1
As-D	mg/L	0.00026	0.00019	0.00022	0.00020	0.00025	5	0.00026	0.00022		
Ba-D	mg/L	0.0051	0.0062	0.0065	0.0073	0.0053	5	0.0073	0.0061		
B-D	mg/L	0.088	0.095	0.087	0.097	0.062	5	0.097	0.086		
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017
Ca-D	mg/L	38.4	37.8	40.1	37.6	24.7	5	40.1	35.7		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Cu-D	mg/L	0.00028	0.00030	0.00023	0.00030	0.00041	5	0.00041	0.00030	*	*
Hard-D	mg/L	114	112	118	111	74.4	5	118	105.9		
Fe-D	mg/L	0.0073	0.0059	0.0058	0.0113	0.0362	5	0.0362	0.0133		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Mg-D	mg/L	4.27	4.38	4.28	4.26	3.08	5	4.38	4.05		
Mn-D	mg/L	0.292	1.66	1.15	1.70	0.638	5	1.70	1.088		
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
K-D	mg/L	0.440	0.486	0.514	0.475	0.363	5	0.514	0.456		
S-D	mg/L	32.4	32.7	33.1	32.1	21.3	5	33.1	30.3		
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050		
Na-D	mg/L	13.3	13.9	13.7	13.5	8.84	5	13.9	12.65		
Sr-D	mg/L	0.296	0.290	0.306	0.287	0.177	5	0.306	0.271		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		
N-NO2	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.02	0.06
N-NO3	mg/L	0.066	0.111	0.106	0.108	0.062	5	0.111	0.091	3	32.8
N-NO23	mg/L	0.066	0.111	0.106	0.108	0.062	5	0.111	0.091		
P-T	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	5	<0.0030	0.00150		
P-D	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	5	<0.0030	0.00150		
DOC	mg/L	1.9	2.1	1.4	2.0	3.3	5	3.3	2.1		

Notes: *Copper is a variable guideline. See Exceedance Table.

Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 47 Summer and Fall Lakes 18 Page(s)

EMS ID	E206618 Middle Quinsam Lake 1 Metre MQL1						Count	Water Quality Guidelines			
StnName StnCode	Unit	6-Oct-21	13-Oct-21	19-Oct-21	27-Oct-21	2-Nov-21		Maximum	5 in 30 Ave	Average	Max
SO4-D	mg/L	46	49	39	48	39	5	49	44.2	128	
Turb	NTU	0.25	0.29	0.24	0.35	0.47	5	0.47	0.32		
Alk-T	mg/L	45	46	44	38	36	5	46	41.8		
Al-T	mg/L	0.0091	0.0094	0.0094	0.0178	0.0216	5	0.0216	0.0135		
As-T	mg/L	0.00018	0.00016	0.00015	0.00017	0.00010	5	0.00018	0.00015		0.005
Ba-T	mg/L	0.0020	0.0021	0.0020	0.0025	0.0024	5	0.0025	0.0022	1	5
B-T	mg/L	0.064	0.071	0.055	0.058	0.058	5	0.071	0.061	1.2	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050		
Ca-T	mg/L	13.5	13.2	12.6	12.5	12.9	5	13.5	12.9		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	0.00055	5	0.00055	0.000310		
Hard-T	mg/L	41.3	40.3	38.3	38.3	39.9	5	41.3	39.6		
Fe-T	mg/L	0.042	0.046	0.040	0.054	0.052	5	0.054	0.047		1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763
Mg-T	mg/L	1.84	1.78	1.64	1.73	1.85	5	1.85	1.77		
Mn-T	mg/L	0.0114	0.0087	0.0066	0.0083	0.0075	5	0.0114	0.0085	0.737	0.8706
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095	0.00002	0.00001
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1	2
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025	0.025
K-T	mg/L	0.301	0.289	0.259	0.297	0.313	5	0.313	0.292		
S-T	mg/L	14.1	12.9	12.0	13.0	13.3	5	14.1	13.1		
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001
Na-T	mg/L	20.6	19.1	17.0	17.3	17.7	5	20.6	18.3		
Sr-T	mg/L	0.0786	0.0810	0.0769	0.0778	0.0777	5	0.0810	0.0784		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033
Al-D	mg/L	0.0071	0.0071	0.0069	0.0126	0.0169	5	0.0169	0.0101	0.05	0.1
As-D	mg/L	0.00017	0.00014	0.00017	0.00016	0.00011	5	0.00017	0.00015		
Ba-D	mg/L	0.0020	0.0020	0.0021	0.0023	0.0025	5	0.0025	0.0022		
B-D	mg/L	0.063	0.059	0.053	0.055	0.055	5	0.063	0.057		
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017
Ca-D	mg/L	13.7	12.6	13.3	12.7	12.4	5	13.7	12.9		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Cu-D	mg/L	0.00041	0.00041	0.00036	0.00039	0.00046	5	0.00046	0.00041	*	*
Hard-D	mg/L	41.6	38.4	40.1	38.9	38.1	5	41.6	39.4		
Fe-D	mg/L	0.0237	0.0266	0.0231	0.0304	0.0297	5	0.0304	0.0267		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Mg-D	mg/L	1.80	1.70	1.68	1.76	1.75	5	1.80	1.74		
Mn-D	mg/L	0.0014	0.0013	0.0016	0.0028	0.0024	5	0.0028	0.0019		
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
K-D	mg/L	0.296	0.274	0.277	0.292	0.304	5	0.304	0.289		
S-D	mg/L	14.6	12.7	12.4	12.7	13.6	5	14.6	13.2		
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050		
Na-D	mg/L	20.9	18.2	17.9	17.9	16.4	5	20.9	18.3		
Sr-D	mg/L	0.0846	0.0776	0.0794	0.0745	0.0779	5	0.0846	0.0788		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		
Chlr-a	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		
N-NO2	mg/L	<0.020	<0.020	0.021	<0.020	0.040	5	0.040	0.0182	0.02	0.06
N-NO3	mg/L	<0.020	<0.020	0.021	<0.020	0.040	5	0.040	0.0182	3	32.8
N-NO23	mg/L	0.0086	<0.0030	<0.0030	<0.0030	<0.0030	5	0.0086	0.00292		
P-T	mg/L	<0.0030	0.0046	<0.0030	<0.0030	<0.0030	5	0.0046	0.00212		
P-D	mg/L	2.5	1.6	1.7	2.4	2.7	5	2.7	2.2		
DOC	mg/L	1.1					1	1.1	1.1		

Notes: *Copper is a variable guideline. See Exceedance Table.

Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 47 Summer and Fall Lakes 18 Page(s)

EMS ID	E206618 Middle Quinsam Lake 4 Metre MQL4						Count	Water Quality Guidelines			
StnName StnCode	Unit	6-Oct-21	13-Oct-21	19-Oct-21	27-Oct-21	2-Nov-21		Maximum	5 in 30 Ave	Average	Max
SO4-D	mg/L	47	44	43	48	38	5	48	44.0	128	
Turb	NTU	0.25	0.23	0.23	0.38	0.48	5	0.48	0.31		
Alk-T	mg/L	45	46	46	37	37	5	46	42.2		
Al-T	mg/L	0.0089	0.0098	0.0092	0.0178	0.0213	5	0.0213	0.0134		
As-T	mg/L	0.00017	0.00014	0.00015	0.00015	0.00012	5	0.00017	0.00015		0.005
Ba-T	mg/L	0.0020	0.0020	0.0021	0.0023	0.0025	5	0.0025	0.0022	1	5
B-T	mg/L	0.064	0.060	0.056	0.059	0.060	5	0.064	0.060	1.2	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050		
Ca-T	mg/L	13.6	12.8	12.8	12.6	13.0	5	13.6	13.0		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	0.00053	5	0.00053	0.000306		
Hard-T	mg/L	41.2	39.2	38.7	38.7	40.1	5	41.2	39.6		
Fe-T	mg/L	0.038	0.045	0.041	0.055	0.054	5	0.055	0.047		1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763
Mg-T	mg/L	1.78	1.74	1.64	1.75	1.82	5	1.82	1.75		
Mn-T	mg/L	0.0096	0.0086	0.0068	0.0085	0.0074	5	0.0096	0.0082	0.737	0.8706
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095	0.00002	0.00001
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1	2
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025	0.025
K-T	mg/L	0.296	0.277	0.263	0.304	0.314	5	0.314	0.291		
S-T	mg/L	14.5	12.7	12.5	13.3	13.2	5	14.5	13.2		
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001
Na-T	mg/L	20.5	18.6	17.0	17.6	17.6	5	20.5	18.3		
Sr-T	mg/L	0.0779	0.0750	0.0772	0.0788	0.0777	5	0.0788	0.0773		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033
Al-D	mg/L	0.0065	0.0069	0.0071	0.0127	0.0160	5	0.0160	0.0098	0.05	0.1
As-D	mg/L	0.00018	0.00013	0.00017	0.00016	0.00011	5	0.00018	0.00015		
Ba-D	mg/L	0.0020	0.0020	0.0024	0.0023	0.0024	5	0.0024	0.0022		
B-D	mg/L	0.063	0.060	0.053	0.056	0.055	5	0.063	0.057		
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017
Ca-D	mg/L	13.5	12.8	13.0	12.7	12.3	5	13.5	12.9		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Cu-D	mg/L	0.00043	0.00041	0.00035	0.00038	0.00045	5	0.00045	0.00040	*	*
Hard-D	mg/L	41.1	39.0	39.3	39.3	38.0	5	41.1	39.3		
Fe-D	mg/L	0.0223	0.0259	0.0223	0.0313	0.0291	5	0.0313	0.0262		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Mg-D	mg/L	1.80	1.73	1.68	1.84	1.75	5	1.84	1.76		
Mn-D	mg/L	<0.0010	0.0011	0.0014	0.0027	0.0023	5	0.0027	0.00160		
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095		
Mo-D	mg/L	0.0028	0.0011	<0.0010	0.0018	<0.0010	5	0.0028	0.00134		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
K-D	mg/L	0.289	0.276	0.271	0.300	0.304	5	0.304	0.288		
S-D	mg/L	13.6	13.2	12.3	12.8	13.3	5	13.6	13.0		
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050		
Na-D	mg/L	20.6	18.3	17.7	18.2	16.5	5	20.6	18.3		
Sr-D	mg/L	0.0828	0.0773	0.0821	0.0755	0.0770	5	0.0828	0.0789		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		
N-NO2	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.02	0.06
N-NO3	mg/L	<0.020	<0.020	<0.020	<0.020	0.023	5	0.023	0.0126	3	32.8
N-NO23	mg/L	<0.020	<0.020	<0.020	<0.020	0.023	5	0.023	0.0126		
P-T	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	5	<0.0030	0.00150		
P-D	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	5	<0.0030	0.00150		
DOC	mg/L	2.4	1.4	1.7	2.4	2.4	5	2.4	2.1		

Notes: *Copper is a variable guideline. See Exceedance Table.

Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 47 Summer and Fall Lakes 18 Page(s)

EMS ID	E206618 Middle Quinsam Lake 9 Metre StnName StnCode MQ19							Water Quality Guidelines			
Date	Unit	6-Oct-21	13-Oct-21	19-Oct-21	27-Oct-21	2-Nov-21	Count	Maximum	5 in 30 Ave	Average	Max
SO4-D	mg/L	50	44	42	47	42	5	50	45.0	128	
Turb	NTU	0.22	0.34	0.25	0.36	0.33	5	0.36	0.30		
Alk-T	mg/L	44	45	43	38	38	5	45	41.6		
Al-T	mg/L	0.0084	0.0090	0.0105	0.0183	0.0218	5	0.0218	0.0136		
As-T	mg/L	0.00018	0.00014	0.00016	0.00016	0.00012	5	0.00018	0.00015		0.005
Ba-T	mg/L	0.0020	0.0020	0.0020	0.0023	0.0025	5	0.0025	0.0022	1	5
B-T	mg/L	0.066	0.058	0.057	0.061	0.061	5	0.066	0.061	1.2	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050		
Ca-T	mg/L	13.8	12.4	12.9	12.7	13.5	5	13.8	13.1		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	0.00055	5	0.00055	0.000310		
Hard-T	mg/L	41.6	38.0	39.1	38.6	41.3	5	41.6	39.7		
Fe-T	mg/L	0.039	0.045	0.044	0.054	0.058	5	0.058	0.048		1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763
Mg-T	mg/L	1.75	1.72	1.68	1.70	1.86	5	1.86	1.74		
Mn-T	mg/L	0.0103	0.0085	0.0066	0.0083	0.0076	5	0.0103	0.0083	0.737	0.8706
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095	0.00002	0.00001
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1	2
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025	0.025
K-T	mg/L	0.295	0.271	0.266	0.304	0.312	5	0.312	0.290		
S-T	mg/L	13.4	12.1	13.1	13.7	12.9	5	13.7	13.0		
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001
Na-T	mg/L	19.7	18.3	17.4	17.7	17.5	5	19.7	18.1		
Sr-T	mg/L	0.0791	0.0752	0.0797	0.0781	0.0776	5	0.0797	0.0779		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033
Al-D	mg/L	0.0068	0.0070	0.0066	0.0131	0.0163	5	0.0163	0.0100	0.05	0.1
As-D	mg/L	0.00016	0.00015	0.00017	0.00016	<0.00010	5	0.00017	0.000138		
Ba-D	mg/L	0.0021	0.0020	0.0020	0.0023	0.0024	5	0.0024	0.0022		
B-D	mg/L	0.062	0.058	0.053	0.056	0.054	5	0.062	0.057		
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017
Ca-D	mg/L	13.4	12.9	13.2	12.8	12.4	5	13.4	12.9		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Cu-D	mg/L	0.00044	0.00042	0.00037	0.00038	0.00048	5	0.00048	0.00042	*	*
Hard-D	mg/L	41.1	39.3	39.8	39.2	38.2	5	41.1	39.5		
Fe-D	mg/L	0.0231	0.0267	0.0222	0.0308	0.0302	5	0.0308	0.0266		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Mg-D	mg/L	1.82	1.72	1.64	1.78	1.76	5	1.82	1.74		
Mn-D	mg/L	<0.0010	0.0013	0.0014	0.0026	0.0026	5	0.0026	0.00168		
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	0.0000020	<0.0000019	5	0.0000020	0.00000116		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
K-D	mg/L	0.290	0.274	0.265	0.296	0.305	5	0.305	0.286		
S-D	mg/L	13.9	12.9	12.0	13.2	13.3	5	13.9	13.1		
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050		
Na-D	mg/L	21.0	18.3	17.5	18.0	16.4	5	21.0	18.2		
Sr-D	mg/L	0.0838	0.0771	0.0804	0.0771	0.0776	5	0.0838	0.0792		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		
N-NO2	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.02	0.06
N-NO3	mg/L	<0.020	0.054	<0.020	<0.020	<0.020	5	0.054	0.0188	3	32.8
N-NO23	mg/L	<0.020	0.054	<0.020	<0.020	<0.020	5	0.054	0.0188		
P-T	mg/L	<0.0030	0.0056	<0.0030	<0.0030	<0.0030	5	0.0056	0.00232		
P-D	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	5	<0.0030	0.00150		
DOC	mg/L	2.1	2.0	1.6	2.3	2.5	5	2.5	2.1		

Notes: *Copper is a variable guideline. See Exceedance Table.

Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 47 Summer and Fall Lakes 18 Page(s)

EMS ID	E206618 Middle Quinsam Lake 1 Metre from Bottom MQL 1MB						Count	Water Quality Guidelines			
StnName StnCode	Unit	6-Oct-21	13-Oct-21	19-Oct-21	27-Oct-21	2-Nov-21		Maximum	5 in 30 Ave	Average	Max
SO4-D	mg/L	44	42	41	46	42	5	46	43.0	128	
Turb	NTU	0.24	0.24	0.22	0.38	0.55	5	0.55	0.33		
Alk-T	mg/L	45	45	47	39	37	5	47	42.6		
Al-T	mg/L	0.0087	0.0091	0.0087	0.0187	0.0224	5	0.0224	0.0135		
As-T	mg/L	0.00015	0.00014	0.00015	0.00015	0.00012	5	0.00015	0.00014		0.005
Ba-T	mg/L	0.0020	0.0020	0.0020	0.0025	0.0024	5	0.0025	0.0022	1	5
B-T	mg/L	0.063	0.057	0.058	0.061	0.060	5	0.063	0.060	1.2	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050		
Ca-T	mg/L	13.1	12.3	12.8	12.9	12.8	5	13.1	12.8		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	0.00054	5	0.00054	0.000308		
Hard-T	mg/L	39.7	37.7	38.8	39.7	39.6	5	39.7	39.1		
Fe-T	mg/L	0.040	0.045	0.039	0.055	0.053	5	0.055	0.046		1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763
Mg-T	mg/L	1.71	1.66	1.64	1.80	1.86	5	1.86	1.73		
Mn-T	mg/L	0.0098	0.0087	0.0068	0.0086	0.0076	5	0.0098	0.0083	0.737	0.8706
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095	0.00002	0.00001
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1	2
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025	0.025
K-T	mg/L	0.279	0.263	0.259	0.310	0.310	5	0.310	0.284		
S-T	mg/L	12.9	12.2	12.3	14.1	13.6	5	14.1	13.0		
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001
Na-T	mg/L	19.0	17.6	16.9	18.1	17.7	5	19.0	17.9		
Sr-T	mg/L	0.0739	0.0745	0.0773	0.0814	0.0769	5	0.0814	0.0768		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033
Al-D	mg/L	0.0072	0.0068	0.0066	0.0130	0.0159	5	0.0159	0.0099	0.05	0.1
As-D	mg/L	0.00017	0.00014	0.00017	0.00016	0.00011	5	0.00017	0.00015		
Ba-D	mg/L	0.0020	0.0020	0.0021	0.0024	0.0023	5	0.0024	0.0022		
B-D	mg/L	0.061	0.058	0.053	0.056	0.054	5	0.061	0.056		
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017
Ca-D	mg/L	13.5	12.5	13.2	12.9	12.4	5	13.5	12.9		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Cu-D	mg/L	0.00041	0.00039	0.00035	0.00040	0.00047	5	0.00047	0.00040	*	*
Hard-D	mg/L	40.9	38.1	39.9	39.7	38.4	5	40.9	39.4		
Fe-D	mg/L	0.0268	0.0265	0.0232	0.0309	0.0298	5	0.0309	0.0274		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Mg-D	mg/L	1.75	1.69	1.69	1.83	1.77	5	1.83	1.75		
Mn-D	mg/L	0.0017	0.0015	0.0017	0.0028	0.0031	5	0.0031	0.0022		
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
K-D	mg/L	0.289	0.268	0.274	0.294	0.305	5	0.305	0.286		
S-D	mg/L	13.5	12.4	12.8	12.7	13.9	5	13.9	13.1		
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050		
Na-D	mg/L	20.1	17.9	18.4	18.2	16.4	5	20.1	18.2		
Sr-D	mg/L	0.0823	0.0785	0.0811	0.0756	0.0770	5	0.0823	0.0789		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		
N-NO2	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.02	0.06
N-NO3	mg/L	<0.020	<0.020	<0.020	<0.020	0.033	5	0.033	0.0146	3	32.8
N-NO23	mg/L	<0.020	<0.020	<0.020	<0.020	0.033	5	0.033	0.0146		
P-T	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	5	<0.0030	0.00150		
P-D	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	5	<0.0030	0.00150		
DOC	mg/L	2.2	0.94	1.3	2.6	2.4	5	2.6	1.89		

Notes: *Copper is a variable guideline. See Exceedance Table.

Factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 47 Summer and Fall Lakes 18 Page(s)

EMS ID	LLE Zone of Dilution 2						Count	Water Quality Guidelines			
StnName	LLEZ22							Maximum	5 in 30 Ave	Average	Max
Date	Unit	6-Oct-21	13-Oct-21	19-Oct-21	27-Oct-21	2-Nov-21					
SO4-D	mg/L	91	96	85	20	38	5	96	66.0	128	
Turb	NTU	0.20	0.21	0.24	0.67	0.61	5	0.67	0.39		
Alk-T	mg/L	42	45	44	16	18	5	45	33.0		
Al-T	mg/L	0.0055	0.0062	0.0069	0.0531	0.0606	5	0.0606	0.0265		
As-T	mg/L	0.00052	0.00052	0.00048	0.00037	0.00035	5	0.00052	0.00045		0.005
Ba-T	mg/L	0.0063	0.0061	0.0061	0.0026	0.0039	5	0.0063	0.0050	1	5
B-T	mg/L	0.078	0.078	0.074	<0.050	<0.050	5	0.078	0.0560	1.2	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050		
Ca-T	mg/L	33.5	32.2	31.0	9.16	13.5	5	33.5	23.87		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	0.00054	0.00058	5	0.00058	0.000374		
Hard-T	mg/L	101	97.2	93.3	28.8	41.8	5	101	72.4		
Fe-T	mg/L	0.017	0.020	0.020	0.093	0.095	5	0.095	0.049		1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763
Mg-T	mg/L	4.21	4.05	3.88	1.43	2.00	5	4.21	3.11		
Mn-T	mg/L	0.0094	0.0117	0.0089	0.0078	0.0120	5	0.0120	0.0100	0.737	0.8706
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019	0.0000020	<0.0000019	5	0.0000020	0.00000116	0.00002	0.00001
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1	2
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025	0.025
K-T	mg/L	0.397	0.371	0.361	0.187	0.255	5	0.397	0.314		
S-T	mg/L	29.2	26.8	27.5	6.0	9.7	5	29.2	19.8		
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001
Na-T	mg/L	11.1	10.7	10.1	2.83	4.07	5	11.1	7.76		
Sr-T	mg/L	0.239	0.244	0.219	0.0491	0.0799	5	0.244	0.1662		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033
Al-D	mg/L	0.0046	0.0045	0.0049	0.0396	0.0435	5	0.0435	0.0194	0.05	0.1
As-D	mg/L	0.00055	0.00047	0.00049	0.00037	0.00034	5	0.00055	0.00044		
Ba-D	mg/L	0.0065	0.0061	0.0062	0.0027	0.0038	5	0.0065	0.0051		
B-D	mg/L	0.076	0.078	0.072	<0.050	<0.050	5	0.078	0.0552		
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017
Ca-D	mg/L	34.6	32.1	33.0	9.45	13.7	5	34.6	24.57		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Cu-D	mg/L	0.00026	0.00028	0.00023	0.00055	0.00056	5	0.00056	0.00038	*	*
Hard-D	mg/L	104	96.7	98.8	29.6	42.6	5	104	74.3		
Fe-D	mg/L	0.0096	0.0088	0.0090	0.0633	0.0651	5	0.0651	0.0312		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Mg-D	mg/L	4.15	4.04	3.98	1.47	2.02	5	4.15	3.13		
Mn-D	mg/L	0.0023	0.0022	0.0014	0.0052	0.0095	5	0.0095	0.0041		
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	0.0000024	0.0000022	5	0.0000024	0.00000149		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
K-D	mg/L	0.388	0.367	0.402	0.193	0.257	5	0.402	0.321		
S-D	mg/L	28.2	27.7	28.1	5.6	10.4	5	28.2	20.0		
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050		
Na-D	mg/L	11.2	10.4	10.2	2.87	4.23	5	11.2	7.78		
Sr-D	mg/L	0.256	0.216	0.231	0.0511	0.0808	5	0.256	0.1670		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		
N-NO2	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.02	0.06
N-NO3	mg/L	<0.020	<0.020	<0.020	0.035	<0.020	5	0.035	0.0150	3	32.8
N-NO23	mg/L	<0.020	<0.020	<0.020	0.035	<0.020	5	0.035	0.0150		
P-T	mg/L	<0.0030	<0.0030	<0.0030	0.0048	0.0031	5	0.0048	0.00248		
P-D	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	0.0045	5	0.0045	0.00210		
DOC	mg/L	2.7	2.6	2.2	3.5	4.5	5	4.5	3.1		

Notes: *Copper is a variable guideline. See Exceedance Table.

Factor applied to less-than results when calculating statistics: 0.5

Table 48 Spring Rivers 8 Page(s)

Q1 (April 1st to June 30th, 2021)													
EMS ID		E217017								Water Quality Guidelines			
StnName		No Name Lake Outlet											
StnCode		NNO											
Date	Unit	6-Apr-21	13-Apr-21	19-Apr-21	26-Apr-21	3-May-21	Count	Maximum	5 in 30 Ave	Average	Maximum		
pH-F	pH Units	7.21	8.31	7.69	7.82	7.47	5	8.31	7.70		6.5 - 9.0		
Cond-F	uS/cm	32.3	167	38.7	62.3	86.4	5	167	77.34				
SO4-D	mg/L	2.7	2.2	1.2	2.3	2.2	5	2.7	2.1	128			
TSS	mg/L	1.2	<1.0	<1.0	<1.0	<1.0	5	1.2	0.64	5	25		
Alk-T	mg/L	12	12	12	11	12	5	12	11.8				
P-T	mg/L	0.0032	<0.0030	<0.0030	<0.0030	<0.0030	5	0.0032	0.00184	0.007			
Al-T	mg/L	0.0471	0.0324	0.0288	0.0273	0.0259	5	0.0471	0.0323				
As-T	mg/L	0.00022	0.00020	0.00020	0.00022	0.00022	5	0.00022	0.00021		0.005		
Ba-T	mg/L	0.0011	0.0011	0.0010	<0.0010	0.0011	5	0.0011	0.00096	1	5		
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2			
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050				
Ca-T	mg/L	3.68	3.58	3.76	4.13	3.77	5	4.13	3.78				
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050				
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11		
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	5	<0.00050	0.000250				
Hard-T	mg/L	12.6	12.3	12.8	13.7	12.8	5	13.7	12.8				
Fe-T	mg/L	0.100	0.062	0.053	0.065	0.063	5	0.100	0.069		1		
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763		
Mg-T	mg/L	0.825	0.808	0.820	0.825	0.825	5	0.825	0.821				
Mn-T	mg/L	0.0066	0.0035	0.0033	0.0045	0.0045	5	0.0066	0.0045	0.737	0.8706		
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095	0.00002	0.00001		
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1	2		
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025	0.025		
K-T	mg/L	0.104	0.057	0.057	0.052	0.056	5	0.104	0.065				
S-T	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50				
Se-T	mg/L	0.00017	<0.00010	<0.00010	<0.00010	<0.00010	5	0.00017	0.000074	0.002			
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001		
Na-T	mg/L	1.04	1.02	1.03	1.06	1.04	5	1.06	1.04				
Sr-T	mg/L	0.0113	0.0113	0.0118	0.0122	0.0122	5	0.0122	0.0118				
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033		
Al-D	mg/L	0.0283	0.0260	0.0262	0.0247	0.0201	5	0.0283	0.0251	0.05	0.1		
As-D	mg/L	0.00019	0.00020	0.00018	0.00023	0.00023	5	0.00023	0.00021				
Ba-D	mg/L	0.0010	0.0011	0.0010	0.0010	0.0010	5	0.0011	0.0010				
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250				
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017		
Ca-D	mg/L	3.53	3.60	3.83	3.80	3.91	5	3.91	3.73				
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050				
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100				
Cu-D	mg/L	0.00040	0.00042	0.00036	0.00033	0.00032	5	0.00042	0.00037	*	*		
Hard-D	mg/L	12.1	12.3	13.0	13.0	13.1	5	13.1	12.7				
DOC	mg/L	2.2	2.3	2.5	2.6	2.4	5	2.6	2.4				
Fe-D	mg/L	0.0392	0.0407	0.0401	0.0462	0.0471	5	0.0471	0.0427		0.35		
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100				
Mg-D	mg/L	0.791	0.797	0.842	0.850	0.814	5	0.850	0.819				
Mn-D	mg/L	0.0025	0.0023	0.0024	0.0032	0.0032	5	0.0032	0.0027				
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095				
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050				
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050				
K-D	mg/L	0.060	0.054	0.063	0.054	0.061	5	0.063	0.058				
S-D	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50				
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050				
Na-D	mg/L	1.04	1.01	1.07	1.05	1.05	5	1.07	1.04				
Sr-D	mg/L	0.0119	0.0114	0.0120	0.0122	0.0126	5	0.0126	0.0120				
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250				
Notes:													
Factor applied to less-than results when calculating statistics: 0.5													

Table 48 Spring Rivers 8 Page(s)

EMS ID	E219412									Water Quality Guidelines	
StnName	Long Lake Outlet										
StnCode	LLO										
Date	Unit	6-Apr-21	13-Apr-21	19-Apr-21	26-Apr-21	3-May-21	Count	Max	5 in 30 Ave	Average	Maximum
pH-F	pH Units	7.4	7.69	8.02	8.03	7.46	5	8.03	7.72		6.5 - 9.0
Cond-F	uS/cm	168.3	15.9	161.8	169	180.4	5	180.4	139.1		
SO4-D	mg/L	49	48	44	46	43	5	49	46.0	128	
TSS	mg/L	2.8	1.6	<1.0	<1.0	<1.0	5	2.8	1.18	5	25
Alk-T	mg/L	26	27	26	32	26	5	32	27.4		
P-T	mg/L	<0.0030	<0.0030	0.0030	<0.0030	<0.0030	5	0.0030	0.00180	0.007	
Al-T	mg/L	0.0274	0.0253	0.0246	0.0235	0.0197	5	0.0274	0.0241		
As-T	mg/L	0.00028	0.00031	0.00029	0.00034	0.00030	5	0.00034	0.00030		0.005
Ba-T	mg/L	0.0035	0.0038	0.0037	0.0041	0.0038	5	0.0041	0.0038	1	5
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050		
Ca-T	mg/L	18.1	19.3	17.4	18.6	17.0	5	19.3	18.1		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	5	<0.00050	0.000250	0.002	0.007
Hard-T	mg/L	54.8	57.9	52.8	56.5	51.7	5	57.9	54.7		
Fe-T	mg/L	0.068	0.070	0.062	0.063	0.056	5	0.070	0.064		1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763
Mg-T	mg/L	2.33	2.35	2.28	2.43	2.24	5	2.43	2.33		
Mn-T	mg/L	0.0105	0.0105	0.0098	0.0115	0.0095	5	0.0115	0.0104	0.737	0.8706
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095	0.00002	0.00001
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1	2
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	0.0014	<0.0010	5	0.0014	0.00068	0.025	0.025
K-T	mg/L	0.227	0.228	0.226	0.234	0.214	5	0.234	0.226		
S-T	mg/L	13.6	15.0	13.6	14.6	13.9	5	15.0	14.1		
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001
Na-T	mg/L	5.76	6.11	5.59	5.99	5.64	5	6.11	5.82		
Sr-T	mg/L	0.118	0.132	0.117	0.126	0.122	5	0.132	0.123		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033
Al-D	mg/L	0.0254	0.0191	0.0186	0.0162	0.0127	5	0.0254	0.0184	0.05	0.1
As-D	mg/L	0.00029	0.00028	0.00026	0.00030	0.00031	5	0.00031	0.00029		
Ba-D	mg/L	0.0037	0.0037	0.0036	0.0040	0.0040	5	0.0040	0.0038		
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250		
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017
Ca-D	mg/L	18.1	18.4	17.4	18.9	19.1	5	19.1	18.4		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Cu-D	mg/L	0.00032	0.00030	0.00046	0.00029	0.00028	5	0.00046	0.00033	*	*
Hard-D	mg/L	54.8	55.4	52.6	57.0	56.8	5	57.0	55.3		
DOC	mg/L	2.7	2.5	2.6	2.5	2.2	5	2.7	2.5		
Fe-D	mg/L	0.0455	0.0449	0.0401	0.0355	0.0342	5	0.0455	0.0400		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Mg-D	mg/L	2.35	2.32	2.26	2.37	2.23	5	2.37	2.31		
Mn-D	mg/L	0.0082	0.0067	0.0050	0.0052	0.0042	5	0.0082	0.0059		
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
K-D	mg/L	0.223	0.227	0.260	0.228	0.224	5	0.260	0.232		
S-D	mg/L	13.8	14.3	13.6	14.3	13.6	5	14.3	13.9		
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050		
Na-D	mg/L	5.89	6.05	5.67	5.98	5.68	5	6.05	5.85		
Sr-D	mg/L	0.123	0.126	0.115	0.132	0.128	5	0.132	0.125		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		
Notes:											
Factor applied to less-than results when calculating statistics: 0.5											

Table 48 Spring Rivers 8 Page(s)

EMS ID	E0126402									Water Quality Guidelines	
StnName	Quinsam River at Argonaut Road										
StnCode	WA										
Date	Unit	6-Apr-21	13-Apr-21	19-Apr-21	26-Apr-21	3-May-21	Count	Max	5 in 30 Ave	Average	Maximum
pH-F	pH Units	6.73	7.02	7.92	8.21	7.51	5	8.21	7.48		6.5 - 9.0
Cond-F	uS/cm	51.7	64.3	75	51.9	56.7	5	75	59.9		
SO4-D	mg/L	1.4	1.7	<1.0	21	1.6	5	21	5.24	128	
TSS	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	5	25
Alk-T	mg/L	22	22	22	21	21	5	22	21.6		
P-T	mg/L	0.0071	<0.0030	<0.0030	0.0061	<0.0030	5	0.0071	0.00354	0.007	
Al-T	mg/L	0.0157	0.0384	0.0233	0.0429	0.0479	5	0.0479	0.0336		
As-T	mg/L	<0.00010	0.00011	<0.00010	0.00011	<0.00010	5	0.00011	0.000074		0.005
Ba-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1	5
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050		
Ca-T	mg/L	6.84	7.08	6.87	7.26	6.89	5	7.26	6.99		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	0.0014	<0.0010	5	0.0014	0.00068		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11
Cu-T	mg/L	0.00057	0.00066	0.00053	0.00067	0.00064	5	0.00067	0.00061	0.002	0.007
Hard-T	mg/L	20.2	21.0	20.3	21.4	20.4	5	21.4	20.7		
Fe-T	mg/L	0.011	0.038	0.015	0.039	0.052	5	0.052	0.031		1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763
Mg-T	mg/L	0.757	0.802	0.769	0.807	0.774	5	0.807	0.782		
Mn-T	mg/L	<0.0010	0.0025	0.0013	0.0025	0.0030	5	0.0030	0.00196	0.737	0.8706
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095	0.00002	0.00001
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	0.0016	<0.0010	5	0.0016	0.00072	1	2
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	0.0059	<0.0010	5	0.0059	0.00158	0.025	0.025
K-T	mg/L	0.062	0.061	0.063	0.059	0.057	5	0.063	0.060		
S-T	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50		
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001
Na-T	mg/L	0.639	0.701	0.643	0.675	0.636	5	0.701	0.659		
Sr-T	mg/L	0.0112	0.0118	0.0116	0.0120	0.0115	5	0.0120	0.0116		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033
Al-D	mg/L	0.0140	0.0132	0.0180	0.0182	0.0139	5	0.0182	0.0155	0.05	0.1
As-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050		
Ba-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250		
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017
Ca-D	mg/L	6.77	6.87	7.02	6.93	6.90	5	7.02	6.90		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Cu-D	mg/L	0.00050	0.00050	0.00048	0.00052	0.00052	5	0.00052	0.00050	*	*
Hard-D	mg/L	20.1	20.3	20.7	20.5	20.4	5	20.7	20.4		
DOC	mg/L	1.5	1.5	1.9	1.5	1.6	5	1.9	1.6		
Fe-D	mg/L	0.0064	0.0060	0.0090	0.0078	0.0068	5	0.0090	0.0072		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Mg-D	mg/L	0.763	0.771	0.756	0.785	0.779	5	0.785	0.771		
Mn-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
K-D	mg/L	0.058	0.056	0.064	0.056	0.061	5	0.064	0.059		
S-D	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50		
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050		
Na-D	mg/L	0.678	0.659	0.668	0.656	0.643	5	0.678	0.661		
Sr-D	mg/L	0.0112	0.0114	0.0116	0.0118	0.0120	5	0.0120	0.0116		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		
Notes:											
Factor applied to less-than results when calculating statistics: 0.5											

Table 48 Spring Rivers 8 Page(s)

EMS ID	E0900504									Water Quality Guidelines	
StnName	Middle Quinsam Lake Outlet										
StnCode	WB										
Date	Unit	6-Apr-21	13-Apr-21	19-Apr-21	26-Apr-21	3-May-21	Count	Max	5 in 30 Ave	Average	Maximum
pH-F	pH Units	7.72	7.89	8.09	8.18	7.86	5	8.18	7.95		6.5 - 9.0
Cond-F	uS/cm	197.1	131.2	160.9	195.3	248	5	248	186.5		
SO4-D	mg/L	30	29	38	43	48	5	48	37.6	128	
TSS	mg/L	2.8	<1.0	<1.0	<1.0	<1.0	5	2.8	0.96	5	25
Alk-T	mg/L	29	32	35	38	38	5	38	34.4		
P-T	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	5	<0.0030	0.00150	0.007	
Al-T	mg/L	0.0151	0.0151	0.0164	0.0174	0.0149	5	0.0174	0.0158		
As-T	mg/L	0.00010	0.00012	0.00011	0.00014	0.00012	5	0.00014	0.00012		0.005
Ba-T	mg/L	0.0016	0.0017	0.0017	0.0022	0.0021	5	0.0022	0.0019	1	5
B-T	mg/L	<0.050	<0.050	<0.050	0.055	0.051	5	0.055	0.0362	1.2	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050		
Ca-T	mg/L	11.4	12.1	13.1	15.1	14.3	5	15.1	13.2		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11
Cu-T	mg/L	<0.00050	<0.00050	0.00051	0.00061	<0.00050	5	0.00061	0.000374	0.002	0.007
Hard-T	mg/L	34.6	36.4	39.5	45.8	43.2	5	45.8	39.9		
Fe-T	mg/L	0.032	0.030	0.031	0.034	0.034	5	0.034	0.032		1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763
Mg-T	mg/L	1.46	1.52	1.65	1.98	1.82	5	1.98	1.69		
Mn-T	mg/L	0.0047	0.0047	0.0050	0.0075	0.0071	5	0.0075	0.0058	0.737	0.8706
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095	0.00002	0.00001
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1	2
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	0.0028	<0.0010	5	0.0028	0.00096	0.025	0.025
K-T	mg/L	0.153	0.170	0.216	0.300	0.276	5	0.300	0.223		
S-T	mg/L	7.6	8.5	12.0	16.3	15.0	5	16.3	11.9		
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001
Na-T	mg/L	8.42	9.78	14.0	19.4	18.1	5	19.4	13.94		
Sr-T	mg/L	0.0535	0.0565	0.0733	0.0981	0.0969	5	0.0981	0.0757		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033
Al-D	mg/L	0.0134	0.0115	0.0145	0.0126	0.0111	5	0.0145	0.0126	0.05	0.1
As-D	mg/L	0.00011	0.00011	<0.00010	0.00014	0.00014	5	0.00014	0.000110		
Ba-D	mg/L	0.0017	0.0016	0.0017	0.0021	0.0022	5	0.0022	0.0019		
B-D	mg/L	<0.050	<0.050	<0.050	0.054	0.053	5	0.054	0.0364		
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017
Ca-D	mg/L	12.5	11.5	12.9	14.7	15.4	5	15.4	13.4		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Cu-D	mg/L	0.00053	0.00044	0.00047	0.00046	0.00047	5	0.00053	0.00047	*	*
Hard-D	mg/L	37.6	34.7	39.0	44.3	45.8	5	45.8	40.3		
DOC	mg/L	1.6	1.6	1.6	1.6	1.7	5	1.7	1.6		
Fe-D	mg/L	0.0207	0.0178	0.0252	0.0205	0.0218	5	0.0252	0.0212		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Mg-D	mg/L	1.53	1.45	1.67	1.82	1.79	5	1.82	1.65		
Mn-D	mg/L	0.0030	0.0026	0.0041	0.0055	0.0059	5	0.0059	0.0042		
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
K-D	mg/L	0.157	0.159	0.216	0.264	0.287	5	0.287	0.217		
S-D	mg/L	8.6	8.7	12.2	15.4	15.3	5	15.4	12.0		
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050		
Na-D	mg/L	8.73	9.78	13.8	18.2	17.8	5	18.2	13.66		
Sr-D	mg/L	0.0554	0.0541	0.0720	0.0954	0.101	5	0.101	0.0756		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		
Notes:											
Factor applied to less-than results when calculating statistics: 0.5											

Table 48 Spring Rivers 8 Page(s)

EMS ID	Quinsam River Downstream of Seepage Area and Groundwater Discharge Zone										Water Quality Guidelines
StnName											
StnCode	QRDS										
Date	Unit	6-Apr-21	13-Apr-21	19-Apr-21	26-Apr-21	3-May-21	Count	Max	5 in 30 Ave	Average	Maximum
pH-F	pH Units	7.6	7.54	7.88	7.53	8.07	5	8.07	7.72		6.5 - 9.0
Cond-F	uS/cm	195.8	159.4	146.7	170.3	205	5	205	175.4		
SO4-D	mg/L	35	33	42	54	50	5	54	42.8	128	
TSS	mg/L	<1.0	<1.0	<1.0	2.0	<1.0	5	2.0	0.80	5	25
Alk-T	mg/L	34	35	38	44	44	5	44	39.0		
P-T	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	5	<0.0030	0.00150	0.007	
Al-T	mg/L	0.0274	0.0197	0.0189	0.0199	0.0176	5	0.0274	0.0207		
As-T	mg/L	0.00053	0.00039	0.00034	0.00101	0.00032	5	0.00101	0.00052		0.005
Ba-T	mg/L	0.0024	0.0024	0.0023	0.0038	0.0024	5	0.0038	0.0027	1	5
B-T	mg/L	<0.050	<0.050	<0.050	0.085	0.059	5	0.085	0.0438	1.2	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050		
Ca-T	mg/L	11.9	11.9	13.1	15.4	14.6	5	15.4	13.4		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11
Cu-T	mg/L	0.00054	<0.00050	<0.00050	<0.00050	<0.00050	5	0.00054	0.000308	0.002	0.007
Hard-T	mg/L	36.3	36.1	39.8	46.8	43.9	5	46.8	40.6		
Fe-T	mg/L	0.104	0.060	0.041	0.066	0.047	5	0.104	0.064		1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763
Mg-T	mg/L	1.59	1.54	1.70	2.04	1.81	5	2.04	1.74		
Mn-T	mg/L	0.0113	0.0084	0.0073	0.0122	0.0070	5	0.0122	0.0092	0.737	0.8706
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095	0.00002	0.00001
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1	2
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025	0.025
K-T	mg/L	0.197	0.195	0.241	0.361	0.289	5	0.361	0.257		
S-T	mg/L	9.8	9.9	12.4	18.4	16.0	5	18.4	13.3		
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001
Na-T	mg/L	11.7	12.5	15.1	22.7	19.3	5	22.7	16.3		
Sr-T	mg/L	0.0603	0.0588	0.0769	0.110	0.0984	5	0.110	0.0809		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033
Al-D	mg/L	0.0121	0.0118	0.0137	0.0122	0.0105	5	0.0137	0.0121	0.05	0.1
As-D	mg/L	0.00037	0.00036	0.00031	0.00086	0.00031	5	0.00086	0.00044		
Ba-D	mg/L	0.0023	0.0023	0.0022	0.0035	0.0024	5	0.0035	0.0025		
B-D	mg/L	<0.050	<0.050	0.052	0.074	0.059	5	0.074	0.0470		
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017
Ca-D	mg/L	12.3	11.9	13.4	15.5	15.1	5	15.5	13.6		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Cu-D	mg/L	0.00043	0.00045	0.00047	0.00046	0.00042	5	0.00047	0.00045	*	*
Hard-D	mg/L	37.4	36.1	40.6	47.2	45.2	5	47.2	41.3		
DOC	mg/L	1.8	1.9	1.9	1.8	1.6	5	1.9	1.8		
Fe-D	mg/L	0.0203	0.0210	0.0226	0.0356	0.0190	5	0.0356	0.0237		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Mg-D	mg/L	1.62	1.54	1.73	2.05	1.79	5	2.05	1.75		
Mn-D	mg/L	0.0035	0.0033	0.0035	0.0088	0.0026	5	0.0088	0.0043		
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
K-D	mg/L	0.194	0.190	0.239	0.360	0.296	5	0.360	0.256		
S-D	mg/L	9.5	9.5	12.8	18.0	15.3	5	18.0	13.0		
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050		
Na-D	mg/L	11.9	12.3	15.4	22.1	19.5	5	22.1	16.2		
Sr-D	mg/L	0.0603	0.0595	0.0753	0.105	0.0972	5	0.105	0.0795		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		
Notes:											
Factor applied to less-than results when calculating statistics: 0.5											

Table 48 Spring Rivers 8 Page(s)

EMS ID	E286930									Water Quality Guidelines	
StnName	Quinsam River Downstream Site 1										
StnCode	QRDS1										
Date	Unit	6-Apr-21	13-Apr-21	19-Apr-21	26-Apr-21	3-May-21	Count	Max	5 in 30 Ave	Average	Maximum
pH-F	pH Units	7.6	7.53	8.07	8.28	7.59	5	8.28	7.81		6.5 - 9.0
Cond-F	uS/cm	195.8	170.3	205	225	245	5	245	208.2		
SO4-D	mg/L	40	29	47	48	55	5	55	43.8	128	
TSS	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	5	25
Alk-T	mg/L	37	37	43	40	43	5	43	40.0		
P-T	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	5	<0.0030	0.00150	0.007	
Al-T	mg/L	0.0159	0.0185	0.0189	0.0210	0.0181	5	0.0210	0.0185		
As-T	mg/L	0.00104	0.00110	0.00103	0.00037	0.00084	5	0.00110	0.00088		0.005
Ba-T	mg/L	0.0039	0.0039	0.0037	0.0025	0.0036	5	0.0039	0.0035	1	5
B-T	mg/L	0.052	0.058	0.061	0.060	0.071	5	0.071	0.060	1.2	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050		
Ca-T	mg/L	13.4	13.7	14.1	15.1	15.8	5	15.8	14.4		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11
Cu-T	mg/L	0.00059	0.00056	<0.00050	0.00050	<0.00050	5	0.00059	0.000430	0.002	0.007
Hard-T	mg/L	41.0	41.5	43.1	45.4	48.0	5	48.0	43.8		
Fe-T	mg/L	0.059	0.066	0.066	0.046	0.059	5	0.066	0.059		1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763
Mg-T	mg/L	1.82	1.79	1.91	1.84	2.04	5	2.04	1.88		
Mn-T	mg/L	0.0108	0.0117	0.0122	0.0070	0.0106	5	0.0122	0.0105	0.737	0.8706
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095	0.00002	0.00001
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1	2
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025	0.025
K-T	mg/L	0.263	0.273	0.305	0.292	0.354	5	0.354	0.297		
S-T	mg/L	11.6	12.0	14.5	16.2	18.3	5	18.3	14.5		
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001
Na-T	mg/L	14.6	15.5	18.1	19.3	22.7	5	22.7	18.0		
Sr-T	mg/L	0.0791	0.0837	0.0933	0.0929	0.116	5	0.116	0.0930		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033
Al-D	mg/L	0.0118	0.0109	0.0114	0.0134	0.0096	5	0.0134	0.0114	0.05	0.1
As-D	mg/L	0.00100	0.00099	0.00090	0.00033	0.00079	5	0.00100	0.00080		
Ba-D	mg/L	0.0039	0.0036	0.0036	0.0025	0.0036	5	0.0039	0.0034		
B-D	mg/L	0.053	0.056	0.064	0.060	0.075	5	0.075	0.062		
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017
Ca-D	mg/L	13.0	13.1	14.2	14.7	16.2	5	16.2	14.2		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Cu-D	mg/L	0.00043	0.00046	0.00041	0.00044	0.00042	5	0.00046	0.00043	*	*
Hard-D	mg/L	40.1	40.0	43.5	44.4	48.7	5	48.7	43.3		
DOC	mg/L	1.7	1.9	2.2	1.8	1.6	5	2.2	1.8		
Fe-D	mg/L	0.0350	0.0408	0.0365	0.0198	0.0348	5	0.0408	0.0334		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Mg-D	mg/L	1.88	1.76	1.94	1.86	2.01	5	2.01	1.89		
Mn-D	mg/L	0.0090	0.0090	0.0091	0.0031	0.0079	5	0.0091	0.0076		
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
K-D	mg/L	0.255	0.257	0.302	0.281	0.349	5	0.349	0.289		
S-D	mg/L	11.7	12.2	14.9	15.4	17.2	5	17.2	14.3		
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050		
Na-D	mg/L	15.1	15.3	18.8	19.3	21.7	5	21.7	18.0		
Sr-D	mg/L	0.0766	0.0812	0.0929	0.0956	0.117	5	0.117	0.0927		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		
Notes:											
Factor applied to less-than results when calculating statistics: 0.5											

Table 48 Spring Rivers 8 Page(s)

EMS ID	E292113									Water Quality Guidelines	
StnName	7 South Quinsam River										
StnCode	75QR										
Date	Unit	6-Apr-21	13-Apr-21	19-Apr-21	26-Apr-21	3-May-21	Count	Max	5 in 30 Ave	Average	Maximum
pH-F	pH Units	7.19	7.73	8.15	8.04	7.26	5	8.15	7.67		6.5 - 9.0
Cond-F	uS/cm	161.1	164.5	235	648	237	5	648	289.1		
SO4-D	mg/L	40	43	43	46	52	5	52	44.8	128	
TSS	mg/L	1.6	<1.0	<1.0	<1.0	<1.0	5	1.6	0.72	5	25
Alk-T	mg/L	37	38	40	43	44	5	44	40.4		
P-T	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	5	<0.0030	0.00150	0.007	
Al-T	mg/L	0.0205	0.0177	0.0261	0.0281	0.0241	5	0.0281	0.0233		
As-T	mg/L	0.00094	0.00098	0.00093	0.00092	0.00081	5	0.00098	0.00092		0.005
Ba-T	mg/L	0.0038	0.0038	0.0039	0.0041	0.0039	5	0.0041	0.0039	1	5
B-T	mg/L	0.052	0.057	0.062	0.068	0.068	5	0.068	0.061	1.2	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050		
Ca-T	mg/L	13.2	13.4	14.1	15.0	16.0	5	16.0	14.3		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	0.0022	<0.0010	5	0.0022	0.00084		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11
Cu-T	mg/L	0.00051	<0.00050	<0.00050	0.00059	0.00058	5	0.00059	0.000436	0.002	0.007
Hard-T	mg/L	40.4	40.7	42.9	46.0	48.2	5	48.2	43.6		
Fe-T	mg/L	0.089	0.084	0.101	0.113	0.107	5	0.113	0.099		1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763
Mg-T	mg/L	1.81	1.77	1.89	2.07	2.03	5	2.07	1.91		
Mn-T	mg/L	0.0090	0.0085	0.0086	0.0105	0.0094	5	0.0105	0.0092	0.737	0.8706
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095	0.00002	0.00001
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	0.0025	<0.0010	5	0.0025	0.00090	1	2
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	0.0099	0.0031	5	0.0099	0.00290	0.025	0.025
K-T	mg/L	0.249	0.251	0.293	0.354	0.348	5	0.354	0.299		
S-T	mg/L	10.8	11.6	14.2	17.3	17.2	5	17.3	14.2		
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001
Na-T	mg/L	14.1	15.2	17.7	21.8	22.1	5	22.1	18.2		
Sr-T	mg/L	0.0769	0.0819	0.0897	0.105	0.114	5	0.114	0.0935		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033
Al-D	mg/L	0.0125	0.0134	0.0111	0.0118	0.0094	5	0.0134	0.0116	0.05	0.1
As-D	mg/L	0.00090	0.00090	0.00087	0.00080	0.00075	5	0.00090	0.00084		
Ba-D	mg/L	0.0038	0.0037	0.0039	0.0040	0.0038	5	0.0040	0.0038		
B-D	mg/L	0.052	0.058	0.063	0.071	0.067	5	0.071	0.062		
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017
Ca-D	mg/L	13.2	13.1	14.2	15.6	15.7	5	15.7	14.4		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Cu-D	mg/L	0.00045	0.00045	0.00039	0.00045	0.00041	5	0.00045	0.00043	*	*
Hard-D	mg/L	40.5	40.0	43.4	47.4	47.4	5	47.4	43.7		
DOC	mg/L	1.4	1.9	1.9	1.9	1.6	5	1.9	1.7		
Fe-D	mg/L	0.0599	0.0614	0.0562	0.0642	0.0592	5	0.0642	0.0602		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Mg-D	mg/L	1.86	1.76	1.92	2.08	1.96	5	2.08	1.92		
Mn-D	mg/L	0.0080	0.0076	0.0070	0.0075	0.0069	5	0.0080	0.0074		
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
K-D	mg/L	0.256	0.255	0.297	0.340	0.350	5	0.350	0.300		
S-D	mg/L	11.8	11.7	14.7	16.7	16.3	5	16.7	14.2		
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050		
Na-D	mg/L	14.4	15.1	18.1	21.7	21.2	5	21.7	18.1		
Sr-D	mg/L	0.0760	0.0809	0.0910	0.108	0.107	5	0.108	0.0926		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		
Notes:											
Factor applied to less-than results when calculating statistics: 0.5											

Table 48 Spring Rivers 8 Page(s)

EMS ID	E299256									Water Quality Guidelines	
StnName	Iron River & Quinsam River										
StnCode	IRQR										
Date	Unit	6-Apr-21	13-Apr-21	19-Apr-21	26-Apr-21	3-May-21	Count	Max	5 in 30 Ave	Average	Maximum
pH-F	pH Units	7.26	8.03	8.05	8.06	7.43	5	8.06	7.77		6.5 - 9.0
Cond-F	uS/cm	134.4	143.5	118.9	167	167.4	5	167.4	146.2		
SO4-D	mg/L	29	41	19	26	29	5	41	28.8	128	
TSS	mg/L	1.2	<1.0	<1.0	<1.0	<1.0	5	1.2	0.64	5	25
Alk-T	mg/L	35	38	35	34	36	5	38	35.6		
P-T	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	5	<0.0030	0.00150	0.007	
Al-T	mg/L	0.0240	0.0218	0.0727	0.0519	0.0406	5	0.0727	0.0422		
As-T	mg/L	0.00100	0.00104	0.00076	0.00072	0.00076	5	0.00104	0.00086		0.005
Ba-T	mg/L	0.0040	0.0041	0.0036	0.0035	0.0036	5	0.0041	0.0038	1	5
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2	
Cd-T	mg/L	<0.000010	<0.000010	0.000010	0.000011	<0.000010	5	0.000011	0.0000072		
Ca-T	mg/L	12.6	13.0	11.8	11.9	12.8	5	13.0	12.4		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	0.0016	0.0017	5	0.0017	0.00096		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11
Cu-T	mg/L	0.00050	<0.00050	0.00065	0.00065	0.00068	5	0.00068	0.000546	0.002	0.007
Hard-T	mg/L	37.9	39.0	34.5	35.3	37.7	5	39.0	36.9		
Fe-T	mg/L	0.070	0.069	0.084	0.077	0.076	5	0.084	0.075		1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763
Mg-T	mg/L	1.55	1.60	1.21	1.32	1.41	5	1.60	1.42		
Mn-T	mg/L	0.0064	0.0066	0.0048	0.0051	0.0054	5	0.0066	0.0057	0.737	0.8706
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095	0.00002	0.00001
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	0.0018	0.0018	5	0.0018	0.00102	1	2
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	0.0070	0.0068	5	0.0070	0.00306	0.025	0.025
K-T	mg/L	0.224	0.227	0.212	0.231	0.257	5	0.257	0.230		
S-T	mg/L	8.1	8.8	6.2	8.0	10.0	5	10.0	8.2		
Se-T	mg/L	0.00012	0.00011	0.00012	0.00012	<0.00010	5	0.00012	0.000104	0.002	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001
Na-T	mg/L	10.3	11.8	7.98	10.2	12.5	5	12.5	10.56		
Sr-T	mg/L	0.0656	0.0698	0.0575	0.0647	0.0768	5	0.0768	0.0669		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033
Al-D	mg/L	0.0179	0.0166	0.0459	0.0410	0.0262	5	0.0459	0.0295	0.05	0.1
As-D	mg/L	0.00097	0.00097	0.00067	0.00071	0.00077	5	0.00097	0.00082		
Ba-D	mg/L	0.0040	0.0040	0.0035	0.0036	0.0036	5	0.0040	0.0037		
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250		
Cd-D	mg/L	0.000022	<0.000010	<0.000010	<0.000010	<0.000010	5	0.000022	0.0000084	0.000087	0.00017
Ca-D	mg/L	12.6	12.8	11.6	12.1	13.1	5	13.1	12.4		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Cu-D	mg/L	0.00045	0.00043	0.00060	0.00056	0.00051	5	0.00060	0.00051	*	*
Hard-D	mg/L	37.8	38.4	33.7	35.6	38.5	5	38.5	36.8		
DOC	mg/L	1.9	1.7	3.2	2.5	2.4	5	3.2	2.3		
Fe-D	mg/L	0.0440	0.0463	0.0406	0.0419	0.0410	5	0.0463	0.0428		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Mg-D	mg/L	1.57	1.55	1.18	1.30	1.39	5	1.57	1.40		
Mn-D	mg/L	0.0056	0.0056	0.0033	0.0038	0.0041	5	0.0056	0.0045		
Hg-D	mg/L	<0.0000019	<0.0000019	0.0000024	<0.0000019	<0.0000019	5	0.0000024	0.00000124		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
K-D	mg/L	0.226	0.226	0.206	0.230	0.255	5	0.255	0.229		
S-D	mg/L	8.2	9.0	5.8	8.4	9.3	5	9.3	8.1		
Se-D	mg/L	<0.00010	<0.00010	0.00012	0.00011	0.00011	5	0.00012	0.000088		
Na-D	mg/L	10.3	11.4	7.69	10.4	12.1	5	12.1	10.38		
Sr-D	mg/L	0.0641	0.0697	0.0576	0.0645	0.0733	5	0.0733	0.0658		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		
Notes:											
Factor applied to less-than results when calculating statistics: 0.5											

Table 49 Summer and Fall Rivers 20 Page(s)

Q2 (July 1st to September 30th, 2021)													
EMS ID		E217017								Water Quality Guidelines			
StnName		No Name Lake Outlet											
StnCode		NNO											
Date	Unit	8-Jul-21	13-Jul-21	20-Jul-21	27-Jul-21	3-Aug-21	Count	Maximum	5 in 30 Ave	Average	Maximum		
pH-F	pH Units	6.51	6.85	6.23	Dry	Dry	3	6.85	6.53		6.5 - 9.0		
Cond-F	uS/cm	39.6	54.3	60.6			3	60.6	51.5				
SO4-D	mg/L	3.3	3.5	2.9			3	3.5	3.2	128			
TSS	mg/L	2	3.6	1.6			3	3.6	2.4	5	25		
Alk-T	mg/L	18	23	26			3	26	22.3				
P-T	mg/L	<0.0030	0.0069	0.0056			3	0.0069	0.00467	0.007			
Al-T	mg/L	0.015	0.0187	0.0124			3	0.0187	0.0154				
As-T	mg/L	0.00048	0.00043	0.00045			3	0.00048	0.00045		0.005		
Ba-T	mg/L	0.0015	0.0022	0.0020			3	0.0022	0.0019	1	5		
B-T	mg/L	<0.050	<0.050	<0.050			3	<0.050	0.025	1.2			
Cd-T	mg/L	<0.000010	<0.000010	<0.000010			3	<0.000010	0.000005				
Ca-T	mg/L	5.28	6.73	7.13			3	7.13	6.38				
Cr-T	mg/L	<0.0010	<0.0010	<0.0010			3	<0.0010	0.0005				
Co-T	mg/L	<0.00020	<0.00020	<0.00020			3	<0.00020	0.0001	0.004	0.11		
Cu-T	mg/L	0.00051	0.00057	<0.00050			3	0.00057	0.000443				
Hard-T	mg/L	18	22.9	24.8			3	24.8	21.9				
Fe-T	mg/L	0.123	0.149	0.158			3	0.158	0.143		1		
Pb-T	mg/L	<0.00020	<0.00020	<0.00020			3	<0.00020	0.0001	0.0039978	0.01763		
Mg-T	mg/L	1.17	1.48	1.690			3	1.69	1.45				
Mn-T	mg/L	0.0429	0.158	0.104			3	0.158	0.1016	0.737	0.8706		
Hg-T	mg/L	<0.0000019	<0.0000019	0.0000023			3	0.0000023	0.0000014	0.00002	0.00001		
Mo-T	mg/L	<0.0010	<0.0010	<0.0010			3	<0.0010	0.0005	1	2		
Ni-T	mg/L	<0.0010	<0.0010	<0.0010			3	<0.0010	0.0005	0.025	0.025		
K-T	mg/L	0.117	0.154	0.175			3	0.175	0.149				
S-T	mg/L	<3.0	<3.0	<3.0			3	<3.0	1.5				
Se-T	mg/L	<0.00010	<0.00010	<0.00010			3	<0.00010	0.00005	0.002			
Ag-T	mg/L	<0.000020	<0.000020	<0.000020			3	<0.000020	0.00001	0.00005	0.0001		
Na-T	mg/L	1.39	1.56	1.85			3	1.85	1.6				
Sr-T	mg/L	0.0172	0.0221	0.0234			3	0.0234	0.0209				
Zn-T	mg/L	<0.0050	<0.0050	<0.0050			3	<0.0050	0.0025	0.0075	0.033		
Al-D	mg/L	0.0132	0.0095	0.0072			3	0.0132	0.01	0.05	0.1		
As-D	mg/L	0.0004	0.00040	0.00034			3	0.0004	0.00038				
Ba-D	mg/L	0.0026	0.0022	0.0019			3	0.0026	0.0022				
B-D	mg/L	<0.050	<0.050	<0.050			3	<0.050	0.025				
Cd-D	mg/L	<0.000010	<0.000010	<0.000010			3	<0.000010	0.000005	0.000087	0.00017		
Ca-D	mg/L	5.36	6.52	7.19			3	7.19	6.36				
Cr-D	mg/L	<0.0010	<0.0010	<0.0010			3	<0.0010	0.0005				
Co-D	mg/L	<0.00020	<0.00020	<0.00020			3	<0.00020	0.0001				
Cu-D	mg/L	0.00052	0.00044	0.00033			3	0.00052	0.00043	0.0003	0.002		
Hard-D	mg/L	18.1	22.4	25.0			3	25	21.8				
DOC	mg/L	1.7	1.9	2.1			3	2.1	1.9				
Fe-D	mg/L	0.089	0.0746	0.0792			3	0.089	0.0809		0.35		
Pb-D	mg/L	<0.00020	<0.00020	<0.00020			3	<0.00020	0.0001				
Mg-D	mg/L	1.13	1.48	1.7			3	1.7	1.440				
Mn-D	mg/L	0.0513	0.143	0.0887			3	0.143	0.0943				
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019			3	<0.0000019	0.00000095				
Mo-D	mg/L	<0.0010	<0.0010	<0.0010			3	<0.0010	0.0005				
Ni-D	mg/L	<0.0010	<0.0010	<0.0010			3	<0.0010	0.0005				
K-D	mg/L	0.131	0.164	0.189			3	0.189	0.161				
S-D	mg/L	<3.0	<3.0	<3.0			3	<3.0	1.5				
Se-D	mg/L	<0.00010	<0.00010	<0.00010			3	<0.00010	0.00005				
Na-D	mg/L	1.33	1.55	1.76			3	1.76	1.55				
Sr-D	mg/L	0.0162	0.0215	0.0236			3	0.0236	0.0204				
Zn-D	mg/L	<0.0050	<0.0050	<0.0050			3	<0.0050	0.0025				
Notes: NNO was dry for the last two weeks of monitoring.													
Factor applied to less-than results when calculating statistics: 0.5													

Table 49 Summer and Fall Rivers 20 Page(s)

EMS ID	E219412							Water Quality Guidelines			
StnName	Long Lake Outlet										
StnCode	LLO										
Date	Unit	8-Jul-21	13-Jul-21	20-Jul-21	27-Jul-21	3-Aug-21	Count	Max	5 in 30 Ave	Average	Maximum
pH-F	pH Units	7.15	7.11	7.21	6.68	6.76	5	7.21	6.98		6.5 - 9.0
Cond-F	uS/cm	179.9	191.9	200.2	199.5	206	5	206	195.5		
SO4-D	mg/L	58	65	66	66	68	5	68	64.6	128	
TSS	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.5	5	25
Alk-T	mg/L	35	35	32	35	39	5	39	35.2		
P-T	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	5	<0.0030	0.00150	0.007	
Al-T	mg/L	0.0103	0.0528	0.0093	0.0083	0.0088	5	0.0528	0.0179		
As-T	mg/L	0.00047	0.00051	0.00034	0.00028	0.00035	5	0.00051	0.00039		0.005
Ba-T	mg/L	0.0059	0.0069	0.0066	0.0067	0.0079	5	0.0079	0.0068	1	5
B-T	mg/L	0.061	0.058	0.054	0.058	0.057	5	0.061	0.0580	1.2	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050		
Ca-T	mg/L	24.4	25	24.5	25.1	26.4	5	26.4	25.1		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	5	<0.00050	0.000250	0.002	0.007
Hard-T	mg/L	74.1	76.4	75.8	77.1	81.2	5	81.2	76.9		
Fe-T	mg/L	0.026	0.154	0.023	0.019	0.046	5	0.154	0.054		1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763
Mg-T	mg/L	3.22	3.41	3.52	3.49	3.69	5	3.69	3.47		
Mn-T	mg/L	0.0178	0.0658	0.0284	0.0216	0.0416	5	0.0658	0.035	0.737	0.8706
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095	0.00002	0.00001
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1	2
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.0005	0.025	0.025
K-T	mg/L	0.324	0.365	0.324	0.366	0.404	5	0.404	0.357		
S-T	mg/L	18.6	19.5	18.8	19.9	20.5	5	20.5	19.5		
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001
Na-T	mg/L	8.12	8.2	8.04	8.04	8.16	5	8.2	8.11		
Sr-T	mg/L	0.169	0.168	0.167	0.165	0.174	5	0.174	0.169		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033
Al-D	mg/L	0.0048	0.0035	<0.0030	0.0038	0.004	5	0.0048	0.00352	0.05	0.1
As-D	mg/L	0.00038	0.00033	0.00022	0.00028	0.00034	5	0.00038	0.00031		
Ba-D	mg/L	0.0057	0.006	0.0063	0.0065	0.0079	5	0.0079	0.0065		
B-D	mg/L	0.059	0.059	0.053	0.059	0.062	5	0.062	0.0580		
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017
Ca-D	mg/L	25.1	23.5	23.5	26.1	27.7	5	27.7	25.2		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Cu-D	mg/L	0.00027	0.00025	0.00023	0.00027	0.00032	5	0.00032	0.00027		
Hard-D	mg/L	75.6	72.4	72.4	79.8	84.2	5	84.2	76.9		
DOC	mg/L	1.6	1.8	1.5	1.4	1.9	5	1.9	1.6		
Fe-D	mg/L	0.0071	<0.0050	<0.0050	<0.0050	0.0059	5	0.0071	0.0041		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Mg-D	mg/L	3.16	3.34	3.31	3.53	3.67	5	3.67	3.4		
Mn-D	mg/L	0.0108	0.0117	0.0172	0.015	0.0294	5	0.0294	0.0168		
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Ni-D	mg/L	<0.0010	0.001	<0.0010	<0.0010	<0.0010	5	0.001	0.00060		
K-D	mg/L	0.326	0.332	0.336	0.344	0.4	5	0.400	0.348		
S-D	mg/L	18.7	19.4	18	19.7	21.5	5	21.5	19.5		
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050		
Na-D	mg/L	8.79	7.9	7.73	8.34	8.04	5	8.79	8.16		
Sr-D	mg/L	0.152	0.162	0.157	0.163	0.183	5	0.183	0.163		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		
Notes:											
Factor applied to less-than results when calculating statistics: 0.5											

Table 49 Summer and Fall Rivers 20 Page(s)

EMS ID	E0126402						Water Quality Guidelines				
StnName	Quinsam River at Argonaut Road										
StnCode		WA	WA	WA	WA	WA					
Date	Unit	8-Jul-21	13-Jul-21	20-Jul-21	27-Jul-21	3-Aug-21	Count	Max	5 in 30 Ave	Average	Maximum
pH-F	pH Units	7.30	7.36	7.26	6.79	7.18	5	7.36	7.18		6.5 - 9.0
Cond-F	uS/cm	64.9	62.2	55.5	55	56.7	5	64.9	58.86		
SO4-D	mg/L	2.4	1.9	1.8	1.9	2.0	5	2.4	2.0	128	
TSS	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	5	25
Alk-T	mg/L	23	23	17	24	23	5	24	22.0		
P-T	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	5	<0.0030	0.00150	0.007	
Al-T	mg/L	0.0220	0.0223	0.0202	0.0190	0.0216	5	0.0223	0.0210		
As-T	mg/L	0.00011	<0.00010	0.00011	<0.00010	0.00024	5	0.00024	0.000112		0.005
Ba-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1	5
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050		
Ca-T	mg/L	7.48	7.47	6.96	7.22	7.88	5	7.88	7.40		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11
Cu-T	mg/L	0.00055	0.00066	0.00056	0.00057	0.00057	5	0.00066	0.00058	0.002	0.007
Hard-T	mg/L	22.1	22.2	20.6	21.5	23.2	5	23.2	21.9		
Fe-T	mg/L	0.024	0.020	0.020	0.016	0.024	5	0.024	0.021		1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763
Mg-T	mg/L	0.816	0.851	0.790	0.834	0.849	5	0.851	0.828		
Mn-T	mg/L	0.0021	0.0020	0.0019	0.0015	0.0018	5	0.0021	0.0019	0.737	0.8706
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095	0.00002	0.00001
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1	2
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025	0.025
K-T	mg/L	0.055	0.067	0.052	0.054	0.058	5	0.067	0.057		
S-T	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50		
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001
Na-T	mg/L	0.686	0.718	0.659	0.661	0.699	5	0.718	0.685		
Sr-T	mg/L	0.0117	0.0121	0.0115	0.0116	0.0124	5	0.0124	0.0119		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033
Al-D	mg/L	0.0228	0.0170	0.0151	0.0147	0.0162	5	0.0228	0.0172	0.05	0.1
As-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	0.00012	5	0.00012	0.000064		
Ba-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250		
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017
Ca-D	mg/L	8.17	7.05	7.09	7.17	7.64	5	8.17	7.42		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Cu-D	mg/L	0.00067	0.00049	0.00048	0.00052	0.00050	5	0.00067	0.00053		
Hard-D	mg/L	23.8	21.0	21.0	21.2	22.4	5	23.8	21.9		
DOC	mg/L	0.95	1.4	1.3	1.8	2.1	5	2.1	1.51		
Fe-D	mg/L	0.0189	0.0121	0.0130	0.0098	0.0135	5	0.0189	0.0135		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Mg-D	mg/L	0.828	0.811	0.803	0.795	0.813	5	0.828	0.810		
Mn-D	mg/L	0.0013	<0.0010	<0.0010	<0.0010	<0.0010	5	0.0013	0.00066		
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
K-D	mg/L	0.074	0.058	0.055	0.054	<0.050	5	0.074	0.0532		
S-D	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50		
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050		
Na-D	mg/L	0.671	0.658	0.642	0.698	0.679	5	0.698	0.670		
Sr-D	mg/L	0.0118	0.0116	0.0114	0.0110	0.0125	5	0.0125	0.0117		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		
Notes:											
Factor applied to less-than results when calculating statistics: 0.5											

Table 49 Summer and Fall Rivers 20 Page(s)

EMS ID	E0900504							Water Quality Guidelines			
StnName	Middle Quinsam Lake Outlet										
StnCode	WB										
Date	Unit	8-Jul-21	13-Jul-21	20-Jul-21	27-Jul-21	3-Aug-21	Count	Max	5 in 30 Ave	Average	Maximum
pH-F	pH Units	7.76	7.46	7.82	7.24	7.66	5	7.82	7.59		6.5 - 9.0
Cond-F	uS/cm	222	200	197.8	197	183.4	5	222	200.04		
SO4-D	mg/L	59	60	54	51	51	5	60	55	128	
TSS	mg/L	<1.0	<1.0	1.6	<1.0	<1.0	5	1.6	0.72	5	25
Alk-T	mg/L	48	47	43	42	50	5	50	46		
P-T	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	5	<0.0030	0.00150	0.007	
Al-T	mg/L	0.0176	0.0178	0.0138	0.0142	0.0154	5	0.0178	0.0158		
As-T	mg/L	0.00021	0.00019	0.00021	0.00016	0.00022	5	0.00022	0.0002		0.005
Ba-T	mg/L	0.0022	0.002	0.0018	0.0017	0.0017	5	0.0022	0.0019	1	5
B-T	mg/L	0.083	0.07	0.064	0.065	0.062	5	0.083	0.069	1.2	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050		
Ca-T	mg/L	16.5	14.6	13.8	13.6	13.7	5	16.5	14.4		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11
Cu-T	mg/L	0.00055	0.0005	0.00051	<0.00050	0.00057	5	0.00057	0.000476	0.002	0.007
Hard-T	mg/L	50.3	44.5	42.5	41.6	41.8	5	50.3	44.1		
Fe-T	mg/L	0.049	0.043	0.041	0.038	0.054	5	0.054	0.045		1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763
Mg-T	mg/L	2.19	1.95	1.97	1.84	1.83	5	2.19	1.96		
Mn-T	mg/L	0.0158	0.017	0.0110	0.01	0.0118	5	0.017	0.0131	0.737	0.8706
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095	0.00002	0.00001
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1	2
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.0005	0.025	0.025
K-T	mg/L	0.379	0.324	0.297	0.295	0.294	5	0.379	0.318		
S-T	mg/L	19.6	17.1	15.7	15.9	14.1	5	19.6	16.5		
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001
Na-T	mg/L	27.8	23.1	22.7	20.8	21	5	27.8	23.1		
Sr-T	mg/L	0.117	0.0999	0.0909	0.0882	0.0857	5	0.117	0.0963		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033
Al-D	mg/L	0.0162	0.0142	0.0123	0.0131	0.014	5	0.0162	0.014	0.05	0.1
As-D	mg/L	0.00017	0.00019	0.00013	0.00017	0.00022	5	0.00022	0.000180		
Ba-D	mg/L	0.002	0.0019	0.0017	0.0017	0.0018	5	0.002	0.0018		
B-D	mg/L	0.082	0.07	0.065	0.065	0.067	5	0.082	0.07		
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017
Ca-D	mg/L	16	14.6	14	13.8	14	5	16	14.5		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Cu-D	mg/L	0.00073	0.00045	0.00042	0.00046	0.0005	5	0.00073	0.00051		
Hard-D	mg/L	48.8	44.6	42.9	42.2	42.4	5	48.8	44.2		
DOC	mg/L	1.6	2.4	1.9	2.1	2.1	5	2.4	2		
Fe-D	mg/L	0.0215	0.0241	0.0243	0.0232	0.026	5	0.026	0.0238		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Mg-D	mg/L	2.15	1.97	1.9	1.86	1.82	5	2.15	1.94		
Mn-D	mg/L	0.0047	0.0052	0.0024	0.0032	0.0039	5	0.0052	0.0039		
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
K-D	mg/L	0.468	0.318	0.306	0.279	0.278	5	0.468	0.33		
S-D	mg/L	19.3	16.4	15.4	15.3	14.2	5	19.3	16.1		
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050		
Na-D	mg/L	29.7	22.8	22.3	21.7	20.5	5	29.7	23.4		
Sr-D	mg/L	0.108	0.0992	0.0923	0.0819	0.0864	5	0.108	0.0936		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		
Notes:											
Factor applied to less-than results when calculating statistics: 0.5											

Table 49 Summer and Fall Rivers 20 Page(s)

EMS ID	Water Quality Guidelines										
StnName	Quinsam River Downstream of Seepage Area and Groundwater Discharge Zone										
StnCode	QRDS										
Date	Unit	8-Jul-21	13-Jul-21	20-Jul-21	27-Jul-21	3-Aug-21	Count	Max	5 in 30 Ave	Average	Maximum
pH-F	pH Units	7.58	7.78	7.85	7.31	7.57	5	7.85	7.618		6.5 - 9.0
Cond-F	uS/cm	227	222	242	193.2	173.1	5	242	211.46		
SO4-D	mg/L	66	59	55	48	47	5	66	55	128	
TSS	mg/L	<1.0	2	<1.0	1.2	<1.0	5	2.0	0.94	5	25
Alk-T	mg/L	50	46	40	42	38	5	50	43.2		
P-T	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	5	<0.0030	0.00150	0.007	
Al-T	mg/L	0.0248	0.0188	0.0165	0.0174	0.0183	5	0.0248	0.0192		
As-T	mg/L	0.00034	0.00033	0.00046	0.00024	0.00026	5	0.00046	0.00033		0.005
Ba-T	mg/L	0.0027	0.0023	0.0023	0.002	0.002	5	0.0027	0.0023	1	5
B-T	mg/L	0.083	0.069	0.066	0.067	0.063	5	0.083	0.07	1.2	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050		
Ca-T	mg/L	15.8	14.6	14.6	14	13.6	5	15.8	14.5		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11
Cu-T	mg/L	0.00055	0.00051	0.0005	0.00055	<0.00050	5	0.00055	0.000472	0.002	0.007
Hard-T	mg/L	48.3	44.4	44.4	42.5	41.2	5	48.3	44.2		
Fe-T	mg/L	0.076	0.047	0.06	0.043	0.044	5	0.076	0.054		1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763
Mg-T	mg/L	2.14	1.9	1.95	1.86	1.77	5	2.14	1.92		
Mn-T	mg/L	0.0257	0.0152	0.0159	0.0108	0.0094	5	0.0257	0.0154	0.737	0.8706
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095	0.00002	0.00001
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1	2
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025	0.025
K-T	mg/L	0.375	0.329	0.308	0.298	0.285	5	0.375	0.319		
S-T	mg/L	19.5	16.7	16.3	14.9	14.1	5	19.5	16.3		
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001
Na-T	mg/L	27.4	23.1	23.4	21.3	20.6	5	27.4	23.2		
Sr-T	mg/L	0.117	0.102	0.0927	0.092	0.0842	5	0.117	0.0975		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033
Al-D	mg/L	0.0203	0.0143	0.0121	0.0122	0.0135	5	0.0203	0.0145	0.05	0.1
As-D	mg/L	0.00028	0.00027	0.00021	0.00024	0.00026	5	0.00028	0.00025		
Ba-D	mg/L	0.0024	0.0021	0.002	0.002	0.0021	5	0.0024	0.0021		
B-D	mg/L	0.085	0.075	0.068	0.067	0.068	5	0.085	0.0730		
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017
Ca-D	mg/L	16.4	14.3	14.2	13.6	13.9	5	16.4	14.5		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Cu-D	mg/L	0.00044	0.00044	0.00039	0.00048	0.00055	5	0.00055	0.00046		
Hard-D	mg/L	49.6	43.5	43.4	41.8	42.3	5	49.6	44.1		
DOC	mg/L	1.6	1.7	2	1.9	1.7	5	2	1.8		
Fe-D	mg/L	0.0179	0.0186	0.0216	0.0202	0.0234	5	0.0234	0.0203		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Mg-D	mg/L	2.1	1.92	1.93	1.92	1.82	5	2.1	1.94		
Mn-D	mg/L	0.002	0.0018	0.0015	0.0017	0.0016	5	0.002	0.0017		
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
K-D	mg/L	0.378	0.335	0.316	0.306	0.29	5	0.378	0.325		
S-D	mg/L	19.7	17.1	15.9	15.7	15.2	5	19.7	16.7		
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050		
Na-D	mg/L	29.4	23.3	22.9	22.6	21.3	5	29.4	23.9		
Sr-D	mg/L	0.109	0.0974	0.0936	0.087	0.089	5	0.109	0.0952		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		
Notes:											
Factor applied to less-than results when calculating statistics: 0.5											

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Table 49 Summer and Fall Rivers 20 Page(s)

EMS ID	E286930							Water Quality Guidelines			
StnName	Quinsam River Downstream Site 1										
StnCode	QRDS1										
Date	Unit	8-Jul-21	13-Jul-21	20-Jul-21	27-Jul-21	3-Aug-21	Count	Max	5 in 30 Ave	Average	Maximum
pH-F	pH Units	7.41	7.56	7.35	7.09	7.29	5	196.4	7.34		6.5 - 9.0
Cond-F	uS/cm	228	202	196.4	189.6	191.8	5	228	201.56		
SO4-D	mg/L	58	60	54	55	54	5	54	56.2	128	
TSS	mg/L	<1.0	<1.0	<1.0	<1.0	1.6	5	1.6	1.60	5	25
Alk-T	mg/L	48	46	41	43	48	5	48	45.2		
P-T	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	5	<0.0030	0.00150	0.007	
Al-T	mg/L	0.0212	0.0209	0.0164	0.0204	0.0194	5	0.0212	0.0197		
As-T	mg/L	0.00053	0.00048	0.00043	0.00040	0.00040	5	0.00053	0.00045		0.005
Ba-T	mg/L	0.0028	0.0026	0.0024	0.0023	0.0022	5	0.0028	0.0025	1	5
B-T	mg/L	0.086	0.073	0.070	0.069	0.066	5	0.086	0.073	1.2	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050		
Ca-T	mg/L	16.0	14.5	14.6	13.9	13.7	5	16	14.5		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11
Cu-T	mg/L	<0.00050	0.00051	0.00051	0.00050	0.00052	5	0.00052	0.000458	0.002	0.007
Hard-T	mg/L	48.7	44.3	44.7	42.4	41.8	5	48.7	44.4		
Fe-T	mg/L	0.056	0.051	0.049	0.051	0.049	5	0.056	0.051		1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763
Mg-T	mg/L	2.14	1.96	2.00	1.90	1.86	5	2.14	1.97		
Mn-T	mg/L	0.0152	0.0145	0.0131	0.0108	0.0095	5	0.0152	0.0126	0.737	0.8706
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095	0.00002	0.00001
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1	2
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025	0.025
K-T	mg/L	0.380	0.348	0.316	0.316	0.300	5	0.38	0.332		
S-T	mg/L	19.4	16.8	16.9	15.7	14.1	5	19.4	16.6		
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001
Na-T	mg/L	27.8	23.7	23.8	22.1	21.6	5	27.8	23.8		
Sr-T	mg/L	0.116	0.103	0.0940	0.0926	0.0863	5	0.116	0.0984		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033
Al-D	mg/L	0.0115	0.0142	0.0112	0.0126	0.0120	5	0.0142	0.0123	0.05	0.1
As-D	mg/L	0.00042	0.00045	0.00036	0.00037	0.00036	5	0.00045	0.00039		
Ba-D	mg/L	0.0025	0.0024	0.0022	0.0022	0.0021	5	0.0025	0.0023		
B-D	mg/L	0.084	0.075	0.069	0.070	0.069	5	0.084	0.073		
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017
Ca-D	mg/L	16.4	14.7	14.4	13.9	13.9	5	16.4	14.7		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Cu-D	mg/L	0.00044	0.00044	0.00042	0.00061	0.00048	5	0.00061	0.00048		
Hard-D	mg/L	49.7	44.9	44.0	42.5	42.3	5	49.7	44.7		
DOC	mg/L	1.5	2.1	1.3	2.2	1.9	5	2.2	1.8		
Fe-D	mg/L	0.0173	0.0194	0.0227	0.0206	0.0225	5	0.0227	0.0205		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Mg-D	mg/L	2.12	1.99	1.94	1.90	1.83	5	2.12	1.96		
Mn-D	mg/L	0.0025	0.0023	0.0019	0.0022	0.0018	5	0.0025	0.0021		
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
K-D	mg/L	0.404	0.348	0.329	0.335	0.296	5	0.404	0.342		
S-D	mg/L	19.4	16.4	15.7	15.4	14.8	5	19.4	16.3		
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050		
Na-D	mg/L	30.7	23.6	23.2	22.7	21.0	5	30.7	24.2		
Sr-D	mg/L	0.109	0.102	0.0951	0.0841	0.0878	5	0.109	0.0956		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		

Notes: Aug 3rd sulphate, TSS and Alk were collected on Aug 26 due to Aug 3rd raw water sample being preserved either in the field or in the laboratory.

Factor applied to less-than results when calculating statistics: 0.5

Table 49 Summer and Fall Rivers 20 Page(s)

EMS ID	E292113	Water Quality Guidelines									
StnName	7 South Quinsam River										
StnCode	75QR										
Date	Unit	8-Jul-21	13-Jul-21	20-Jul-21	27-Jul-21	3-Aug-21	Count	Max	5 in 30 Ave	Average	Maximum
pH-F	pH Units	7.26	7.29	7.22	6.95	7.29	5	7.29	7.202		6.5 - 9.0
Cond-F	uS/cm	232	198.2	209	201	178.8	5	232	203.8		
SO4-D	mg/L	62	60	54	48	51	5	62	55	128	
TSS	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.5	5	25
Alk-T	mg/L	51	49	42	44	34	5	51	44		
P-T	mg/L	<0.0030	0.0033	<0.0030	<0.0030	<0.0030	5	0.0033	0.00186	0.007	
Al-T	mg/L	0.0249	0.0274	0.0188	0.0272	0.0301	5	0.0301	0.0257		
As-T	mg/L	0.00066	0.00057	0.00055	0.0005	0.00053	5	0.00066	0.00056		0.005
Ba-T	mg/L	0.0034	0.0031	0.0027	0.0028	0.0027	5	0.0034	0.0029	1	5
B-T	mg/L	0.089	0.079	0.069	0.073	0.066	5	0.089	0.075	1.2	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050		
Ca-T	mg/L	16.5	14.9	14	14.5	14.0	5	16.5	14.8		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.0005		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11
Cu-T	mg/L	0.00052	<0.00050	0.00052	0.00053	0.00052	5	0.00053	0.000468	0.002	0.007
Hard-T	mg/L	50.4	45.8	43.2	44.4	42.5	5	50.4	45.3		
Fe-T	mg/L	0.104	0.098	0.087	0.105	0.108	5	0.108	0.1		1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763
Mg-T	mg/L	2.22	2.07	2.01	1.98	1.84	5	2.22	2.02		
Mn-T	mg/L	0.0107	0.011	0.0091	0.009	0.0093	5	0.011	0.0098	0.737	0.8706
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095	0.00002	0.00001
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1	2
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025	0.025
K-T	mg/L	0.394	0.357	0.313	0.336	0.31	5	0.394	0.342		
S-T	mg/L	20.9	17.4	15.6	15.5	15	5	20.9	16.9		
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001
Na-T	mg/L	28.6	24.6	23.6	22.9	21.4	5	28.6	24.2		
Sr-T	mg/L	0.121	0.105	0.0925	0.0962	0.0874	5	0.121	0.1004		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033
Al-D	mg/L	0.0115	0.0109	0.0093	0.0098	0.0113	5	0.0115	0.0106	0.05	0.1
As-D	mg/L	0.00055	0.00052	0.00041	0.00049	0.00048	5	0.00055	0.00049		
Ba-D	mg/L	0.0032	0.003	0.0026	0.0026	0.0027	5	0.0032	0.0028		
B-D	mg/L	0.092	0.079	0.07	0.073	0.069	5	0.092	0.077		
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017
Ca-D	mg/L	16.4	14.8	14.4	14.2	14.2	5	16.4	14.8		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Cu-D	mg/L	0.00046	0.00042	0.00048	0.00041	0.00043	5	0.00048	0.00044	0.0003	0.002
Hard-D	mg/L	50.1	45.4	44	43.6	43.1	5	50.1	45.2		
DOC	mg/L	1.1	1.8	1.5	1.8	1.6	5	1.8	1.6		
Fe-D	mg/L	0.0453	0.0418	0.0484	0.0467	0.0469	5	0.0484	0.0458		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Mg-D	mg/L	2.19	2.04	1.94	1.95	1.86	5	2.19	2		
Mn-D	mg/L	0.0067	0.0066	0.0060	0.0058	0.006	5	0.0067	0.0062		
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
K-D	mg/L	0.401	0.359	0.342	0.302	0.297	5	0.401	0.340		
S-D	mg/L	20	17.7	15.6	15.4	14.4	5	20	16.6		
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050		
Na-D	mg/L	30.8	24.5	22.8	22.6	21.1	5	30.8	24.4		
Sr-D	mg/L	0.1050	0.106	0.0961	0.0863	0.0895	5	0.106	0.0966		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Table 49 Summer and Fall Rivers 20 Page(s)

EMS ID	E299256							Water Quality Guidelines			
StnName	Iron River & Quinsam River										
StnCode	IRQR										
Date	Unit	8-Jul-21	13-Jul-21	20-Jul-21	27-Jul-21	3-Aug-21	Count	Max	5 in 30 Ave	Average	Maximum
pH-F	pH Units	7.28	7.4	7.28	6.87	7.25	5	7.4	7.216		6.5 - 9.0
Cond-F	uS/cm	234	202	195.9	185.6	176.3	5	234	198.76		
SO4-D	mg/L	63	60	57	52	47	5	63	55.8	128	
TSS	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.5	5	25
Alk-T	mg/L	51	46	41	46	46	5	51	46		
P-T	mg/L	<0.0030	<0.0030	0.0045	<0.0030	0.0049	5	0.0049	0.00278	0.007	
Al-T	mg/L	0.0255	0.026	0.0198	0.0254	0.0224	5	0.026	0.0238		
As-T	mg/L	0.00070	0.00063	0.0006	0.00053	0.00055	5	0.0007	0.0006		0.005
Ba-T	mg/L	0.0037	0.0035	0.0029	0.0029	0.0028	5	0.0037	0.0032	1	5
B-T	mg/L	0.086	0.079	0.071	0.071	0.065	5	0.086	0.0740	1.2	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.000005		
Ca-T	mg/L	16.7	15.1	14.8	14.2	14	5	16.7	15		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.0005		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11
Cu-T	mg/L	0.00051	0.0005	<0.00050	<0.00050	<0.00050	5	0.00051	0.000352	0.002	0.007
Hard-T	mg/L	50.8	45.9	45.5	43.4	42.8	5	50.8	45.7		
Fe-T	mg/L	0.102	0.094	0.098	0.094	0.093	5	0.102	0.096		1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763
Mg-T	mg/L	2.24	2.02	2.05	1.94	1.87	5	2.24	2.02		
Mn-T	mg/L	0.0106	0.0107	0.0098	0.0089	0.009	5	0.0107	0.0098	0.737	0.8706
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095	0.00002	0.00001
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.0005	1	2
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.0005	0.025	0.025
K-T	mg/L	0.397	0.365	0.319	0.325	0.303	5	0.397	0.342		
S-T	mg/L	19.7	18	15.7	15.5	14.5	5	19.7	16.7		
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.00005	0.002	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001
Na-T	mg/L	28.1	24.1	23.5	21.7	21.2	5	28.1	23.7		
Sr-T	mg/L	0.12	0.105	0.0938	0.0935	0.0859	5	0.12	0.0996		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033
Al-D	mg/L	0.0113	0.0171	0.0099	0.0094	0.0125	5	0.0171	0.012	0.05	0.1
As-D	mg/L	0.00062	0.00061	0.00043	0.00046	0.00051	5	0.00062	0.00053		
Ba-D	mg/L	0.0035	0.0032	0.0028	0.0028	0.0027	5	0.0035	0.003		
B-D	mg/L	0.089	0.077	0.068	0.07	0.068	5	0.089	0.0740		
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.000005	0.000087	0.00017
Ca-D	mg/L	16.4	14.7	14.3	14.4	14.2	5	16.4	14.8		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Cu-D	mg/L	0.00045	0.00048	0.00063	0.0004	0.00047	5	0.00063	0.00049	0.0003	0.002
Hard-D	mg/L	49.9	44.9	43.7	43.9	43.3	5	49.9	45.1		
DOC	mg/L	1	1.6	1.9	1.7	2.5	5	2.5	1.7		
Fe-D	mg/L	0.0471	0.0812	0.0495	0.0534	0.0482	5	0.0812	0.0559		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Mg-D	mg/L	2.17	2.03	1.93	1.94	1.91	5	2.17	2.00		
Mn-D	mg/L	0.0079	0.0101	0.007	0.0062	0.0068	5	0.0101	0.0076		
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
K-D	mg/L	0.401	0.359	0.358	0.301	0.296	5	0.401	0.343		
S-D	mg/L	19.6	17.0	14.9	14.9	14.9	5	19.6	16.3		
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.00005		
Na-D	mg/L	29.6	23.7	22.6	22.3	20.8	5	29.6	23.8		
Sr-D	mg/L	0.11	0.101	0.0933	0.085	0.0879	5	0.11	0.0954		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		
Notes:											
Factor applied to less-than results when calculating statistics: 0.5											

Table 49 Summer and Fall Rivers 20 Page(s)

EMS ID	E297231							Water Quality Guidelines			
StnName	Iron River Site 6										
StnCode	IR6										
Date	Unit	13-Jul-21	20-Jul-21	27-Jul-21	3-Aug-21	10-Aug-21	Count	Max	5 in 30 Ave	Average	Maximum
pH-F	pH Units	7.34	6.96	6.77	7.22	7.4	5	7.34	7.138		6.5 - 9.0
Cond-F	uS/cm	140.6	158.4	172.4	185.5	197	5	197	170.78		
SO4-D	mg/L	9.7	12	12	13	16	5	16	12.5	128	
TSS	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.5	5	25
Alk-T	mg/L	64	52	67	75	74	5	75	66.4		
P-T	mg/L	0.0034	<0.0030	<0.0030	<0.0030	<0.0030	5	0.0034	0.00188	0.007	
Al-T	mg/L	0.0194	0.0153	0.0158	0.0164	0.0157	5	0.0194	0.0165		
As-T	mg/L	0.00612	0.0073	0.00859	0.0117	0.0061	5	0.0117	0.00796		0.005
Ba-T	mg/L	0.0114	0.0117	0.0134	0.0153	0.0133	5	0.0153	0.013	1	5
B-T	mg/L	<0.050	<0.050	0.053	0.062	<0.050	5	0.062	0.038	1.2	
Cd-T	mg/L	0.000014	0.000011	0.000011	0.000011	<0.000010	5	0.000014	0.0000104		
Ca-T	mg/L	21.8	23.6	24.6	27.4	28.5	5	28.5	25.2		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.0005		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.0001	0.004	0.11
Cu-T	mg/L	0.00065	<0.00050	<0.00050	<0.00050	0.00066	5	0.00066	0.000412	0.002	0.007
Hard-T	mg/L	62.1	67.7	70.7	79	80.1	5	80.1	71.9		
Fe-T	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	5	<0.010	0.005		1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.0001	0.0039978	0.01763
Mg-T	mg/L	1.87	2.09	2.23	2.57	2.2	5	2.57	2.19		
Mn-T	mg/L	0.0011	<0.0010	0.0011	0.0012	0.0027	5	0.0027	0.00132	0.737	0.8706
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095	0.00002	0.00001
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.0005	1	2
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.0005	0.025	0.025
K-T	mg/L	0.318	0.306	0.352	0.394	0.377	5	0.394	0.349		
S-T	mg/L	<3.0	<3.0	3.3	3.9	3.9	5	3.9	2.82		
Se-T	mg/L	0.00018	0.00016	0.00015	0.00017	0.00026	5	0.00026	0.00018	0.002	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.00001	0.00005	0.0001
Na-T	mg/L	2.59	2.92	3.24	3.84	3.07	5	3.84	3.13		
Sr-T	mg/L	0.0781	0.0831	0.0932	0.104	0.101	5	0.104	0.0919		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.0025	0.0075	0.033
Al-D	mg/L	0.0171	0.0148	0.0138	0.014	0.0143	5	0.0171	0.0148	0.05	0.1
As-D	mg/L	0.00623	0.0073	0.00856	0.0119	0.00621	5	0.0119	0.00804		
Ba-D	mg/L	0.0112	0.0124	0.013	0.0156	0.0135	5	0.0156	0.0131		
B-D	mg/L	<0.050	<0.050	0.054	0.065	<0.050	5	0.065	0.0388		
Cd-D	mg/L	0.000013	0.000012	<0.000010	0.00001	0.000014	5	0.000014	0.0000108	0.000087	0.00017
Ca-D	mg/L	21.5	24.8	25.6	28.6	28.8	5	28.8	25.9		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.0005		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.0001		
Cu-D	mg/L	0.00049	0.00043	0.00044	0.00045	0.00047	5	0.00049	0.00046	0.0003	0.002
Hard-D	mg/L	61.6	70.4	73.5	82.3	81.3	5	82.3	73.8		
DOC	mg/L	1.3	1.5	1.2	1.8	1.4	5	1.8	1.4		
Fe-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.0025		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.0001		
Mg-D	mg/L	1.93	2.04	2.34	2.6	2.27	5	2.6	2.24		
Mn-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.0005		
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.0005		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.0005		
K-D	mg/L	0.336	0.302	0.337	0.378	0.365	5	0.378	0.344		
S-D	mg/L	<3.0	<3.0	3.9	3.7	4	5	4	2.92		
Se-D	mg/L	0.00017	0.00016	0.00014	0.00017	0.00027	5	0.00027	0.00018		
Na-D	mg/L	2.65	2.9	3.37	3.78	3.12	5	3.78	3.16		
Sr-D	mg/L	0.0788	0.0893	0.0857	0.103	0.103	5	0.103	0.092		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.0025		

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Table 49 Summer and Fall Rivers 20 Page(s)

EMS ID	E297232	Water Quality Guidelines									
StnName	Iron River Site 8										
StnCode	IR8										
Date	Unit	13-Jul-21	20-Jul-21	27-Jul-21	3-Aug-21	10-Aug-21	Count	Max	5 in 30 Ave	Average	Maximum
pH-F	pH Units	7.65	7.34	7.13	7.44	7.24	5	7.65	7.36		6.5 - 9.0
Cond-F	uS/cm	147.1	167.7	185.5	189.5	204	5	204	178.76		
SO4-D	mg/L	9.6	11	12	13	16	5	16	12.3	128	
TSS	mg/L	1.6	<1.0	<1.0	<1.0	<1.0	5	1.6	0.72	5	25
Alk-T	mg/L	67	57	69	80	77	5	80	70.0		
P-T	mg/L	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	5	<0.0030	0.00150	0.007	
Al-T	mg/L	0.0193	0.0165	0.0156	0.0152	0.0131	5	0.0193	0.0159		
As-T	mg/L	0.0124	0.0151	0.0164	0.0200	0.0140	5	0.0200	0.0156		0.005
Ba-T	mg/L	0.0115	0.0124	0.0129	0.0153	0.0146	5	0.0153	0.0133	1	5
B-T	mg/L	0.052	0.060	0.071	0.091	0.056	5	0.091	0.066	1.2	
Cd-T	mg/L	0.000010	0.000012	0.000011	0.000011	<0.000010	5	0.000012	0.0000098		
Ca-T	mg/L	22.2	25.1	24.8	29.6	29.3	5	29.6	26.2		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11
Cu-T	mg/L	0.00060	0.00062	0.00073	0.00066	0.00056	5	0.00073	0.00063	0.002	0.007
Hard-T	mg/L	63.8	71.9	71.4	84.8	83.3	5	84.8	75.0		
Fe-T	mg/L	0.011	0.016	0.012	0.020	<0.010	5	0.020	0.0128		1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763
Mg-T	mg/L	1.99	2.22	2.30	2.66	2.43	5	2.66	2.32		
Mn-T	mg/L	0.0012	0.0013	0.0014	0.0029	0.0011	5	0.0029	0.0016	0.737	0.8706
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095	0.00002	0.00001
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1	2
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025	0.025
K-T	mg/L	0.343	0.339	0.399	0.434	0.360	5	0.434	0.375		
S-T	mg/L	3.1	<3.0	3.6	3.7	3.8	5	3.8	3.14		
Se-T	mg/L	0.00013	0.00013	0.00013	0.00014	0.00020	5	0.00020	0.00015	0.002	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001
Na-T	mg/L	3.77	4.41	4.89	6.39	4.27	5	6.39	4.75		
Sr-T	mg/L	0.0809	0.0886	0.0949	0.114	0.107	5	0.114	0.0971		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033
Al-D	mg/L	0.0197	0.0152	0.0141	0.0140	0.0132	5	0.0197	0.0152	0.05	0.1
As-D	mg/L	0.0122	0.0149	0.0169	0.0200	0.0135	5	0.0200	0.0155		
Ba-D	mg/L	0.0120	0.0121	0.0133	0.0155	0.0151	5	0.0155	0.0136		
B-D	mg/L	0.056	0.062	0.074	0.093	0.065	5	0.093	0.070		
Cd-D	mg/L	0.000014	<0.000010	0.000012	0.000013	0.000010	5	0.000014	0.0000108	0.000087	0.00017
Ca-D	mg/L	22.0	23.4	26.9	29.2	28.8	5	29.2	26.1		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Cu-D	mg/L	0.00058	0.00051	0.00057	0.00060	0.00096	5	0.00096	0.00064	0.0003	0.002
Hard-D	mg/L	63.3	67.6	76.7	83.8	81.9	5	83.8	74.7		
DOC	mg/L	2.3	1.2	1.4	0.96	1.4	5	2.3	1.45		
Fe-D	mg/L	0.0083	0.0091	0.0109	0.0154	0.0096	5	0.0154	0.0107		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Mg-D	mg/L	2.00	2.20	2.33	2.63	2.41	5	2.63	2.31		
Mn-D	mg/L	<0.0010	0.0011	0.0013	0.0022	<0.0010	5	0.0022	0.00112		
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
K-D	mg/L	0.341	0.342	0.359	0.428	0.389	5	0.428	0.372		
S-D	mg/L	<3.0	<3.0	3.1	4.0	4.1	5	4.1	2.84		
Se-D	mg/L	0.00013	0.00013	0.00012	0.00013	0.00020	5	0.00020	0.00014		
Na-D	mg/L	3.77	4.35	5.14	6.37	4.25	5	6.37	4.78		
Sr-D	mg/L	0.0804	0.0872	0.0903	0.113	0.105	5	0.113	0.0952		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Table 49 Summer and Fall Rivers 20 Page(s)

Q3 (October 1st to December 31st, 2021)											
EMS ID	E217017							Water Quality Guidelines			
StnName	No Name Lake Outlet										
StnCode	NNO										
Date	Unit	5-Oct-21	12-Oct-21	18-Oct-21	25-Oct-21	2-Nov-21	Count	Maximum	5 in 30 Ave	Average	Maximum
pH-F	pH Units	6.94	7.15	7.49	6.85	7.46	5	7.49	7.18		6.5 - 9.0
Cond-F	uS/cm	44.5	60.9	90.4	58.5	68	5	90.4	64.5		
SO4-D	mg/L	2.8	3.3	3.3	2.3	2.0	5	3.3	2.7	128	
TSS	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	5	25
Alk-T	mg/L	15	15	15	12	10	5	15	13.4		
P-T	mg/L										
Al-T	mg/L	0.0126	0.0124	0.0192	0.0582	0.0703	5	0.0703	0.0345		
As-T	mg/L	0.00034	0.00028	0.00029	0.00027	0.00033	5	0.00034	0.00030		0.005
Ba-T	mg/L	0.0010	0.0011	0.0011	0.0013	0.0013	5	0.0013	0.0012	1	5
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050		
Ca-T	mg/L	4.78	4.50	4.45	3.95	3.53	5	4.78	4.24		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11
Cu-T	mg/L	<0.00050	0.00052	<0.00050	0.00058	0.00068	5	0.00068	0.000456		
Hard-T	mg/L	16.1	15.3	15.1	13.5	11.9	5	16.1	14.4		
Fe-T	mg/L	0.045	0.053	0.055	0.098	0.099	5	0.099	0.070		1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763
Mg-T	mg/L	1.00	0.986	0.974	0.891	0.743	5	1.00	0.919		
Mn-T	mg/L	0.0046	0.0046	0.0047	0.0075	0.0059	5	0.0075	0.0055	0.737	0.8706
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095	0.00002	0.00001
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1	2
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025	0.025
K-T	mg/L	0.067	0.106	0.064	0.102	0.106	5	0.106	0.089		
S-T	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50		
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001
Na-T	mg/L	1.29	1.21	1.19	1.18	1.13	5	1.29	1.20		
Sr-T	mg/L	0.0158	0.0140	0.0144	0.0126	0.0114	5	0.0158	0.0136		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033
Al-D	mg/L	0.0084	0.0101	0.0142	0.0439	0.057	5	0.0570	0.0267	0.05	0.1
As-D	mg/L	0.00030	0.00030	0.00029	0.00024	0.00028	5	0.00030	0.00028		
Ba-D	mg/L	<0.0010	0.0011	0.0012	0.0013	0.0012	5	0.0013	0.00106		
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250		
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017
Ca-D	mg/L	4.47	4.47	4.44	3.82	3.49	5	4.47	4.14		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Cu-D	mg/L	0.00032	0.00034	0.00038	0.00054	0.00067	5	0.00067	0.00045	0.0003	
Hard-D	mg/L	15.0	15.2	15.0	13.2	11.9	5	15.2	14.1		
DOC	mg/L	2.5	2.4	2.5	3.4	4.8	5	4.8	3.1		
Fe-D	mg/L	0.0272	0.0323	0.0358	0.0627	0.0758	5	0.0758	0.0468		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Mg-D	mg/L	0.932	0.992	0.941	0.881	0.772	5	0.992	0.904		
Mn-D	mg/L	0.0025	0.0020	0.0026	0.0051	0.0039	5	0.0051	0.0032		
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
K-D	mg/L	0.060	0.070	0.067	0.097	0.110	5	0.110	0.081		
S-D	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50		
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050		
Na-D	mg/L	1.25	1.22	1.22	1.17	1.20	5	1.25	1.21		
Sr-D	mg/L	0.0140	0.0144	0.0148	0.0127	0.0106	5	0.0148	0.0133		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		
Notes:											
Factor applied to less-than results when calculating statistics: 0.5											

Table 49 Summer and Fall Rivers 20 Page(s)

EMS ID	E219412							Water Quality Guidelines			
StnName	Long Lake Outlet										
StnCode	LLO										
Date	Unit	5-Oct-21	12-Oct-21	18-Oct-21	25-Oct-21	2-Nov-21	Count	Max	5 in 30 Ave	Average	Maximum
pH-F	pH Units	7.09	7.66	7.13	7.00	6.83	5	7.66	7.14		6.5 - 9.0
Cond-F	uS/cm	246.2	304.2	243	208.1	119	5	304.2	224.1		
SO4-D	mg/L	87	85	76	72	36	5	87	71.2	128	
TSS	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.5	5	25
Alk-T	mg/L	44	44	46	35	21	5	46	38		
P-T	mg/L									0.007	
Al-T	mg/L	0.0067	0.0066	0.007	0.0384	0.0673	5	0.0673	0.0252		
As-T	mg/L	0.00042	0.00044	0.00048	0.00049	0.00042	5	0.00049	0.00045		0.005
Ba-T	mg/L	0.0066	0.0064	0.0061	0.0062	0.0043	5	0.0066	0.0059	1	5
B-T	mg/L	0.075	0.075	0.076	0.066	<0.050	5	0.076	0.0634	1.2	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050		
Ca-T	mg/L	34.2	32.8	32.5	26.7	14.2	5	34.2	28.1		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	0.00073	5	0.00073	0.000346	0.002	0.007
Hard-T	mg/L	102	98.5	97.4	81.7	44	5	102	84.7		
Fe-T	mg/L	0.016	0.016	0.019	0.076	0.111	5	0.111	0.048		1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0040	0.0176
Mg-T	mg/L	4	4.06	3.97	3.63	2.1	5	4.06	3.55		
Mn-T	mg/L	0.0029	0.0047	0.007	0.0157	0.0106	5	0.0157	0.0082	0.737	0.8706
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095	0.00002	0.00001
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1	2
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.0005	0.025	0.025
K-T	mg/L	0.368	0.366	0.361	0.381	0.254	5	0.381	0.346		
S-T	mg/L	27.6	26.5	27.7	23.6	10.6	5	27.7	23.2		
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001
Na-T	mg/L	10.6	10.6	10.2	8.51	4	5	10.6	8.78		
Sr-T	mg/L	0.243	0.22	0.225	0.181	0.0858	5	0.243	0.191		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033
Al-D	mg/L	0.0042	0.004	0.0044	0.0175	0.0431	5	0.0431	0.0146	0.05	0.1
As-D	mg/L	0.0004	0.00044	0.0005	0.00036	0.00032	5	0.0005	0.0004		
Ba-D	mg/L	0.006	0.006	0.0064	0.0058	0.0038	5	0.0064	0.0056		
B-D	mg/L	0.07	0.076	0.071	0.063	<0.050	5	0.076	0.0610		
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017
Ca-D	mg/L	32.1	32.2	32	26.8	13.8	5	32.2	27.4		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Cu-D	mg/L	0.00025	0.00025	0.00069	0.0004	0.00058	5	0.00069	0.00043	0.0006	
Hard-D	mg/L	95.7	96.9	96	81.0	42.9	5	96.9	82.5		
DOC	mg/L	2.4	2	2.6	3.1	4.9	5	4.9	3		
Fe-D	mg/L	0.0087	0.0095	0.0092	0.0314	0.065	5	0.065	0.0248		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Mg-D	mg/L	3.81	4.02	3.92	3.44	2.05	5	4.02	3.45		
Mn-D	mg/L	0.0015	0.0013	0.0015	0.0064	0.0069	5	0.0069	0.0035		
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
K-D	mg/L	0.352	0.369	0.373	0.347	0.261	5	0.373	0.34		
S-D	mg/L	27.4	27.4	27	21.9	10.8	5	27.4	22.9		
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050		
Na-D	mg/L	10.3	10.5	10.2	8.09	4.23	5	10.5	8.66		
Sr-D	mg/L	0.215	0.219	0.229	0.173	0.0832	5	0.229	0.1838		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		
Notes:											
Factor applied to less-than results when calculating statistics: 0.5											

Table 49 Summer and Fall Rivers 20 Page(s)

EMS ID	E0126402						Water Quality Guidelines				
StnName	Quinsam River at Argonaut Road										
StnCode		WA	WA	WA	WA	WA					
Date	Unit	5-Oct-21	12-Oct-21	18-Oct-21	25-Oct-21	2-Nov-21	Count	Max	5 in 30 Ave	Average	Maximum
pH-F	pH Units	7.56	7.49	7.44	7.05	7.46	5	7.56	7.40		6.5 - 9.0
Cond-F	uS/cm	48	51.2	80.6	70.7	49.9	5	80.6	60.1		
SO4-D	mg/L	1.4	1.7	8.8	<1.0	1.9	5	8.8	2.86	128	
TSS	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	5	25
Alk-T	mg/L	21	23	18	12	22	5	23	19.2		
P-T	mg/L										
Al-T	mg/L	0.0259	0.0240	0.0318	0.115	0.0218	5	0.115	0.0437		
As-T	mg/L	0.00016	0.00013	0.00016	0.00025	0.00014	5	0.00025	0.00017		0.005
Ba-T	mg/L	0.0014	0.0010	0.0017	0.0027	<0.0010	5	0.0027	0.00146	1	5
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050		
Ca-T	mg/L	7.02	6.72	6.18	4.65	7.02	5	7.02	6.32		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11
Cu-T	mg/L	0.00058	0.00057	0.00064	0.00100	0.00062	5	0.00100	0.00068	0.002	0.007
Hard-T	mg/L	20.7	20.2	18.7	14.5	20.6	5	20.7	18.9		
Fe-T	mg/L	0.022	0.027	0.025	0.066	0.019	5	0.066	0.032		1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763
Mg-T	mg/L	0.772	0.822	0.790	0.706	0.754	5	0.822	0.769		
Mn-T	mg/L	0.0018	0.0020	0.0016	0.0031	0.0018	5	0.0031	0.0021	0.737	0.8706
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019	0.0000030	<0.0000019	5	0.0000030	0.00000136	0.00002	0.00001
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1	2
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025	0.025
K-T	mg/L	0.074	0.061	0.074	0.163	0.065	5	0.163	0.087		
S-T	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50		
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001
Na-T	mg/L	0.869	0.731	0.887	1.09	0.730	5	1.09	0.861		
Sr-T	mg/L	0.0130	0.0117	0.0123	0.0112	0.0123	5	0.0130	0.0121		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033
Al-D	mg/L	0.0180	0.0134	0.0261	0.0934	0.0161	5	0.0934	0.0334	0.05	0.1
As-D	mg/L	0.00015	0.00012	0.00017	0.00017	<0.00010	5	0.00017	0.000132		
Ba-D	mg/L	0.0014	0.0010	0.0017	0.0026	<0.0010	5	0.0026	0.00144		
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250		
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017
Ca-D	mg/L	6.32	6.93	6.23	4.58	6.78	5	6.93	6.17		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.00010		
Cu-D	mg/L	0.00053	0.00054	0.00064	0.00096	0.00054	5	0.00096	0.000640	0.0005	
Hard-D	mg/L	18.9	20.7	18.6	14.1	20.3	5	20.7	18.5		
DOC	mg/L	1.8	1.1	2.9	5.3	1.9	5	5.3	2.6		
Fe-D	mg/L	0.0121	0.0117	0.0191	0.0395	0.0087	5	0.0395	0.0182		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.0001		
Mg-D	mg/L	0.749	0.823	0.743	0.653	0.807	5	0.823	0.755000		
Mn-D	mg/L	<0.0010	<0.0010	<0.0010	0.0014	<0.0010	5	0.0014	0.00068		
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	0.0000041	<0.0000019	5	0.0000041	0.00000158		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.0005		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
K-D	mg/L	0.07	0.075	0.075	0.16	0.066	5	0.16	0.08900		
S-D	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.5		
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.00		
Na-D	mg/L	0.835	0.77	0.91	1.07	0.758	5	1.07	0.869000		
Sr-D	mg/L	0.0114	0.012	0.012	0.0118	0.0113	5	0.0121	0.0117		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.0025		
Notes:											
Factor applied to less-than results when calculating statistics: 0.5											

Table 49 Summer and Fall Rivers 20 Page(s)

EMS ID	E0900504							Water Quality Guidelines			
StnName	Middle Quinsam Lake Outlet										
StnCode	WB										
Date	Unit	5-Oct-21	12-Oct-21	20-Oct-21	26-Oct-21	2-Nov-21	Count	Max	5 in 30 Ave	Average	Maximum
pH-F	pH Units	7.41	7.35	7.17	7.44	6.9	5	7.44	7.25		6.5 - 9.0
Cond-F	uS/cm	181.5	182.5	197.5	156.7	141.8	5	197.5	172		
SO4-D	mg/L	42	54	56	41	44	5	56	47.4	128	
TSS	mg/L	<1.0	<1.0	<1.0	<1.0	2.0	5	2.0	0.80	5	25
Alk-T	mg/L	50	47	44	36	34	5	50	42.2		
P-T	mg/L									0.007	
Al-T	mg/L	0.0100	0.0082	0.0091	0.0305	0.0321	5	0.0321	0.0180		
As-T	mg/L	0.00016	0.00017	0.00025	0.00025	0.00026	5	0.00026	0.00022		0.005
Ba-T	mg/L	0.0022	0.0027	0.0041	0.0029	0.0030	5	0.0041	0.0030	1	5
B-T	mg/L	0.063	0.059	0.063	<0.050	<0.050	5	0.063	0.0470	1.2	
Cd-T	mg/L	<0.000010	<0.000010	0.000088	<0.000010	<0.000010	5	0.000088	0.0000216		
Ca-T	mg/L	13.9	14.9	21.2	13.3	13.3	5	21.2	15.3		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	0.00051	5	0.00051	0.000302	0.002	0.007
Hard-T	mg/L	42.3	45.5	63.7	41.0	40.9	5	63.7	46.7		
Fe-T	mg/L	0.035	0.043	0.033	0.065	0.061	5	0.065	0.047		1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763
Mg-T	mg/L	1.83	1.99	2.63	1.86	1.88	5	2.63	2.04		
Mn-T	mg/L	0.0089	0.0082	0.0066	0.0081	0.0077	5	0.0089	0.0079	0.737	0.8706
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095	0.00002	0.00001
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1	2
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025	0.025
K-T	mg/L	0.304	0.286	0.302	0.275	0.281	5	0.304	0.290		
S-T	mg/L	14.5	14.3	18.8	12.3	12.3	5	18.8	14.4		
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001
Na-T	mg/L	20.8	17.9	14.5	13.1	12.5	5	20.8	15.8		
Sr-T	mg/L	0.0869	0.0924	0.135	0.0815	0.0818	5	0.135	0.0955		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033
Al-D	mg/L	0.0064	0.0058	0.0065	0.0164	0.0223	5	0.0223	0.0115	0.05	0.1
As-D	mg/L	0.00017	0.00017	0.00027	0.00021	0.00019	5	0.00027	0.00020		
Ba-D	mg/L	0.0020	0.0026	0.0041	0.0028	0.0028	5	0.0041	0.0029		
B-D	mg/L	0.059	0.060	0.060	0.053	<0.050	5	0.060	0.0514		
Cd-D	mg/L	<0.000010	<0.000010	0.000041	<0.000010	<0.000010	5	0.000041	0.0000122	0.000087	0.00017
Ca-D	mg/L	12.9	14.6	21.9	13.6	13.0	5	21.9	15.2		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Cu-D	mg/L	0.00041	0.00038	0.00032	0.00045	0.00050	5	0.00050	0.00041	0.0005	
Hard-D	mg/L	39.6	44.4	65.5	41.4	40.4	5	65.5	46.3		
DOC	mg/L	1.5	1.6	2.5	2.6	3.3	5	3.3	2.3		
Fe-D	mg/L	0.0206	0.0237	0.0206	0.0352	0.0432	5	0.0432	0.0287		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Mg-D	mg/L	1.76	1.94	2.65	1.81	1.91	5	2.65	2.01		
Mn-D	mg/L	0.0014	0.0026	0.0039	0.0034	0.0036	5	0.0039	0.0030		
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	5	<0.0000019	0.00000095		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
K-D	mg/L	0.282	0.287	0.330	0.276	0.291	5	0.330	0.293		
S-D	mg/L	13.5	14.7	18.8	12.5	12.3	5	18.8	14.4		
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050		
Na-D	mg/L	19.8	17.7	15.0	13.2	13.3	5	19.8	15.8		
Sr-D	mg/L	0.0787	0.0927	0.145	0.0834	0.0785	5	0.145	0.0957		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		
Notes:											
Factor applied to less-than results when calculating statistics: 0.5											

Table 49 Summer and Fall Rivers 20 Page(s)

EMS ID	Water Quality Guidelines										
StnName	Quinsam River Downstream of Seepage Area and Groundwater Discharge Zone										
StnCode	QRDS										
Date	Unit	5-Oct-21	12-Oct-21	19-Oct-21	26-Oct-21	2-Nov-21	Count	Max	5 in 30 Ave	Average	Maximum
pH-F	pH Units	7.5	7.4	7.82	High flow on river could not access site.		3	7.82	7.57		6.5 - 9.0
Cond-F	uS/cm	177.1	131.2	206.5			3	206.5	171.6		
SO4-D	mg/L	43	47	54			3	54	48.0	128	
TSS	mg/L	<1.0	<1.0	2.4			3	2.4	1.13	5	25
Alk-T	mg/L	46	44	44			3	46	44.7		
P-T	mg/L									0.007	
Al-T	mg/L	0.0483	0.0098	0.0093			3	0.0483	0.0225		
As-T	mg/L	0.00038	0.00018	0.00021			3	0.00038	0.00026		0.005
Ba-T	mg/L	0.0027	0.0025	0.0030			3	0.0030	0.0027	1	5
B-T	mg/L	<0.10	0.058	0.059			3	0.059	0.056	1.2	
Cd-T	mg/L	<0.000020	<0.000010	<0.000010			3	<0.000020	0.0000067		
Ca-T	mg/L	14.2	14.9	17.3			3	17.3	15.5		
Cr-T	mg/L	<0.0020	<0.0010	<0.0010			3	<0.0020	0.00067		
Co-T	mg/L	<0.00040	<0.00020	<0.00020			3	<0.00040	0.000133	0.004	0.11
Cu-T	mg/L	<0.0010	<0.00050	<0.00050			3	<0.0010	0.000333	0.002	0.007
Hard-T	mg/L	43.2	45.7	51.8			3	51.8	46.9		
Fe-T	mg/L	0.229	0.044	0.032			3	0.229	0.102		1
Pb-T	mg/L	<0.00040	<0.00020	<0.00020			3	<0.00040	0.000133	0.0039978	0.01763
Mg-T	mg/L	1.85	2.04	2.11			3	2.11	2.00		
Mn-T	mg/L	0.0447	0.0073	0.0049			3	0.0447	0.0190	0.737	0.8706
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019			3	<0.0000019	0.00000095	0.00002	0.00001
Mo-T	mg/L	<0.0020	<0.0010	<0.0010			3	<0.0020	0.00067	1	2
Ni-T	mg/L	<0.0020	<0.0010	<0.0010			3	<0.0020	0.00067	0.025	0.025
K-T	mg/L	0.31	0.296	0.298			3	0.31	0.301		
S-T	mg/L	15.5	14.8	15.8			3	15.8	15.4		
Se-T	mg/L	<0.00020	<0.00010	<0.00010			3	<0.00020	0.000067	0.002	
Ag-T	mg/L	<0.000040	<0.000020	<0.000020			3	<0.000040	0.0000133	0.00005	0.0001
Na-T	mg/L	21.8	18.3	14.8			3	21.8	18.3		
Sr-T	mg/L	0.0883	0.0919	0.109			3	0.109	0.0964		
Zn-T	mg/L	<0.010	<0.0050	<0.0050			3	<0.010	0.00333	0.0075	0.033
Al-D	mg/L	0.0057	0.0052	0.0063			3	0.0063	0.0057	0.05	0.1
As-D	mg/L	0.00018	0.00017	0.00023			3	0.00023	0.00019		
Ba-D	mg/L	0.0020	0.0023	0.0031			3	0.0031	0.0025		
B-D	mg/L	0.058	0.058	0.058			3	0.058	0.058		
Cd-D	mg/L	<0.000010	<0.000010	<0.000010			3	<0.000010	0.0000050	0.000087	0.00017
Ca-D	mg/L	13.1	14.6	16.9			3	16.9	14.9		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010			3	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020			3	<0.00020	0.000100		
Cu-D	mg/L	0.00041	0.00042	0.00039			3	0.00042	0.00041		
Hard-D	mg/L	39.9	44.6	51.1			3	51.1	45.2		
DOC	mg/L	1.4	1.5	2.6			3	2.6	1.8		
Fe-D	mg/L	0.0187	0.0183	0.0178			3	0.0187	0.0183		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020			3	<0.00020	0.000100		
Mg-D	mg/L	1.76	1.97	2.14			3	2.14	1.96		
Mn-D	mg/L	0.0015	0.0013	0.0018			3	0.0018	0.0015		
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019			3	<0.0000019	0.00000095		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010			3	<0.0010	0.00050		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010			3	<0.0010	0.00050		
K-D	mg/L	0.281	0.293	0.316			3	0.316	0.297		
S-D	mg/L	13.7	14.5	15.0			3	15.0	14.4		
Se-D	mg/L	<0.00010	<0.00010	<0.00010			3	<0.00010	0.000050		
Na-D	mg/L	20.0	17.6	15.6			3	20.0	17.7		
Sr-D	mg/L	0.0789	0.0924	0.111			3	0.111	0.0941		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050			3	<0.0050	0.00250		
Notes: Unable to collect last two samples due to Quinsam River increasing flow rate causing dangerous conditions.											
Factor applied to less-than results when calculating statistics: 0.5											

Notes: Unable to collect last two samples due to Quinsam River increasing flow rate causing dangerous conditions.

Factor applied to less-than results when calculating statistics: 0.5

Table 49 Summer and Fall Rivers 20 Page(s)

EMS ID	E286930							Water Quality Guidelines			
StnName	Quinsam River Downstream Site 1										
StnCode	QRDS1										
Date	Unit	5-Oct-21	12-Oct-21	18-Oct-21	25-Oct-21	2-Nov-21	Count	Max	5 in 30 Ave	Average	Maximum
pH-F	pH Units	7.65	7.59	7.37	7.22	7.49	5	7.65	7.46		6.5 - 9.0
Cond-F	uS/cm	178.7	179.1	181.6	118.2	195.2	5	195.2	170.6		
SO4-D	mg/L	42	47	53	32	36	5	53	42	128	
TSS	mg/L	<1.0	<1.0	2.4	2	<1.0	5	2.4	1.18	5	25
Alk-T	mg/L	52	45	46	24	33	5	52	40.0		
P-T	mg/L									0.007	
Al-T	mg/L	0.0172	0.0085	0.0101	0.0849	0.0325	5	0.0849	0.0306		
As-T	mg/L	0.00022	0.00022	0.00025	0.00038	0.00038	5	0.00038	0.00029		0.005
Ba-T	mg/L	0.0024	0.0024	0.0031	0.0037	0.0031	5	0.0037	0.0029	1	5
B-T	mg/L	<0.10	0.059	0.062	<0.050	0.052	5	0.062	0.050	1.2	
Cd-T	mg/L	<0.000020	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000020	0.0000060		
Ca-T	mg/L	14.6	14.7	16.7	11.5	13.2	5	16.7	14.1		
Cr-T	mg/L	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0020	0.00060		
Co-T	mg/L	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00040	0.000120	0.004	0.11
Cu-T	mg/L	<0.0010	<0.00050	0.00052	0.00075	0.0007	5	0.00075	0.000544	0.002	0.007
Hard-T	mg/L	43.9	44.8	50.5	36.6	41.1	5	50.5	43.4		
Fe-T	mg/L	0.04	0.036	0.039	0.093	0.071	5	0.093	0.056		1
Pb-T	mg/L	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00040	0.000120	0.0039978	0.01763
Mg-T	mg/L	1.84	1.97	2.16	1.89	1.95	5	2.16	1.96		
Mn-T	mg/L	0.0064	0.0047	0.0052	0.0099	0.0059	5	0.0099	0.0064	0.737	0.8706
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019	0.0000023	<0.0000019	5	0.0000023	0.00000122	0.00002	0.00001
Mo-T	mg/L	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0020	0.00060	1	2
Ni-T	mg/L	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0020	0.00060	0.025	0.025
K-T	mg/L	0.300	0.291	0.294	0.26	0.308	5	0.308	0.291		
S-T	mg/L	15.9	14.1	15.5	9.4	12.4	5	15.9	13.5		
Se-T	mg/L	<0.00020	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00020	0.000060	0.002	
Ag-T	mg/L	<0.000040	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000040	0.0000120	0.00005	0.0001
Na-T	mg/L	21.6	18.2	16.6	7.98	15.3	5	21.6	15.9		
Sr-T	mg/L	0.0896	0.0898	0.1050	0.073	0.0806	5	0.105	0.0876		
Zn-T	mg/L	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.010	0.00300	0.0075	0.033
Al-D	mg/L	0.0051	0.0056	0.0058	0.056	0.0227	5	0.056	0.019	0.05	0.1
As-D	mg/L	0.00021	0.00022	0.00025	0.00031	0.00032	5	0.00032	0.00026		
Ba-D	mg/L	0.002	0.0024	0.003	0.0035	0.0029	5	0.0035	0.0028		
B-D	mg/L	0.06	0.058	0.059	<0.050	0.055	5	0.06	0.0514		
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017
Ca-D	mg/L	13	14.3	17.1	11.5	12.6	5	17.1	13.7		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Cu-D	mg/L	0.00038	0.00043	0.00032	0.00066	0.00056	5	0.00066	0.00047	0.0006	
Hard-D	mg/L	39.8	43.5	51.5	36.3	39.3	5	51.5	42.1		
DOC	mg/L	1.5	1.3	1.4	4.3	2.6	5	4.3	2.2		
Fe-D	mg/L	0.0183	0.0183	0.0196	0.0475	0.0449	5	0.0475	0.0297		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Mg-D	mg/L	1.8	1.91	2.14	1.84	1.91	5	2.14	1.92		
Mn-D	mg/L	0.0012	0.0012	0.0015	0.0029	0.0027	5	0.0029	0.0019		
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	0.0000024	<0.0000019	5	0.0000024	0.00000124		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
K-D	mg/L	0.283	0.294	0.308	0.255	0.294	5	0.308	0.287		
S-D	mg/L	14	14.1	15.4	9.1	12.2	5	15.4	13		
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050		
Na-D	mg/L	20.1	17.8	17.3	7.73	14.8	5	20.1	15.6		
Sr-D	mg/L	0.0803	0.0891	0.11	0.0743	0.0782	5	0.11	0.0864		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		
Notes:											
Factor applied to less-than results when calculating statistics: 0.5											

Table 49 Summer and Fall Rivers 20 Page(s)

EMS ID	E292113							Water Quality Guidelines			
StnName	7 South Quinsam River										
StnCode	75QR										
Date	Unit	5-Oct-21	12-Oct-21	19-Oct-21	26-Oct-21	2-Nov-21	Count	Max	5 in 30 Ave	Average	Maximum
pH-F	pH Units	7.32	7.39	7.26	6.67	7.18	5	7.39	7.16		6.5 - 9.0
Cond-F	uS/cm	181.1	170.9	172.8	112	115.2	5	181.1	150.4		
SO4-D	mg/L	42	52	46	34	41	5	52	43.0	128	
TSS	mg/L	<1.0	<1.0	9.2	2.8	<1.0	5	9.2	2.70	5	25
Alk-T	mg/L	46	47	44	25	38	5	47	40.0		
P-T	mg/L										
Al-T	mg/L	0.0260	0.0150	0.0245	0.127	0.0371	5	0.127	0.0459		
As-T	mg/L	0.00037	0.00031	0.00034	0.00047	0.00043	5	0.00047	0.00038		0.005
Ba-T	mg/L	0.0027	0.0027	0.0032	0.0040	0.0032	5	0.0040	0.0032	1	5
B-T	mg/L	0.071	0.063	0.060	<0.050	<0.050	5	0.071	0.0488	1.2	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050		
Ca-T	mg/L	14.3	14.0	15.9	11.7	12.5	5	15.9	13.7		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11
Cu-T	mg/L	<0.00050	<0.00050	0.00053	0.00084	0.00066	5	0.00084	0.000506	0.002	0.007
Hard-T	mg/L	43.8	43.0	48.2	36.5	38.3	5	48.2	42.0		
Fe-T	mg/L	0.112	0.085	0.095	0.188	0.110	5	0.188	0.118		1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763
Mg-T	mg/L	1.91	1.94	2.05	1.78	1.74	5	2.05	1.88		
Mn-T	mg/L	0.0072	0.0066	0.0065	0.0101	0.0082	5	0.0101	0.0077	0.737	0.8706
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019	0.0000020	<0.0000019	5	0.0000020	0.00000116	0.00002	0.00001
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1	2
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025	0.025
K-T	mg/L	0.327	0.298	0.291	0.290	0.283	5	0.327	0.298		
S-T	mg/L	13.7	13.2	14.2	8.9	10.1	5	14.2	12.0		
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001
Na-T	mg/L	20.4	19.0	15.5	7.59	12.7	5	20.4	15.04		
Sr-T	mg/L	0.0854	0.0849	0.0981	0.0654	0.0759	5	0.0981	0.0819		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	0.0057	<0.0050	5	0.0057	0.00314	0.0075	0.033
Al-D	mg/L	0.0067	0.0065	0.0121	0.0507	0.0268	5	0.0507	0.0206	0.05	0.1
As-D	mg/L	0.00031	0.00030	0.00032	0.00037	0.00035	5	0.00037	0.00033		
Ba-D	mg/L	0.0025	0.0026	0.0032	0.0035	0.0030	5	0.0035	0.0030		
B-D	mg/L	0.060	0.060	0.057	<0.050	<0.050	5	0.060	0.0454		
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017
Ca-D	mg/L	13.1	13.7	15.2	11.7	11.9	5	15.2	13.1		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Cu-D	mg/L	0.00040	0.00041	0.00048	0.00076	0.00061	5	0.00076	0.00053	0.0005	
Hard-D	mg/L	40.2	42.0	46.4	36.2	37.0	5	46.4	40.4		
DOC	mg/L	1.7	1.9	2.6	4.3	3.5	5	4.3	2.8		
Fe-D	mg/L	0.0560	0.0527	0.0586	0.0679	0.0773	5	0.0773	0.0625		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Mg-D	mg/L	1.83	1.86	2.02	1.69	1.79	5	2.02	1.84		
Mn-D	mg/L	0.0053	0.0052	0.0053	0.0060	0.0064	5	0.0064	0.0056		
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	0.0000033	<0.0000019	5	0.0000033	0.00000142		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
K-D	mg/L	0.314	0.292	0.293	0.283	0.290	5	0.314	0.294		
S-D	mg/L	13.4	13.5	12.6	9.0	10.9	5	13.5	11.9		
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050		
Na-D	mg/L	19.8	18.3	15.0	7.62	13.4	5	19.8	14.82		
Sr-D	mg/L	0.0778	0.0844	0.0930	0.0661	0.0704	5	0.0930	0.0783		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Table 49 Summer and Fall Rivers 20 Page(s)

EMS ID	E299256							Water Quality Guidelines			
StnName	Iron River & Quinsam River										
StnCode	IRQR										
Date	Unit	5-Oct-21	12-Oct-21	19-Oct-21	26-Oct-21	2-Nov-21	Count	Max	5 in 30 Ave	Average	Maximum
pH-F	pH Units	7.26	7.43	7.2	6.81	7.18	5	7.43	7.18		6.5 - 9.0
Cond-F	uS/cm	140.6	141.8	64.8	80.2	67.2	5	141.8	98.9		
SO4-D	mg/L	28	30	25	17	24	5	30	24.8	128	
TSS	mg/L	<1.0	<1.0	<1.0	3.2	<1.0	5	3.2	1.04	5	25
Alk-T	mg/L	41	41	35	21	35	5	41	34.6		
P-T	mg/L									0.007	
Al-T	mg/L	0.047	0.0199	0.0403	0.261	0.0449	5	0.261	0.0826		
As-T	mg/L	0.00070	0.00064	0.00061	0.00076	0.00063	5	0.00076	0.00067		0.005
Ba-T	mg/L	<0.0050	0.0035	0.0036	0.0050	0.0038	5	0.0050	0.00368	1	5
B-T	mg/L	<0.25	<0.050	<0.050	<0.050	<0.050	5	<0.25	0.0450	1.2	
Cd-T	mg/L	<0.000050	<0.000010	<0.000010	0.000015	<0.000010	5	<0.000050	0.0000110		
Ca-T	mg/L	13.1	13.0	12.5	9.35	11.2	5	13.1	11.83		
Cr-T	mg/L	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0050	0.00090		
Co-T	mg/L	<0.0010	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.0010	0.000180	0.004	0.11
Cu-T	mg/L	<0.0025	0.00056	0.00068	0.00128	0.00070	5	0.00128	0.00089		
Hard-T	mg/L	39.0	38.9	37.3	28.6	34.0	5	39.0	35.6		
Fe-T	mg/L	0.082	0.069	0.076	0.348	0.086	5	0.348	0.132		1
Pb-T	mg/L	<0.0010	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.0010	0.000180	0.0039978	0.01763
Mg-T	mg/L	1.53	1.56	1.45	1.27	1.45	5	1.56	1.45		
Mn-T	mg/L	0.0052	0.0044	0.0042	0.0117	0.0058	5	0.0117	0.0063	0.737	0.8706
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019	0.0000023	<0.0000019	5	0.0000023	0.00000122	0.00002	0.00001
Mo-T	mg/L	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0050	0.00090	1	2
Ni-T	mg/L	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0050	0.00090	0.025	0.025
K-T	mg/L	0.28	0.243	0.226	0.261	0.246	5	0.28	0.251		
S-T	mg/L	<15	8.9	7.7	4.8	6.2	5	8.9	7.0		
Se-T	mg/L	<0.00050	<0.00010	0.00012	<0.00010	0.00011	5	<0.00050	0.000116	0.002	
Ag-T	mg/L	<0.00010	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.00010	0.0000180	0.00005	0.0001
Na-T	mg/L	13.6	11.6	8.19	4.32	8.23	5	13.6	9.19		
Sr-T	mg/L	0.0677	0.0656	0.0639	0.0436	0.0598	5	0.0677	0.0601		
Zn-T	mg/L	<0.025	<0.0050	<0.0050	0.0083	<0.0050	5	<0.025	0.00566	0.0075	0.033
Al-D	mg/L	0.0138	0.0146	0.0288	0.0868	0.0330	5	0.0868	0.0354	0.05	0.1
As-D	mg/L	0.00063	0.00064	0.00061	0.00035	0.00055	5	0.00064	0.00056		
Ba-D	mg/L	0.0033	0.0036	0.0038	0.0038	0.0037	5	0.0038	0.0036		
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250		
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	0.000011	<0.000010	5	0.000011	0.0000062	0.000087	0.00017
Ca-D	mg/L	12.1	13.0	13.0	8.85	11.1	5	13.0	11.61		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Cu-D	mg/L	0.00056	0.00056	0.00058	0.00091	0.00070	5	0.00091	0.00066	0.0006	
Hard-D	mg/L	36.5	39.0	38.9	26.6	34.0	5	39.0	35.0		
DOC	mg/L	2.5	2.0	3.0	5.3	3.7	5	5.3	3.3		
Fe-D	mg/L	0.0448	0.0471	0.0445	0.0596	0.0601	5	0.0601	0.0512		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Mg-D	mg/L	1.51	1.57	1.54	1.09	1.50	5	1.57	1.44		
Mn-D	mg/L	0.0036	0.0036	0.0029	0.0035	0.0045	5	0.0045	0.0036		
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	0.0000039	<0.0000019	5	0.0000039	0.00000154		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
K-D	mg/L	0.257	0.245	0.242	0.235	0.260	5	0.260	0.248		
S-D	mg/L	8.4	8.9	8.2	3.3	7.0	5	8.9	7.2		
Se-D	mg/L	<0.00010	<0.00010	0.00010	<0.00010	0.00011	5	0.00011	0.000072		
Na-D	mg/L	12.7	11.6	8.86	3.78	8.93	5	12.7	9.17		
Sr-D	mg/L	0.0622	0.0669	0.0694	0.0419	0.0567	5	0.0694	0.0594		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Table 49 Summer and Fall Rivers 20 Page(s)

EMS ID	E297231							Water Quality Guidelines			
StnName	Iron River Site 6										
StnCode	IR6										
Date	Unit	7-Oct-21	12-Oct-21	19-Oct-21	26-Oct-21	2-Nov-21	Count	Max	5 in 30 Ave	Average	Maximum
pH-F	pH Units	7.38	7.46	7.36	7.22	7.27	5	7.46	7.34		6.5 - 9.0
Cond-F	uS/cm	74.3	72.8	62	52.1	72.5	5	74.3	66.7		
SO4-D	mg/L	5.7	5.8	4.7	1.5	5.8	5	5.8	4.7	128	
TSS	mg/L	<1.0	<1.0	<1.0	6.4	<1.0	5	6.4	1.68	5	25
Alk-T	mg/L	32	32	24	17	32	5	32	27.4		
P-T	mg/L									0.007	
Al-T	mg/L	0.0374	0.0385	0.0697	0.348	0.0665	5	0.348	0.1120		
As-T	mg/L	0.00086	0.00080	0.00066	0.00060	0.00074	5	0.00086	0.00073		0.005
Ba-T	mg/L	0.0046	0.0043	0.0043	0.0053	0.0044	5	0.0053	0.0046	1	5
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2	
Cd-T	mg/L	0.000012	0.000010	0.000014	0.000027	0.000013	5	0.000027	0.000015		
Ca-T	mg/L	11.4	10.8	9.41	7.00	10.2	5	11.4	9.76		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	0.00023	<0.00020	5	0.00023	0.000126	0.004	0.11
Cu-T	mg/L	0.00067	0.00072	0.00078	0.00140	0.00067	5	0.00140	0.00085	0.002	0.007
Hard-T	mg/L	32.3	30.6	27.0	20.7	28.8	5	32.3	27.9		
Fe-T	mg/L	0.018	0.026	0.042	0.429	0.037	5	0.429	0.110		1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763
Mg-T	mg/L	0.945	0.914	0.860	0.777	0.799	5	0.945	0.859		
Mn-T	mg/L	<0.0010	0.0010	0.0013	0.0113	0.0014	5	0.0113	0.00310	0.737	0.8706
Hg-T	mg/L	<0.0000019	<0.0000019	<0.0000019	0.0000039	<0.0000019	5	0.0000039	0.00000154	0.00002	0.00001
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1	2
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025	0.025
K-T	mg/L	0.175	0.171	0.167	0.242	0.175	5	0.242	0.186		
S-T	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50		
Se-T	mg/L	0.00022	0.00022	0.00020	0.00014	0.00024	5	0.00024	0.00020	0.002	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001
Na-T	mg/L	1.24	1.15	1.10	0.941	1.07	5	1.24	1.100		
Sr-T	mg/L	0.0396	0.0351	0.0322	0.0246	0.0372	5	0.0396	0.0337		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033
Al-D	mg/L	0.0359	0.0340	0.0543	0.125	0.0567	5	0.125	0.0612	0.05	0.1
As-D	mg/L	0.00088	0.00080	0.00064	0.00035	0.00064	5	0.00088	0.00066		
Ba-D	mg/L	0.0048	0.0043	0.0043	0.0042	0.0043	5	0.0048	0.0044		
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250		
Cd-D	mg/L	0.000010	<0.000010	0.000013	0.000016	0.000013	5	0.000016	0.0000114	0.000087	0.00017
Ca-D	mg/L	11.6	10.8	9.14	6.55	10.4	5	11.6	9.70		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Cu-D	mg/L	0.00072	0.00064	0.00081	0.00091	0.00070	5	0.00091	0.00076	0.001	
Hard-D	mg/L	32.7	30.6	26.1	19.0	29.4	5	32.7	27.6		
DOC	mg/L	4.2	3.2	5.4	6.8	4.5	5	6.8	4.8		
Fe-D	mg/L	0.0164	0.0176	0.0305	0.0536	0.0282	5	0.0536	0.0293		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Mg-D	mg/L	0.913	0.914	0.792	0.655	0.847	5	0.914	0.824		
Mn-D	mg/L	<0.0010	<0.0010	<0.0010	0.0018	<0.0010	5	0.0018	0.00076		
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	0.0000048	0.0000023	5	0.0000048	0.00000199		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
K-D	mg/L	0.175	0.168	0.168	0.211	0.186	5	0.211	0.182		
S-D	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50		
Se-D	mg/L	0.00023	0.00021	0.00020	0.00013	0.00027	5	0.00027	0.00021		
Na-D	mg/L	1.24	1.15	1.05	0.855	1.13	5	1.24	1.085		
Sr-D	mg/L	0.0391	0.0353	0.0315	0.0244	0.0356	5	0.0391	0.0332		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		

Notes:

Factor applied to less-than results when calculating statistics: 0.5

Table 49 Summer and Fall Rivers 20 Page(s)

EMS ID	E297232							Water Quality Guidelines			
StnName	Iron River Site 8										
StnCode	IR8										
Date	Unit	7-Oct-21	12-Oct-21	19-Oct-21	26-Oct-21	2-Nov-21	Count	Max	5 in 30 Ave	Average	Maximum
pH-F	pH Units	7.51	7.5	7.4	7.04	7.35	5	7.51	7.36		6.5 - 9.0
Cond-F	uS/cm	84	77.5	66.3	46	65.3	5	84	67.8		
SO4-D	mg/L	5.5	6.1	5.0	1.0	5.1	5	6.1	4.5	128	
TSS	mg/L	<1.0	<1.0	<1.0	2.8	<1.0	5	2.8	0.96	5	25
Alk-T	mg/L	32	32	26	16	29	5	32	27.0		
P-T	mg/L									0.007	
Al-T	mg/L	0.0387	0.0383	0.0640	0.264	0.0595	5	0.264	0.0929		
As-T	mg/L	0.00172	0.00150	0.00103	0.00063	0.00112	5	0.00172	0.00120		0.005
Ba-T	mg/L	0.0053	0.0048	0.0046	0.0047	0.0046	5	0.0053	0.0048	1	5
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2	
Cd-T	mg/L	0.000021	<0.000010	0.000013	0.000019	0.000012	5	0.000021	0.0000140		
Ca-T	mg/L	11.8	11.1	9.37	7.02	10.3	5	11.8	9.92		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11
Cu-T	mg/L	0.00076	0.00076	0.00077	0.00119	0.00067	5	0.00119	0.00083		
Hard-T	mg/L	33.6	31.7	27.1	20.7	28.9	5	33.6	28.4		
Fe-T	mg/L	0.019	0.026	0.041	0.256	0.034	5	0.256	0.075		1
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.0039978	0.01763
Mg-T	mg/L	1.02	0.996	0.895	0.780	0.807	5	1.02	0.900		
Mn-T	mg/L	<0.0010	0.0011	0.0013	0.0088	0.0012	5	0.0088	0.00258	0.737	0.8706
Hg-T	mg/L	0.0000020	<0.0000019	0.0000022	0.0000037	<0.0000019	5	0.0000037	0.00000196	0.00002	0.00001
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1	2
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025	0.025
K-T	mg/L	0.188	0.174	0.163	0.219	0.168	5	0.219	0.182		
S-T	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50		
Se-T	mg/L	0.00023	0.00021	0.00021	0.00013	0.00020	5	0.00023	0.00020	0.002	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001
Na-T	mg/L	1.38	1.28	1.12	1.06	1.09	5	1.38	1.19		
Sr-T	mg/L	0.0409	0.0365	0.0326	0.0243	0.0358	5	0.0409	0.0340		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033
Al-D	mg/L	0.0329	0.0330	0.0522	0.112	0.0519	5	0.112	0.0564	0.05	0.1
As-D	mg/L	0.00165	0.00148	0.00099	0.00039	0.00109	5	0.00165	0.00112		
Ba-D	mg/L	0.0052	0.0046	0.0046	0.0040	0.0047	5	0.0052	0.0046		
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250		
Cd-D	mg/L	0.000066	0.000010	0.000012	0.000012	0.000012	5	0.000066	0.000022	0.000087	0.00017
Ca-D	mg/L	11.4	10.7	9.33	6.65	9.99	5	11.4	9.61		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Cu-D	mg/L	0.00082	0.00068	0.00082	0.00084	0.00069	5	0.00084	0.00077	0.0009	
Hard-D	mg/L	32.4	30.6	26.7	19.4	28.6	5	32.4	27.5		
DOC	mg/L	4.1	2.7	4.2	6.0	4.4	5	6.0	4.3		
Fe-D	mg/L	0.0172	0.0177	0.0313	0.0509	0.0261	5	0.0509	0.0286		0.35
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		
Mg-D	mg/L	0.946	0.954	0.822	0.685	0.886	5	0.954	0.859		
Mn-D	mg/L	<0.0010	<0.0010	<0.0010	0.0015	<0.0010	5	0.0015	0.00070		
Hg-D	mg/L	<0.0000019	<0.0000019	<0.0000019	0.0000041	<0.0000019	5	0.0000041	0.00000158		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		
K-D	mg/L	0.179	0.173	0.170	0.197	0.180	5	0.197	0.180		
S-D	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50		
Se-D	mg/L	0.00023	0.00021	0.00019	0.00012	0.00023	5	0.00023	0.00020		
Na-D	mg/L	1.37	1.25	1.12	0.953	1.23	5	1.37	1.185		
Sr-D	mg/L	0.0393	0.0358	0.0323	0.0239	0.0338	5	0.0393	0.0330		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		
Notes:											
Factor applied to less-than results when calculating statistics: 0.5											

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 50 Stats 2017-2021 30 Page(s)

2017 -18 Statistics Stn.Code EMS. ID		Site Name & Description	Statistics	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hg-T	Hg-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3	
WA E0126402	Quinsam River at Argonaut Road Upstream of Mining Operation.	Average	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Count		16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16					
Minimum		<0.00010	<0.00010	0.0174	0.0148	16.9	<0.00010	<0.000050	0.00055	<0.010	0.0076	<0.0010	<0.0010	<0.000020	<0.0000020	<0.0000020	17	<0.0010	<0.0010	<0.00020	<0.00020	<0.50	<0.0050	<0.0050							
Maximum		0.0002	0.00017	0.0885	0.0359	23.9	<0.00010	<0.000050	0.00101	0.001	0.023	0.0308	0.0021	0.0011	<0.0000020	<0.0000020	<0.0000020	22.1	<0.0010	<0.0010	<0.00020	<0.00020	1.43	<0.0050	<0.0050						
Geometric Mean		0.000101	0.00009	0.0262	0.0222	20.8	0.000005	0.0000025	0.00066	0.00067	0.0153	0.0139	0.00101	0.00055	0.000001	0.000001	19.8	0.0005	0.00050	0.000100	0.000100	0.795	0.00250	0.0025							
Count <DL		4	6	0	0	0	16	16	1	0	1	0	5	14	16	0	16	16	16	16	16	6	16	16							
Standard Deviation		0.000041	0.000041	0.0171	0.0059	2.2	1E-14	4E-15	0.000182	0.00013	0.0046	0.0057	0.00051	0.00019	0	0	1.5	0	0.00000	0.000000	0.000000	0.424	4E-11	4E-11							
1st Quartile		0.000095	<0.00010	0.0202	0.0186	20.2	<0.000010	<0.000050	0.000635	0.00061	0.014	0.0109	<0.0010	<0.0010	<0.0000020	<0.0000020	<0.0000020	18.8	<0.0010	<0.0010	<0.00020	<0.00020	<1.0	<0.0050	<0.0050						
Median		0.00012	0.00011	0.0245	0.0221	21.2	<0.000010	<0.000050	0.00066	0.00062	0.017	0.0138	0.0012	<0.0010	<0.0000020	<0.0000020	<0.0000020	20	<0.0010	<0.0010	<0.00020	<0.00020	1.05	<0.0050	<0.0050						
3rd Quartile		0.00013	0.00013	0.0293	0.0264	22.7	<0.000010	<0.000050	0.000762	0.00072	0.0185	0.0159	0.00143	<0.0010	<0.0000020	<0.0000020	<0.0000020	21.1	<0.0010	<0.0010	<0.00020	<0.00020	1.275	<0.0050	<0.0050						
WD E207409		Settling Pond #4	Average	0.00234	0.00146	0.03103	0.00926	369	0.0000257	0.00001214	0.00132	0.00061	0.502	0.01539	0.1064	0.0948	0.000001	0.000001	317	0.004	0.00378	0.000200	0.000250	506	0.00558	0.00668					
Count			8	8	8	8	15	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	52	8	8					
Minimum			0.0014	0.00097	<0.015	0.0055	321	<0.000010	<0.000050	0.00061	0.00041	0.166	0.0072	0.0376	0.0314	<0.0000020	<0.0000020	222	<0.0010	<0.0010	<0.00020	<0.00020	229	<0.0050	<0.0050						
Maximum			0.00305	0.00226	0.14	0.0174	453	0.000068	0.0000271	0.00386	0.00088	1.17	0.0519	0.191	0.167	<0.0000020	<0.0000020	451	0.0117	0.0099	<0.0010	<0.0010	822	<0.025	<0.025						
Geometric Mean			0.00225	0.0014	0.01864	0.00878	366	0.0000204	0.0000099	0.001094	0.000592	0.427	0.01216	0.0911	0.0781	0.000001	0.000001	310	0.0027	0.0027	0.000150	0.000183	490	0.00426	0.00509						
Count <DL	0		0	2	3	0	3	4	2	3	0	3	0	3	0	0	8	8	0	3	4	8	8	0	7	7					
Standard Deviation	0.00065		0.00046	0.04453	0.00359	43	0.0000191	0.00000784	0.001065	0.000179	0.315	0.01494	0.0583	0.057	1E-14	0.0000000	70	0.00386	0.00322	0.000185	0.000207	130	0.00456	0.00496							
1st Quartile	0.00205		0.00109	0.01148	<0.015	337	0.0000163	0.00000725	0.000723	<0.0010	0.298	0.0079	0.0518	0.0408	<0.0000020	<0.0000020	273	0.00167	0.00225	<0.00020	<0.00020	425	<0.0050	<0.0050							
Median	0.00237		0.00138	0.0155	0.00835	350	0.0000235	<0.000025	0.00107	0.000515	0.452	0.0118	0.107	0.0914	<0.0000020	<0.0000020	319	<0.0050	<0.0050	<0.00020	<0.00020	498	<0.0050	0.0042							
3rd Quartile	0.00291		0.00171	0.02455	0.00967	398	0.0000267	0.00001363	0.001265	0.000782	0.586	<0.025	0.1442	0.1415	<0.0000020	<0.0000020	342	0.00458	0.00435	0.0002	<0.0010	545	0.00845	<0.025							
MW0010	Ex-situ 2-North deep groundwater well below the coal wash plant (Till)		Average		0.0197		0.0355	92.4		0.00000375		0.00143		0.0080		0.0082		0.0000010			0.0005		0.0001	27.4		0.0025		0.173			
Count			2	2	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				
Minimum			0.0189		0.0319	92.4	<0.000050		0.00124		<0.0050		0.0029		<0.0000020		<0.0000020		<0.0010		<0.00020	26.6		<0.0050		0.172					
Maximum			0.0205		0.0391	92.4	0.000005		0.00161		0.0135		0.0134		<0.0000020		<0.0000020		<0.0010		<0.00020	28.2		<0.0050		0.175					
Geometric Mean				0.0197		0.0353	92.4		0.00000354		0.00141		0.00581		0.0062		0.0000010			0.0005		0.0001	27.4		0.0025		0.173				
Count <DL		0	0	0	0	0	1	0	0	1	0	0	1	0	0	2	2	2	2	2	2	0	2	2	0						
Standard Deviation		0.0011		0.0051	0.0		0.00000177		0.00026		0.00778		0.007400		0.0000000			0		0	0	1.1		1E-11		0.002					
1st Quartile		0.0193		0.0337	92.4	0.00000313		0.00525		0.00133		0.00525		0.0055		<0.0000020		<0.0010		<0.00020	27		<0.0050		0.173						
Median		0.0197		0.0355	92.4	0.00000375		0.00143		0.0080		0.0082		0.0082		<0.0000020		<0.0010		<0.00020	27.4		<0.0050		0.173						
3rd Quartile		0.0201		0.0373	92.4	0.00000438		0.00152		0.01075		0.0108		<0.0000020		<0.0000020		<0.0010		<0.00020	27.8		<0.0050		0.174						
MW0015		Ex-situ 2-North shallow groundwater well below the coal wash plant (Till)	Average		0.000215		0.0045	344		0.000100		0.000515		0.0605		2.53		0.0000010			0.0025		0.0003000	754		0.0075		0.00920			
Count			2	2	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2			
Minimum			0.00018		<0.0030	344		0.000092		<0.0010		0.047		1.84		<0.0000020		<0.0050		<0.00020	754		<0.0050		0.0068						
Maximum			<0.00050		<0.015	344		0.000107		0.00053		0.074		3.22		<0.0000020		0.0025		<0.0010	754		<0.025		0.0117						
Geometric Mean			0.00021		0.00335	344		0.0000992		0.000515		0.059		2.4341		0.0000010		0.0025		0.0002240	754		0.00559		0.0089						
Count <DL	1		2	0	0	0	1	0	0	1	0	0																			

Table 50 Stats 2017-2021 30 Page(s)

2017 -18 Statistics																																
Stn.Code	Site Name & Description	Statistics	As-T		As-D		Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hg-T	Hg-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3	
EMS. ID			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
NNL1	No Name Lake 1 metre below surface	Average	0.00027	0.000260	0.0294	0.0248	13.1	0.0000089	0.0000025	0.000561	0.00054	0.065	0.0418	0.00739	0.00437	0.00000109	0.000001	14.1	0.0005	0.0005	0.000126	0.0001	1.685	0.00438	0.0025	0.0051						
E217018		Count	15	15	15	15	8	15	15	15	15	15	15	15	15	14	14	15	15	15	15	15	15	15	15	15	6					
		Minimum	0.00016	0.00015	0.0096	0.0092	10.3	<0.000010	<0.000050	<0.00050	0.00032	0.028	0.0222	<0.0010	<0.0010	<0.0000020	<0.0000020	10.9	<0.0010	<0.0010	<0.00020	<0.00020	<0.50	<0.0050	<0.0050	0.0044						
		Maximum	0.00036	0.00037	0.0755	0.0511	15.2	0.000063	<0.0000050	0.0021	0.0013	0.145	0.0939	0.0285	0.0252	0.00000023	<0.0000020	17.1	<0.0010	<0.0010	0.00049	<0.00020	3.2	0.0307	<0.0050	0.0073						
		Geometric Mean	0.00026	0.00025	0.0239	0.0221	13	0.00000590	0.0000025	0.000418	0.00051	0.058	0.0363	0.00501	0.00185	0.00000106	0.00000100	14	0.0005	0.0005	0.000111	0.0001	1.453	0.00295	0.0025	0.00500						
		Count <DL	0	0	0	0	0	0	14	15	9	0	0	0	1	5	13	14	0	15	15	14	15	2	14	15	0					
		Standard Deviation	0.000070	0.00008	0.0188	0.0119	2.0	0.000015	0	0.000535	0.00024	0.035	0.0255	0.00788	0.00697	0.00000035	0.00000000	1.8	0	0	0.00010100	0	0.785	0.00728	1E-10	0.0011						
		1st Quartile	0.00019	0.00018	0.0113	0.0131	11.3	<0.000010	<0.0000050	<0.00050	0.00042	0.042	0.0251	0.0036	<0.0010	<0.0000020	<0.0000020	12.8	<0.0010	<0.0010	<0.00020	<0.00020	1.345	<0.0050	<0.0050	0.0045						
		Median	0.00027	0.000270	0.0300	0.0239	14.2	<0.000010	<0.0000050	<0.00050	0.00048	0.055	0.0272	0.00420	0.00180	<0.0000020	<0.0000020	14.5	<0.0010	<0.0010	<0.00020	<0.00020	1.68	<0.0050	<0.0050	0.0047						
		3rd Quartile	0.00032	0.00033	0.0386	0.0309	14.5	<0.000010	<0.000050	0.00061	0.00063	0.076	0.0519	0.00675	0.00405	<0.0000020	<0.0000020	15.2	<0.0010	<0.0010	<0.00020	<0.00020	1.9	<0.0050	<0.0050	0.005						
NNL8	No Name Lake 1 metre from bottom	Average	0.00021	0.0002	0.0343	0.0285	11.8	0.000005	0.00000267	0.000859	0.0005	0.129	0.0855	0.0282	0.0243	0.00000109	0.00000126	15.5	0.0005	0.0005	0.0001	0.0001	4.08	0.0025	0.002500	0.00620						
E217018		Count	15	15	15	15	8	15	15	15	15	15	15	15	15	14	14	15	15	15	15	15	15	15	15	6						
		Minimum	0.00016	0.00015	0.0138	<0.0030	10.3	<0.000010	<0.0000050	<0.00050	0.00033	0.091	0.0507	0.0078	0.0026	<0.0000020	<0.0000020	12.6	<0.0010	<0.0010	<0.00020	<0.00020	1.7	<0.0050	<0.0050	0.0042						
		Maximum	0.00032	0.00029	0.06	0.0519	14	<0.000010	0.000005	0.00664	0.00134	0.233	0.156	0.0989	0.0984	0.00000022	0.00000034	18.3	<0.0010	<0.0010	<0.00020	<0.00020	5.13	<0.0050	<0.0050	0.0111						
		Geometric Mean	0.00021	0.000190	0.0328	0.02419	11.8	0.000005	0.00000262	0.00047	0.00046	0.124	0.0812	0.0193	0.0134	0.00000106	0.00000115	15.4	0.0005000	0.0005	0.0001	0.0001	3.93	0.0025	0.0025	0.00590						
		Count <DL	0	0	0	0	15	14	8	0	0	0	0	0	0	13	12	0	15	15	15	15	0	15	15	0						
		Standard Deviation	0.00005	0.00004	0.0104	0.01076	1.4	0	0.00000065	0.001616	0.00025	0.043	0.0311	0.0306	0.0311	0.00000032	0.00000069	1.6	0	0.00000000	0	0	1	1E-10	0.0000000	0.00250						
		1st Quartile	0.00018	0.00017	0.0297	0.0274	10.6	<0.000010	<0.0000050	<0.00050	0.00038	0.097	0.0653	0.0117	0.0076	<0.0000020	<0.0000020	14.5	<0.0010	<0.0010	<0.00020	<0.00020	3.58	<0.0050	<0.0050	0.0049						
		Median	0.0002	0.00018	0.0312	0.0284	11.6	<0.000010	<0.0000050	<0.00050	0.00042	0.125	0.0791	0.0137	0.0099	<0.0000020	<0.0000020	15.3	<0.0010	<0.0010	<0.00020	<0.00020	4.4	<0.0050	<0.0050	0.0054						
		3rd Quartile	0.00023	0.00022	0.0381	0.03055	13.0	<0.000010	<0.0000050	0.000705	0.00049	0.133	0.0864	0.0226	0.0189	<0.0000020	<0.0000020	16.8	<0.0010	<0.0010	<0.00020	<0.00020	4.84	<0.0050	<0.0050	0.0063						
NNO	No Name Lake Outlet	Average	0.00025	0.00024	0.0544	0.037	11.23	0.0000073	0.00000363	0.000625	0.00056	0.092	0.0564	0.00992	0.00058	0.00000014	0.00000012	13.17	0.0005	0.00050	0.000100	0.000100	1.633	0.00288	0.0025	0.0058	0.00519	0.0349	0.01655			
E217017		Count	15	16	15	16	15	15	16	15	16	15	16	15	16	15	15	15	15	15	16	15	16	15	15	16	14	14	14	14	14	
		Minimum	0.00017	0.00016	0.015	0.0134	6.5	<0.000010	<0.0000050	<0.00050	0.00036	0.042	0.024	<0.0010	<0.0010	<0.0000020	<0.0000020	7.87	<0.0010	<0.0010	<0.00020	<0.00020	<1.0	<0.0050	<0.0050	0.0026	<0.0020	<0.020	0.0058			
		Maximum	0.0004	0.00038	0.136	0.0664	16.6	0.000039	0.0000170	0.00111	0.00075	0.205	0.0901	0.0287	0.0231	0.00000028	0.00000027	16.7	<0.0010	<0.0010	<0.00020	<0.00020	2.7	0.0082	<0.0050	0.0136	0.015	0.075	0.042			
		Geometric Mean	0.00024	0.00023	0.0462	0.0340	10.95	0.0000057	0.00000298	0.000572	0.00055	0.084	0.0529	0.0069	0.00409	0.00000125	0.00000112	12.87	0.0005	0.00050	0.000100	0.000100	1.43	0.00271	0.0025	0.0053	0.00433	0.0263	0.01364			
		Count <DL	0	0	0	0	0	14	14	3	0	0	0	1	1	11	13	0	15	16	15	16	3	14	16	0	1	5	7			
		Standard Deviation	0.00007	0.00006	0.0352	0.015	2.58	0.0000088	0.00000367	0.000241	0.00013	0.0430	0.0203	0.00795	0.00665	0.00000063	0.00000051	2.8	0	0.00000	0.0000000	0.0000000	0.723	0.00147	4E-11	0.0028	0.00347	0.0249	0.01195			
		1st Quartile	0.00020	0.00019	0.0341	0.0263	9.86	<0.000010	<0.0000050	0.00052	0.00044	0.063	0.0416	0.00415	0.00245	<0.0000020	<0.0000020	11.4	<0.0010	<0.0010	<0.00020	<0.00020	1.265	<0.0050	<0.0050	0.0043	0.00333	<0.020	<0.020			
		Median	0.00025	0.00024	0.0432	0.0351	11.2	<0.000010	<0.0000050	0.00068	0.00055	0.081	0.0524	0.0069	0.000325	<0.0000020	<0.0000020	13.2	<0.0010	<0.0010	<0.00020	<0.00020	1.62	<0.0050	<0.0050	0.0052	0.0044	0.031	<0.020			
		3rd Quartile	0.00027	0.00026	0.0625	0.0483	12.4	<0.000010	<0.0000050	0.000765	0.00068	0.119	0.0763	0.01385	0.01103	0.000000155	<0.0000020	15.6	<0.0010	<0.0010	<0.00020	<0.00020	2.08	<0.0050	<0.0050	0.0064	0.00577	0.0573	0.020			
LLS	Small Seep into Long Lake	Average	0.00226	0.00163	0.0055	0.00332	213.3	0.00000670	0.00000377	0.000478	0.000324	0.69	0.30810	0.1757	0.1784	0.00000010	0.00000010	526	0.00155	0.00146	0.000133	0.000133	470	0.00333	0.00333	0.0031	0.0025	0.01	0.021			
E292131		Count	12	12	12	12	12	12	12	12	12	12	12	12	12	11	11	12	12	12	12	12	12	12	12	3	2	1	1			
		Minimum	0.00034	0.00026	<0.0030	<0.0030	161	<0.000010	<0.0000050	<0.00050	<0.00020	0.088	<0.0050	0.0343	0.0316	<0.0000020	<0.0000020	405	<0.0010	<0.0010	<0.00020	<0.00020	377									

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Table 50 Stats 2017-2021 30 Page(s)

2017 -18 Statistics		Stn.Code	Site Name & Description	Statistics																										
EMS. ID	As-T				As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hg-T	Hg-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3
MW002	Ex-situ 2-3 South shallow groundwater well beside 3-South Pit (1 Seam)	Average	0.00086	0.00098	0.00695	0.0105	229.5	0.0000150	0.0000106	0.00075	0.000445	2.64	2.92	1.77	1.77	0.0000010	0.0000010	1220	0.00225	0.0024	0.000300	0.000400	1282	0.00750	0.01		0.00277			
Count		2	4	2	4	4	4	2	4	2	4	2	4	2	4	1	4	2	2	4	2	4	4	2	4		4			
Minimum		0.00074	0.00066	0.0064	0.005	209	<0.000010	0.000005	<0.00050	0.00028	2.3	2.44	1.69	1.69	<0.0000020	<0.0000020	1170	0.002	0.002	<0.00020	<0.00020	1220	<0.0050	<0.0050		<0.0020				
Maximum		0.00097	0.00122	<0.015	0.022	249	<0.000050	<0.000025	<0.0025	<0.0010	2.98	3.42	1.85	1.95	<0.0000020	<0.0000020	1270	<0.0050	<0.0050	<0.0010	<0.0010	1360	<0.025	<0.025		0.0038				
Geometric Mean		0.00085	0.00096	0.00693	0.00887	228.7	0.0000112	0.0000099	0.00056	0.000433	2.62	2.8992	1.77	1.767	0.0000010	0.0000010	1218	0.00224	0.0024	0.000224	0.000334	1280	0.00559	0.00836		0.00247				
Count <DL		0	0	1	2	0	2	3	2	3	0	0	0	0	0	1	4	0	1	3	2	4	0	2	4		1			
Standard Deviation		0.00016	0.00025	0.00078	0.00776	21.4	0.0000141	0.0000038	0.00071	0.00011	0.48	0.4016	0.11	0.1208	0.0000000	0.0000000	70	0.00035	0.00025	0.000283	0.000200	73	0.00707	0.005		0.00126				
1st Quartile		0.0008	0.00086	0.00668	0.00688	212	0.00001	0.00001063	0.0005	0.000445	2.47	2.7625	1.73	1.7125	<0.0000020	<0.0000020	1195	0.0021	0.00237	0.0002	0.0004	1220	0.005	0.01000		0.00235				
Median		0.00086	0.00103	0.00695	<0.015	230	0.000015	<0.000025	0.00075	<0.0010	2.64	2.91	1.77	1.72	<0.0000020	<0.0000020	1220	0.00225	<0.0050	0.0003	<0.0010	1275	0.0075	<0.025		0.00315				
3rd Quartile		0.00091	0.00116	0.00722	0.01112	247.5	0.00002	<0.000025	0.001	<0.0010	2.81	3.0675	1.81	1.7775	<0.0000020	<0.0000020	1245	0.00237	<0.0050	0.0004	<0.0010	1337	0.01	<0.025		0.00358				
QU1009D	Ex-situ 4-South deep groundwater well. Down gradient of 4-South Mine. Base of Dunsmlar Member. Assesses vertical gradients & water quality down gradient of the 4-South Mine workings. Just outside of mine pool. (Below 3 Seam)	Average	0.101		0.00250	185		0.0000063		0.000550		0.655		0.1165		0.0000010				0.000500		0.0001000	83.7		0.00250		0.0265			
Count			2		2	2		2		2		2		2		2				2		2	2		2		2			
Minimum			0.100		<0.0030	184		<0.0000050		0.00033		0.517		0.098		<0.0000020				<0.0010		<0.00020	79		<0.0050		0.0178			
Maximum			0.102		0.0035	186		0.00001		0.00076		0.793		0.135		<0.0000020				<0.0010		<0.00020	88.4		<0.0050		0.0352			
Geometric Mean			0.101		0.00229	185		0.0000050		0.000500		0.6403		0.115		0.0000010				0.000500		0.0001000	83.6		0.00250		0.0250			
Count <DL			0		1	0		1		0		0		0		2				2		2	0		2		0			
Standard Deviation			0.001		0.00141	1.4		0.0000053		0.000300		0.1952		0.0262		0.0000000				0.0000000		0.0000000	6.6		0.00000		0.0123			
1st Quartile			0.101		0.00200	184.5		0.00000438		0.00044		0.586		0.1073		<0.0000020				<0.0010		<0.00020	81.3		<0.0050		0.0221			
Median			0.101		0.00250	185		0.00000625		0.00055		0.655		0.1165		<0.0000020				<0.0010		<0.00020	83.7		<0.0050		0.0265			
3rd Quartile			0.101		0.00300	185.5		0.00000813		0.00065		0.724		0.1258		<0.0000020				<0.0010		<0.00020	86.1		<0.0050		0.0309			
QU1009S	Ex-situ 4-South shallow groundwater well. Fracture zone 10 m below till. Assesses vertical gradients & water quality down gradient of the 4-South Mine workings. Just outside of mine pool. (Below 3 Seam)	Average	0.0838		0.00150	137.5		0.0000025		0.000155		5.55		0.3955		0.0000010				0.000500		0.0001000	128.0		0.00250		0.0295			
Count			2		2	2		2		2		2		2		2				2		2	2		2		2			
Minimum			0.0807		<0.0030	136		<0.0000050		<0.00020		5.37		0.389		<0.0000020				<0.0010		<0.00020	128		<0.0050		0.0283			
Maximum			0.0869		<0.0030	139		<0.0000050		0.00021		5.73		0.402		<0.0000020				<0.0010		<0.00020	128		<0.0050		0.0307			
Geometric Mean			0.0837		0.00115	137.5		0.0000025		0.000145		5.5471		0.3954		0.0000010				0.0005		0.0001000	128.0		0.00250		0.0295			
Count <DL			0		2	0		2		1		0		0		2				2		2	0		2		0			
Standard Deviation			0.0044		0	2.1		0.0000000		0.000078		0.2546		0.0092		0.0000000				0		0.0000000	0.0		0.00000		0.0017			
1st Quartile			0.0822		<0.0030	136.8		<0.0000050		0.000128		5.46		0.3922		<0.0000020				<0.0010		<0.00020	128		<0.0050		0.0289			
Median			0.0838		<0.0030	137.5		<0.0000050		0.000155		5.55		0.3955		<0.0000020				<0.0010		<0.00020	128		<0.0050		0.0295			
3rd Quartile			0.0854		<0.0030	138.2		<0.0000050		0.000183		5.64		0.3988		<0.0000020				<0.0010		<0.00020	128		<0.0050		0.0301			
SPD	Settling Pond # 1	Average	0.00109	0.00072	0.0599	0.02083	103.30	0.0000076	0.00000538	0.000991	0.00058	0.638	0.1611	0.0668	0.05851	0.00000121	0.00000117	215	0.00136	0.00104	0.0001	0.000100	204.2	0.00250	0.0025	0.113	0.0053	0.3925	0.0396	
Count		14	14	14	14	16	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	40	14	14	12	11	8	8	
Minimum		0.00037	0.0002	0.0045	<0.0030	40.80	<0.000010	<0.0000050	<0.00050	0.0003	0.088	0.0104	0.0142	<0.0010	<0.0000020	<0.0000020	127	<0.0010	<0.0010	<0.00020	<0.00020	94.5	<0.0050	<0.0050	0.0037	0.0032	<0.020	<0.020		
Maximum		0.00282	0.00151	0.249	0.078	275.0	0.000032	0.000021	0.00219	0.00083	2.25	0.614	0.220	0.241	0.0000026	0.0000023	333	0.0031	0.0028	<0.00020	<0.00020	367	<0.0050	<0.0050	1.27	0.0098	<2.0	0.17		
Geometric Mean		0.00088	0.0006	0.0351	0.01169	91.9	0.0000062	0.00000409	0.000883	0.00056	0.411	0.1009	0.0494	0.02626	0.0000011	0.0000011	206	0.00109	0.00086	0.0001	0.000100	196.50	0.0025	0.0025	0.0113	0.00500	0.0750	0.0207		
Count <DL		0	0	0	1	0	12	8	1	0	0	0	0	0	2	12	12	0	5	7	14	14	0	14	14	0	8	5		
Standard Deviation		0.00079	0.00042	0.0641	0.0226	55.9	0.0000075	0.00000522	0.000484	0.00015	0.664	0.1674	0.0554	0.06226	0.0000005	0.00000044	64.0	0.00091	0.0007	0.0000000	0.0000000	55.9	1E-10	1E-10	0.3644	0.0021	0.504	0.0564		
1st Quartile		0.00049	0.00034	0.0206	0.0053	63.1	<0.000010	<0.0000050	0.000685	0.0005	0.233	0.0592	0.0281	0.0277	<0.0000020	<0.0000020	165	<0.0010	<0.0010	<0.00020	<0.00020	170.2	<0.0050	<0.0050	0.0065	0.0037	<0.020	<0.020		
Median		0.00089	0.00069	0.0423	0.009	101.2	<0.000010	<0.0000050	0.00079	0.0006	0.353	0.102	0.0563	0.04405	<0.0000020	<0.0000020	195	0.00115	0.0008	<0.00020	<0.00020	204.50	<0.0050	<						

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 50 Stats 2017-2021 30 Page(s)

2017 -18 Statistics Stn.Code EMS. ID	Site Name & Description	Statistics	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	Cd-T mg/L	Cd-D mg/L	Cu-T mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hg-T mg/L	Hg-D mg/L	Hard-T mg/L	Ni-T mg/L	Ni-D mg/L	Pb-T mg/L	Pb-D mg/L	SO4-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	P-D mg/L	N-NO23 mg/L	N-NH3 mg/L	
LUMB	Long Lake Middle 1 metre From Bottom	Average	0.00028	0.00023	0.0125	0.009	57.6	0.00000500	0.0000025	0.004655	0.00037	0.07	0.02570	0.5811	0.5005	0.000001	0.000001	133.7	0.00050	0.00050	0.000126	0.000100	127.5	0.00250	0.00250	0.00410				
E206619		Count	15	15	15	15	10	15	15	15	15	15	15	15	15	14	14	15	15	15	15	15	15	15	15	7				
		Minimum	0.0002	0.00017	0.0067	0.0043	55.8	<0.000010	<0.000050	<0.00050	0.00026	0.013	0.0081	0.0014	0.0014	<0.000020	<0.000020	127	<0.0010	<0.0010	<0.00020	<0.00020	122	<0.0050	<0.0050	0.0023				
		Maximum	0.00036	0.0003	0.0216	0.0155	61.7	<0.000010	<0.0000050	0.0655	0.00055	0.156	0.0742	1.63	1.45	<0.0000020	<0.0000020	143	<0.0010	<0.0010	0.00034	<0.00020	134	<0.0050	<0.0050	0.0071				
		Geometric Mean	0.00028	0.00022	0.0114	0.0082	57.6	0.000005	0.0000025	0.000421	0.00036	0.061	0.0185	0.2585	0.1299	0.000001	0.000001	133.6	0.00050	0.00050	0.000115	0.000100	127.5	0.00250	0.00250	0.00380				
		Count <DL	0	0	0	0	0	15	15	11	0	0	0	0	0	0	14	14	0	15	15	13	15	0	15	15	0			
		Standard Deviation	0.00005	0.00004	0.0056	0.0042	1.9	0	0	0.016833	0.00008	0.037	0.022	0.6065	0.6002	0	0	4.3	0.00000	0.00000	0.000071	0.000000	3.0	1E-10	0.00000	0.00170				
		1st Quartile	0.00024	0.00020	0.0084	0.0056	56.3	<0.000010	<0.0000050	<0.00050	0.00032	0.048	0.0097	0.1435	0.0692	<0.0000020	<0.0000020	132	<0.0010	<0.0010	<0.00020	<0.00020	126	<0.0050	<0.0050	0.003				
		Median	0.00028	0.00022	0.0088	0.0073	57.1	<0.000010	<0.0000050	<0.00050	0.00034	0.054	0.01160	0.258	0.14	<0.0000020	<0.0000020	133	<0.0010	<0.0010	<0.00020	<0.00020	127.0	<0.0050	<0.0050	0.0034				
		3rd Quartile	0.00032	0.00026	0.0188	0.0136	58.7	<0.000010	<0.0000050	0.00038	0.00041	0.097	0.04810	1.26	1.17	<0.0000020	<0.0000020	135	<0.0010	<0.0010	<0.00020	<0.00020	129.5	<0.0050	<0.0050	0.0049				
LLO	Long Lake Outlet	Average	0.00051	0.0004	0.058	0.015	36.6	0.0000054	0.00000275	0.000523	0.00042	0.1270	0.0294	0.0332	0.0048	0.00000122	0.00000109	92.3	0.0005	0.00050	0.000100	0.000100	68.5	0.00250	0.00250	0.0078	0.00540	0.0503	0.00864	
E219412		Count	18	18	18	18	19	18	18	18	18	18	18	18	18	18	17	18	18	18	18	18	52	18	18	9	7	8	8	
		Minimum	0.00027	0.00023	0.0071	0.004	20.6	<0.000010	<0.0000050	<0.00050	0.00026	0.024	0.0061	0.0047	0.0015	<0.0000020	<0.0000020	37.2	<0.0010	<0.0010	<0.00020	<0.00020	15.9	<0.0050	<0.0050	0.0032	0.0033	<0.020	<0.0050	
		Maximum	0.00139	0.0006	0.287	0.054	54.9	0.000012	0.000007	0.00144	0.00098	0.643	0.084	0.279	0.0138	0.0000034	0.0000026	134	<0.0010	<0.0010	<0.00020	<0.00020	119	<0.0050	<0.0050	0.0167	0.0112	0.134	0.015	
		Geometric Mean	0.00047	0.00038	0.0294	0.0107	35.2	0.0000052	0.00000265	0.000427	0.00039	0.077	0.0229	0.0147	0.0041	0.0000011	0.0000011	84.7	0.0005	0.00050	0.000100	0.000100	60.6	0.00250	0.00250	0.0069	0.00500	0.0341	0.00729	
		Count <DL	0	0	0	0	0	17	10	0	0	0	0	0	0	0	16	16	0	18	18	18	18	0	18	18	0	0	2	5
		Standard Deviation	0.00026	0.00010	0.0813	0.0136	9.8	0.0000016	0.00000106	0.000357	0.00019	0.161	0.0232	0.0664	0.0029	0.00000065	0.00000039	34.5	0	0.00000	0.0000000	0.0000000	31.3	3E-11	3E-11	0.0042	0.0027	0.0454	0.00439	
		1st Quartile	0.00035	0.00031	0.0132	0.0054	28.8	<0.000010	<0.0000050	<0.00050	0.00031	0.037	0.0153	0.0075	0.0031	<0.0000020	<0.0000020	55.0	<0.0010	<0.0010	<0.00020	<0.00020	42.6	<0.0050	<0.0050	0.0047	0.004	0.0205	0.00595	
		Median	0.00044	0.00043	0.0261	0.0094	39.6	<0.000010	<0.0000050	<0.00050	0.00035	0.075	0.0197	0.0103	0.0043	<0.0000020	<0.0000020	107	<0.0010	<0.0010	<0.00020	<0.00020	60.5	<0.0050	<0.0050	0.0066	0.0042	0.0305	<0.020	
		3rd Quartile	0.00055	0.00045	0.0523	0.022	43.5	<0.000010	<0.0000050	0.000752	0.00041	0.129	0.036	0.0165	0.0057	<0.0000020	<0.0000020	118.2	<0.0010	<0.0010	<0.00020	<0.00020	97.6	<0.0050	<0.0050	0.0095	0.0057	0.0723	0.01050	
WB	Middle Quinsam Lake Outlet	Average	0.00019	0.00018	0.0184	0.0159	41.2	0.000005	0.00000294	0.000564	0.00063	0.036	0.0256	0.0068	0.0024	0.00000012	0.00000010	38.2	0.00050	0.00050	0.000100	0.000100	34.3	0.00250	0.00250	0.00430	0.00350	0.0100	0.00886	
E0900504		Count	16	16	16	16	16	16	16	16	16	16	16	16	16	15	16	16	16	16	16	16	17	16	16	9	7	8	8	
		Minimum	0.00013	0.00012	0.0096	0.0082	32.9	<0.000010	<0.0000050	<0.00050	0.00044	0.027	0.0187	0.0032	0.001	<0.0000020	<0.0000020	32.9	<0.0010	<0.0010	<0.00020	<0.00020	28.7	<0.0050	<0.0050	0.0031	0.0023	<0.020	<0.0050	
		Maximum	0.00025	0.00022	0.0288	0.0228	45.2	<0.000010	0.000006	0.00094	0.00144	0.051	0.0387	0.0120	0.0056	0.000004	<0.0000020	61.2	<0.0010	<0.0010	<0.00020	<0.00020	54	<0.0050	<0.0050	0.0073	0.0049	<0.020	0.025	
		Geometric Mean	0.00018	0.000180	0.0174	0.0151	41	0.000005	0.00000279	0.000539	0.00059	0.036	0.0252	0.0064	0.0022	0.00000109	0.0000001	37.8	0.00050	0.00050	0.000100	0.000100	34	0.00250	0.00250	0.00420	0.00350	0.0100	0.0065	
		Count <DL	0	0	0	0	0	16	14	2	0	0	0	0	0	0	15	15	0	16	16	16	16	0	16	16	0	0	8	5
		Standard Deviation	0.00003	0.00003	0.0062	0.0051	3.2	1E-14	0.0000012	0.00016	0.00027	0.0070	0.0053	0.0025	0.0011	0.00000075	0	6.8	0.00000	0.000000	0.0000000	0.0000000	5.8	4E-11	4E-11	0.0013	0.0009	1E-10	0.00748	
		1st Quartile	0.00017	0.00015	0.012	0.0099	39.7	<0.000010	<0.0000050	0.000535	0.00050	0.032	0.0225	0.005	0.0018	<0.0000020	<0.0000020	34.6	<0.0010	<0.0010	<0.00020	<0.00020	30.8	<0.0050	<0.0050	0.0036	0.003	<0.020	<0.0050	
		Median	0.00018	0.000190	0.0185	0.0172	41.8	<0.000010	<0.0000050	0.000555	0.00055	0.036	0.024	0.0063	0.0023	<0.0000020	<0.0000020	36.7	<0.0010	<0.0010	<0.00020	<0.00020	32.3	<0.0050	<0.0050	0.004	0.0037	<0.020	0.0087	
		3rd Quartile	0.00021	0.000200	0.024	0.02	43	<0.000010	<0.0000050	0.000615	0.0006	0.039	0																	

Table 50 Stats 2017-2021 30 Page(s)

2017 -18 Statistics Stn.Code																																			
EMS. ID	Site Name & Description	Statistics	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hg-T	Hg-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3						
QU0821GD	Ex-situ 2-North groundwater well down gradient of u/g tailings disposal, measures water quality & hydraulic gradients downstream of Forjan Fault (No. 4 Seam)	Average	mg/L	0.132	mg/L	0.0076	215.0	mg/L	0.00001033	mg/L	0.000367	mg/L	1.334	mg/L	0.1573	mg/L	0.0000010	mg/L	0.00183	mg/L	0.000367	1.58	mg/L	0.00917	mg/L	0.1014	mg/L								
Count			3		3	3				3		3		3		3				3		3		3		3									
Minimum			0.121		<0.015	210		0.000006		<0.00020		0.982		0.0799		<0.0000020		<0.0010		<0.00020	<1.0		<0.0050		0.0493										
Maximum			0.147		0.0078	218		<0.000025		<0.0010		1.73		0.278		<0.0000020		<0.0050		<0.0010		<0.0010	2.3		<0.025		0.141								
Geometric Mean			0.131		0.0076	215.0		0.00000979		0.000292		1.2989		0.1363		0.0000010		0.00146		0.000292		1.304		0.00731		0.0925									
Count <DL			0		2	0		2		3		0		0		3		3		3		3		1		3		0							
Standard Deviation			0.014		0.00017	4.4		0.00000375		0.000231		0.3759		0.1059		0.00000000		0.00115		0.000231		0.951		0.00577		0.0471									
1st Quartile			0.124		<0.015	213.5		0.00000925		0.0003		1.136		0.097		<0.0000020		0.0015		0.0003		1.22		0.0075		0.0817									
Median			0.127		<0.015	217		<0.000025		<0.0010		1.29		0.114		<0.0000020		<0.0050		<0.0010		1.93		<0.025		0.114									
3rd Quartile			0.137		0.00765	217.5		<0.000025		<0.0010		1.51		0.196		<0.0000020		<0.0050		<0.0010		2.12		<0.025		0.1275									
QU0821GS	Ex-situ 2-North groundwater well down gradient of u/g tailings disposal, measures water quality & hydraulic gradients downstream of Forjan Fault (No. 1 Seam)	Average		0.195		0.00832	201.2		0.0000099		0.000443		0.3953		0.0839		0.00000010		0.001500		0.0003000	0.613		0.00750		0.101									
Count			4		4	4		4		4		4		4		4		4		4		4		4		4									
Minimum			0.178		0.006	194		<0.0000050		0.00033		0.286		0.0493		<0.0000020		<0.0010		<0.00020	<1.0		<0.0050		0.0029										
Maximum			0.208		0.0123	209		<0.000025		<0.0010		0.555		0.15		<0.0000020		<0.0050		<0.0010		0.95		<0.025		0.155									
Geometric Mean			0.194		0.00803	201.2		0.0000083		0.000436		0.3825		0.0754		0.00000010		0.001120		0.0002240		0.587		0.00559		0.051									
Count <DL			0		2	0		3		2		0		0		4		4		4		4		3		4		0							
Standard Deviation			0.016		0.00274	6.3		0.0000049		0.00008		0.1194		0.0469		0.00000000		0.001150		0.0002310		0.225		0.00577		0.0673									
1st Quartile			0.183		0.00712	197.8		0.00000963		0.000412		0.315		0.0512		<0.0000020		<0.0010		<0.00020	<1.0		<0.0050		0.0877										
Median			0.197		<0.015	201		0.00001225		0.00047		0.37		0.0681		<0.0000020		0.0015		0.0003		<1.0		0.00750		0.123									
3rd Quartile			0.208		0.0087	204.5		<0.000025		<0.0010		0.45		0.1008		<0.0000020		<0.0050		<0.0010		0.613		<0.025		0.1363									
QU1010D		Average		0.0141		0.0098	92.2		0.000014		0.00061		8.7		0.3745		0.00000010		0.00275		0.000550	0.375		0.0138		0.07380									
Count			2		2	2		2		2		2		2		2		2		2		2		2		2									
Minimum			0.0139		0.0045	91.3		<0.0000050		0.00021		7.95		0.332		<0.0000020		<0.0010		<0.00020	<0.50		<0.0050		0.0711										
Maximum			0.0144		<0.030	93.2		<0.000050		<0.0020		9.45		0.417		<0.0000020		<0.010		<0.0020	<1.0		<0.050		0.0766										
Geometric Mean			0.0141		0.0082	92.2		0.000008		0.00046		8.6676		0.3721		0.00000010		0.00158		0.000316		0.354		0.0079		0.07380									
Count <DL			0		1	0		2		1		0		0		2		2		2		2		2		0									
Standard Deviation			0.0004		0.0074	1.3		0.000016		0.00056		1.1		0.06		0.00000000		0.00318		0.000636		0.2		0.0159		0.00390									
1st Quartile			0.014		0.00712	91.8		0.00000813		0.000407		8.325		0.3533		<0.0000020		0.00163		0.000325		0.312		0.00813		0.0725									
Median			0.0141		0.00975	92.2		0.00001375		0.000605		8.7		0.3745		<0.0000020		0.00275		0.00055		0.375		0.01375		0.0738									
3rd Quartile			0.0143		0.01237	92.7		0.00001937		0.000803		9.075		0.3957		<0.0000020		0.00387		0.000775		0.438		0.01937		0.0752									
QU1010S	Ex-situ 2-North shallow groundwater well. Down gradient of u/g tailings disposal, measures water quality & hydraulic head downstream of 2-North workings. (No. 1 Seam / Sandstone).	Average		0.113		0.0083	152.0		0.0000025		0.0001		0.2325		0.0407		0.00000010		0.000500		0.0005300	19.9		0.00250		0.0551									
Count			2		2	2		2		2		2		2		2		2		2		2		2		2									
Minimum			0.112		<0.0030	152		<0.0000050		<0.00020		0.221		0.0361		<0.0000020		<0.0010		<0.00020	19.6		<0.0050		0.0468										
Maximum			0.113		0.0151	152		<0.0000050		<0.00020		0.244		0.0453		<0.0000020		<0.0010		0.00096		20.1		<0.0050		0.0634									
Geometric Mean			0.112		0.00476	152.0		0.0000025		0.0001		0.2322		0.0404		0.00000010		0.000500		0.0003100		19.8		0.0025		0.0545									
Count <DL			0		1	0		2		2		0		0		2		2		2		1		0		2		0							
Standard Deviation			0.001		0.00962	0.0		0.0000000		0		0.0163		0.0065		0.00000000		0.0000000		0.0006080		0.4		1E-11		0.0117									
1st Quartile			0.112		0.0049	152		<0.0000050		<0.00020		0.2268		0.0384		<0.0000020		<0.0010		0.000315		19.7		<0.0050		0.051									
Median			0.113		0.0083	152		<0.0000050		<0.00020		0.2325		0.0407		<0.0000020		<0.0010		0.00053		19.9		<0.0050		0.0551									
3rd Quartile			0.113		0.0117	152		<0.0000050		<0.00020		0.2382		0.043		<0.0000020		<0.0010		0.000745		20		<0.0050		0.0592									
QU1011D	Ex-situ 2-North deep groundwater well. Measures water quality & hydraulic gradient in Forjan Fault (Fractured sandstone).	Average		0.0088		0.0075	305		0.0000125		0.0012		4.44		0.502		0.00000010		0.0025		0.0005	0.5		0.0125		0.160									
Count			1		1	1		1		1		1		1		1		1		1		1		1		1									
Minimum			0.0088		<0.015	305		<0.000025		0.0012		4.44		0.502		<0.0000020		<0.0050		<0.0010		<1.0		<0.025		0.16									
Maximum			0.0088		<0.015	305		<0.000025		0.0012		4.44		0.502		<0.0000020		<0.0050		<0.0010		<1.0		<0.025		0.16									
Geometric Mean			0.0088		0.0075	305		0.0000125		0.0012		4.44		0.502		0.00000010		0.0025		0.0005		0.5		0.0125		0.160									
Count <DL			0		1	0		1		0		0		0		1		1		1		1		1		1		0							
Standard Deviation			0.00000		0.0000	0		0.0000000		0.00000		0.00		0.000		0.00000000		0.00000		0.000000		0.0		0.0000		0.000									
1st Quartile			0.0088		<0.015	305		<0.000025		0.0012		4.44		0.																					

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 50 Stats 2017-2021 30 Page(s)

2017 -18 Statistics Stn.Code EMS. ID		Site Name & Description	Statistics	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hg-T	Hg-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3	
		Ex-situ River Barrier Pillar (RBP) shallow groundwater well. Monitors water quality & gradients above the RBP & 2-North Mine. (Sandstone)	Average	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
QU11055			Count		4		4	4		4		4		4		4		4		4		4		4	4		4		4		
			Minimum		0.0487		<0.0030	89.8		<0.0000050		<0.00020		0.492		0.0751		<0.0000020		<0.0010		<0.00020		50.8		<0.0050		0.0189			
			Maximum		0.0957		0.008	442		0.000009		0.00024		1.55		0.24		<0.0000020		<0.0010		<0.00020		166		<0.0050		0.0396			
			Geometric Mean		0.0739		0.00372	217		0.0000034		0.000124		1.1521		0.1491		0.0000010		0.000500		0.0001000		98.9		0.00250		0.028			
			Count <DL		0		1	0		3		3		0		0		4		4		4		4	0		4		0		
			Standard Deviation		0.0204		0.00269	147.6		0.0000033		0.000070		0.519		0.0681		0.0000000		0.0000000		0.0000000		51.2		0.00000		0.010			
			1st Quartile		0.0676		0.00323	174.7		<0.0000050		<0.00020		1.248		0.135		<0.0000020		<0.0010		<0.00020		76.1		<0.0050		0.0221			
			Median		0.0803		0.004	239		<0.0000050		<0.00020		1.52		0.166		<0.0000020		<0.0010		<0.00020		109.2		<0.0050		0.0289			
			3rd Quartile		0.089		0.00515	316.8		0.00000413		0.000135		1.5425		0.1927		<0.0000020		<0.0010		<0.00020		142		<0.0050		0.0358			
		QU11095	Average		0.111		0.00652	470		0.0000100		0.0004		0.3168		0.0429		0.0000010		0.002		0.0004		430.5		0.01		0.060			
		Ex-situ River Barrier Pillar (RBP) shallow groundwater well. Monitors water quality & gradients above the RBP & 2-North Mine. (Sandstone)	Count		4		4	4		4		4		4		4		4		4		4	4		4		4				
			Minimum		0.071		0.0036	436		<0.0000050		<0.00020		0.162		0.0221		<0.0000020		<0.0010		<0.00020		402		<0.0050		0.0401			
			Maximum		0.140		<0.015	538		<0.000025		<0.0010		0.402		0.0531		<0.0000020		<0.0010		<0.0010		458		<0.025		0.0748			
			Geometric Mean		0.107		0.00624	469		0.0000084		0.000334		0.2992		0.0406		0.0000010		0.00167		0.000334		430		0.00836		0.058			
			Count <DL		0		3	0		4		4		0		0		4		4		4		0		4		0			
			Standard Deviation		0.029		0.0020	45		0.0000050		0.00020		0.1076		0.01430		0.0000000		0.00100		0.000200		24.3		0.0050		0.015			
			1st Quartile		0.103		0.00652	447		0.00001		0.0004		0.2865		0.0394		<0.0000020		0.002		0.0004		416.2		0.01		0.0534			
			Median		0.116		<0.015	454		<0.000025		<0.0010		0.3515		0.0483		<0.0000020		<0.0050		<0.0010		431		<0.025		0.0619			
			3rd Quartile		0.124		<0.015	478		<0.000025		<0.0010		0.3818		0.0518		<0.0000020		<0.0050		<0.0010		445.2		<0.025		0.068			
			75OR	Average	0.00042	0.0004	0.0231	0.0183	39.5	0.000005	0.00000266	0.000671	0.00055	0.073	0.0496	0.0054	0.0044	0.000001	0.0000001	37.2	0.00050	0.00050	0.000105	0.000100	31.5	0.00262	0.0025	0.00490	0.00530	0.0252	0.00732
		7-South Quinsam River downstream of 7- South Mining Operation	E292113	Count	22	22	22	22	22	22	22	22	22	22	22	22	21	20	22	22	22	22	22	22	22	22	12	7	11	11	
			Minimum	0.00027	0.00025	0.0102	0.0071	26.4	<0.000010	<0.0000050	<0.00050	0.00041	0.051	0.0324	0.0022	0.0015	<0.0000020	<0.0000020	28.7	<0.0010	<0.0010	<0.00020	<0.00020	17	<0.0050	<0.0050	0.0021	0.0033	<0.020	<0.0050	
			Maximum	0.00056	0.00055	0.0529	0.0574	45.2	<0.000010	0.000006	0.00212	0.00099	0.099	0.0822	0.0079	0.0078	<0.0000020	<0.0000020	53.7	<0.0010	<0.0010	0.00021	<0.00020	42.3	0.0051	<0.0050	0.0174	0.0086	0.038	<0.020	
			Geometric Mean	0.00041	0.00039	0.0207	0.0159	39.1	0.000005	0.0000026	0.000621	0.00054	0.072	0.0486	0.0051	0.0042	0.000001	0.0000001	36.9	0.00050	0.00050	0.000103	0.000100	31.1	0.00258	0.0025	0.00420	0.00510	0.024	0.00633	
			Count <DL	0	0	0	0	0	0	22	21	1	0	0	0	0	0	21	20	0	22	22	21	22	0	21	22	0	1	9	
			Standard Deviation	0.00009	0.00009	0.0115	0.0115	5.2	0.00000000	0.00000075	0.00035	0.00014	0.014	0.0107	0.0015	0.0014	0	5	0.00000	0.000000	0.0000023	0.000000	5.2	0.00055	0	0.004	0.0018	0.0075	0.00339		
			1st Quartile	0.00037	0.00034	0.0143	0.0107	37	<0.000010	<0.0000050	0.000525	0.00048	0.064	0.0428	0.0043	0.0034	<0.0000020	<0.0000020	34.7	<0.0010	<0.0010	<0.00020	<0.00020	29	<0.0050	<0.0050	0.0036	0.0043	0.0215	0.00425	
			Median	0.00043	0.00040	0.0215	0.0152	41.9	<0.000010	<0.0000050	0.00058	0.00052	0.074	0.048	0.0055	0.0045	<0.0000020	<0.0000020	37.2	<0.0010	<0.0010	<0.00020	<0.00020	31.9	<0.0050	<0.0050	0.004	0.0045	0.023	<0.020	
			3rd Quartile	0.00047	0.00046	0.027	0.0214	42.9	<0.000010	<0.0000050	0.000702	0.00055	0.083	0.0542	0.0066	0.0053	<0.0000020	<0.0000020	38.9	<0.0010	<0.0010	<0.00020	<0.00020	34.40	<0.0050	<0.0050	0.0046	0.006	0.0305	<0.020	
			Lower Quinsam Lake 1 metre below surface	LQL1	Average	0.00061	0.00058	0.0329	0.0251	34.9	0.000005	0.0000038	0.00087	0.00069	0.104	0.0652	0.0128	0.00581	0.00000115	0.00000112	32.8	0.0005	0.00050	0.000100	0.000100	21.1	0.00250	0.00250	0.005		
		E292118		Count	15	15	15	15	5	15	15	15	15	15	15	15	13	13	15	15	15	15	15	15	15	15	15	6			
		Minimum		0.00047	0.0004	0.0077	0.0079	24.2	<0.000010	<0.0000050	0.00052	0.00042	0.037	0.0242	0.0037	<0.0010	<0.0000020	<0.0000020	27.0	<0.0010	<0.0010	<0.00020	<0.00020	13.8	<0.0050	<0.0050	0.004				
		Maximum		0.00076	0.00068	0.0871	0.0603	43.3	<0.000010	0.0000090	0.0036	0.00167	0.219	0.136	0.0455	0.0291	0.0000029	0.00000026	39.8	<0.0010	<0.0010	<0.00020	<0.00020	27.1	<0.0050	<0.0050	0.0060				
		Geometric Mean		0.0006	0.00057	0.0264	0.0203	34.2	0.000005	0.00000339	0.00074	0.00065	0.088	0.055	0.0092	0.0026	0.00000109	0.00000108	32.5	0.0005	0.00050	0.000100	0.000100	20.5	0.00250	0.00250	0.0049				
		Count <DL		0	0	0	0	0	0	15	10	0	0	0	0	0	3	12	12	0	15	15	15	15	0	15	15	0			
		Standard Deviation		0.0001	0.0001	0.0213	0.0164	7.8	0	0.0000021	0.00077	0.0003	0.061	0.0392	0.0125	0.00811	0.00000053	0.00000044	4.3	0	0.00000	0.0000000	0.0000000	5.1	1E-10	1E-10	0.0008				
		1st Quartile		0.00051	0.00049	0.0147	0.0111	30.7	<0.000010	<0.0000050	0.00057	0.00054	0.05	0.0324	0.00056	0.0012	<0.0000020	<0.0000020	29.4	<0.0010	<0.0010	<0.00020	<0.00020	15.6	<0.0050	<0.0050	0.0045				
		Median		0.00066	0.00063	0.0309	0.0184	35.5	<0.000010	<0.0000050	0.000640	0.00063	0.086	0.0522	0.0067	0.00160	<0.0000020	<0.0000020	32	<0.0010	<0.0010	<0.00020	<0.00020	23.4	<0.0050	<0.0050	0.005				
		3rd Quartile		0.0007	0.00065	0.0452																									

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Table 50 Stats 2017-2021 30 Page(s)

2018 -19 Statistics Stn.Code EMS. ID		Site Name & Description	Statistics	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hg-T	Hg-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3	
WA E0126402	Quinsam River at Argonaut Road Upstream of Mining Operation.	Average	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
		Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15				
		Minimum	<0.00010	<0.00010	0.0154	0.0152	15.6	<0.00010	<0.0000050	0.00059	0.00058	0.011	0.0069	<0.0010	<0.0010	<0.0000020	<0.0000020	17.8	<0.0010	<0.0010	<0.00020	<0.00020	<1.0	<0.0050	0.000964						
		Maximum	0.00016	0.00014	0.0317	0.0286	23	<0.00010	0.0000196	0.0016	0.00085	0.028	0.0067	0.002	0.0014	<0.0000020	0.0000031	21	<0.0010	<0.0010	<0.00020	<0.00020	1.9	<0.0050	<0.0050						
		Geometric Mean	0.000101	0.000107	0.0244	0.0205	20.1	0.000005	0.00000287	0.00084	0.00069	0.017	0.0132	0.00119	0.00056	0.000001	0.00000138	19.5	0.0005	0.00050	0.000100	0.000100	1.03	0.00250	0.002346						
		Count <DL	4	2	0	0	0	15	0	0	0	0	0	2	13	15	10	0	15	15	15	15	4	15	14						
		Standard Deviation	0.000041	0.000027	0.0041	0.0037	2.2	0	0.00000442	0.00034	0.0001	0.005	0.0051	0.00043	0.00026	0	0.00000083	0.9	0	0.000000	0.000000	0.000000	0.47	0	0.000397						
		1st Quartile	0.00008	0.00011	0.0218	0.0183	18.8	<0.000010	<0.0000050	0.0007	0.0006	0.014	0.0111	0.0011	<0.0010	<0.0000020	<0.0000020	18.8	<0.0010	<0.0010	<0.00020	<0.00020	0.8	<0.0050	<0.0050						
		Median	0.00012	0.00012	0.0248	0.0204	21.0	<0.000010	<0.0000050	0.00074	0.00068	0.016	0.0139	0.0012	<0.0010	<0.0000020	<0.0000020	19.7	<0.0010	<0.0010	<0.00020	<0.00020	1.2	<0.0050	<0.0050						
		3rd Quartile	0.00014	0.00013	0.0274	0.0225	21.6	<0.000010	<0.0000050	0.00092	0.00077	0.022	0.0154	0.00145	<0.0010	<0.0000020	0.00000022	20.2	<0.0010	<0.0010	<0.00020	<0.00020	1.4	<0.0050	<0.0050						
WD E207409		Settling Pond #4	Average	0.00132	0.00205	0.0209	0.00488	368	0.000006	0.00000417	0.001028	0.00036	0.661	0.0162	0.1403	0.000001	0.000001	385	0.0017	0.00182	0.000100	0.000167	5.79	0.00313	0.00417	0.0052	0.00380	0.024	0.05		
	Count		6	6	6	6	12	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	52	6	6	3	1	2	3		
	Minimum		0.00079	0.00113	0.0035	<0.0030	252	<0.000010	<0.0000050	<0.00050	<0.00020	0.055	0.0103	0.0412	0.0435	<0.0000020	<0.0000020	313	0.001	<0.0010	<0.00020	<0.00020	411	<0.0050	<0.0050	0.0045	0.0038	<0.020	<0.020		
	Maximum		0.00207	0.00272	0.0679	<0.015	437	0.000011	<0.000025	0.00198	<0.0010	1.54	0.0270	0.3	0.278	<0.0000020	<0.0000020	436	0.0041	0.0044	<0.00020	<0.0010	798	0.0063	<0.025	0.0063	0.0038	0.038	0.13		
	Geometric Mean		0.00126	0.00193	0.0139	0.00437	363	0.0000057	0.0000033	0.000845	0.000321	0.424	0.0153	0.1125	0.1111	0.000001	0.000001	382	0.0014	0.0014	0.000100	0.000131	5.71	0.00022	0.00327	0.0051	0.00380	0.0195	0.0235		
	Count <DL		0	0	0	2	0	5	6	1	2	0	0	0	0	6	0	0	0	0	2	6	6	0	5	6	0	0	1	2	
	Standard Deviation		0.00045	0.00071	0.0235	0.0021	54	0.0000024	0.00000408	0.000646	0.000155	0.565	0.0062	0.096	0.0865	0	0.00000000	44	0.0012	0.00143	0.000000	0.000163	99	0.00155	0.00408	0.001	0	0.0198	0.0693		
	1st Quartile		0.00107	0.00144	0.0107	0.004	358	<0.000010	<0.0000050	0.00072	0.000295	0.306	0.0122	0.0688	0.0697	<0.0000020	<0.0000020	367	0.001	0.00105	<0.00020	<0.00020	494	<0.0050	<0.0050	0.0046	0.0038	0.017	<0.020		
	Median		0.00123	0.00226	0.0128	0.00515	382	<0.000010	<0.0000050	0.0008	0.000435	0.49	0.014	0.1295	0.1385	<0.0000020	<0.0000020	389	0.0012	0.00125	<0.00020	<0.00020	565	<0.0050	<0.0050	0.0047	0.0038	0.024	<0.020		
	3rd Quartile	0.00147	0.00263	0.017	0.00608	404	<0.000010	<0.0000050	0.001435	0.000455	0.984	0.0184	0.1773	0.197	<0.0000020	<0.0000020	414	0.0014	0.0022	<0.00020	<0.00020	654	<0.0050	<0.0050	0.0055	0.0038	0.031	0.07000			
MWW0010	Ex-situ 2-North deep groundwater well below the coal wash plant (Till)	Average	0.0214			0.0326	92.2		0.0000025	0.001435	0.001	0.0074		0.0139		0.0000033			0.0005		0.0001	27.3		0.0025		0.173					
		Count	2			2	2		2	2		2		2		2			2		2	2		2		2					
		Minimum	0.0212			0.0299	90.3		<0.0000050	0.00083		0.0058		0.0061		<0.0000020			<0.0010		<0.00020	26.8		<0.0050		0.173					
		Maximum	0.0215			0.0354	94		<0.0000050	0.00118		0.0091		0.0217		<0.0000055			<0.0010		<0.00020	27.8		<0.0050		0.173					
		Geometric Mean	0.0213			0.0325	92.1		0.0000025	0.00099		0.0073		0.0115		0.00000024			0.0005		0.0001	27.3		0.0025		0.173					
		Count <DL	0			0	0		2	0	0		0		0		1			2		2	0		2		0				
		Standard Deviation	0.0002			0.0039	2.6		0	0.00025		0.0023		0.011000		0.0000032			0		0	0.7		0		0					
		1st Quartile	0.0213			0.0313	91.2		<0.0000050	0.00092		0.0066		0.01		0.00000012			<0.0010		<0.00020	27		<0.0050		0.173					
		Median	0.0214			0.0326	92.2		<0.0000050	0.001		0.0074		0.0139		0.000000325			<0.0010		<0.00020	27.3		<0.0050		0.173					
		3rd Quartile	0.0214			0.034	93.1		<0.0000050	0.00109		0.0083		0.0178		0.000000437			<0.0010		<0.00020	27.6		<0.0050		0.173					
MWW0015	Ex-situ 2-North shallow groundwater well below the coal wash plant (Till)	Average	0.0001			0.003	327		0.000104	0.00135		0.00135		0.059		2.83		0.0000010			0.0025		0.0002000	799		0.005					
		Count	1			1	1		1	1		1		1		1			1		1	1		1		1					
		Minimum	<0.00020			<0.0060	327		0.000104	0.00135		0.00135		0.059		2.83		<0.0000020			0.0025		<0.00040	799		<0.010		0.005			
		Maximum	<0.00020			<0.0060	327		0.000104	0.00135		0.00135																			

Table 50 Stats 2017-2021 30 Page(s)

2018 -19 Statistics																																
Stn.Code	Site Name & Description	Statistics	As-T		As-D		Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hg-T	Hg-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3	
EMS. ID			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
NNL1	No Name Lake 1 metre below surface	Average	0.00032	0.000340	0.0322	0.0284	11.23	0.000005	0.0000025	0.000694	0.00059	0.07	0.0511	0.0063	0.00490	0.00000141	0.00000152	14.8	0.0005	0.0005	0.0001	0.0001	1.81	0.0025	0.0025	0.00418	0.00466	0.0847	0.010			
E217018		Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	13	15	15	15	15	
		Minimum	0.00024	0.00025	0.0127	0.0118	<1.0	<0.000010	<0.0000050	<0.00050	0.00039	0.049	0.0365	0.0028	0.0012	<0.0000020	<0.0000020	13.3	<0.0010	<0.0010	<0.00020	<0.00020	<1.0	<0.0050	<0.0050	<0.0020	<0.0020	<0.020	<0.020			
		Maximum	0.00043	0.00043	0.0645	0.0536	16.2	<0.000010	<0.0000050	0.0012	0.00115	0.11	0.0775	0.0146	0.0138	0.0000059	0.0000053	16.7	<0.0010	<0.0010	<0.00020	<0.00020	3.5	<0.0050	<0.0050	0.0069	0.0125	1.130	<0.020			
		Geometric Mean	0.00031	0.00034	0.0281	0.0257	9.42	0.00000500	0.0000025	0.000656	0.00057	0.068	0.0497	0.00580	0.004	0.00000119	0.00000130	14.8	0.0005	0.0005	0.0001	0.0001	1.68	0.0025	0.0025	0.00380	0.00413	0.0137	0.01			
		Count <DL	0	0	0	0	1	15	15	1	0	0	0	0	0	13	11	0	15	15	15	15	1	15	15	1	6	14	15			
		Standard Deviation	0.000060	0.00005	0.0161	0.0124	4.0	0	0	0.000239	0.00018	0.019	0.0128	0.0032	0.0034	0.00000129	0.00000115	1	0	0	0.00000000	0	0.67	0	0	0.00161	0.00250	0.2892	0.000			
		1st Quartile	0.00027	0.0003	0.0155	0.0169	10.25	<0.000010	<0.0000050	0.00059	0.0005	0.055	0.0411	0.0048	0.00290	<0.0000020	<0.0000020	14	<0.0010	<0.0010	<0.00020	<0.00020	1.45	<0.0050	<0.0050	0.003	0.00365	<0.020	<0.020			
		Median	0.00031	0.000340	0.0319	0.0288	12.1	<0.000010	<0.0000050	0.00066	0.00056	0.07	0.0475	0.00540	0.00380	<0.0000020	<0.0000020	14.9	<0.0010	<0.0010	<0.00020	<0.00020	1.80	<0.0050	<0.0050	0.0043	<0.010	<0.020	<0.020			
		3rd Quartile	0.00036	0.00038	0.0428	0.0357	13.45	<0.000010	<0.0000050	0.00071	0.00062	0.079	0.0592	0.006	0.00580	<0.0000020	0.0000015	15.3	<0.0010	<0.0010	<0.00020	<0.00020	2.05	<0.0050	<0.0050	0.0054	<0.010	<0.020	<0.020			
		Average	0.00021	0.00025	0.0403	0.0344	11.3	0.000005	0.0000025	0.0007	0.00054	0.144	0.0854	0.0295	0.0259	0.00000205	0.00000185	15.5	0.0005	0.0005	0.0001	0.0001	4.4	0.0025	0.002500	0.00480	0.00430	0.0409	0.0182			
NNL8	No Name Lake 1 metre from bottom	Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	13	15	15	15	15		
E217018		Minimum	0.00017	0.00022	0.0327	0.0256	9.4	<0.000010	<0.0000050	0.00051	0.00038	0.114	0.0668	0.015	0.0134	<0.0000020	<0.0000020	13.7	<0.0010	<0.0010	<0.00020	<0.00020	1	<0.0050	<0.0050	0.0034	0.0026	<0.020	<0.020			
		Maximum	0.00028	0.00033	0.0566	0.047	13.6	<0.000010	<0.0000050	0.00103	0.00092	0.216	0.112	0.0774	0.0698	0.0000068	0.0000049	16.8	<0.0010	<0.0010	<0.00020	<0.00020	5.9	<0.0050	<0.0050	0.0066	0.0065	0.051	0.090			
		Geometric Mean	0.00021	0.000250	0.0397	0.0339	11.2	0.000005	0.0000025	0.00067	0.00053	0.141	0.0847	0.0239	0.0205	0.00000144	0.00000145	15.5	0.0005000	0.0005	0.0001	0.0001	4.1	0.0025	0.0025	0.00470	0.00420	0.0386	0.0135			
		Count <DL	0	0	0	0	0	15	15	0	0	0	0	0	0	12	11	0	15	15	15	15	0	15	15	0	5	1	12			
		Standard Deviation	0.00003	0.00003	0.0074	0.0063	1.3	0	0	0.00019	0.00014	0.032	0.0117	0.0239	0.0219	0.00000219	0.00000156	0.7	0	0.0000000	0	0	1.4	0	0.000000	0.00090	0.00100	0.011	0.0212			
		1st Quartile	0.00018	0.00023	0.034	0.0301	10.6	<0.000010	<0.0000050	0.00054	0.00043	0.124	0.0774	0.0169	0.0139	<0.0000020	<0.0000020	15.2	<0.0010	<0.0010	<0.00020	<0.00020	4.4	<0.0050	<0.0050	0.0038	0.0036	0.037	<0.020			
		Median	0.0002	0.00025	0.037	0.0330	11.2	<0.000010	<0.0000050	0.000600	0.00049	0.135	0.0833	0.0189	0.0158	<0.0000020	<0.0000020	15.6	<0.0010	<0.0010	<0.00020	<0.00020	4.8	<0.0050	<0.0050	0.005	0.0042	0.045	<0.020			
		3rd Quartile	0.00022	0.00026	0.044	0.0369	12.0	<0.000010	<0.0000050	0.000840	0.00062	0.147	0.0905	0.0215	0.019	<0.0000020	0.00000175	15.8	<0.0010	<0.0010	<0.00020	<0.00020	5.2	<0.0050	<0.0050	0.0051	<0.010	0.0485	<0.020			
NNO		No Name Lake Outlet	Average	0.00031	0.00032	0.0359	0.0288	13.7	0.000005	0.0000032	0.000709	0.0006	0.075	0.0522	0.0117	0.0135	0.00000021	0.00000020	14.7	0.0005	0.00050	0.000100	0.000100	1.94	0.0025	0.0025						
E217017			Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
	Minimum		0.00019	0.00021	0.0112	0.0081	8.6	<0.000010	<0.0000050	<0.00050	0.00027	0.048	0.0393	0.004	0.0029	<0.0000020	<0.0000020	12	<0.0010	<0.0010	<0.00020	<0.00020	<1.0	<0.0050	<0.0050							
	Maximum		0.00041	0.00042	0.0551	0.044	22	<0.000010	0.0000070	0.00141	0.00103	0.161	0.075	0.0408	0.086	0.0000074	0.0000073	19.2	<0.0010	<0.0010	<0.00020	<0.00020	2.9	<0.0050	<0.0050							
	Geometric Mean		0.0003	0.00031	0.0321	0.0254	13.4	0.000005	0.00000297	0.000615	0.00057	0.071	0.051	0.0089	0.0073	0.00000151	0.00000148	14.6	0.0005	0.00050	0.000100	0.000100	1.82	0.0025	0.0025							
	Count <DL		0	0	0	0	0	15	12	3	0	0	0	0	0	11	11	0	15	15	15	15	1	15	15							
	Standard Deviation		0.00007	0.00007	0.0147	0.0125	3.2	0	0.0000015	0.000373	0.0002	0.0290	0.0118	0.0109	0.022	0.00000211	0.00000205	1.9	0	0.000000	0.0000000	0.0000000	0.56	0	0							
	1st Quartile		0.00025	0.00026	0.0276	0.0162	11.6	<0.000010	<0.0000050	0.000505	0.00046	0.056	0.0422	0.0055	0.004	<0.0000020	<0.0000020	13.4	<0.0010	<0.0010	<0.00020	<0.00020	1.8	<0.0050	<0.0050							
	Median		0.00032	0.00034	0.0397	0.0328	14.5	<0.000010	<0.0000050	0.00065	0.00063	0.066	0.0497	0.0068	0.0056	<0.0000020	<0.0000020	14.9	<0.0010	<0.0010	<0.00020	<0.00020	2.00	<0.0050	<0.0050							
	3rd Quartile		0.00035	0.00037	0.0438	0.0387	15	<0.000010	<0.0000050	0.00094	0.00071	0.079	0.0598	0.0114	0.0076	0.00000195	0.0000017	15.4	<0.0010	<0.0010	<0.00020	<0.00020	2.2	<0.0050	<0.0050							
LLS	Small Seep into Long Lake		Average	0.00161	0.00223	0.0324	0.00406	223	0.00002050	0.00000387	0.000764	0.000248	0.808	0.49620	0.375	0.357	0.00000010	0.0000011	577	0.00345	0.0032	0.000138	0.0001	534	0.00489	0.00284						
E292131		Count	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13		
		Minimum	0.00062	0.00087	<0.0030	<0.0030	142	<0.000010	<0.0000050	<0.00050	<0.00020	0.167	0.0373	0.155	0.151	<0.0000020	<0.0000020	505	0.0015	0.0015	<0.00020	<0.00020	376	<0.0050	<0.0050							
		Maximum	0.00385	0.00649	0.267	0.0142	255	0.000134	0.00001	0.00401	0.00065	2.77	1.44	0.546	0.508	<0.0000020	0.00000022	649	0.0095	0.008	<0.0.											

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 50 Stats 2017-2021 30 Page(s)

2018 -19 Statistics																													
Stn.Code																													
EMS. ID	Site Name & Description	Statistics	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hg-T	Hg-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW002	Ex-situ 2-3 South shallow groundwater well beside 3-South Pit (1 Seam)	Average	0.00125	0.0017	0.01230	0.0085	249.7	0.0000100	0.0000281	0.00050	0.000533	4.04	3.36	1.31	1.63		0.0000010	1220	0.0065	0.0044	0.000200	0.000450	1295	0.00500	0.0197	0.00570	0.00560	0.01	0.44
		Count	6	1	1	6	6	1	6	1	6	1	6	1	6		6	1	1	6	1	6	6	1	6	1	6	1	1
		Minimum	0.00088	0.0017	0.0123	<0.0060	239	<0.000020	<0.000010	<0.0010	<0.0040	4.04	2.61	1.31	1.3		<0.0000020	1220	0.0065	0.002	<0.00040	<0.00040	1240	<0.010	<0.010	0.0057	0.0032	<0.020	0.44
		Maximum	0.00186	0.0017	0.0123	0.018	271	<0.000020	0.000096	<0.0010	0.001	4.04	4.2	1.31	1.83		<0.0000020	1220	0.0065	0.0142	<0.00040	<0.0010	1340	<0.010	0.063	0.0057	0.0106	<0.020	0.44
		Geometric Mean	0.00121	0.0017	0.01230	0.00745	249.4	0.0000100	0.0000174	0.00050	0.000482	4.04	3.32	1.31	1.62		0.0000010	1220	0.0065	0.0032	0.000200	0.000429	1294	0.00500	0.014	0.0057	0.0052	0.01	0.44
		Count <DL	0	0	0	5	0	1	4	1	5	0	0	0	0		6	0	0	4	1	6	0	1	5	0	0	1	0
		Standard Deviation	0.00033	0	0.00000	0.00499	12.2	0.0000000	0.0000343	0.00000	0.000258	0	0.55	0.00	0.2		0.0000000	0	0	0.00482	0.0000000	0.000122	38	0.00000	0.0214	0.00000	0.0027	0	0
		1st Quartile	0.00112	0.0017	0.0123	<0.015	241.8	<0.000020	<0.000025	<0.0010	<0.0010	4.04	3.03	1.31	1.55		<0.0000020	1220	0.0065	<0.0050	<0.00040	<0.0010	1280	<0.010	<0.025	0.0057	0.0039	<0.020	0.44
		Median	0.00114	0.0017	0.0123	<0.015	245	<0.000020	<0.000025	<0.0010	<0.0010	4.04	3.46	1.31	1.7		<0.0000020	1220	0.0065	<0.0050	<0.00040	<0.0010	1285	<0.010	<0.025	0.0057	0.005	<0.020	0.44
		3rd Quartile	0.0013	0.0017	0.0123	<0.015	254.2	<0.000020	0.0000256	<0.0010	<0.0010	4.04	3.52	1.31	1.75		<0.0000020	1220	0.0065	<0.0050	<0.00040	<0.0010	1327	<0.010	<0.025	0.00570	0.00610	<0.020	0.44
QU10090	Ex-situ 4-South deep groundwater well. Down gradient of 4-South Mine. Base of Dunsmlar Member. Assesses vertical gradients & water quality down gradient of the 4-South Mine workings. Just outside of mine pool. (Below 3 Seam)	Average	0.0954			0.00150	173.3		0.0000025		0.000100		0.620		0.0834		0.0000010		0.000500		0.0001000	87.1		0.00250		0.0149			0.110
		Count	3			3	3		3		3		3		3		3		3		3	3		3		3			1
		Minimum	0.0883			<0.0030	158		<0.0000050		<0.00020		0.434		0.0618		<0.0000020		<0.0010		<0.00020	80.1		<0.0050		0.01			0.110
		Maximum	0.101			<0.0030	185		<0.0000050		<0.00020		0.724		0.111		<0.0000020		<0.0010		<0.00020	99.9		<0.0050		0.0227			0.110
		Geometric Mean	0.0953			0.0015	173		0.0000025		0.000100		0.604		0.081		0.0000010		0.000500		0.0001000	86.7		0.00250		0.0140			0.110
		Count <DL	0			3	0		3		3		0		0		3		3		3	0		3		0			0
		Standard Deviation	0.007			0	13.9		0.0000000		0.0000000		0.161		0.0251		0.0000000		0.0000000		0.0000000	11.1		0.00000		0.0068			0.000
		1st Quartile	0.0927			<0.0030	167.5		<0.0000050		<0.00020		0.568		0.0696		<0.0000020		<0.0010		<0.00020	80.8		<0.0050		0.011			0.110
		Median	0.097			<0.0030	177		<0.0000050		<0.00020		0.701		0.0774		<0.0000020		<0.0010		<0.00020	81.4		<0.0050		0.012			0.110
		3rd Quartile	0.099			<0.0030	181		<0.0000050		<0.00020		0.712		0.0942		<0.0000020		<0.0010		<0.00020	90.6		<0.0050		0.0174			0.110
QU10095	Ex-situ 4-South shallow groundwater well. Fracture zone 10 m below till. Assesses vertical gradients & water quality down gradient of the 4-South Mine workings. Just outside of mine pool. (Below 3 Seam)	Average	0.0758			0.00150	143.5		0.0000025		0.000200		4.67		0.36		0.0000010		0.000500		0.0001000	116.5		0.00250		0.0151			
		Count	2			2	2		2		2		2		2		2		2		2	2		2		2			
		Minimum	0.073			<0.0030	130		<0.0000050		<0.00020		4.57		0.353		<0.0000020		<0.0010		<0.00020	109		<0.0050		0.0089			
		Maximum	0.0787			<0.0030	157		<0.0000050		0.0003		4.77		0.368		<0.0000020		<0.0010		<0.00020	124		<0.0050		0.0213			
		Geometric Mean	0.0758			0.0015	142.9		0.0000025		0.000173		4.67		0.36		0.0000010		0.0005		0.0001000	116.3		0.00250		0.0138			
		Count <DL	0			2	0		2		1		0		0		2		2		2	0		2		0			
		Standard Deviation	0.004			0	19.1		0.0000000		0.000141		0.14		0.011		0.0000000		0		0.0000000	10.6		0.00000		0.0088			
		1st Quartile	0.0744			<0.0030	136.8		<0.0000050		0.00015		4.62		0.357		<0.0000020		<0.0010		<0.00020	112.8		<0.0050		0.012			
		Median	0.0758			<0.0030	143.5		<0.0000050		0.0002		4.67		0.36		<0.0000020		<0.0010		<0.00020	116.5		<0.0050		0.0151			
		3rd Quartile	0.0773			<0.0030	150.2		<0.0000050		0.00025		4.72		0.364		<0.0000020		<0.0010		<0.00020	120.2		<0.0050		0.0182			
SPD	Settling Pond #1	Average	0.00096	0.00129	0.0564	0.01979	67.70	0.0000079	0.00000609	0.001126	0.00067	0.398	0.1153	0.0922	0.00000129	0.00000151	316	0.00177	0.00166	0.000114	0.000100	196.8	0.00320	0.0031	0.0059	0.0015	0.0100	0.022	
E218582		Count	7	7	7	7	11	7	7	7	7	7	7	7	7	7	7	7	7	7	7	37	7	3	1	2	2	2	
		Minimum	0.00032	0.00041	0.008	<0.0030	38.30	<0.000010	<0.0000050	<0.00050	0.00045	0.115	0.0082	0.0183	<0.0010	<0.0000020	152	<0.0010	<0.0010	<0.00020	<0.00020	25.1	<0.0050	<0.0050	<0.0030	<0.0030	<0.020	<0.020	
		Maximum	0.00333	0.00357	0.138	0.0556	99.5	0.000025	0.0000020	0.00255	0.00105	0.962	0.238	0.349	0.31	0.000003	0.0000032	401	0.007	0.0067	0.0002	<0.00020	368	0.0074	0.0067	0.0138	<0.0030	0.034	
		Geometric Mean	0.00068	0.00096	0.0377	0.01152	64.1	0.0000063	0.0000041	0.000868	0.00064	0.314	0.0715	0.0574	0.02425	0.0000012	0.0000013	302	0.00103	0.00091	0.00011	0.000100	158.20	0.00292	0.00288	0.00368	0.00150	0.0104	
		Count <DL	0	0	0	1	0	6	5	1	0	0	0	0	1	6	5	0	4	5	6	7	0	6	1	1	2	1	
		Standard Deviation	0.00107	0.00114	0.0449	0.01951	22.4	0.0000076	0.00000681	0.000846	0.00021	0.294	0.0913	0.1162	0.1082	0.0000008	0.00000091	92.0	0.00239	0.00233	0.0000038	0.0000000	109.9	0.00185	0.00159	0.00686	0	0.017	
		1st Quartile	0.00043	0.00052	0.0243	0.00585	48.6	<0.000010	<0.0000050	0.0006	0.00052	0.194	0.0414	0.0															

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 50 Stats 2017-2021 30 Page(s)

2018 -19 Statistics Stn.Code EMS. ID		Site Name & Description	Statistics	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hg-T	Hg-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
LUMB	Long Lake Middle 1 metre From Bottom	Average	0.0002	0.00024	0.0136	0.0094	56.8	0.00000500	0.0000025	0.000405	0.00047	0.037	0.01153	0.1771	0.11405	0.0000019	0.00000174	148.9	0.00050	0.00050	0.000100	0.000100	139.1	0.00250	0.00250	0.00384	0.00333	0.082	0.0147	
E206619		Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
		Minimum	0.00016	0.0002	0.0064	0.0048	54	<0.000010	<0.000050	0.00032	0.012	<0.0050	0.0387	<0.0010	<0.0000020	<0.0000020	138	<0.0010	<0.0010	<0.00020	<0.00020	129	<0.0050	<0.0050	<0.0020	<0.0020	0.049	<0.020	<0.020	
		Maximum	0.00023	0.0003	0.0291	0.0144	58.7	<0.000010	<0.000050	0.00103	0.00136	0.053	0.0214	0.391	0.391	0.0000059	0.000006	166	<0.0010	<0.0010	<0.00020	<0.00020	147	<0.0050	<0.0050	0.0085	<0.010	0.121	0.039	
		Geometric Mean	0.0002	0.00024	0.0121	0.0088	56.7	0.000005	0.0000025	0.000359	0.00044	0.035	0.00915	0.1478	0.02769	0.000000146	0.00000134	148.7	0.00050	0.00050	0.000100	0.000100	139	0.00250	0.00250	0.00331	0.00298	0.078	0.0127	
		Count <DL	0	0	0	0	0	15	15	9	0	0	3	0	3	11	12	0	15	15	15	15	0	15	15	2	7	0	12	
		Standard Deviation	0.00002	0.00002	0.0069	0.0032	1.6	0	0	0.000229	0.00026	0.01	0.00657	0.106	0.1238	0.00000172	0.00000172	7	0.000000	0.000000	0.0000000	0.0000000	5.6	0	0.000000	0.00201	0.00144	0.025	0.01	
		1st Quartile	0.00019	0.00023	0.0078	0.0066	55.6	<0.000010	<0.000050	<0.00050	0.00035	0.034	0.00515	0.0915	0.0056	<0.0000020	<0.0000020	145	<0.0010	<0.0010	<0.00020	<0.00020	135	<0.0050	<0.0050	0.0026	0.0026	0.058	<0.020	
		Median	0.0002	0.00024	0.0121	0.0093	57.1	<0.000010	<0.000050	<0.00050	0.0004	0.037	0.01260	0.129	0.0673	<0.0000020	<0.0000020	148	<0.0010	<0.0010	<0.00020	<0.00020	140.0	<0.0050	<0.0050	0.00365	0.0029	0.083	<0.020	
		3rd Quartile	0.00021	0.00026	0.0176	0.0121	58	<0.000010	<0.000050	0.00055	0.00047	0.044	0.01540	0.242	0.207	0.00000155	<0.0000020	152.5	<0.0010	<0.0010	<0.00020	<0.00020	143	<0.0050	<0.0050	0.00492	<0.010	0.106	<0.020	
LO	Long Lake Outlet	Average	0.00048	0.00051	0.026	0.0179	32.5	0.000005	0.00000333	0.001834	0.00055	0.0550	0.0307	0.0126	0.004	0.00000171	0.00000177	73.7	0.0005	0.00050	0.000100	0.000100	54.9	0.00250	0.00316					
E219412		Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	51	15	15					
		Minimum	0.00036	0.00035	0.0109	0.0054	15.9	<0.000010	<0.0000050	<0.00050	0.00033	0.012	0.0065	0.0048	0.0015	<0.0000020	<0.0000020	39.1	<0.0010	<0.0010	<0.00020	<0.00020	12.7	<0.0050	<0.0050					
		Maximum	0.00064	0.00066	0.0705	0.0403	43.9	<0.000010	0.000008	0.0204	0.00094	0.132	0.052	0.035	0.0085	0.0000067	0.0000076	105	<0.0010	<0.0010	<0.00020	<0.00020	110	<0.0050	0.0124					
		Geometric Mean	0.00048	0.0005	0.0221	0.0151	31.2	0.000005	0.00000303	0.000564	0.00052	0.049	0.0278	0.0106	0.0036	0.0000013	0.0000014	69.5	0.0005	0.00050	0.000100	0.000100	47.8	0.00250	0.00278					
		Count <DL	0	0	0	0	0	15	12	6	0	0	0	0	0	12	11	0	15	15	15	15	0	15	14					
		Standard Deviation	0.00009	0.00009	0.0167	0.0104	9.2	0	0.00000182	0.005145	0.00018	0.027	0.0118	0.0085	0.0019	0.00000164	0.00000176	24.7	0	0.00000	0.0000000	0.0000000	27.1	0	0.00256					
		1st Quartile	0.0004	0.00046	0.0143	0.0094	23.9	<0.000010	<0.0000050	<0.00050	0.00038	0.046	0.0246	0.0068	0.0028	<0.0000020	<0.0000020	50.6	<0.0010	<0.0010	<0.00020	<0.00020	30.8	<0.0050	<0.0050					
		Median	0.00049	0.00049	0.0181	0.0154	34.2	<0.000010	<0.0000050	0.00052	0.00053	0.052	0.031	0.009	0.0035	<0.0000020	<0.0000020	74.5	<0.0010	<0.0010	<0.00020	<0.00020	54.6	<0.0050	<0.0050					
		3rd Quartile	0.00054	0.00057	0.0343	0.0246	41.8	<0.000010	<0.0000050	0.00062	0.00065	0.062	0.0387	0.0150	0.0044	<0.0000020	0.00000165	101	<0.0010	<0.0010	<0.00020	<0.00020	81.8	<0.0050	<0.0050					
WB	Middle Quinsam Lake Outlet	Average	0.00019	0.0002	0.0450	0.0161	35.3	0.000005	0.0000028	0.00083	0.0006	0.059	0.0262	0.0077	0.0028	0.0000020	0.0000015	36.5	0.00050	0.00050	0.000100	0.000100	29.1	0.00250	0.00250					
E9000504		Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	17	15	15					
		Minimum	0.00015	0.00014	0.0134	0.0101	31	<0.000010	<0.0000050	0.00053	0.00047	0.028	0.0214	0.0048	0.0013	<0.0000020	<0.0000020	29.5	<0.0010	<0.0010	<0.00020	<0.00020	20.5	<0.0050	<0.0050					
		Maximum	0.00024	0.00033	0.2870	0.025	41	<0.000010	0.000007	0.00141	0.00084	0.337	0.0318	0.0126	0.006	0.0000075	0.0000031	48.1	<0.0010	<0.0010	<0.00020	<0.00020	38.5	<0.0050	<0.0050					
		Geometric Mean	0.00019	0.000200	0.0278	0.0156	35.2	0.000005	0.00000268	0.0008	0.00059	0.044	0.0260	0.0074	0.0026	0.00000141	0.00000135	36.2	0.00050	0.00050	0.000100	0.000100	28.8	0.00250	0.00250					
		Count <DL	0	0	0	0	0	15	14	0	0	0	0	0	0	12	10	0	15	15	15	15	0	15	15					
		Standard Deviation	0.00003	0.00005	0.0694	0.0039	2.3	0	0.00000116	0.00025	0.0001	0.0770	0.0033	0.0024	0.0012	0.00000207	0.00000077	5	0.000000	0.000000	0.0000000	0.0000000	4.4	0	0					
		1st Quartile	0.00017	0.00018	0.0173	0.0134	34	<0.000010	<0.0000050	0.00066	0.00052	0.034	0.0246	0.0055	0.002	<0.0000020	<0.0000020	33.8	<0.0010	<0.0010	<0.00020	<0.00020	26.9	<0.0050	<0.0050					
		Median	0.00019	0.000190	0.0195	0.0164	35	<0.000010	<0.0000050	0.00079	0.0006	0.039	0.0256	0.0079	0.0028	<0.0000020	<0.0000020	35.1	<0.0010	<0.0010	<0.00020	<0.00020	27.8	<0.0050	<0.0050					
		3rd Quartile	0.0002	0.000220	0.0394	0.0178	36.3	<0.000010	<0.0000050	0.00095	0.00061	0.044	0.0285	0.0088	0.0031	<0.0000020	0.00000215	38	<0.0010	<0.0010	<0.00020	<0.00020	30.5	<0.0050	<0.0050					
75SD	Settling Pond																													

Table 50 Stats 2017-2021 30 Page(s)

2018 -19 Statistics																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 50 Stats 2017-2021 30 Page(s)

2018 -19 Statistics Stn.Code EMS. ID		Site Name & Description	Statistics	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hg-T	Hg-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3	
QU11055		Ex-situ River Barrier Pillar (RBP) shallow groundwater well. Monitors water quality & gradients above the RBP & 2-North Mine. (Sandstone)	Average	0.04295			0.00402	191.3		0.0000050		0.000200		0.6426		0.116		0.0000010		0.001000		0.0002000	118.8		0.00500		0.081				
			Count	4			4	4		4		4		4		4		4		4		4	4		4		4				
			Minimum	0.00609			<0.0030	96.3		<0.0000050		<0.00020		<0.025		0.0795		<0.0000020		<0.0010		<0.00020	56.5		<0.0050		0.011				
			Maximum	0.0606			<0.015	314		<0.000025		<0.0010		1.16		0.183		<0.0000020		<0.0050		<0.0010	214		<0.025		0.259				
			Geometric Mean	0.03177			0.00345	169.6		0.0000037		0.000150		0.2896		0.1102		0.0000010		0.000750		0.0001500	103.9		0.00374		0.037				
			Count <DL	0			2	0		4		4		1		0		4		4		4	0		4		0				
			Standard Deviation	0.0249			0.00251	104.5		0.0000050		0.000200		0.475		0.0458		0.0000000		0.001000		0.0002000	71.0		0.00500		0.119				
			1st Quartile	0.03992			0.00292	108.8		<0.0000050		<0.00020		0.4846		0.0945		<0.0000020		<0.0010		<0.00020	69.4		<0.0050		0.0205				
			Median	0.05255			0.00355	177.5		<0.0000050		<0.00020		0.699		0.1008		<0.0000020		<0.0010		<0.00020	102.4		<0.0050		0.0262				
			3rd Quartile	0.05558			0.00465	260		0.000005		0.0002		0.857		0.1222		<0.0000020		0.001		0.0002	151.8		0.005		0.0863				
QU1095		Ex-situ River Barrier Pillar (RBP) shallow groundwater well. Monitors water quality & gradients above the RBP & 2-North Mine. (Sandstone)	Average	0.08961			0.00582	441.8		0.0000081		0.000325		2.7040		0.1053		0.0000033		0.00163		0.000325	423		0.00812		0.056				
			Count	4			4	4		4		4		4		4		4		4		4	4		4		4				
			Minimum	0.00344			<0.0030	427		<0.0000050		<0.00020		0.161		0.0317		<0.0000020		<0.0010		<0.00020	273		<0.0050		0.0058				
			Maximum	0.123			<0.015	462		<0.000025		<0.0010		10		0.309		<0.000020		<0.0050		<0.0010	712		<0.025		0.0834				
			Geometric Mean	0.04885			0.00489	441.6		0.0000067		0.000266		0.6450		0.0631		0.0000018		0.00133		0.000266	395		0.00665		0.038				
			Count <DL	0			3	0		4		4		0		0		4		4		4	0		4		0				
			Standard Deviation	0.058			0.0029	14.7		0.0000052		0.00021		4.8650		0.13590		0.0000045		0.00103		0.000206	196.0		0.0052		0.035				
			1st Quartile	0.08711			0.00547	435.2		0.00000438		0.000175		0.284		0.0376		<0.0000020		0.00088		0.000175	333		0.00438		0.048				
			Median	0.116			0.00715	439		0.00000875		0.00035		0.328		0.0402		<0.0000020		0.00175		0.00035	355		0.00875		0.0674				
			3rd Quartile	0.1185			<0.015	445.5		<0.000025		<0.0010		2.748		0.108		0.00000325		<0.0050		<0.0010	445		<0.025		0.0754				
75OR		7-South Quinsam River downstream of 7- South Mining Operation	Average	0.00036	0.00039	0.0329	0.0183	34.3	0.000005	0.00000341	0.00073	0.00264	0.09	0.0570	0.0063	0.0049	0.00000018	0.00000139	36.1	0.00050	0.00050	0.000109	0.000100	26.5	0.0025	0.0025	0.00185		0.0215	0.0088	
E292113			Count	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	19	20	20	2		2	2		
			Minimum	0.00022	0.00025	0.0126	0.0088	26.6	<0.000010	<0.0000050	0.00053	0.00046	0.065	0.035	0.0044	0.0025	<0.0000020	<0.0000020	28.1	<0.0010	<0.0010	<0.00020	<0.00020	14.1	<0.0050	<0.0050	<0.0020		<0.020	<0.015	
			Maximum	0.00052	0.00056	0.0603	0.0356	41.8	<0.000010	0.0000099	0.00115	0.0383	0.127	0.0836	0.0097	0.0082	0.00000085	0.00000049	48.8	<0.0010	<0.0010	0.00027	<0.00020	37.3	<0.0050	<0.0050	0.0027		0.033	<0.020	
			Geometric Mean	0.00035	0.00038	0.0303	0.0168	34.1	0.000005	0.00000305	0.00071	0.00078	0.088	0.0555	0.0062	0.0047	0.00000131	0.00000012	35.8	0.00050	0.00050	0.000105	0.000100	25.9	0.0025	0.0025	0.00164		0.0182	0.0087	
			Count <DL	0	0	0	0	0	20	16	0	0	0	0	0	0	17	17	0	20	20	19	20	0	20	1		1	2		
			Standard Deviation	0.00008	0.00008	0.0135	0.0079	4.1	0.00000000	0.00000206	0.00017	0.00843	0.018	0.0137	0.0015	0.0013	0.00000214	0.00000106	4.9	0.00000	0.00000	0.000038	0.000000	5.4	0	0	0.0012		0.0163	0.0018	
			1st Quartile	0.00032	0.00034	0.0246	0.0122	31.2	<0.000010	<0.0000050	0.00058	0.00052	0.079	0.0484	0.0053	0.004	<0.0000020	<0.0000020	33.4	<0.0010	<0.0010	<0.00020	<0.00020	25	<0.0050	<0.0050	0.00142		0.0158	0.0081	
			Median	0.00036	0.00038	0.0284	0.015	34.6	<0.000010	<0.0000050	0.00069	0.00058	0.086	0.0518	0.006	0.0048	<0.0000020	<0.0000020	35.6	<0.0010	<0.0010	<0.00020	<0.00020	27.6	<0.0050	<0.0050	0.00185		0.0215	0.0088	
			3rd Quartile	0.00042	0.00043	0.0438	0.0242	37.9	<0.000010	<0.0000050	0.00081	0.00067	0.096	0.0649	0.0075	0.0056	<0.0000020	<0.0000020	38.5	<0.0010	<0.0010	<0.00020	<0.00020	29.30	<0.0050	<0.0050	0.00228		0.0273	0.0094	
LQL1		Lower Quinsam Lake 1 metre below surface	Average	0.00057	0.00063	0.03	0.0216	29.58	0.000005	0.00000387	0.00079	0.00072	0.101	0.0683	0.012	0.00781	0.000000151	0.000000141	33.4	0.0005	0.00050	0.000100	0.000100	18.5	0.00250	0.00250	0.00544	0.0047	0.104	0.01	
E292118			Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	14	14	15	15		
			Minimum	0.00047	0.00044	0.0103	0.0079	<1.0	<0.000010	<0.0000050	0.00058	0.0005	0.052	0.0287	0.0046	<0.0010	<0.0000020	<0.0000020	30.1	<0.0010	<0.0010	<0.00020	<0.00020	13.2	<0.0050	<0.0050	<0.0020	<0.0020	<0.020	<0.020	
			Maximum	0.00063	0.00071	0.0535	0.0355	38.7	<0.000010	0.0000070	0.00125	0.00108	0.229	0.142	0.0311	0.0264	0.00000058	0.00000047	36.1	<0.0010	<0.0010	<0.00020	<0.00020	24.6	<0.0050	<0.0050	0.0106	0.017	1.42	<0.020	
			Geometric Mean	0.00057	0.00062	0.0264	0.0188	23.79	0.000005	0.00000352	0.00077	0.0007	0.089	0.0608	0.0095	0.0036	0.000000123	0.000000121	33.3	0.0005	0.00050	0.000100	0.000100	18	0.00250	0.00250	0.00482	0.0038	0.0139	0.01	
			Count <DL	0	0	0	0	1	15	9	0	0	0	0	0	3	13	13	0	15	15	15	15	0	15	15	1	5	14	15	
			Standard Deviation	0.00005	0.00008	0.0138	0.0105	9.19	0	0.00000181	0.00017	0.00016	0.055	0.0353	0.0090	0.0088	0.00000014	0.00000011	1.9	0	0.00000	0.000000	0.000000	4.1	0	0	0.00245	0.00386	0.3641	0	
			1st Quartile	0.00054	0.00059	0.0175	0.0105	28.05	<0.000010	<0.0000050	0.0007	0.00062	0.056	0.0448	0.0062	0.00145	<0.0000020	<0.0000020	31.8	<0.0010	<0.0010	<0.00020	<0.00020	15.2	<0.0050	<0.0050	0.00407	0.00265	<0.020	<0.020	
			Median	0.00059	0.00065	0.0311	0.0203	30.5	<0.000010	<0.0000050	0.000750	0.00073	0.080	0.0542	0.0072	0.00310	<0.0000020	<0.0000020	33.6	<0.0010	<0.0010	<0.00020	<0.00020	17	<0.0050	<0.0050	0.005	0.00405	<0.020	<0.020	
			3rd Quartile	0.0006	0.0007	0.0405	0.0305	35.5	<0.000010	0.0000053	0.000860	0.00078	0.134	0.0952	0.018	0.01455	<0.0000020	<0.0000020	34.6	<0.0010	<0.0010	<0.00020	<0.00020	21.9	<0.0050	<0.0050	0.00652	<0.010	<0.020	<0.020	
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Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 50 Stats 2017-2021 30 Page(s)

2019 -20 Statistics Stn.Code EMS. ID			Site Name & Description	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hg-T	Hg-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3	
WA E0126402			Quinsam River at Argonaut Road Upstream of Mining Operation.	Average	0.000112	0.000106	0.0301	0.0202	18.5	0.0000050	0.00000411	0.00063	0.00055	0.0256	0.0120	0.00147	0.00069	0.00000134	0.00000100	19.4	0.00050	0.00050	0.000100	0.000100	1.28	0.00250	0.00250			0.0100		
				Count	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	13	14	14			1	
				Minimum	<0.00010	<0.00010	0.0161	0.0142	14.0	<0.000010	<0.0000050	0.00052	0.00050	<0.010	0.0077	<0.0010	<0.0010	<0.0000020	<0.00000020	16.5	<0.0010	<0.0010	<0.00020	<0.00020	<1.0	<0.0050	<0.0050			<0.020		
				Maximum	0.00021	0.00018	0.106	0.0380	22	<0.000010	<0.000010	0.00094	0.00060	0.123	0.0202	0.0052	0.0016	0.0000037	<0.0000020	20.9	<0.0010	<0.0010	<0.00020	<0.00020	2.5	<0.0050	<0.0050			<0.020		
				Geometric Mean	0.000100	0.000097	0.0258	0.0196	18.4	0.0000050	0.00000390	0.00062	0.00055	0.0190	0.0115	0.00121	0.00062	0.00000119	0.00000010	19.4	0.00050	0.00050	0.000100	0.000100	1.11	0.00250	0.00250			0.0100		
				Count <DL	4	4	0	0	0	14	14	0	0	1	0	3	11	12	14	0	14	14	14	14	4	14	14			1		
				Standard Deviation	0.000053	0.000045	0.0235	0.0057	2.4	0.0000000	0.00000124	0.00011	0.00003	0.0290	0.0038	0.00116	0.00038	0.00000088	0.00000000	1.1	0.00000	0.00000	0.000000	0.000000	0.66	0.00000	0.00000			0.0000		
				1st Quartile	0.000063	0.000063	0.0192	0.0166	17	<0.000010	<0.0000050	0.00055	0.00052	0.0135	0.0095	0.00103	<0.0010	<0.0000020	<0.00000020	19.0	<0.0010	<0.0010	<0.00020	<0.00020	<1.0	<0.0050	<0.0050			<0.020		
				Median	0.000115	0.000105	0.0231	0.0193	18.9	<0.000010	<0.000010	0.00058	0.00055	0.0170	0.0099	0.0013	<0.0010	<0.0000020	<0.00000020	19.3	<0.0010	<0.0010	<0.00020	<0.00020	1.1	<0.0050	<0.0050			<0.020		
				3rd Quartile	0.000127	0.000135	0.0294	0.0215	20.1	<0.000010	<0.000010	0.00067	0.00056	0.0227	0.0143	0.00162	<0.0010	<0.0000020	<0.00000020	20.5	<0.0010	<0.0010	<0.00020	<0.00020	1.7	<0.0050	<0.0050			<0.020		
WD E207409				Average	0.00200	0.00124	0.0099	0.00328	363	0.0000050	0.00000438	0.000493	0.000211	0.519	0.01167	0.1028	0.0830	0.00000100	0.00000147	447	0.00094	0.00083	0.000100	0.000100	549	0.00290	0.00250	0.0037	0.00200	0.0155	0.055	
				Count	8	12	8	12	12	8	12	8	12	8	12	8	12	8	12	8	12	8	8	12	8	12	47	8	12	3	2	4
			Minimum	0.00093	0.00081	0.0037	<0.0030	240	<0.000010	<0.0000050	<0.00050	<0.00020	0.095	<0.0050	0.0101	0.0078	<0.0000020	<0.0000019	281	<0.0010	<0.0010	<0.00020	<0.00020	160	<0.0050	<0.0050	0.0034	<0.0030	<0.020	0.020		
			Maximum	0.00345	0.00164	0.0296	0.0101	490	<0.000010	<0.0000010	0.00107	0.00048	1.74	0.0282	0.354	0.359	<0.0000020	0.00000040	637	0.0020	0.0019	<0.00020	<0.00020	1000	0.0057	<0.0050	0.0042	0.0025	0.032	0.14		
			Geometric Mean	0.00179	0.00119	0.0080	0.00231	352	0.0000050	0.00000420	0.000402	0.000182	0.344	0.00936	0.0624	0.0491	0.00000100	0.00000125	428	0.00082	0.00073	0.000100	0.000100	507	0.00277	0.00250	0.0037	0.00194	0.0134	0.039		
			Count <DL	0	0	0	9	0	8	12	5	5	0	1	0	0	8	10	0	4	7	8	12	0	7	12	0	1	3	0		
			Standard Deviation	0.00094	0.00034	0.0083	0.00337	94	0.0000000	0.00000113	0.000345	0.000118	0.538	0.00834	0.1115	0.0969	0.00000000	0.00000111	139	0.00054	0.00046	0.000000	0.000000	217	0.00113	0.00000	0.0004	0.00071	0.0110	0.057		
			1st Quartile	0.00099	0.00088	0.0052	<0.0030	277	<0.000010	0.00000438	<0.00050	<0.00020	0.171	0.00635	0.0356	0.0216	<0.0000020	<0.00000020	343	<0.0010	<0.0010	<0.00020	<0.00020	395	<0.0050	<0.0050	0.0035	0.00175	<0.020	0.024		
			Median	0.00219	0.00129	0.0078	<0.0030	375	<0.000010	<0.0000050	0.000225	0.00010	0.378	0.00860	0.0695	0.0468	<0.0000020	<0.00000020	410	0.00080	<0.0010	<0.00020	<0.00020	486	<0.0050	<0.0050	0.0036	0.00200	<0.020	0.030		
			3rd Quartile	0.00258	0.00152	0.0098	0.00263	442	<0.000010	<0.000010	0.000790	0.000260	0.593	0.01468	0.1218	0.1065	<0.0000020	<0.00000020	576	0.0012	0.00113	<0.00020	<0.00020	755	<0.0050	<0.0050	0.0039	0.00225	0.0155	0.061		
MW0010			Average		0.01763		0.0171	171	0.0000180		0.00046		0.01057		0.5891		0.00000098		0.00263				0.000100	132		0.00250		0.102				
			Count		3		3	3	3		3		3		3		3		3		3		3		3		3					
			Minimum		0.00540		0.0053	81	<0.000010		0.00036		<0.0050		0.0032		<0.0000019		<0.0010		<0.00020		11		<0.0050		0.027					
			Maximum		0.0280		0.0294	340	0.000044		0.00061		0.0230		1.76		<0.0000020		0.0069		<0.00020		360		<0.0050		0.15					
			Geometric Mean		0.01434		0.0137	137	0.0000103		0.00045		0.00709		0.0285		0.00000098		0.00120		0.000100		46		0.00250		0.081					
			Count <DL		0		0	0	0	2		0		1		0		3		3		2		3		0		3		0		
			Standard Deviation		0.01142		0.0121	145	0.0000225		0.00013		0.01093		1.0140		0.00000003		0.00370		0.000000		197		0.00000		0.066					
			1st Quartile		0.01245		0.0109	87	<0.000010		0.00039		0.00435		0.0037		<0.00000097		<0.0010		<0.00020		18		<0.0050		0.079					
			Median		0.0195		0.0165	94	<0.000010		0.00041		0.0062		0.0041		<0.0000020		<0.0010		<0.00020		26		<0.0050		0.13					
			3rd Quartile		0.02375		0.0229	217	0.0000245		0.00051		0.01460		0.8821		<0.0000020		0.00370		<0.00020		193		<0.0050		0.140					
MW0015			Average		0.00047		0.00150	310.0	0.0000065		0.00048		0.129		2.60		0.00000100		0.0012				0.000100	400.0		0.00250		0.0026				
			Count		1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
			Minimum		0.00047		<0.0030	310	0.000005		0.00048		0.129		2.6																	

Table 50 Stats 2017-2021 30 Page(s)

2019 -20 Statistics Stn.Code																														
EMS. ID	Site Name & Description	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hg-T	Hg-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3	
NNL1			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
E217018	No Name Lake 1 metre below surface	Average	0.00030	0.00028	0.0281	0.0229	10.5	0.0000050	0.00000422	0.000250	0.00043	0.065	0.0488	0.0043	0.0036	0.00000100	0.00000123	13.8	0.00050	0.00050	0.000100	0.000100		1.8	0.00250	0.00250	0.00290	0.00348	0.0224	
		Count	9	9	9	9	5	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	5	8	5		
		Minimum	0.00019	0.00018	0.0120	0.0116	9.0	<0.000010	<0.0000050	<0.00050	0.00032	0.049	0.0313	0.0028	0.0020	<0.0000020	<0.0000020	11.5	<0.0010	<0.0010	<0.00020	<0.00020		1.2	<0.0050	<0.0050	<0.0030	<0.0030	<0.020	
		Maximum	0.00041	0.00041	0.0463	0.0343	12.0	<0.000010	0.0000080	<0.00050	0.00086	0.087	0.0758	0.0065	0.0057	<0.0000020	0.0000031	16.5	<0.0010	<0.0010	<0.00020	<0.00020		2.4	<0.0050	<0.0050	0.0048	<0.010	0.045	
		Geometric Mean	0.00029	0.00026	0.0244	0.0208	10.5	0.0000050	0.00000387	0.000250	0.00041	0.063	0.0467	0.0042	0.0034	0.00000100	0.00000113	13.6	0.00050	0.00050	0.000100	0.000100		1.7	0.00250	0.00250	0.00260	0.00315	0.0176	
		Count <DL	0	0	0	0	0	9	8	9	0	0	0	0	0	9	8	0	9	9	9	9	0	9	9	2	5	3		
		Standard Deviation	0.00009	0.00010	0.0146	0.0098	1.1	0.0000000	0.00000189	0.000000	0.00016	0.014	0.0157	0.0010	0.0012	0.00000000	0.00000070	2.1	0.00000	0.00000	0.000000	0.000000		0.4	0.00000	0.00000	0.00144	0.00146	0.0172	
		1st Quartile	0.00022	0.00018	0.0134	0.0126	10.2	<0.000010	<0.0000050	<0.00050	0.00035	0.055	0.0374	0.0039	0.0026	<0.0000020	<0.0000020	11.8	<0.0010	<0.0010	<0.00020	<0.00020		1.5	<0.0050	<0.0050	<0.0030	0.00278	<0.020	
		Median	0.00028	0.00021	0.0335	0.0277	10.3	<0.000010	<0.000010	<0.00050	0.00040	0.062	0.0419	0.0042	0.0037	<0.0000020	<0.0000020	13.1	<0.0010	<0.0010	<0.00020	<0.00020		1.9	<0.0050	<0.0050	0.0029	0.00330	<0.020	
		3rd Quartile	0.00039	0.00037	0.0408	0.0306	11.0	<0.000010	<0.000010	<0.00050	0.00041	0.068	0.0644	0.0045	0.0042	<0.0000020	<0.0000020	15.5	<0.0010	<0.0010	<0.00020	<0.00020		2.0	<0.0050	<0.0050	0.0038	<0.010	0.037	
NNL8	No Name Lake 1 metre from bottom	Average	0.00025	0.00019	0.0393	0.0324	10.9	0.0000050	0.00000422	0.000349	0.00037	0.113	0.0722	0.0122	0.0096	0.00000100	0.00000112	17.0	0.00050	0.00050	0.000100	0.000100		4.4	0.00250	0.00250	0.00362	0.00433	0.028	
E217018		Count	9	9	9	9	5	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	5	8	5		
		Minimum	0.00018	0.00013	0.0239	0.0185	9.8	<0.000010	<0.0000050	<0.00050	0.00032	0.080	0.0473	0.0049	0.0040	<0.0000020	<0.0000020	14.3	<0.0010	<0.0010	<0.00020	<0.00020		2.5	<0.0050	<0.0050	<0.0030	<0.0030	0.024	
		Maximum	0.00046	0.00030	0.0510	0.0387	13.1	<0.000010	0.0000080	0.00074	0.00046	0.135	0.190	0.0160	0.0159	<0.0000020	0.0000021	33.6	<0.0010	<0.0010	<0.00020	<0.00020		5.7	<0.0050	<0.0050	0.0066	0.0067	0.031	
		Geometric Mean	0.00024	0.00018	0.0383	0.0318	10.9	0.0000050	0.00000387	0.000314	0.00037	0.112	0.0652	0.0115	0.0089	0.00000100	0.00000109	16.3	0.00050	0.00050	0.000100	0.000100		4.3	0.00250	0.00250	0.00326	0.00399	0.028	
		Count <DL	0	0	0	0	0	9	8	7	0	0	0	0	0	9	8	0	9	9	9	9	0	9	9	1	4	0		
		Standard Deviation	0.00009	0.00006	0.0086	0.0061	1.3	0.0000000	0.00000189	0.000198	0.00004	0.019	0.0447	0.0037	0.00000000	0.00000037	6.2	0.000000	0.000000	0.00000000	0.00000000		0.9	0.00000	0.000000	0.00185	0.00161	0.003		
		1st Quartile	0.00020	0.00017	0.0349	0.0304	10.0	<0.000010	<0.0000050	<0.00050	0.00034	0.111	0.0539	0.0034	0.0119	0.0075	<0.0000020	<0.0000020	15.0	<0.0010	<0.0010	<0.00020	<0.00020		4.1	<0.0050	<0.0050	0.0032	0.00335	0.027
		Median	0.00021	0.00017	0.0395	0.0341	10.9	<0.000010	<0.000010	<0.00050	0.00037	0.114	0.0564	0.0136	0.0086	<0.0000020	<0.0000020	15.1	<0.0010	<0.0010	<0.00020	<0.00020		4.7	<0.0050	<0.0050	0.0034	<0.010	0.028	
		3rd Quartile	0.00025	0.00018	0.0446	0.0362	10.9	<0.000010	<0.000010	<0.00050	0.00039	0.128	0.0665	0.0147	0.0114	<0.0000020	<0.0000020	15.2	<0.0010	<0.0010	<0.00020	<0.00020		4.8	<0.0050	<0.0050	0.0034	<0.010	0.029	
NNO	No Name Lake Outlet	Average	0.00031	0.00031	0.0301	0.0229	13.0	0.0000050	0.00000417	0.000305	0.00039	0.093	0.0623	0.0059	0.0041	0.00000109	0.00000109	14.5	0.00050	0.00050	0.000100	0.000100		1.89	0.00250	0.00250	0.00260	0.00356	0.0122	0.0075
E217017		Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	14	15	15	6	5	6	1
		Minimum	0.00016	0.00017	0.0151	0.0113	9.7	<0.000010	<0.0000050	<0.00050	0.00033	0.053	0.0371	0.0041	0.0025	<0.0000020	<0.0000020	10.5	<0.0010	<0.0010	<0.00020	<0.00020		<1.0	<0.0050	<0.0050	<0.0030	<0.0030	<0.020	<0.015
		Maximum	0.00045	0.00043	0.0448	0.0345	15	<0.000010	<0.000010	0.00079	0.00048	0.169	0.0920	0.0079	0.0054	0.0000023	0.0000024	17.9	<0.0010	<0.0010	<0.00020	<0.00020		4.9	<0.0050	<0.0050	0.0048	0.0054	0.023	<0.015
		Geometric Mean	0.00029	0.00029	0.0281	0.0209	12.9	0.0000050	0.00000397	0.000284	0.00039	0.086	0.0586	0.0057	0.0040	0.00000106	0.00000106	14.3	0.00050	0.00050	0.000100	0.000100		1.64	0.00250	0.00250	0.00231	0.00328	0.0115	0.0075
		Count <DL	0	0	0	0	0	15	15	13	0	0	0	0	0	14	14	0	15	15	15	15	1	15	15	3	1	5	1	
		Standard Deviation	0.00010	0.00009	0.0108	0.0092	1.7	0.0000000	0.00000122	0.000152	0.00004	0.036	0.0218	0.0012	0.0011	0.00000034	0.00000036	2.2	0.000000	0.000000	0.00000000	0.00000000		1.17	0.00000	0.000000	0.00143	0.00142	0.0053	0.0000
		1st Quartile	0.00020	0.00020	0.0188	0.0125	11.5	<0.000010	<0.0000050	<0.00050	0.00036	0.064	0.0382	0.0050	0.0030	<0.0000020	<0.0000020	12.1	<0.0010	<0.0010	<0.00020	<0.00020		1.4	<0.0050	<0.0050	<0.0030	0.0031	<0.020	<0.015
		Median	0.00035	0.00034	0.0311	0.0261	13	<0.000010	<0.000010	<0.00050	0.00040	0.089	0.0639	0.0059	0.0046	<0.0000020	<0.0000020	15.2	<0.0010	<0.0010	<0.00020	<0.00020		1.55	<0.0050	<0.0050	0.00195	0.0038	<0.020	<0.015
		3rd Quartile	0.00037	0.00038	0.0389	0.0316	14.5	<0.000010	<0.000010	<0.00050	0.00043	0.118	0.0786	0.0066	0.0051	<0.0000020	<0.0000020	15.9	<0.0010	<0.0010	<0.00020	<0.00020		1.8	<0.0050	<0.0050	0.00352	0.0040	<0.020	<0.015
LLS	Small Seep into Long Lake	Average	0.00265	0.00224	0.01663	0.00315	245	0.0000050	0.00000450	0.000492	0.000163	1.200	0.9827	0.3230	0.3102	0.00000111	0.00000115	571	0.0032	0.0033	0.000100	0.000100		499	0.00250	0.00250				
E292131		Count	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10				
		Minimum	0.00052	0.00028	<0.0030	<0.0030</																								

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 50 Stats 2017-2021 30 Page(s)

2019 -20 Statistics																													
Stn.Code																													
EMS. ID	Site Name & Description	Statistic																											
		As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hg-T	Hg-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3	
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L		
MW002	Ex-situ 2-3 South shallow groundwater well beside 3-South Pt. (1 Seam)	Average	0.00197	0.00413	272.7	0.0000125	0.000333	4.11	0.0000274	0.000275	1300	0.0069	0.00147	0.16															
Count		4	4	3	4	4	4	4	4	4	4	3	1																
Minimum		0.00184	<0.0060	258	<0.000019	<0.00040	3.84	0.0024	<0.00040	1200	<0.010	0.0014	0.16																
Maximum		0.00232	<0.015	290	<0.000050	<0.0010	4.40	0.000068	0.0029	<0.0010	1400	<0.025	<0.0030	0.16															
Geometric Mean		0.00197	0.00377	272.3	0.0000106	0.000305	4.10	0.00000194	0.00262	0.000251	1298	0.0063	0.00147	0.16															
Count <DL		0	4	0	4	3	0	2	1	4	0	2	0																
Standard Deviation		0.00023	0.00025	16.2	0.0000087	0.000156	0.27	0.11	0.00000277	0.000022	0.000150	81	0.0038	0.00006	0.00														
1st Quartile		0.00186	<0.0060	264.0	0.0000088	<0.00040	3.90	0.00000099	0.00247	<0.00040	1275	<0.010	0.00145	0.16															
Median		0.00187	<0.0060	270	<0.000020	0.000115	4.09	0.00000160	0.00260	<0.00040	1300	<0.010	<0.0030	0.16															
3rd Quartile		0.00199	0.00413	280.0	0.0000138	0.000447	4.30	0.00000335	0.00275	0.0000275	1325	0.0069	<0.0030	0.16															
QU1009D	Ex-situ 4-South deep groundwater well down gradient of 4-South Mine. Base of Dismuir Member. Assesses vertical gradients & water quality down gradient of the 4-South Mine workings. Just outside of mine pool. (Below 3 Seam)	Average	0.1106	0.00150	183.5	0.0000375	0.000100	0.474	0.0000100	0.00050	0.000100	72.5	0.00250	0.017															
Count		2	2	2	2	2	2	2	2	2	2	2	2																
Minimum		0.0993	<0.0030	177	<0.0000050	<0.00020	0.472	0.0502	<0.000020	<0.0010	<0.00020	69	<0.0050	0.013															
Maximum		0.122	<0.0030	190	<0.000020	0.477	<0.000020	0.0581	<0.000020	<0.0010	<0.00020	76	<0.0050	0.020															
Geometric Mean		0.1101	0.00150	183.4	0.00000354	0.000100	0.474	0.00000100	0.000500	0.0000100	72.4	0.00250	0.016																
Count <DL		0	2	0	2	2	0	2	2	2	0	2	0																
Standard Deviation		0.0161	0.00000	9.2	0.00000177	0.0000000	0.0056	0.00000000	0.00000	0.0000000	4.9	0.00000	0.005																
1st Quartile		0.1050	<0.0030	180.2	0.00000313	<0.00020	0.473	0.0522	<0.000020	<0.0010	<0.00020	70.8	<0.0050	0.015															
Median		0.1106	<0.0030	183.5	0.00000375	0.000020	0.474	<0.000020	<0.0010	<0.00020	72.5	<0.0050	0.017																
3rd Quartile		0.1163	<0.0030	186.8	0.00000438	<0.00020	0.476	0.0561	<0.000020	<0.0010	<0.00020	74.2	<0.0050	0.018															
QU1009S	Ex-situ 4-South shallow groundwater well. Fracture zone 10 m below till. Assesses vertical gradients & water quality down gradient of the 4-South Mine workings. Just outside of mine pool. (Below 3 Seam)	Average	0.0822	0.01120	138.5	0.00000375	0.0000100	4.56	0.00000100	0.00050	0.0000100	110.0	0.00250	0.0097															
Count		2	2	2	2	2	2	2	2	2	2	2	2																
Minimum		0.0722	<0.0030	137	<0.0000050	<0.00020	4.37	0.350	<0.000020	<0.0010	<0.00020	100	<0.0050	0.0055															
Maximum		0.0921	0.0209	140	<0.000020	0.475	<0.000020	<0.0010	<0.00020	<0.0010	<0.00020	120	<0.0050	0.014															
Geometric Mean		0.0815	0.00560	138.5	0.00000354	0.0000100	4.56	0.363	0.00000100	0.00050	0.0000100	109.5	0.00250	0.0088															
Count <DL		0	1	0	2	2	0	2	2	2	0	2	0																
Standard Deviation		0.0141	0.01372	2.3	0.00000177	0.0000000	0.27	0.019	0.00000000	0.00000	0.0000000	14.1	0.00000	0.0060															
1st Quartile		0.0772	0.00635	137.8	0.00000313	<0.00020	4.46	0.357	<0.000020	<0.0010	<0.00020	105.0	<0.0050	0.0076															
Median		0.0822	0.01120	138.5	0.00000375	<0.00020	4.56	0.363	<0.000020	<0.0010	<0.00020	110.0	<0.0050	0.0097															
3rd Quartile		0.0871	0.01605	139.2	0.00000438	<0.00020	4.66	0.370	<0.000020	<0.0010	<0.00020	115.0	<0.0050	0.0119															
SPD	Setting Pond # 1	Average	0.00129	0.00087	0.0509	0.01866	76.9	0.0000079	0.0000505	0.000497	0.000332	0.589	0.2094	0.1430	0.0979	0.00000149	0.00000118	289	0.00147	0.00102	0.000100	0.000100	254	0.00296	0.00250	0.0077	0.00215	0.0290	
Count		7	10	7	10	12	7	10	7	10	7	10	7	10	7	10	7	10	7	10	7	10	45	7	10	5	4	5	5
Minimum		0.00039	0.00031	0.0053	<0.0030	30	<0.000010	<0.000050	<0.0050	<0.00020	0.178	0.0275	0.0380	0.0271	<0.0000020	<0.0000019	117	<0.0010	<0.0010	<0.00020	<0.00020	47	<0.0050	<0.0050	0.0043	<0.0030	<0.020	<0.015	
Maximum		0.00384	0.00232	0.187	0.0711	120	0.0000018	0.0000080	0.00150	0.00065	1.35	0.517	0.271	0.230	0.0000044	0.0000028	407	0.0030	0.0021	<0.00020	<0.00020	390	0.0057	<0.0050	0.013	0.0032	0.036	0.055	
Geometric Mean		0.00099	0.00072	0.0279	0.01035	72.2	0.0000068	0.00000489	0.000376	0.000294	0.485	0.1602	0.1144	0.0776	0.00000124	0.00000110	262	0.00127	0.00090	0.000100	0.000100	235	0.00281	0.00250	0.0072	0.00204	0.0129	0.0210	
Count <DL		0	0	0	1	0	5	9	5	1	0	0	0	0	6	9	0	1	4	7	10	0	6	10	0	2	4	2	
Standard Deviation		0.00119	0.00061	0.0637	0.02188	25.2	0.0000052	0.00000130	0.000477	0.000166	0.404	0.1421	0.0891	0.0690	0.00000129	0.00000057	119	0.00088	0.00055	0.000000	0.0000000	81	0.00121	0.00000	0.0033	0.00082	0.0116	0.0219	
1st Quartile		0.00068	0.00052	0.0144	0.0057	67.8	<0.000010	<0.000010	<0.00050	0.000225	0.331	0.1308	0.0712	0.0483	<0.0000020	<0.00000020	203	0.0011	<0.0010	<0.00020	<0.00020	220	<0.0050	<0.0050	0.0061	<0.0030	<0.020	<0.015	
Median		0.00089	0.00064	0.0296	0.00885	80.0	<0.000010	<0.000010	<0.00050	0.000300	0.499	0.1855	0.155	0.0614	<0.0000020	<0.00000020	336	0.0011	0.00105	<0.00020	<0.00020	269	<0.0050	<0.0050	0.0067	0.00195	<0.020	0.028	
3rd Quartile		0.00127	0.00097	0.0527	0.02135	92.2	0.0000085	<0.000010	0.000490	0.000428	0.716	0.2655	0.1975	0.1512	<0.0000020	<0.00000020	381	0.00175	0.00125	<0.00020	<0.00020	310	<0.0050	<0.0050	0.0082	0.00280	<0.020	0.047	
LLE	Long Lake Entrance (LLE)	Average	0.00080	0.00066	0.0515	0.02248	63.0	0.0000050	0.00000409	0.000359	0.000368	0.541	0.3567	0.0704	0.0702	0.00000131	0.00000176	219.1	0.00050	0.00050	0.000100	0.000100	196.0	0.00320	0.00292	0.00301	0.0349	0.0264	
Count		11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	45	11	11	11	11	11	
Minimum		0.00054	0.00045	0.0038	<0.0030	28	<0.000010	<0.0000050	<0.00050	<0.00020	0.156	0.0764	0.0112	0.0106	<0.0000019	<0.0000019	92.3	<0.0010	<0.0010	<0.00020	<0.00020	57	<0.0050	<0.0050	<0.0030	<0.020	<0.015		
Maximum		0.00121	0.00093	0.101	0.0455	140	<0.000010	<0.000010	0.00081	0.00072	1.05	0.985	0.151	0.152	0.0000045	0.0000064	547	<0.0010	<0.0010	<0.00020	<0.00020	620	0.0102	0.0071	0.0079	0.141	0.052		
Geometric Mean		0.00078	0.00064	0.0340	0.01339	53.8	0.0000050	0.00000389	0.000323	0.000332	0.473	0.2705	0.0545	0.0534	0.00000114	0.00000139	182.3	0.00050	0.00050	0.000100	0.000100	157.1	0.00284	0.00275	0.00255	0.0228	0.0185		
Count <DL		0	0	0	2	0	11	11	8	1	0	0	0	0	11	11	11	11	11	11	11	11	0	10	5	5	5	5	
Standard Deviation		0.00020	0.00016	0.0370	0.01636	39.8	0.0000000	0.00000126	0.000197	0.000162	0.266	0.2717	0.0447	0.0454	0.00000106	0.00000166	156.9	0.00000	0.00000	0.000000	0.0000000	153.3	0.00232	0.00139	0.00200	0.0395	0.0204		
1st Quartile		0.00071	0.00054	0.0186	0.00785	35.1	<0.000010	<0.0000050	<0.00050	0.000300	0.373	0.1400	0.0388	0.0370	<0.0000020	<0.00000020	126.0	<0.0010	<0.0010	<0.00020	<0.00020	110	<0.0050	<0.0050	<0.0030	<0.020	<0.015		
Median		0.00081	0.00065	0.0506	0.0214	41.5	<0.000010	<0.000010	<0.00050	0.00033	0.556	0.334	0.0624	0.0638	<0.0000020	<0.00000020	142	<0.0010	<0.0010	<0.00020	<0.00020	140	<0.0050	<0.0050	0.0027	0.024	0.016		
3rd Quartile		0.00082	0.00077	0.0859	0.03705	80	<0.000010	<0.000010	0.000395	0.00045	0.688	0.4685	0.1019	0.1038	<0.0000020	0.00000160	246.0	<0.0010	<0.0010	<0.00020	<0.00020	180	<0.0050	<0.0050	0.00360	0.039	0.0460		
LLM1	Long Lake Middle 1 metre below Surface	Average	0.00042	0.00040	0.0243	0.0188	23.3	0.0000050	0.00000411	0.000303	0.00035	0.065	0.0430	0.00714	0.00496	0.00000100	0.00000126	65.4	0.00050	0.00050	0.000100	0.000100	50.9	0.00250	0.00250	0.00377	0.00392	0.0158	
Count		14	14	14	14	10	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	6	22	5	
Minimum		0.00029	0.00026	0.0080	0.0067	14	<0.000010	<0.0000050	<0.00050	0.00026	0.014	0.0137	<0.0010	<0.0010	<0.0000020	<0.00000020	23.4	<0.0010	<0.0010	<0.00020	<0.00020	10	<0.0050	<0.0050	<0.0030	<0.020	<0.020		
Maximum		0.00054	0.00053	0.0578	0.0450	30.2	<0.000010	<0.000010	0.00071	0.00051	0.133	0.0825	0.0148	0.0121	<0.0000020	0.00000047	103	<0.0010	<0.0010	<0.00020	<0.00020	85	<0.0050	<0.0050	0.0070	<0.010	0.039		
Geometric Mean		0.00041	0.00039	0.0204	0.0166	23.0	0.0000050	0.00																					

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Table 50 Stats 2017-2021 30 Page(s)

2019-20 Statistics Stn.Code EMS. ID		Site Name & Description	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hg-T	Hg-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3		
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L		
LLMB E206619		Long Lake Middle 1 metre From Bottom	Average	0.00026	0.00021	0.0133	0.00870	53.5	0.0000050	0.00000411	0.000250	0.00029	0.055	0.0167	0.4699	0.3841	0.00000100	0.00000100	145.4	0.00050	0.00050	0.000100	0.000100	132.9	0.00250	0.00269	0.00205	0.00396	0.052			
			Count	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	6	12	5			
			Minimum	0.00021	0.00016	0.0054	<0.0030	44.5	<0.000010	<0.0000050	<0.00050	0.00024	0.034	0.0054	0.0834	0.0323	<0.0000020	<0.0000020	126	<0.0010	<0.0010	<0.00020	<0.00020	102	<0.0050	<0.0050	<0.0030	<0.0030	0.039			
			Maximum	0.00034	0.00034	0.0274	0.0183	57	<0.000010	<0.000010	<0.00050	0.00036	0.085	0.0412	1.24	1.08	<0.0000020	<0.0000020	158	<0.0010	<0.0010	<0.00020	<0.00020	150	<0.0050	0.0051	0.0040	<0.010	0.057			
			Geometric Mean	0.00026	0.00020	0.0115	0.00717	53.4	0.0000050	0.00000390	0.000250	0.00029	0.052	0.0124	0.2865	0.1958	0.00000100	0.00000100	145.1	0.00050	0.00050	0.000100	0.000100	132.3	0.00250	0.00263	0.00190	0.00355	0.052			
			Count <DL	0	0	0	1	0	14	14	14	14	0	0	0	0	0	14	14	0	14	14	14	14	14	0	14	13	4	11	0	
			Standard Deviation	0.00003	0.00005	0.0075	0.00502	3.5	0.0000000	0.00000124	0.000000	0.00003	0.017	0.0134	0.4484	0.4105	0.00000000	0.00000000	9.6	0.00000	0.00000	0.000000	0.000000	11.6	0.00000	0.00069	0.00101	0.00159	0.007			
			1st Quartile	0.00023	0.00016	0.0073	0.00465	53.1	<0.000010	<0.0000050	<0.00050	0.00026	0.040	0.0066	0.1070	0.0787	<0.0000020	<0.0000020	143.2	<0.0010	<0.0010	<0.00020	<0.00020	130	<0.0050	<0.0050	<0.0030	0.00263	0.054			
			Median	0.00026	0.00020	0.0097	0.00755	54.2	<0.000010	<0.000010	<0.00050	0.00030	0.052	0.0083	0.2305	0.1120	<0.0000020	<0.0000020	146	<0.0010	<0.0010	<0.00020	<0.00020	132.5	<0.0050	<0.0050	<0.0030	<0.010	0.055			
			3rd Quartile	0.00028	0.00023	0.0200	0.01327	55.1	<0.000010	<0.000010	<0.00050	0.00031	0.070	0.0301	0.9370	0.8090	<0.0000020	<0.0000020	153.5	<0.0010	<0.0010	<0.00020	<0.00020	140	<0.0050	<0.0050	<0.0030	<0.010	0.056			
LLO E219412		Long Lake Outlet	Average	0.00042	0.00039	0.0276	0.0163	30.3	0.0000050	0.00000411	0.000278	0.00034	0.074	0.0387	0.0092	0.0041	0.00000122	0.00000112	73.0	0.00050	0.00050	0.000100	0.000100	64.8	0.00250	0.00282			0.023			
			Count	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	26	14	14			1		
			Minimum	0.00026	0.00025	0.0088	0.0045	21.3	<0.000010	<0.0000050	<0.00050	0.00025	0.018	0.0093	0.0041	0.0013	<0.0000020	<0.0000020	48.0	<0.0010	<0.0010	<0.00020	<0.00020	2.9	<0.0050	<0.0050			0.023			
			Maximum	0.00054	0.00047	0.0866	0.0274	39	<0.000010	<0.000010	0.00064	0.00062	0.214	0.0592	0.0277	0.0093	0.00000026	0.00000027	99.9	<0.0010	<0.0010	<0.00020	<0.00020	97	<0.0050	0.0070			0.023			
			Geometric Mean	0.00041	0.00038	0.0229	0.0138	29.6	0.0000050	0.00000390	0.000267	0.00033	0.060	0.0318	0.0084	0.0033	0.00000114	0.00000107	70.5	0.00050	0.00050	0.000100	0.000100	56.8	0.00250	0.00269			0.023			
			Count <DL	0	0	0	0	0	14	14	13	0	0	0	0	0	12	13	0	14	14	14	14	0	14	13			0			
			Standard Deviation	0.00008	0.00008	0.0197	0.0084	6.6	0.0000000	0.00000124	0.000104	0.00010	0.049	0.0195	0.0047	0.0028	0.00000056	0.00000045	19.7	0.00000	0.00000	0.000000	0.000000	23.4	0.00000	0.00120			0.000			
			1st Quartile	0.00035	0.00031	0.0152	0.0073	25.2	<0.000010	<0.0000050	<0.00050	0.00028	0.040	0.0181	0.0060	0.0016	<0.0000020	<0.0000020	54.5	<0.0010	<0.0010	<0.00020	<0.00020	46.4	<0.0050	<0.0050			0.023			
			Median	0.00046	0.00042	0.0239	0.0175	28.6	<0.000010	<0.000010	<0.00050	0.00034	0.075	0.0455	0.0083	0.0037	<0.0000020	<0.0000020	68.9	<0.0010	<0.0010	<0.00020	<0.00020	67.3	<0.0050	<0.0050			0.023			
			3rd Quartile	0.00047	0.00045	0.0332	0.0232	36	<0.000010	<0.000010	<0.00050	0.00037	0.089	0.0547	0.0105	0.0062	<0.0000020	<0.0000020	93.3	<0.0010	<0.0010	<0.00020	<0.00020	81.2	<0.0050	<0.0050			0.023			
WB E9000504		Middle Quinsam Lake Outlet	Average	0.00019	0.00018	0.0220	0.0133	38.0	0.0000050	0.00000411	0.000442	0.00047	0.054	0.0283	0.0074	0.0032	0.00000124	0.00000100	39.2	0.00050	0.00050	0.000100	0.000100	31.4	0.00250	0.00250			0.0100			
			Count	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	13	14	14			1		
			Minimum	0.00014	0.00013	0.0103	0.0076	24	<0.000010	<0.0000050	<0.00050	0.00038	0.030	0.0205	0.0039	0.0022	<0.0000020	<0.0000020	24.5	<0.0010	<0.0010	<0.00020	<0.00020	9.0	<0.0050	<0.0050			<0.020			
			Maximum	0.00028	0.00024	0.0889	0.0189	47.5	<0.000010	<0.000010	0.00084	0.00062	0.166	0.0378	0.0134	0.0064	0.00000031	<0.00000020	51.0	<0.0010	<0.0010	<0.00020	<0.00020	57.9	<0.0050	<0.0050			<0.020			
			Geometric Mean	0.00019	0.00018	0.0183	0.0127	37.0	0.0000050	0.00000390	0.000403	0.00046	0.049	0.0279	0.0071	0.0031	0.00000115	0.00000100	38.0	0.00050	0.00050	0.000100	0.000100	25.7	0.00250	0.00250			0.0100			
			Count <DL	0	0	0	0	0	14	14	6	0	0	0	0	0	12	14	0	14	14	14	14	0	14	14			1			
			Standard Deviation	0.00004	0.00003	0.0195	0.0041	8.3	0.0000000	0.00000124	0.000196	0.00006	0.033	0.0047	0.0023	0.0011	0.00000062	0.00000000	9.2	0.00000	0.00000	0.000000	0.000000	16.9	0.00000	0.00000			0.0000			
			1st Quartile	0.00017	0.00017	0.0137	0.0102	30.6	<0.000010	<0.0000050	<0.00050	0.00044	0.041	0.0266	0.0059	0.0025	<0.0000020	<0.0000020	30.6	<0.0010	<0.0010	<0.00020	<0.00020	9.4	<0.0050	<0.0050			<0.020			
			Median	0.00018	0.00018	0.0146	0.0123	40.4	<0.000010	<0.000010	0.000505	0.00047	0.046	0.0284	0.0073	0.0029	<0.0000020	<0.0000020	41.9	<0.0010	<0.0010	<0.00020	<0.00020	38	<0.0050	<0.0050			<0.020			
			3rd Quartile	0.00020	0.00020	0.0219	0.0175	44.7	<0.000010	<0.000010	0.00053	0.00048	0.054	0.0293	0.0083	0.0037	<0.0000020	<0.0000020	45.4	<0.0010	<0.0010	<0.00020	<0.00020	42.2	<0.0050	<0.0050			<0.020			
75SD E292069		Settling Pond at 75- Discharge to Stream 1 -75	Average	0.00481	0.00458	0.0197	0.00357	129	0.0000050	0.00000393	0.00085	0.00073	0.061	0.0160	0.0878	0.0733	0.00000179	0.00000203	147.5	0.00050	0.00050	0.000100	0.000100	34.7	0.00250	0.00250	0.021		0.0100	0.041		
			Count	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7														

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Table 50 Stats 2017-2021 30 Page(s)

2019 -20 Statistics Stn.Code EMS. ID		Site Name & Description	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hg-T	Hg-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3	
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
QU11055		Ex-situ River Barrier Pillar (RBP) shallow groundwater well. Monitors water quality & gradients above the RBP & 2-North Mine. (Sandstone)	Average		0.0811		0.00225	245.0		0.0000050		0.000100		1.062		0.1496		0.00000097		0.000100		0.00050		0.000100	125.0		0.00250		0.0086		
			Count		2		2	2	2		2		2		2		2		2		2		2		2	2		2			
			Minimum		0.0522		<0.0030	200		<0.000010	<0.00020		0.824		0.0862		<0.0000019		<0.0010		<0.00020		100		<0.0050		0.0079				
			Maximum		0.110		0.0030	290		<0.000010	<0.00020		1.30		0.213		<0.0000020		<0.0010		<0.00020		150		<0.0050		0.0093				
			Geometric Mean		0.0758		0.00212	240.8		0.0000050	0.000100		1.035		0.1355		0.00000097		0.00050		0.000100		122.5		0.00250		0.0086				
			Count <DL		0		1	0		2		2		0		0		2		2		2		0		<0.0050		0			
			Standard Deviation		0.0409		0.00106	63.6		0.0000000	0.000000		0.337		0.0897		0.00000004		0.00000		0.000000		35.4		0.00000		0.0010				
			1st Quartile		0.0667		0.00187	222.5		<0.000010	<0.00020		0.943		0.1179		0.00000096		<0.0010		<0.00020		112.5		<0.0050		0.0083				
			Median		0.0811		0.00225	245.0		<0.000010	<0.00020		1.062		0.1496		0.00000097		<0.0010		<0.00020		125.0		<0.0050		0.0086				
			3rd Quartile		0.0955		0.00263	267.5		<0.000010	<0.00020		1.181		0.1813		0.00000099		<0.0010		<0.00020		137.5		<0.0050		0.0089				
QU11095		Ex-situ River Barrier Pillar (RBP) shallow groundwater well. Monitors water quality & gradients above the RBP & 2-North Mine. (Sandstone)	Average		0.146		0.00150	410.0		0.0000050		0.000100		0.132		0.0257		0.00000100		0.00050		0.000100		0.000100	210.0		0.00250		0.033		
			Count		2		2	2	2		2		2		2		2		2		2		2		2	2		2		1	
			Minimum		0.142		<0.0030	400		<0.000010	<0.00020		0.116		0.0230		<0.0000020		<0.0010		<0.00020		200		<0.0050		0.033				
			Maximum		0.150		<0.0030	420		<0.000010	<0.00020		0.147		0.0284		<0.0000020		<0.0010		<0.00020		220		<0.0050		0.033				
			Geometric Mean		0.146		0.00150	409.9		0.0000050	0.000100		0.131		0.0256		0.00000100		0.00050		0.000100		209.8		0.00250		0.033				
			Count <DL		0		2	0		2		2		0		0		2		2		2		0		<0.0050		0			
			Standard Deviation		0.006		0.00000	14.1		0.0000000	0.000000		0.022		0.0038		0.00000000		0.00000		0.000000		14.1		0.00000		0.000				
			1st Quartile		0.144		<0.0030	405.0		<0.000010	<0.00020		0.124		0.0244		<0.0000020		<0.0010		<0.00020		205.0		<0.0050		0.033				
			Median		0.146		<0.0030	410.0		<0.000010	<0.00020		0.132		0.0257		<0.0000020		<0.0010		<0.00020		210.0		<0.0050		0.033				
			3rd Quartile		0.148		<0.0030	415.0		<0.000010	<0.00020		0.139		0.0271		<0.0000020		<0.0010		<0.00020		215.0		<0.0050		0.033				
75QR		7-South Quinsam River downstream of 7- South Mining Operation	Average	0.00037	0.00033	0.0277	0.0150	36.9	0.0000050	0.00000400	0.000553	0.000456	0.103	0.0632	0.0061	0.0045	0.00000100	0.00000108	36.7	0.00050	0.00050	0.000100	0.000100	29.1	0.00250	0.00269					
E292113			Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15				
			Minimum	0.00024	0.00021	0.0145	0.0076	26	<0.000010	<0.0000050	<0.00050	<0.00020	0.076	0.0459	0.0048	0.0012	<0.0000020	<0.0000020	25.3	<0.0010	<0.0010	<0.00020	<0.00020	7.9	<0.0050	<0.0050					
			Maximum	0.00047	0.00042	0.0689	0.0343	45.3	<0.000010	<0.000010	0.00107	0.00063	0.187	0.106	0.0096	0.0064	<0.0000020	0.0000022	44.6	<0.0010	<0.0010	<0.00020	<0.00020	49.0	<0.0050	0.0053					
			Geometric Mean	0.00036	0.00033	0.0248	0.0138	36.3	0.0000050	0.00000379	0.000502	0.000429	0.099	0.0608	0.0060	0.0043	0.00000100	0.00000105	36.0	0.00050	0.00050	0.000100	0.000100	24.5	0.00250	0.00263					
			Count <DL	0	0	0	0	0	15	15	4	1	0	0	0	0	15	14	0	15	15	15	15	0	15	14					
			Standard Deviation	0.00007	0.00007	0.0149	0.0071	6.5	0.0000000	0.00000127	0.000233	0.000123	0.030	0.0196	0.0013	0.0013	0.00000000	0.00000031	7.1	0.00000	0.00000	0.000000	0.000000	14.3	0.00000	0.00072					
			1st Quartile	0.00032	0.00028	0.0161	0.0100	31.5	<0.000010	<0.0000050	0.000380	0.000420	0.084	0.0484	0.0052	0.0039	<0.0000020	<0.0000020	29.8	<0.0010	<0.0010	<0.00020	<0.00020	16.2	<0.0050	<0.0050					
			Median	0.00039	0.00036	0.0240	0.0154	39.7	<0.000010	<0.000010	0.00058	0.00046	0.092	0.0563	0.0054	0.0044	<0.0000020	<0.0000020	40.6	<0.0010	<0.0010	<0.00020	<0.00020	33	<0.0050	<0.0050					
			3rd Quartile	0.00043	0.00039	0.0328	0.0169	41.8	<0.000010	<0.000010	0.000650	0.000510	0.106	0.0706	0.0069	0.0054	<0.0000020	<0.0000020	41.5	<0.0010	<0.0010	<0.00020	<0.00020	40.2	<0.0050	<0.0050					
LQL1		Lower Quinsam Lake 1 metre below surface	Average	0.00058	0.00053	0.0294	0.0186	33.3	0.0000050	0.00000538	0.000526	0.00052	0.065	0.0440	0.0049	0.00269	0.00000200	0.00000138	34.0	0.00050	0.00050	0.000100	0.000100	20.8	0.00250	0.00250	0.00282	0.0040	0.0820		
E292118			Count	8	8	8	8	4	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	4	7	4		
			Minimum	0.00046	0.00040	0.0090	0.0070	31.1	<0.000010	<0.0000050	<0.00050	0.00037	0.041	0.0285	0.0027	<0.0010	<0.0000020	<0.0000020	33.0	<0.0010	<0.0010	<0.00020	<0.00020	13	<0.0050	<0.0050	<0.0030	0.0025	<0.020		
			Maximum	0.00072	0.00068	0.0646	0.0358	36.1	<0.000010	0.0000130	0.00062	0.00076	0.100	0.0588	0.0062	0.0059	0.00000056	0.00000040	36.0	<0.0010	<0.0010	<0.00020	<0.00020	29.7	<0.0050	<0.0050	0.0047	<0.010	0.164		
			Geometric Mean	0.00057	0.00052	0.0220	0.0153	33.3	0.0000050	0.00000474	0.000509	0.00051	0.062	0.0428	0.0047	0.00218	0.00000149	0.00000119	34.0	0.00050	0.00050	0.000100	0.000100	20.0	0.00250	0.00250	0.00248	0.0039	0.0392		
			Count <DL	0	0	0	0	0	8	6	1	0	0	0	0	0	1	6	7	0	8	8	8	8	0	8	8	2	3	2	
			Standard Deviation	0.00011	0.00011	0.0219	0.0117	2.1	0.0000000	0.00000328	0.000122	0.00012	0.021	0.0106	0.0011	0.00167	0.00000188	0.00000106	1.0	0.00000	0.00000	0.000000	0.000000	6.0	0.00000	0.00000	0.00159	0.0010	0.0835		
			1st Quartile	0.00049	0.00043	0.0100	0.0088	32.5	<0.000010	0.00000438	0.000508	0.00047	0.049	0.0358	0.0043	0.00153	<0.0000020	<0.0000020	33.5	<0.0010											

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Table 50 Stats 2017-2021 30 Page(s)

2020 -21 Statistics Stn. Code EMS. ID	Site Name & Description	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hg-T	Hg-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3	
WA			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
E0126402	Quinsam River at Argonaut Road Upstream of Mining Operation.	Average	0.000032	0.000089	0.0226	0.0179	19.5	0.000050	0.000050	0.00082	0.00057	0.019	0.0116	0.00144	0.00050	0.00000114	0.00000095	19.9	0.00050	0.00050	0.000100	0.000100	1.27	0.00250	0.00250	0.01170	0.0050	0.0100	0.00075	
Count		15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
Minimum		<0.00010	<0.00010	0.0176	0.0126	16	<0.00010	<0.00010	0.00052	0.00049	0.011	0.0056	<0.00010	<0.00010	<0.0000019	<0.0000019	18.2	<0.0010	<0.0010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	
Maximum		0.00018	0.00017	0.0397	0.0432	23	<0.00010	<0.00010	0.00317	0.00074	0.036	0.0245	0.0021	<0.00010	0.000028	<0.0000019	21.6	<0.0010	<0.0010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Geometric Mean		0.000092	0.000079	0.0221	0.0170	19.3	0.000050	0.000050	0.00071	0.00056	0.018	0.0107	0.00134	0.00050	0.00000107	0.00000095	19.9	0.00050	0.00050	0.000100	0.000100	1.23	0.00250	0.00250	0.00456	0.0050	0.0100	0.00075		
Count <DL		5	8	0	0	0	15	0	15	0	0	0	2	15	13	15	0	15	15	15	15	15	15	15	15	15	15	15	15	15
Standard Deviation		0.000044	0.000047	0.0053	0.0073	2.6	0.000000	0.000000	0.00071	0.00007	0.007	0.0051	0.00047	0.00000	0.00000050	0.00000000	0.9	0.00000	0.00000	0.000000	0.000000	0.31	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	
1st Quartile		<0.00010	<0.00010	0.0196	0.0152	17	<0.00010	<0.00010	0.00057	0.00052	0.013	0.0082	0.00125	<0.00010	<0.0000019	<0.0000019	19.6	<0.0010	<0.0010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	
Median		0.00011	<0.00010	0.0220	0.0164	20	<0.00010	<0.00010	0.00062	0.00055	0.018	0.0101	0.0015	<0.00010	<0.0000019	<0.0000019	20.0	<0.0010	<0.0010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	
3rd Quartile		0.000125	0.000125	0.0234	0.0176	21.5	<0.00010	<0.00010	0.00072	0.00068	0.022	0.0132	0.00175	<0.00010	<0.0000019	<0.0000019	20.4	<0.0010	<0.0010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	
WD	Average	0.00007	0.000651	0.01419	0.00444	391	0.0000236	0.0000077	0.001431	0.000458	1.985	0.5690	0.5045	0.0000095	0.00000095	300	0.02765	0.02170	0.000144	0.000140	696	0.01096	0.00665	0.00150	0.0147	0.020				
E207409	Settling Pond #4	Count	16	20	16	20	18	16	20	16	20	16	20	16	20	11	15	16	16	20	16	53	16	20	3	3	3	3	3	
Minimum		0.00021	<0.00020	<0.0060	<0.0025	140	<0.00010	<0.00010	<0.00050	<0.00010	0.022	0.0064	0.0570	0.0468	<0.0000019	<0.0000019	382	<0.0010	<0.0010	<0.00020	<0.00020	420	<0.0050	<0.0050	<0.0030	<0.020	0.024			
Maximum		0.000197	0.00156	0.0405	0.0225	470	0.000061	<0.000050	0.00036	0.00146	14.6	9.82	2.40	2.39	<0.0000019	<0.0000019	699	0.149	0.149	<0.00040	<0.00040	1300	0.082	0.028	<0.0030	0.024	0.033			
Geometric Mean		0.000087	0.000514	0.00947	0.00295	379	0.0000161	0.0000068	0.001068	0.000162	0.831	0.0297	0.2603	0.1067	0.00000095	0.00000005	492	0.00578	0.000135	0.000124	681	0.00719	0.00449	0.00150	0.0134	0.020				
Count <DL		0	2	2	14	0	7	18	4	5	0	1	0	0	11	15	0	6	9	16	20	0	8	15	3	2	0			
Standard Deviation		0.00061	0.000390	0.01345	0.00543	79	0.0000184	0.0000049	0.000084	0.000039	3.519	2.1844	0.6756	0.0000000	0.00000000	94	0.04063	0.000051	0.0000120	0.000094	152	0.00988	0.00719	0.00000	0.0081	0.005				
1st Quartile		0.00056	0.000322	0.00415	<0.0030	355	0.0000088	<0.00010	0.000755	0.000235	0.596	0.0113	0.1057	0.0050	<0.0000019	<0.0000019	425	0.00088	<0.0010	<0.00020	<0.00020	690	<0.0050	<0.0050	<0.0030	<0.020	0.028			
Median		0.00100	0.000720	0.00845	<0.0060	420	0.000195	<0.00010	0.001185	0.000255	0.942	0.0110	0.1700	0.1140	<0.0000019	<0.0000019	466	0.00485	0.00240	<0.00020	<0.00020	720	0.00755	<0.0050	<0.0030	<0.020	0.031			
3rd Quartile		0.00041	0.000915	0.01940	0.00342	440	0.0000133	<0.00010	0.000542	0.000137	1.370	0.0251	0.6534	0.0130	<0.0000019	<0.0000019	585	0.04235	0.02970	<0.00040	0.000125	760	0.01995	0.00780	<0.0030	0.0170	0.032			
MW001D		Ex-situ 2-North deep groundwater well below the coal wash plant (Till)	Average	0.00282		0.00190	340.0	0.000044		0.000290		0.000290	3.74	2.39		0.0000000		0.0034		0.000100	640	0.00250		0.00360		0.00360		0.0170	0.032	
Count	2		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Minimum	0.00274			<0.0030	340	0.000021		<0.00020		3.39	2.30		<0.0000019		0.0032		<0.00020	580	<0.0050		<0.0030		<0.0030		<0.0030		0.0091			
Maximum	0.00289			<0.0030	340	0.000066		0.00040		4.09	2.58		<0.0000019		0.0035		<0.00020	700	<0.0050		0.0091		<0.0050		0.0091		0.028			
Geometric Mean	0.00281			0.00150	340.0	0.000037		0.000200		3.72	2.38		0.00000095		0.0033		0.000100	637	0.00250		0.00360		0.00360		0.0170	0.032				
Count <DL	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Standard Deviation	0.00011			0.00000	0.0	0.000032		0.00008		0.000212		0.49	0.27		0.0000000		0.0002		0.000000	84	0.00000		0.00000		0.00000		0.00000			
1st Quartile	0.00278			<0.0030	340	0.000019		0.000017		0.000175		3.56	2.30		<0.0000019		0.0033		<0.00020	610	<0.0050		0.00360		<0.0050		0.00360		0.0170	0.032
Median	0.00282			<0.0030	340	0.000044		0.000250		0.000250		3.74	2.39		<0.0000019		0.0034		<0.00020	640	<0.0050		0.00360		<0.0050		0.00360		0.0170	0.032
3rd Quartile	0.00285			<0.0030	340	0.00005																								

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2020 -21 Statistics Stn.Code																														
EMS. ID	Site Name & Description	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hg-T	Hg-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3	
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
NNL1	No Name Lake 1 metre below surface	Average	0.00022	0.00021	0.0264	0.0214	10.7	0.0000050	0.0000050	0.004340	0.00174	0.058	0.0414	0.0048	0.0039	0.00000120	0.00000116	13.7	0.00050	0.00050	0.000100	0.000100	2.6	0.00250	0.00250	0.00237	0.0050			
E217018		Count	5	5	5	5	3	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	3	5			
		Minimum	0.00018	0.00019	0.0242	0.0201	10	<0.000010	<0.000010	<0.00050	0.00034	0.054	0.0359	0.0044	0.0033	<0.0000019	<0.0000019	13.3	<0.0010	<0.0010	<0.00020	<0.00020	2.3	<0.0050	<0.0050	<0.0030	<0.010			
		Maximum	0.00025	0.00023	0.0293	0.0230	11	<0.000010	<0.000010	0.0207	0.00723	0.060	0.0487	0.0051	0.0045	0.0000022	0.0000020	14.0	<0.0010	<0.0010	<0.00020	<0.00020	3.0	<0.0050	<0.0050	0.0041	<0.010			
		Geometric Mean	0.00022	0.00021	0.0263	0.0214	10.7	0.0000050	0.0000050	0.000605	0.00066	0.058	0.0411	0.0048	0.0039	0.00000112	0.00000110	13.7	0.00050	0.00050	0.000100	0.000100	2.6	0.00250	0.00250	0.00210	0.0050			
		Count <DL	0	0	0	0	0	0	5	5	4	0	0	0	0	0	4	4	0	5	5	5	5	0	5	5	2	5		
		Standard Deviation	0.00003	0.00002	0.00019	0.0011	0.6	0.0000000	0.0000000	0.009146	0.00307	0.002	0.0056	0.0003	0.0005	0.00000056	0.00000047	0.3	0.00000	0.00000	0.000000	0.000000	0.3	0.00000	0.00000	0.00150	0.0000			
		1st Quartile	0.00019	0.00020	0.0257	0.0208	10.5	<0.000010	<0.000010	<0.00050	0.00036	0.057	0.0362	0.0046	0.0038	<0.0000019	<0.0000019	13.5	<0.0010	<0.0010	<0.00020	<0.00020	2.3	<0.0050	<0.0050	<0.0030	<0.010			
		Median	0.00024	0.00022	0.0259	0.0212	11	<0.000010	<0.000010	<0.00050	0.00037	0.058	0.0407	0.0048	0.0039	<0.0000019	<0.0000019	13.7	<0.0010	<0.0010	<0.00020	<0.00020	2.4	<0.0050	<0.0050	<0.0030	<0.010			
		3rd Quartile	0.00024	0.00023	0.0268	0.0221	11	<0.000010	<0.000010	<0.00050	0.00039	0.060	0.0454	0.0049	0.0042	<0.0000019	<0.0000019	13.8	<0.0010	<0.0010	<0.00020	<0.00020	2.9	<0.0050	<0.0050	0.00280	<0.010			
NNLB	No Name Lake 1 metre from bottom	Average	0.00021	0.00019	0.0373	0.0271	10.3	0.0000050	0.0000050	0.002064	0.00065	0.112	0.0490	0.00017	0.0001	0.00000095	0.00000095	13.5	0.00050	0.00050	0.000100	0.000100	16.1	0.00250	0.00250	0.00210	0.0050			
E217018		Count	5	5	5	5	3	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	3	5			
		Minimum	0.00019	0.00017	0.0320	0.0259	9.8	<0.000010	<0.000010	<0.00050	0.00035	0.072	0.0379	0.0003	0.00034	<0.0000019	<0.0000019	14.6	<0.0010	<0.0010	<0.00020	<0.00020	4.2	<0.0050	<0.0050	<0.0030	<0.010			
		Maximum	0.00024	0.00020	0.0399	0.0284	11	<0.000010	<0.000010	0.00932	0.00165	0.175	0.0665	0.0106	0.0132	<0.0000019	<0.0000019	17.3	<0.0010	<0.0010	<0.00020	<0.00020	61	<0.0050	<0.0050	<0.0030	<0.010			
		Geometric Mean	0.00021	0.00019	0.0372	0.0271	10.3	0.0000050	0.0000050	0.000516	0.00052	0.108	0.0480	0.0002	0.0003	0.00000095	0.00000095	13.5	0.00050	0.00050	0.000100	0.000100	7.9	0.00250	0.00250	0.00210	0.0050			
		Count <DL	0	0	0	0	0	0	5	5	4	0	0	0	0	5	5	0	5	5	5	5	5	5	5	3	5			
		Standard Deviation	0.00002	0.00001	0.00032	0.0010	0.6	0.0000000	0.0000000	0.004056	0.00057	0.038	0.0116	0.0040	0.0040	0.00000000	0.00000000	1.0	0.00000	0.00000	0.000000	0.000000	25.1	0.00000	0.00000	0.00000	0.0000			
		1st Quartile	0.00020	0.00018	0.0369	0.0265	9.9	<0.000010	<0.000010	<0.00050	0.00035	0.098	0.0392	0.0002	0.0002	<0.0000019	<0.0000019	15.1	<0.0010	<0.0010	<0.00020	<0.00020	4.4	<0.0050	<0.0050	<0.0030	<0.010			
		Median	0.00021	0.00019	0.0382	0.0280	10	<0.000010	<0.000010	<0.00050	0.00036	0.108	0.0480	0.0003	0.0045	<0.0000019	<0.0000019	15.1	<0.0010	<0.0010	<0.00020	<0.00020	4.5	<0.0050	<0.0050	<0.0030	<0.010			
		3rd Quartile	0.00022	0.00019	0.0395	0.0277	10.5	<0.000010	<0.000010	<0.00050	0.00033	0.108	0.0526	0.0008	0.0054	<0.0000019	<0.0000019	15.4	<0.0010	<0.0010	<0.00020	<0.00020	6.2	<0.0050	<0.0050	<0.0030	<0.010			
NNO	No Name Lake Outlet	Average	0.00035	0.00033	0.0243	0.0179	14.3	0.0000050	0.0000050	0.000425	0.00042	0.106	0.0793	0.0070	0.0038	0.00000095	0.00000095	13.9	0.00050	0.00050	0.000100	0.000100	2.2	0.00250	0.00250	0.01986	0.0050	0.0100	0.0178	
E217017		Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	5	1	5	5	
		Minimum	0.00021	0.00019	0.0105	0.0079	10	<0.000010	<0.000010	<0.00050	0.00034	0.056	0.0346	0.0034	0.0019	<0.0000019	<0.0000019	13.5	<0.0010	<0.0010	<0.00020	<0.00020	1.4	<0.0050	<0.0050	<0.0030	<0.010	<0.020	<0.033	
		Maximum	0.00047	0.00047	0.0311	0.0231	17	<0.000010	0.000019	0.00203	0.00064	0.132	0.123	0.0138	0.0074	<0.0000019	<0.0000019	17.7	<0.0010	<0.0010	<0.00020	<0.00020	3.1	<0.0050	<0.0050	0.048	<0.010	<0.020	0.030	
		Geometric Mean	0.00034	0.00031	0.0235	0.0173	14.0	0.0000050	0.0000055	0.000327	0.00041	0.098	0.0724	0.0004	0.0036	0.00000095	0.00000095	13.8	0.00050	0.00050	0.000100	0.000100	2.2	0.00250	0.00250	0.00893	0.0050	0.0100	0.0146	
		Count <DL	0	0	0	0	0	15	14	12	0	0	0	0	0	15	15	0	15	15	0	15	15	0	15	15	1	1	5	2
		Standard Deviation	0.00009	0.00009	0.00054	0.00045	2.8	0.0000000	0.0000036	0.000471	0.00009	0.038	0.0116	0.0011	0.0014	0.00000000	0.00000000	1.6	0.00000	0.00000	0.000000	0.000000	0.5	0.00000	0.00000	0.02266	0.0000	0.0000	0.0130	
		1st Quartile	0.00026	0.00023	0.0225	0.0152	11	<0.000010	<0.000010	<0.00050	0.00036	0.099	0.0492	0.0046	0.0030	<0.0000019	<0.0000019	14.0	<0.0010	<0.0010	<0.00020	<0.00020	1.8	<0.0050	<0.0050	0.0040	<0.010	<0.020	<0.031	
		Median	0.00038	0.00036	0.0246	0.0200	16	<0.000010	<0.000010	<0.00050	0.00038	0.115	0.0805	0.0006	0.0033	<0.0000019	<0.0000019	16.7	<0.0010	<0.0010	<0.00020	<0.00020	2.2	<0.0050	<0.0050	0.0048	<0.010	<0.020	0.015	
		3rd Quartile	0.00040	0.00038	0.0274	0.0207	16.5	<0.000010	<0.000010	<0.00050	0.00046	0.140	0.1045	0.0002	0.0046	<0.0000019	<0.0000019	16.9	<0.0010	<0.0010	<0.00020	<0.00020	2.6	<0.0050	<0.0050	0.041	<0.010	<0.020	0.020	
LLS	Small Seep into Long Lake	Average	0.00364	0.00330	0.01796	0.00361	226	0.0000059	0.0000095	0.000546	0.000192	1.637	1.523	0.396	0.391	0.00000095	0.00000095	608	0.0032	0.0032	0.000100	0.000100	563	0.00378	0.00350					
E292131		Count	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10				
		Minimum	0.00122	0.00099	<0.0030	<0.0030	140	<0.000010	<0.000010	<0.00050	<0.00020	0.495	0.330	0.180	0.162	<0.0000019	<0.0000019	442	0.0019	0.0019	<0.00020	<0.0								

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 50 Stats 2017-2021 30 Page(s)

2020 -21 Statistics		Statistic																													
Stn.Code	Site Name & Description		As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hg-T	Hg-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3		
EMS. ID			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L		
MW002	Ex-situ 2-3 South shallow groundwater well beside 3-South Pit (1 Seam)	Average		0.00192		0.00412	280.0		0.0000138		0.000275		4.17		1.48		0.00000095		0.00255		0.000275	1300.0		0.0009			0.00280				
		Count		4		4	4		4		4		4		4		4		4		4	4		4			4				
		Minimum		0.00166		<0.0060	270		<0.000030		<0.00040		3.95		1.35		<0.0000019		0.0024		<0.00040	1300		<0.010			<0.0010				
		Maximum		0.00220		<0.013	290		<0.000050		<0.0010		4.32		1.57		<0.0000019		0.0029		<0.00010	1300		<0.025			0.0072				
		Geometric Mean		0.00191		0.00377	279.9		0.0000126		0.000251		4.17		1.47		0.00000095		0.00254		0.000251	1300.0		0.0063			0.00172				
		Count <DL		0		4	0		4		4		0		0		4		1		4	0		4			3				
		Standard Deviation		0.00024		0.00225	8.2		0.0000075		0.000150		0.16		0.09		0.00000000		0.00024		0.000150	0.0		0.0038			0.0030				
		1st Quartile		0.00176		<0.0060	277.5		<0.000030		<0.00040		4.12		1.44		<0.0000019		0.0024		<0.00040	1300		<0.010			0.00125				
		Median		0.00192		<0.0060	280		<0.000030		<0.00040		4.20		1.49		<0.0000019		0.00245		<0.00040	1300		<0.010			<0.0030				
		3rd Quartile		0.00209		0.00412	282.5		0.0000138		0.000275		4.26		1.52		<0.0000019		0.00260		0.000275	1300		0.0069			0.00305				
QU1009D	Ex-situ 4-South deep groundwater well. Down gradient of 4-South Mine. Base of Dunsmuir Member. Assesses vertical gradients & water quality down gradient of the 4-South Mine workings. Just outside of mine pool. (Below 3 Seam)	Average		0.104		0.00150	175.0		0.0000050		0.000100		0.594		0.0521		0.00000095		0.00050		0.000100	80.0		0.00250			0.0074				
		Count		2		2	2		2		2		2		2		2		2		2	2		2			2				
		Minimum		0.103		<0.0030	170		<0.000010		<0.00020		0.534		0.0485		<0.0000019		<0.0010		<0.00020	78		<0.0050			0.0054				
		Maximum		0.104		<0.0030	180		<0.00020		<0.00020		0.654		0.0597		<0.0000019		<0.0010		<0.00020	82		<0.0050			0.0095				
		Geometric Mean		0.103		0.00150	174.9		0.0000050		0.000100		0.591		0.0520		0.00000095		0.00050		0.000100	80.0		0.00250			0.0072				
		Count <DL		0		2	0		2		2		0		0		2		2		2	0		2			0				
		Standard Deviation		0.001		0.00000	7.1		0.0000000		0.000000		0.085		0.0051		0.00000000		0.00000		0.000000	2.8		0.00000			0.0029				
		1st Quartile		0.103		<0.0030	172.5		<0.000010		<0.00020		0.564		0.0503		<0.0000019		<0.0010		<0.00020	79.0		<0.0050			0.0064				
		Median		0.104		<0.0030	175.0		<0.000010		<0.00020		0.594		0.0521		<0.0000019		<0.0010		<0.00020	80.0		<0.0050			0.0074				
		3rd Quartile		0.104		<0.0030	177.5		<0.000010		<0.00020		0.624		0.0539		<0.0000019		<0.0010		<0.00020	81.0		<0.0050			0.0085				
QU1009S	Ex-situ 4-South shallow groundwater well. Fracture zone 10 m below till. Assesses vertical gradients & water quality down gradient of the 4-South Mine workings. Just outside of mine pool. (Below 3 Seam)	Average		0.0823		0.00250	150.0		0.0000010		0.000100		4.56		0.364		0.00000095		0.00050		0.000100	110.0		0.00250			0.00400				
		Count		2		2	2		2		2		2		2		2		2		2	2		2			2				
		Minimum		0.0821		<0.0030	140		<0.000010		<0.00020		4.34		0.360		<0.0000019		<0.0010		<0.00020	100		<0.0050			<0.0030				
		Maximum		0.0825		0.0035	160		<0.000010		<0.00020		4.59		0.367		<0.0000019		<0.0010		<0.00020	120		<0.0050			0.0065				
		Geometric Mean		0.0823		0.00229	149.7		0.0000010		0.000100		4.56		0.363		0.00000095		0.00050		0.000100	109.5		0.00250			0.00312				
		Count <DL		0		1	0		2		2		0		0		2		2		2	0		2			1				
		Standard Deviation		0.0003		0.00141	14.1		0.0000000		0.000000		0.04		0.005		0.00000000		0.00000		0.000000	14.1		0.00000			0.00154				
		1st Quartile		0.0822		0.00200	145.0		<0.000010		<0.00020		4.55		0.362		<0.0000019		<0.0010		<0.00020	105.0		<0.0050			0.00275				
		Median		0.0823		0.00250	150.0		<0.000010		<0.00020		4.56		0.364		<0.0000019		<0.0010		<0.00020	110.0		<0.0050			0.00400				
		3rd Quartile		0.0824		0.00300	155.0		<0.000010		<0.00020		4.58		0.365		<0.0000019		<0.0010		<0.00020	115.0		<0.0050			0.00525				
SPD																															
E218582	Settling Pond # 1	Average		0.00152		0.00064	0.01354	0.01279	96.4	0.0000009	0.0000050	0.000481	0.000276	0.224	0.1188	0.0608	0.0420	0.00000095	0.00000095	349	0.00061	0.00050	0.000100	0.000100	264	0.00250	0.00250	0.00207		0.0100	0.0183
		Count		7		14	7	14	13	7	14	7	14	7	14	7	14	7	13	7	7	14	7	14	50	7	14	3		3	3
		Minimum		0.00063		0.00028	<0.0030	<0.0030	44	<0.000030	<0.000010	<0.00050	<0.00020	0.152	0.0312	0.0272	0.0158	<0.0000019	<0.0000019	169	<0.0010	<0.0010	<0.00020	<0.00020	75	<0.0050	<0.0050	<0.0030		<0.020	<0.015
		Maximum		0.00040		0.00112	0.0454	0.0496	130	0.000011	<0.000010	0.000110	0.000095	0.394	0.1594	0.113	0.0854	<0.0000019	<0.0000019	462	0.0013	<0.0010	<0.00020	<0.00020	400	<0.0050	<0.0050	0.0012		<0.020	0.040
		Geometric Mean		0.00094		0.00058	0.00648	0.00513	92.3	0.0000006	0.0000050	0.000378	0.000212	0.217	0.1096	0.0545	0.0375	0.00000095	0.00000095	326	0.00057	0.00050	0.000100	0.000100	247	0.00250	0.00250	0.00193		0.0100	0.0131
		Count <DL		0		0	2	7	0	6	14	5	6	0	0	0	7	13	0	6	14	7	14	0	7	14	2		3	2	
		Standard Deviation		0.00216		0.00026	0.01676	0.01661	26.8	0.0000023	0.0000000	0.000396	0.000226	0.059	0.0421	0.0309	0.0205	0.00000000	0.00000000	124	0.00030	0.00000	0.000000	0.000000	85	0.00000	0.00000	0.00000		0.0000	0.0188
		1st Quartile		0.00062		0.00040	0.00245	<0.0030	86	<0.000030	<0.000010	<0.00050	<0.00020	0.175	0.1010	0.0390	0.0253	<0.0000019	<0.0000019	272	<0.0010	<0.0010	<0.00020	<0.00020	202	<0.0050	<0.0050	<0.0030		<0.020	<0.015
		Median		0.00075		0.00067	0.0046	0.00255	89	<0.000030	<0.000010	<0.00050	0.000240	0.224	0.1260	0.0546	0.0358	<0.0000019	<0.0000019	380	<0.0010	<0.0010	<0.00020	<0.00020	270	<0.0050	<0.0050	<0.0030		<0.020	<0.015
		3rd Quartile		0.00090		0.00082	0.01920	0.01865	120	<0.000030	<0.000010	0.000635	0.000358	0.270	0.1415	0.0764	0.05174	<0.0000019	<0.0000019	447	<0.0010	<0.0010	<0.00020	<0.00020	327	<0.0050	<0.0050	0.00235		<0.020	0.0238
		Average		0.00070		0.00066	0.0743	0.02518	60.3	0.0000000	0.0000050	0.000																			

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Table 50 Stats 2017-2021 30 Page(s)

2020 -21 Statistics Stn.Code EMS. ID	Site Name & Description	Statistic	As-T mg/L	As-D mg/L	Al-T mg/L	Al-D mg/L	Alk-T mg/L	Cd-T mg/L	Cd-D mg/L	Cu-T mg/L	Cu-D mg/L	Fe-T mg/L	Fe-D mg/L	Mn-T mg/L	Mn-D mg/L	Hg-T mg/L	Hg-D mg/L	Hard-T mg/L	Ni-T mg/L	Ni-D mg/L	Pb-T mg/L	Pb-D mg/L	SO4-D mg/L	Zn-T mg/L	Zn-D mg/L	P-T mg/L	P-D mg/L	N-NO23 mg/L	N-NH3 mg/L	
LUMB	Long Lake Middle 1 metre From Bottom	Average	0.00029	0.00020	0.0112	0.00649	51.6	0.0000062	0.0000050	0.000471	0.00034	0.102	0.0178	0.9445	0.8000	0.00000095	0.00000095	128.1	0.00050	0.00050	0.000100	0.000100	126.7	0.00250	0.00250	0.00165	0.0050	0.090	0.026	
E206619		Count	15	15	15	15	14	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	13	15	10	5	
		Minimum	0.00022	0.00017	0.0051	<0.0030	42	<0.00010	<0.00010	<0.00050	0.00025	0.055	0.0074	0.0230	0.0150	<0.0000019	<0.0000019	34.7	<0.0010	<0.0010	<0.00010	<0.00010	1.00	<0.0050	<0.0050	<0.0030	<0.010	0.066	0.033	
		Maximum	0.00037	0.00024	0.0309	0.0240	63	0.000033	<0.000010	0.00303	0.00094	0.180	0.0371	3.30	2.94	<0.0000019	<0.0000019	145	<0.0010	<0.0010	<0.00010	<0.00010	1.80	<0.0050	<0.0050	0.0035	<0.010	0.113	0.038	
		Geometric Mean	0.00029	0.00020	0.0095	0.00461	51.3	0.0000055	0.0000050	0.000319	0.00032	0.096	0.0161	0.4541	0.2792	0.00000095	0.00000095	123.0	0.00050	0.00050	0.000100	0.000100	126.5	0.00250	0.00250	0.00160	0.0050	0.089	0.024	
		Count <DL	0	0	0	4	0	14	15	13	0	0	0	0	0	0	15	15	0	15	15	15	15	0	15	15	12	15	0	0
		Standard Deviation	0.00004	0.00002	0.0073	0.00598	5.4	0.0000046	0.0000000	0.000721	0.00017	0.040	0.0087	1.0215	1.0098	0.00000000	0.00000000	26.7	0.00000	0.00000	0.000000	0.000000	7.2	0.00000	0.00000	0.00055	0.0000	0.016	0.011	
		1st Quartile	0.00017	0.00018	0.0060	0.00270	48.2	<0.00010	<0.00010	<0.00050	0.00027	0.076	0.0115	0.1815	0.0890	<0.0000019	<0.0000019	132.5	<0.0010	<0.0010	<0.00010	<0.00010	1.80	<0.0050	<0.0050	<0.0030	<0.010	0.076	0.017	
		Median	0.00018	0.00020	0.0081	0.0046	50.5	<0.00010	<0.00010	<0.00050	0.00029	0.086	0.0160	0.383	0.140	<0.0000019	<0.0000019	134	<0.0010	<0.0010	<0.00010	<0.00010	1.80	<0.0050	<0.0050	<0.0030	<0.010	0.094	0.024	
		3rd Quartile	0.00031	0.00020	0.0146	0.00920	53.8	<0.00010	<0.00010	<0.00050	0.00031	0.115	0.0212	1.9000	1.7200	<0.0000019	<0.0000019	139	<0.0010	<0.0010	<0.00010	<0.00010	1.80	<0.0050	<0.0050	<0.0030	<0.010	0.104	0.036	
ILO	Long Lake Outlet	Average	0.00045	0.00042	0.0148	0.00959	31.6	0.0000050	0.0000000	0.000311	0.00030	0.077	0.0401	0.0130	0.00493	0.00000095	0.00000101	73.2	0.000050	0.000050	0.000100	0.000100	99.8	0.00250	0.00250	0.01256	0.0050	0.0128	0.020	
E219412		Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	5	1	5	5	
		Minimum	0.00035	0.00030	0.0065	<0.0030	25	<0.00010	<0.00010	<0.00050	0.00026	0.022	0.0096	0.0033	<0.0010	<0.0000019	<0.0000019	53.2	<0.0010	<0.0010	<0.00010	<0.00010	39	<0.0050	<0.0050	<0.0030	<0.010	<0.015	<0.017	
		Maximum	0.00056	0.00054	0.0271	0.0187	40	<0.00010	<0.00010	0.00074	0.00036	0.125	0.0759	0.0158	0.0095	<0.0000019	0.0000019	97.9	<0.0010	<0.0010	<0.00010	<0.00010	80	<0.0050	<0.0050	0.027	<0.010	0.024	0.020	
		Geometric Mean	0.00045	0.00041	0.0157	0.00820	31.4	0.0000050	0.0000000	0.000287	0.00030	0.072	0.0410	0.0102	0.00349	0.00000095	0.00000009	72.4	0.000050	0.000050	0.000100	0.000100	58.7	0.00250	0.00250	0.00634	0.0050	0.0119	0.0091	
		Count <DL	0	0	0	1	0	15	15	13	0	0	0	0	1	15	14	0	15	15	15	15	15	15	15	15	2	1	4	4
		Standard Deviation	0.00007	0.00008	0.0063	0.00497	4.0	0.0000000	0.0000000	0.000162	0.00003	0.026	0.0171	0.0036	0.00111	0.00000000	0.00000005	11.4	0.00000	0.00000	0.000000	0.000000	12.2	0.00000	0.00000	0.01147	0.0000	0.0063	0.0056	
		1st Quartile	0.00038	0.00032	0.0126	0.00595	29	<0.00010	<0.00010	<0.00050	0.00028	0.063	0.0321	0.0088	0.00220	<0.0000019	<0.0000019	67.7	<0.0010	<0.0010	<0.00010	<0.00010	52.5	<0.0050	<0.0050	<0.0030	<0.010	<0.020	<0.015	
		Median	0.00047	0.00045	0.0148	0.0080	30	<0.00010	<0.00010	<0.00050	0.00030	0.078	0.0470	0.0125	0.0032	<0.0000019	<0.0000019	71.4	<0.0010	<0.0010	<0.00010	<0.00010	56	<0.0050	<0.0050	0.0078	<0.010	<0.020	<0.015	
		3rd Quartile	0.00050	0.00048	0.0211	0.01275	34.5	<0.00010	<0.00010	<0.00050	0.00032	0.088	0.0539	0.0140	0.00750	<0.0000019	<0.0000019	77.6	<0.0010	<0.0010	<0.00010	<0.00010	64.5	<0.0050	<0.0050	0.020	<0.010	<0.020	<0.015	
WB	Average	0.00018	0.00018	0.0152	0.0117	33.7	0.0000050	0.0000000	0.000531	0.00050	0.041	0.0270	0.0073	0.00000095	0.00000005	37.5	0.000050	0.000050	0.000100	0.000100	32.1	0.00250	0.00250	0.00870	0.0050	0.0100	0.0075			
E0900504	Middle Quinsam Lake Outlet	Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	5	3	5	5	
		Minimum	0.00010	0.00011	0.0096	0.0062	28	<0.00010	<0.00010	<0.00050	0.00040	0.024	0.0158	0.0036	0.0016	<0.0000019	<0.0000019	32.6	<0.0010	<0.0010	<0.00010	<0.00010	26	<0.0050	<0.0050	<0.0030	<0.010	<0.020	<0.015	
		Maximum	0.00033	0.00030	0.0221	0.0157	42	<0.00010	<0.00010	0.00116	0.00070	0.099	0.0563	0.0112	0.0078	<0.0000019	<0.0000019	47.0	<0.0010	<0.0010	<0.00010	<0.00010	43	<0.0050	<0.0050	0.027	<0.010	<0.020	<0.015	
		Geometric Mean	0.00017	0.00017	0.0149	0.0114	33.5	0.0000050	0.0000000	0.000471	0.00049	0.038	0.0255	0.0068	0.0035	0.00000095	0.00000005	37.2	0.000050	0.000050	0.000100	0.000100	31.7	0.00250	0.00250	0.00405	0.0050	0.0100	0.0075	
		Count <DL	0	0	0	0	0	15	15	5	0	0	0	0	0	15	15	0	15	15	15	15	15	15	15	15	3	1	5	5
		Standard Deviation	0.00006	0.00005	0.0033	0.0028	4.3	0.0000000	0.0000000	0.000266	0.00007	0.018	0.0102	0.0026	0.0015	0.00000000	0.00000000	5.0	0.00000	0.00000	0.000000	0.000000	5.4	0.00000	0.00000	0.01119	0.0000	0.0000	0.0000	
		1st Quartile	0.00013	0.00014	0.0134	0.0096	30	<0.00010	<0.00010	<0.00050	0.00046	0.028	0.0197	0.0051	0.0030	<0.0000019	<0.0000019	34.0	<0.0010	<0.0010	<0.00010	<0.00010	27	<0.0050	<0.0050	<0.0030	<0.010	<0.020	<0.015	
		Median	0.00017	0.00017	0.0158	0.0126	35	<0.00010	<0.00010	0.00053	0.00049	0.042	0.0266	0.0084	0.0034	<0.0000019	<0.0000019	35.												

Table 50 Stats 2017-2021 30 Page(s)

2020 -21 Statistics																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 50 Stats 2017-2021 30 Page(s)

2020-21 Statistics Stn.Code EMS. ID		Site Name & Description	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hg-T	Hg-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3	
QU11055		Ex-situ River Barrier Pillar (RBP) shallow groundwater well. Monitors water quality & gradients above the RBP & 2-North Mine. (Sandstone)	Average	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
			Count		4		4	4		4		4		4		4		4		4		4		4		4		4			
			Minimum		0.0489		<0.0030	84		<0.000010		<0.000020		0.472		0.0548		<0.0000019		<0.0010		<0.00020	44		<0.0050		0.0033				
			Maximum		0.115		0.0462	470		<0.000010		<0.000020		2.23		0.218		<0.0000019		<0.0010		<0.00020	530		<0.0050		0.013				
			Geometric Mean		0.0768		0.00353	209		0.000050		0.000100		1.127		0.1281		0.0000005		0.00050		0.000100	141		0.00250		0.0077				
			Count <DL		0		3	0		4		4		0		0		4		4		4	0		4		0				
			Standard Deviation		0.0280		0.02235	164		0.000000		0.000000		0.746		0.0790		0.0000000		0.00000		0.000000	208		0.00000		0.0043				
			1st Quartile		0.0648		<0.0030	156		<0.000010		<0.000020		0.883		0.0962		<0.0000019		<0.0010		<0.00020	86		<0.0050		0.0064				
			Median		0.0791		<0.0030	225		<0.000010		<0.000020		1.260		0.1175		<0.0000019		<0.0010		<0.00020	140		<0.0050		0.0092				
			3rd Quartile		0.0948		0.01267	320		<0.000010		<0.000020		1.682		0.2082		<0.0000019		<0.0010		<0.00020	262		<0.0050		0.0115				
QU11095		Ex-situ River Barrier Pillar (RBP) shallow groundwater well. Monitors water quality & gradients above the RBP & 2-North Mine. (Sandstone)	Average		0.1272		0.00200	443.3		0.0000007		0.000133		0.206		0.0233		0.0000005		0.00067		0.000133	166.7		0.00333		0.03950				
			Count		3		3	3		3		3		3		3		3		3		3	3		3		3				
			Minimum		0.0945		<0.0030	430		<0.000010		<0.000020		0.107		0.0199		<0.0000019		<0.0010		<0.00020	180		<0.0050		<0.0030				
			Maximum		0.147		<0.0060	460		<0.000030		<0.00040		0.263		0.0275		<0.0000019		<0.0030		<0.00040	180		<0.010		0.060				
			Geometric Mean		0.1248		0.00189	443.2		0.0000063		0.000136		0.191		0.0231		0.0000005		0.00063		0.000126	166.4		0.00315		0.01694				
			Count <DL		0		3	0		3		3		0		0		3		3		3	0		3		1				
			Standard Deviation		0.0285		0.00087	15.3		0.0000029		0.000058		0.086		0.0039		0.0000000		0.00029		0.000058	11.5		0.00144		0.0218				
			1st Quartile		0.1172		<0.0030	435.0		<0.000010		<0.000020		0.177		0.0212		<0.0000019		<0.0010		<0.00020	160		<0.0050		0.02775				
			Median		0.140		<0.0030	440		<0.000010		<0.000020		0.247		0.0235		<0.0000019		<0.0010		<0.00020	160		<0.0050		0.054				
			3rd Quartile		0.1435		0.00225	450.0		0.0000075		0.000150		0.255		0.0250		<0.0000019		<0.0000005		0.00075	0.000150	170.0		0.00375		0.05700			
75QR		7-South Quinsam River downstream of 7- South Mining Operation	Average	0.00047	0.00042	0.0262	0.0122	35.6	0.0000050	0.0000050	0.000503	0.00050	0.102	0.0580	0.0068	0.0049	0.00000095	0.0000005	36.9	0.00050	0.00050	0.000100	0.000100	30.9	0.00250	0.00250	0.00572	0.0050	0.0100	0.0090	
E292113			Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	5	1	5	5	
			Minimum	0.00033	0.00033	0.0155	0.0056	30	<0.000010	<0.000010	<0.00050	0.00042	0.068	0.0373	0.0044	0.0034	<0.0000019	<0.0000019	34.1	<0.0010	<0.0010	<0.00020	<0.00020	26	<0.0050	<0.0050	<0.0030	<0.010	<0.020	<0.015	
			Maximum	0.00060	0.00053	0.0782	0.0397	42	<0.000030	<0.000010	0.00089	0.00085	0.229	0.137	0.0096	0.0063	<0.0000019	<0.0000019	42.8	<0.0010	<0.0010	<0.00020	<0.00020	39	<0.0050	<0.0050	0.064	<0.010	<0.020	0.015	
			Geometric Mean	0.00046	0.00042	0.0242	0.0110	35.4	0.0000050	0.0000050	0.000476	0.00049	0.096	0.0547	0.0067	0.0048	0.00000095	0.0000005	36.9	0.00050	0.00050	0.000100	0.000100	30.6	0.00250	0.00250	0.00572	0.0050	0.0100	0.0086	
			Count <DL	0	0	0	0	0	15	15	3	0	0	0	0	0	15	15	0	15	15	15	15	0	15	15	1	1	5	4	
			Standard Deviation	0.00007	0.00006	0.0147	0.0079	3.5	0.0000000	0.0000000	0.000162	0.00012	0.040	0.0245	0.0015	0.0039	0.00000000	0.0000000	2.5	0.00000	0.00000	0.000000	0.000000	4.7	0.00000	0.00000	0.02713	0.0000	0.0000	0.0004	
			1st Quartile	0.00043	0.00036	0.0218	0.0092	32.5	<0.000030	<0.000010	0.00090	0.00044	0.074	0.0442	0.0055	0.0042	<0.0000019	<0.0000019	35.0	<0.0010	<0.0010	<0.00020	<0.00020	26.5	<0.0050	<0.0050	0.0034	<0.010	<0.020	<0.013	
			Median	0.00047	0.00042	0.0227	0.0099	36	<0.000030	<0.000010	0.00052	0.00045	0.097	0.0524	0.0073	0.0051	<0.0000019	<0.0000019	36.2	<0.0010	<0.0010	<0.00020	<0.00020	29	<0.0050	<0.0050	0.0039	<0.010	<0.020	<0.015	
			3rd Quartile	0.00048	0.00046	0.0248	0.0121	38	<0.000030	<0.000010	0.000535	0.00040	0.108	0.0614	0.0079	0.0054	<0.0000019	<0.0000019	38.8	<0.0010	<0.0010	<0.00020	<0.00020	35.0	<0.0050	<0.0050	0.0048	<0.010	<0.020	<0.015	
LQL1		Lower Quinsam Lake 1 metre below surface	Average	0.00035	0.00032	0.0271	0.0225	28.0	0.0000050	0.0000050	0.00121	0.00081	0.057	0.0438	0.0037	0.0027	0.00000095	0.0000005	31.4	0.00050	0.00084	0.000100	0.000100	16.6	0.00250	0.00250	0.00150	0.0050			
E292118			Count	5	5	5	5	5	2	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	2	5		
			Minimum	0.00052	0.00049	0.0235	0.0179	28	<0.000030	<0.000010	0.00054	0.00053	0.036	0.0340	0.0019	0.0018	<0.0000019	<0.0000019	29.9	<0.0010	<0.0010	<0.00020	<0.00020	15	<0.0050	<0.0050	<0.0030	<0.010			
			Maximum	0.00057	0.00055	0.0300	0.0278	28	<0.000030	<0.000010	0.00295	0.00176	0.072	0.0568	0.0048	0.0039	<0.0000019	<0.0000019	32.2	<0.0010	0.0027	<0.00020	<0.00020	19	<0.0050	<0.0050	<0.0030	<0.010			
			Geometric Mean	0.00035	0.00032	0.0270	0.0223	28.0	0.0000050	0.0000050	0.00094	0.00071	0.055	0.0420	0.0036	0.0026	0.00000095	0.0000005	31.4	0.00050	0.00070	0.000100	0.000100	16.5	0.00250	0.00250	0.00150	0.0050			
			Count <DL	0	0	0	0	0	0	5	5	0	0	0	0	0	5	5	0	5	4	5	5	0	5	5	5	2	5		
			Standard Deviation	0.00002	0.00002	0.0031	0.0036	0.0	0.0000000	0.0000000	0.00104	0.00053	0.013	0.0091	0.0011	0.0009	0.00000000	0.0000000	0.9	0.00000	0.00088	0.000000	0.000000	1.5	0.00000	0.00000	0.00000	0.0000			
			1st Quartile	0.00033	0.00032	0.0242	0.0207	28	<0.000030	<0.000010	0.00056	0.00055	0.053	0.0360	0.0039	0.0020	<0.0000019	<0.0000019	31.3	<0.0010	<0.0010	<0.00020	<0.00020	16	<0.0050	<0.0050	<0.0030	<0.010			
			Median	0.00035	0.00033	0.0278	0.0228	28	<0.000030	<0.000010	0.00058	0.00058	0.060	0.0411	0.0039	0.0025	<0.0000019	<0.000001													

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 50 Stats 2017-2021 30 Page(s)

2021 -22 Statistics Stn.Code EMS. ID		Site Name & Description	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hg-T	Hg-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3
WA			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
E0126402		Quinsam River at Argonaut Road Upstream of Mining Operation.	Average	0.000118	0.000062	0.0328	0.0220	20.5	0.000050	0.000050	0.00063	0.00056	0.028	0.0130	0.00196	0.00061	0.00000109	0.0000116	20.5	0.00086	0.00050	0.000100	0.000100	3.37	0.00250	0.00250	0.00252	0.00150	0.0100	0.0213
			Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	4	10	10
			Minimum	<0.00010	<0.00010	0.0157	0.0132	12	<0.000010	<0.000010	0.00053	0.00048	0.011	0.0060	<0.0010	<0.0010	<0.000019	<0.000019	14.5	<0.0010	<0.0010	<0.0020	<0.00020	<1.0	<0.0050	<0.0050	<0.0030	<0.0030	<0.010	<0.015
			Maximum	0.00025	0.00017	0.115	0.0934	24	<0.000010	<0.000010	0.00100	0.00096	0.066	0.0395	0.0031	0.0014	0.0000030	0.0000041	23.2	0.0059	<0.0010	<0.0020	<0.00020	21	<0.0050	<0.0050	0.0071	<0.0030	<0.020	0.092
			Geometric Mean	0.000102	0.000071	0.0282	0.0186	20.7	0.000050	0.000050	0.00062	0.00055	0.025	0.0114	0.00183	0.00057	0.00000033	0.00000105	20.4	0.00059	0.00050	0.000100	0.000100	1.96	0.00250	0.00250	0.00202	0.00150	0.0100	0.0119
			Count <DL	5	10	0	0	0	15	15	0	0	0	0	1	13	14	14	0	14	15	15	15	2	15	15	15	4	10	8
			Standard Deviation	0.000065	0.000049	0.0246	0.0201	3.1	0.0000000	0.0000000	0.00011	0.00012	0.015	0.0084	0.00065	0.00030	0.00000053	0.00000081	2.0	0.00139	0.00000	0.000000	0.000000	5.24	0.00000	0.00000	0.00216	0.00000	0.0000	0.0300
			1st Quartile	5.00E-05	5.00E-05	0.0217	0.0143	21	5.00E-06	5.00E-06	0.00057	0.0005	0.019	0.0082	0.0017	0.0005	9.50E-07	9.50E-07	20.2	0.0005	0.0005	0.0001	0.0001	1.5	0.0025	0.0025	0.0015	0.0015	0.01	0.0075
			Median	0.00011	<0.00010	0.0233	0.0162	22	<0.000010	<0.000010	0.00056	0.00052	0.024	0.0117	0.0019	<0.0010	<0.000019	<0.000019	20.6	<0.0010	<0.0010	<0.00020	<0.00020	1.8	<0.0050	<0.0050	0.0015	0.0015	0.01	0.0075
			3rd Quartile	0.00013	0.00012	0.0351	0.0181	23	5.00E-06	5.00E-06	0.00061	0.00054	0.033	0.0132	0.0023	0.0005	9.50E-07	9.50E-07	21.4	0.0005	0.0005	0.0001	0.0001	1.95	0.0025	0.0025	0.0015	0.0015	0.01	0.0075
WD		Average	0.00153	0.00082	0.0577	0.0402	466	0.0000091	0.0000082	0.00119	0.000301	1.471	0.0119	0.395	0.349	0.00000095	0.00000095	539	0.00457	0.00132	0.000172	0.000150	706	0.01393	0.00935				0.14	
E207409		Count	18	22	18	22	23	18	22	18	22	18	22	18	22	18	22	18	22	18	22	18	22	52	18	22				1
		Minimum	0.00089	0.00036	<0.0060	<0.0030	390	<0.000010	<0.000010	<0.0010	<0.0020	0.187	<0.010	0.110	0.105	<0.000019	<0.000019	375	<0.0020	<0.0010	<0.0020	<0.00020	340	<0.0050	<0.0050				0.14	
		Maximum	0.00189	0.00144	0.0271	0.0180	530	0.000013	0.000020	0.0018	0.00095	2.13	0.0322	0.595	0.591	<0.000019	<0.000019	647	0.0587	0.0039	<0.0040	<0.0040	1000	0.066	0.033				0.14	
		Geometric Mean	0.00110	0.00077	0.00445	0.00308	465	0.0000087	0.0000075	0.00112	0.00043	1.254	0.0106	0.353	0.304	0.00000095	0.00000095	532	0.00155	0.00114	0.000165	0.000141	679	0.00826	0.00628				0.14	
		Count <DL	0	0	10	36	0	17	21	2	13	0	4	0	0	18	22	0	11	13	18	22	0	10	14				0	
		Standard Deviation	0.00031	0.00028	0.00602	0.00406	31	0.0000023	0.0000036	0.00038	0.000230	0.623	0.0062	0.163	0.169	0.00000000	0.00000000	84	0.01353	0.00082	0.000046	0.000051	195	0.01704	0.00931				0.00	
		1st Quartile	0.00129	0.00059	0.03	0.00187	440	1.00E-05	5.00E-06	0.00104	0.0002	0.986	0.0082	0.239	0.205	9.50E-07	9.50E-07	510	0.001	0.001	0.000125	0.0001	560	0.005	0.0025				0.14	
		Median	0.0016	0.00079	0.03	0.003	470	1.00E-05	1.00E-05	0.0012	0.0002	1.865	0.011	0.454	0.339	9.50E-07	9.50E-07	564	0.001	0.001	0.0002	0.00015	620	0.005	0.005				0.14	
		3rd Quartile	0.00174	0.00098	0.0360	0.0353	490	1.00E-05	1.00E-05	0.00135	0.000322	1.95	0.0148	0.52	0.509	9.50E-07	9.50E-07	592	0.00137	0.0012	0.0002	0.0002	912	0.016	0.0105				0.14	
MW001D		Average	0.00291	0.00291		0.00315	335.0		0.00046		0.000400		3.08		1.79		0.00000095			0.0025		0.000100	450						0.0082	
		Count	2	2		2	2		2		2		2		2		2		2		2		2		2					
		Minimum	0.00280		<0.0030	330		0.00040		<0.00020		2.55		1.61		<0.000019		0.0023			<0.00020	280		<0.0050		0.0064				
		Maximum	0.00301		0.0048	340		0.00052		0.00070		1.96		1.62		<0.000019		0.0027			<0.00020	620		<0.0050		0.010				
		Geometric Mean	0.00250		0.00268	335.0		0.00046		0.000265		3.03		1.78		0.00000095		0.0025			0.000100	416		0.00250		0.0080				
		Count <DL	0		1	0			1		0		0		2		0			2	0		2		2					
		Standard Deviation	0.00015		0.00233	7.1		0.00008		0.000424		0.74		0.25		0.00000000		0.0003			0.000000	240		0.00000		0.0025				
		1st Quartile	0.00285		0.00232	332.5		4.30E-05		0.00025		2.81		1.7		9.50E-07		0.0024		0.0001		365		0.0025		0.0073				
		Median	0.00291		0.00315	335		4.60E-05		0.0004		3.08		1.79		9.50E-07		0.0025		0.0001		450		0.0025		0.0082				
		3rd Quartile	0.00296		0.00397	337.5		4.90E-05		0.00055		3.34		1.87		9.50E-07		0.0026		0.0001		535		0.0025		0.0095				
MW001S		Average	0.00163		0.00150	290.0		0.000057		0.000100		0.964		1.49		0.00000095		0.00085			0.000100	445		0.00250		0.00150				
		Count	2	2		2	2		2		2		2		2		2		2		2		2		2					
		Minimum	0.00100		<0.0030	280		0.000041																						

Table 50 Stats 2017-2021 30 Page(s)

2021 -22 Statistics																																
Stn.Code																																
EMS. ID	Site Name & Description	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hg-T	Hg-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3			
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L		
E217018	No Name Lake 1 metre below surface	Average	0.00022	0.00020	0.0006	0.0249	11.4	0.0000050	0.0000050	0.000250	0.00034	0.061	0.0413	0.0039	0.0031	0.00000126	0.00000095	12.8	0.00050	0.00050	0.000100	0.000100	1.9	0.00250	0.00250	0.00284	0.0050	0.0100				
		Count	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5			
		Minimum	0.00020	0.00017	0.00257	0.0219	30	<0.000010	<0.000010	0.00030	0.050	0.0361	0.0033	0.0022	<0.0000019	<0.0000019	12.1	<0.0010	<0.0010	<0.00020	<0.00020	1.6	<0.0050	<0.0050	<0.0030	<0.010	<0.020					
		Maximum	0.00023	0.00021	0.00070	0.0291	12	<0.000010	<0.000010	0.00037	0.072	0.0505	0.0044	0.0040	0.00000025	<0.0000019	13.4	<0.0010	<0.0010	<0.00020	<0.00020	2.5	<0.0050	<0.0050	0.0049	<0.010	<0.020					
		Geometric Mean	0.00022	0.00020	0.0003	0.0248	11.4	0.0000050	0.0000050	0.000250	0.00034	0.060	0.0410	0.0039	0.0030	0.00000115	0.00000095	12.8	0.00050	0.00050	0.000100	0.000100	1.9	0.00250	0.00250	0.00240	0.0050	0.0100				
		Count <DL	0	0	0	0	0	5	5	5	0	0	0	0	0	0	4	5	0	5	5	5	5	0	5	5	3	5	5			
		Standard Deviation	0.00001	0.00002	0.00052	0.0008	0.9	0.0000000	0.0000000	0.000000	0.00003	0.008	0.0058	0.0004	0.0008	0.00000060	0.00000000	0.6	0.00000	0.00000	0.000000	0.000000	0.4	0.00000	0.00000	0.00184	0.0000	0.0000				
		1st Quartile	0.00021	0.0002	0.00034	0.023	11	<0.000010	<0.000010	0.00030	0.057	0.0376	0.0037	0.0027	<0.0000019	<0.0000019	12.2	<0.0010	<0.0010	<0.00020	<0.00020	1.6	<0.0050	<0.0050	<0.0030	<0.010	<0.020					
		Median	0.00022	0.0002	0.00076	0.025	12	<0.000010	<0.000010	0.00035	0.062	0.0388	0.0039	0.0027	<0.0000019	<0.0000019	13.2	<0.0010	<0.0010	<0.00020	<0.00020	1.8	<0.0050	<0.0050	<0.0030	<0.010	<0.020					
		3rd Quartile	0.00022	0.00021	0.00055	0.0254	12	<0.000010	<0.000010	0.00030	0.063	0.0434	0.0043	0.0041	<0.0000019	<0.0000019	13.2	<0.0010	<0.0010	<0.00020	<0.00020	2	<0.0050	<0.0050	0.0048	<0.010	<0.020					
NNL8	No Name Lake 1 metre from bottom	Average	0.00023	0.00018	0.0003	0.0292	9.9	0.0000050	0.0000050	0.000250	0.00034	0.114	0.0530	0.0066	0.0031	0.000000120	0.000000095	13.7	0.00050	0.00050	0.000100	0.000100	3.3	0.00250	0.00250	0.00230	0.0050	0.0100	0.020	0.020		
E217018		Count	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5			
		Minimum	0.00021	0.00016	0.00048	0.0253	9.1	<0.000010	<0.000010	0.00028	0.091	0.0450	0.0052	0.0021	<0.0000019	<0.0000019	13.3	<0.0010	<0.0010	<0.00020	<0.00020	2.6	<0.0050	<0.0050	<0.0030	<0.010	<0.020	0.025				
		Maximum	0.00028	0.00021	0.0008	0.0317	11	<0.000010	<0.000010	0.00029	0.0937	0.182	0.0789	0.0092	0.0045	0.00000022	<0.0000019	14.4	<0.0010	<0.0010	<0.00020	<0.00020	3.8	<0.0050	<0.0050	0.0040	<0.010	<0.020	0.034			
		Geometric Mean	0.00023	0.00018	0.0003	0.0291	9.9	0.0000050	0.0000050	0.000250	0.00034	0.110	0.0518	0.0065	0.0030	0.00000012	0.000000095	13.7	0.00050	0.00050	0.000100	0.000100	3.2	0.00250	0.00250	0.00210	0.0050	0.0100	0.020	0.020		
		Count <DL	0	0	0	0	0	5	5	5	0	0	0	0	0	0	4	5	0	5	5	5	5	0	5	5	3	5	5	0		
		Standard Deviation	0.00003	0.00002	0.00023	0.0006	0.7	0.0000000	0.0000000	0.000000	0.00003	0.038	0.0142	0.0016	0.0009	0.000000056	0.000000000	0.5	0.00000	0.00000	0.000000	0.000000	0.5	0.00000	0.00000	0.00115	0.0000	0.0004				
		1st Quartile	0.00021	0.00017	0.00082	0.0283	9.4	<0.000010	<0.000010	0.00024	0.094	0.0462	0.0058	0.0025	<0.0000019	<0.0000019	13.3	<0.0010	<0.0010	<0.00020	<0.00020	2.9	<0.0050	<0.0050	<0.0030	<0.010	<0.020	0.026				
		Median	0.00022	0.00018	0.00084	0.0291	10	<0.000010	<0.000010	0.00025	0.096	0.0465	0.0061	0.0021	<0.0000019	<0.0000019	13.5	<0.0010	<0.0010	<0.00020	<0.00020	3.4	<0.0050	<0.0050	<0.0030	<0.010	<0.020	0.027				
		3rd Quartile	0.00023	0.0002	0.00089	0.0316	10	<0.000010	<0.000010	0.00025	0.107	0.049	0.0069	0.0032	<0.0000019	<0.0000019	13.9	<0.0010	<0.0010	<0.00020	<0.00020	3.6	<0.0050	<0.0050	0.003	<0.010	<0.020	0.033				
NNO	No Name Lake Outlet	Average	0.00030	0.00028	0.00041	0.0222	14.8	0.0000050	0.0000050	0.000374	0.00041	0.086	0.0531	0.0273	0.0241	0.000000005	0.000000095	15.5	0.00050	0.00050	0.000100	0.000100	2.6	0.00250	0.00250	0.00290	0.0050	0.0100	0.036	0.0084		
E217017		Count	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	8	2	8	8			
		Minimum	0.00020	0.00018	0.00024	0.0072	10	<0.000010	<0.000010	0.00020	0.00032	0.045	0.0272	0.0033	0.0020	<0.0000019	<0.0000019	11.9	<0.0010	<0.0010	<0.00020	<0.00020	1.2	<0.0050	<0.0050	<0.0030	<0.010	<0.020	<0.015			
		Maximum	0.00048	0.00040	0.00067	0.0530	26	<0.000010	<0.000010	0.00068	0.00067	0.118	0.0890	0.158	0.143	0.00000001	<0.0000019	24.8	<0.0010	<0.0010	<0.00020	<0.00020	3.5	<0.0050	<0.0050	0.0069	<0.010	<0.020	0.130	0.016		
		Geometric Mean	0.00029	0.00027	0.00048	0.0183	14.2	0.0000050	0.0000050	0.000343	0.00040	0.079	0.0496	0.0094	0.0063	0.000000002	0.000000095	15.1	0.00050	0.00050	0.000100	0.000100	2.5	0.00250	0.00250	0.00235	0.0050	0.0100	0.034	0.0082		
		Count <DL	0	0	0	0	0	13	13	8	0	0	0	0	0	0	12	13	0	13	13	13	13	0	13	13	5	2	4	7		
		Standard Deviation	0.00010	0.00007	0.00008	0.00048	4.8	0.0000000	0.0000000	0.000168	0.00011	0.038	0.0205	0.0085	0.0043	0.000000017	0.000000000	4.1	0.00000	0.00000	0.000000	0.000000	0.7	0.00000	0.00000	0.00218	0.00000	0.0040	0.0027			
		1st Quartile	0.00022	0.00021	0.00015	0.0101	12	<0.000010	<0.000010	0.00033	0.00015	0.0092	0.0045	0.0045	0.0025	<0.0000019	<0.0000019	12.8	<0.0010	<0.0010	<0.00020	<0.00020	2.2	<0.0050	<0.0050	0.00015	0.00015	0.01	0.0075			
		Median	0.00028	0.00028	0.00059	0.0001	12	<0.000010	<0.000010	0.00038	0.00016	0.0062	0.0062	0.0047	0.0032	<0.0000019	<0.0000019	13.7	<0.0010	<0.0010	<0.00020	<0.00020	2.7	<0.0050	<0.0050	0.00015	0.00015	0.010	0.0075			
		3rd Quartile	0.00034	0.0003	0.00024	0.0002	15	<0.000010	<0.000010	0.00052	0.00044	0.1	0.0746	0.0075	0.0051	<0.0000019	<0.0000019	16.1	<0.0010	<0.0010	<0.00020	<0.00020	3.3	<0.0050	<0.0050	0.00018	0.00015	0.0005	0.0075			
LLS	Small Seep Into Long Lake	Average	0.00038	0.00034	0.00036	0.00190	229	0.0000008	0.0000008																							

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 50 Stats 2017-2021 30 Page(s)

2021 -22 Statistics		Statistic																												
Stn.Code	Site Name & Description		As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hg-T	Hg-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3	
EMS. ID			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
MW002	Ex-situ 2-3 South shallow groundwater well beside 3-South Pit (1 Seam)	Average	0.00219	0.00218	0.003	0.003	285	1.00E-05	1.00E-05	0.0005	0.0002	4.35	4.59	1.42	1.5		9.50E-07	1410	0.0022	0.0023	0.0002	0.0002	1350	0.005	0.005			0.00282		
		Count	1	4	1.00000	4.00000	4.0	1.000000	4.000000	1.00000	4.000000	1	4	1	4.00		4	1.0	1	4	1.000000	4.000000	4	1.0000	4.0000			4		
		Minimum	0.00219	0.00198	<0.0060	<0.0060	280	<0.000020	<0.000030	<0.0010	<0.00040	4.35	4.19	1.42	1.4		<0.0000019	1410	0.0022	0.0021	<0.00040	<0.00040	1300	<0.010	<0.010			<0.0030		
		Maximum	0.00219	0.00236	<0.0060	<0.0060	300	<0.000020	<0.000030	<0.0010	<0.00040	4.35	4.93	1.42	1.57		<0.0000019	1410	0.0022	0.0023	<0.00040	<0.00040	1400	<0.010	<0.010			0.0068		
		Geometric Mean	0.00219	0.00218	0.003	0.003	284.9	0.00001	0.00001	0.0005	0.0002	4.35	4.58	1.42	1.5		0.00000095	1410	0.0022	0.0023	0.0002	0.0002	1349	0.005	0.005			0.00219		
		Count <DL	0	0	1.00000	4.00000	0	1.000000	4.000000	1.00000	4.000000	0	0	0	0.00		4	0.0	0	0	1.000000	4.000000	0	1.0000	4.0000			3		
		Standard Deviation	0	0.00017	0	0	10	0	0	0	0	0	0	0	0.07		0	0	0	0	0.0002	0	0	57	0	0			0.00265	
		1st Quartile	0.00219	0.00209	<0.0060	0.00200	280.0	<0.000020	0.0000100	<0.0010	0.0000200	4.35	4.48	1.42	1.48		0.00000095	1410.0	0.0022	0.0022	<0.00040	0.0000200	1300	<0.010	0.0050			0.0015		
		Median	0.00219	0.0022	<0.0060	0.003	280	<0.000020	1.00E-05	<0.0010	0.0002	4.35	4.61	1.42	1.52		9.50E-07	1410	0.0022	0.0023	<0.00040	0.0002	1350	<0.010	0.005			0.0015		
		3rd Quartile	0.00219	0.0023	<0.0060	0.003	285	<0.000020	1.00E-05	<0.0010	0.0002	4.35	4.72	1.42	1.54		9.50E-07	1410	0.0022	0.0024	<0.00040	0.0002	1400	<0.010	0.005			0.00282		
QU1009D	Ex-situ 4-South deep groundwater well. Down gradient of 4-South Mine. Base of Dunsuir Member. Assesses vertical gradients & water quality down gradient of the 4-South Mine workings. Just outside of mine pool. (Below 3 Seam)	Average		0.1017		0.0015	180		5.00E-06		0.0001		0.717		0.0602		9.50E-07		0.0005		0.0001		78.7		0.0025			0.014		
		Count		3		3.000000	3.0		3.000000		3.000000		3		3		3.000000				3.000000		3		3.000000			3		
		Minimum		0.0912		<0.0030	180		<0.000010		<0.00020		0.597		0.054		<0.0000019				<0.0010		73		<0.0050			0.012		
		Maximum		0.11		<0.0030	180		<0.000010		<0.00020		0.875		0.0719		<0.0000019				<0.0010		88		<0.0050			0.016		
		Geometric Mean		0.101		0.0015	180		0.000005		0.0001		0.708		0.0597		0.00000095		0.0005		0.0001		78.4		0.0025			0.014		
		Count <DL		0		3.000000	0.0		3.000000		3.000000		0		0		3				3.000000		0		3.000000			0		
		Standard Deviation		0.096		0	0		0		0		0.143		0.0101		0				0		8.1		0			0.002		
		1st Quartile		0.0976		0.00150	180.0		0.0000050		0.000100		0.658		0.0543		0.00000095		0.00050		0.000100		74		0.00250			0.013		
		Median		0.104		<0.0030	180		<0.000010		<0.00020		0.679		0.0547		<0.0000019				<0.0010		75		<0.0050			0.013		
		3rd Quartile		0.107		0.0015	180		0.000005		0.0001		0.777		0.0633		0.00000095		0.0005		0.0001		81.5		0.0025			0.014		
QU1009S	Ex-situ 4-South shallow groundwater well. Fracture zone 10 m below till. Assesses vertical gradients & water quality down gradient of the 4-South Mine workings. Just outside of mine pool. (Below 3 Seam)	Average		0.0873		0.0015	150		5.00E-06		0.0001		4.85		0.372		9.50E-07		0.0005		0.0001		111.3		0.0025			0.006		
		Count		3		3.000000	3.0		3.000000		3.000000		3		3		3.000000				3.000000		3		3.000000			3		
		Minimum		0.0832		<0.0030	140		<0.000010		<0.00020		4.56		0.359		<0.0000019				<0.0010		94		<0.0050			0.0077		
		Maximum		0.0941		<0.0030	160		<0.000010		<0.00020		5.22		0.381		<0.0000019				<0.0010		120		<0.0050			0.011		
		Geometric Mean		0.0872		0.0015	149.8		0.000005		0.0001		4.84		0.372		0.00000095		0.0005		0.0001		110.6		0.0025			0.006		
		Count <DL		0		3.000000	0		3.000000		3.000000		0		0		3				3.000000		0		3.000000			0		
		Standard Deviation		0.0059		0	10		0		0		0.34		0.012		0				0		15		0			0.0017		
		1st Quartile		0.0839		0.00150	140.0		0.0000050		0.000100		4.66		0.367		0.00000095		0.00050		0.000100		107.0		0.00250			0.0089		
		Median		0.0847		<0.0030	150		<0.000010		<0.00020		4.77		0.376		<0.0000019				<0.0010		120		<0.0050			0.01		
		3rd Quartile		0.0894		0.0015	155		0.000005		0.0001		4.99		0.379		0.00000095		0.0005		0.0001		120		0.0025			0.0105		
SPD																														
E218582	Settling Pond # 1	Average	0.00106	0.00093	0.01976	0.01304	90.8	0.0000084	0.0000061	0.000479	0.000265	0.398	0.2313	0.0730	0.0606	0.00000095	0.00000095	334.1	0.00058	0.00050	0.000100	0.000100	271.2	0.00866	0.01012		0.0039	0.0100	0.0075	
		Count	9	14	9	14	13	9	14	9	14	9	14	9	14	8	13	9	14	9	14	9	14	45	9	14	1	1	1	1
		Minimum	0.00017	0.00020	<0.0030	<0.0030	26	<0.000010	<0.000010	<0.00050	<0.00020	0.106	0.0241	0.0209	0.0050	<0.0000019	<0.0000019	23.0	<0.0010	<0.0010	<0.00020	<0.00020	26	<0.0050	<0.0050		0.0039	<0.020	<0.015	
		Maximum	0.00175	0.00172	0.0526	0.0021	110	0.000021	0.000020	0.00082	0.00054	1.44	1.19	0.322	0.386	<0.0000019	<0.0000019	460	0.0012	<0.0010	<0.00020	<0.00020	460	0.0204	0.0633		0.0039	<0.020	<0.015	
		Geometric Mean	0.00092	0.00081	0.01041	0.0073	85.0	0.0000068	0.0000055	0.000426	0.000242	0.253	0.1486	0.0452	0.039	0.00000095	0.00000095	248.8	0.00055	0.00050	0.000100	0.000100	218.1	0.00616	0.00565		0.0039	0.0100	0.0075	
		Count <DL	0	0	2	6	0	7	13	4	2	0	0	0	0	8	13	0	8	14	9	14	0	4	7		0	1	1	1
		Standard Deviation	0.00042	0.00047	0.01845	0.01511	27.5	0.0000068	0.0000040	0.000334	0.000113	0.452	0.2948	0.1002	0.0977	0.00000000	0.00000000	168.9	0.00023	0.00000	0.000000	0.000000	147.2	0.00707	0.01589		0.0000	0.0000	0.0000	
		1st Quartile	0.00102	0.00066	0.0031	0.0015	82	<0.000010	5.00E-06	<0.0000	0.00032	0.135	0.0895	0.0208	0.0149	9.50E-07	<0.0000019	213	<0.0010	0.0005	<0.00020	0.0001	130	<0.0050	0.0025		0.0039	<0.020	<0.015	

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 50 Stats 2017-2021 30 Page(s)

2021-22 Statistics																															
Stn.Code	Site Name & Description	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hg-T	Hg-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3		
EMS. ID			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
LLMB	Long Lake Middle 1 metre From Bottom	Average	0.00028	0.00022	0.0143	0.0094	46.7	0.000050	0.000050	0.000250	0.00030	0.056	0.0173	0.640	0.5345	0.00000102	0.00000095	109.9	0.00071	0.00050	0.000100	0.000100	103.1	0.00250	0.00250	0.00192	0.00208	0.084			
E206619		Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	12	15			
		Minimum	0.00023	0.00017	0.0063	0.0037	41	<0.000010	<0.000010	<0.00050	0.00023	0.020	0.0058	0.123	0.0740	<0.0000019	<0.0000019	76.0	<0.0010	<0.0010	<0.00020	<0.00020	73	<0.0050	<0.0050	<0.0030	<0.0030	0.047			
		Maximum	0.00034	0.00026	0.0341	0.0243	55	<0.000010	<0.000010	<0.00050	0.00041	0.080	0.0362	1.57	1.70	0.00000020	<0.0000019	118	0.0037	<0.0010	<0.00020	<0.00020	120	<0.0050	<0.0050	0.0049	<0.010	0.193			
		Geometric Mean	0.00028	0.00022	0.0126	0.0082	46.5	0.000050	0.000050	0.000250	0.00029	0.053	0.0149	0.430	0.3082	0.00000100	0.00000095	109.4	0.00057	0.00050	0.000100	0.000100	102.5	0.00250	0.00250	0.00174	0.00183	0.079			
		Count <DL	0	0	0	0	0	15	15	15	0	0	0	0	0	14	15	0	14	15	15	15	15	15	15	15	13	12	0		
		Standard Deviation	0.00003	0.00003	0.0078	0.0053	4.2	0.0000000	0.0000000	0.00000	0.00004	0.019	0.0092	0.590	0.5602	0.00000027	0.00000000	5.9	0.00063	0.00000	0.000000	0.000000	10.7	0.00000	0.00000	0.00111	0.00136	0.036			
		1st Quartile	0.00025	0.0002	0.0083	0.0055	43.5	5.00E-06	5.00E-06	0.00025	0.00028	0.042	0.0101	0.17	0.0964	9.50E-07	9.50E-07	109	0.0005	0.0005	0.0001	0.0001	100	0.00025	0.00025	0.0015	0.0015	0.061			
		Median	0.00028	0.00022	0.0111	0.0081	46	<0.000010	<0.000010	<0.00050	0.00029	0.066	0.0144	0.487	0.292	<0.0000019	<0.0000019	112	<0.0010	<0.0010	<0.00020	<0.00020	100	<0.0050	<0.0050	<0.0030	0.0015	0.08			
		3rd Quartile	0.0003	0.00034	0.0193	0.0121	49	5.00E-06	5.00E-06	0.00025	0.0003	0.072	0.0253	0.77	0.7385	9.50E-07	9.50E-07	114	0.0005	0.0005	0.0001	0.0001	110	0.00025	0.00025	0.0015	0.0015	0.097			
LLO	Long Lake Outlet	Average	0.00038	0.00033	0.0224	0.01219	33.5	0.000050	0.000050	0.000382	0.00034	0.065	0.02297	0.0179	0.0087	0.00000095	0.00000095	72.1	0.00056	0.00053	0.000100	0.000100	60.6	0.00250	0.00250	0.00165	0.00150	0.1182	0.0388		
E219412		Count	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	10	4	10	10		
		Minimum	0.00028	0.00022	0.0066	<0.0030	21	<0.000010	<0.000010	<0.00050	0.00021	0.016	<0.00010	0.0029	0.0013	<0.0000019	<0.0000019	44.0	<0.0010	<0.0010	<0.00020	<0.00020	36	<0.0050	<0.0050	<0.0030	<0.0030	<0.020	<0.015		
		Maximum	0.00051	0.00050	0.0673	0.0331	46	<0.000010	<0.000010	0.00073	0.00069	0.154	0.0650	0.0658	0.0294	<0.0000019	<0.0000019	102	0.0014	0.0010	<0.00020	<0.00020	87	<0.0050	<0.0050	0.0030	<0.0030	0.329	0.18		
		Geometric Mean	0.00037	0.00033	0.0168	0.00806	32.7	0.000050	0.000050	0.000269	0.00033	0.043	0.01360	0.0131	0.0062	0.00000095	0.00000095	69.9	0.00054	0.00052	0.000100	0.000100	58.6	0.00250	0.00250	0.00161	0.00150	0.0458	0.0159		
		Count <DL	0	0	0	1	0	15	15	14	0	0	3	0	0	15	15	0	14	14	15	15	0	15	15	9	4	5	7		
		Standard Deviation	0.00008	0.00007	0.0183	0.01145	7.5	0.0000000	0.0000000	0.000124	0.00013	0.039	0.02031	0.0166	0.0074	0.00000000	0.00000000	18.5	0.00023	0.00013	0.000000	0.000000	15.8	0.00000	0.00000	0.00047	0.00000	0.1294	0.0564		
		1st Quartile	0.0003	0.00028	0.0086	0.004	26.5	5.00E-06	5.00E-06	0.00025	0.00026	0.021	0.0065	0.0096	0.0046	9.50E-07	9.50E-07	55.6	0.0005	0.0005	0.0001	0.0001	47	0.00025	0.00025	0.0015	0.0015	0.02	0.0075		
		Median	0.00035	0.00032	0.0197	0.0048	35	<0.000010	<0.000010	<0.00050	0.00029	0.056	0.0095	0.0106	0.0067	<0.0000019	<0.0000019	75.8	<0.0010	<0.0010	<0.00020	<0.00020	65	<0.0050	<0.0050	0.0015	0.0015	0.0595	0.0075		
		3rd Quartile	0.00046	0.00037	0.0263	0.01805	37	5.00E-06	5.00E-06	0.00025	0.00036	0.069	0.0378	0.0197	0.0112	9.50E-07	9.50E-07	81.5	0.0005	0.0005	0.0001	0.0001	70	0.00025	0.00025	0.0015	0.0015	0.218	0.0439		
WB	Middle Quinsam Lake Outlet	Average	0.00017	0.000156	0.0174	0.0117	40.0	0.0000092	0.0000068	0.000404	0.00049	0.040	0.02040	0.0087	0.0043	0.00000095	0.00000095	43.2	0.00062	0.00050	0.000100	0.000100	45.4	0.00270	0.00250	0.00150	0.00150	0.0111	0.0249		
E0900504		Count	20	20	20	20	20	20	20	20	20	20	20	20	20	16	16	20	20	20	20	20	20	20	20	11	5	12	11		
		Minimum	0.00010	<0.00010	0.0082	0.0058	29	<0.000010	<0.000010	<0.00050	0.00032	0.029	0.0178	0.0042	0.0014	<0.0000019	<0.0000019	34.4	<0.0010	<0.0010	<0.00020	<0.00020	29	<0.0050	<0.0050	<0.0030	<0.0030	<0.020	<0.015		
		Maximum	0.00026	0.00027	0.0221	0.0223	50	0.000088	0.000041	0.00061	0.00082	0.065	0.0492	0.0170	0.0096	<0.0000019	<0.0000019	63.7	0.0028	<0.0010	<0.00020	<0.00020	60	0.0065	<0.0050	<0.0030	<0.0030	0.023	0.14		
		Geometric Mean	0.00016	0.000148	0.0164	0.0129	39.6	0.0000058	0.0000056	0.000377	0.00048	0.039	0.0235	0.0081	0.0040	0.00000095	0.00000095	42.8	0.00054	0.00050	0.000100	0.000100	44.4	0.00242	0.00250	0.00150	0.00150	0.0107	0.0131		
		Count <DL	0	1	0	0	0	19	9	9	0	0	0	0	0	0	0	16	16	0	19	20	20	0	19	20	11	5	11	8	
		Standard Deviation	0.00005	0.000048	0.0062	0.0043	6.2	0.0000186	0.0000080	0.000145	0.00011	0.010	0.0057	0.0034	0.0018	0.00000000	0.00000000	6.2	0.00051	0.00000	0.000000	0.000000	9.6	0.00089	0.00000	0.00000	0.00000	0.0038	0.0400		
		1st Quartile	0.00012	0.00012	0.0142	0.0121	35.8	5																							

Table 50 Stats 2017-2021 30 Page(s)

2021 -22 Statistics Stn.Code																														
EMS. ID	Site Name & Description	Statistic	As-T	As-D	Al-T	Al-D	Alk-T	Cd-T	Cd-D	Cu-T	Cu-D	Fe-T	Fe-D	Mn-T	Mn-D	Hg-T	Hg-D	Hard-T	Ni-T	Ni-D	Pb-T	Pb-D	SO4-D	Zn-T	Zn-D	P-T	P-D	N-NO23	N-NH3	
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
QU0821GD	Ex-situ 2-North groundwater well down gradient of u/g tailings disposal, measures water quality & hydraulic gradients downstream of Forjan Fault (No. 4 Seam)	Average		0.165		0.0075	206.7		0.000025		0.0005		0.843		0.0727		0.00000095			0.0025		0.0005	1.33		0.0125		0.026			
		Count		3		3	3		3		3		3		3		2			3		3	3		3		3			
		Minimum		0.142		<0.015	200		<0.000050		<0.0010		0.615		0.0481		<0.0000019			<0.0050		<0.0010	<1.0		<0.025		0.024			
		Maximum		0.186		<0.015	210		<0.000050		<0.0010		1.03		0.0998		<0.0000019			<0.0050		<0.0010	3		<0.025		0.027			
		Geometric Mean		0.164		0.0075	206.6		0.000025		0.0005		0.824		0.0696		0.00000095			0.0025		0.0005	0.91		0.0125		0.026			
		Count <DL		0		3	0		3		3		0		0		2			3		3	2		3		0			
		Standard Deviation		0.022		0	5.8		0		0		0.211		0.0259		0			0		0	1.44		0		0.002			
		1st Quartile		0.154		0.0075	205		0.000025		0.0005		0.75		0.0591		0.00000095			0.0025		0.0005	0.5		0.0125		0.026			
		Median		0.167		<0.015	210		<0.000050		<0.0010		0.884		0.0701		0.00000095			<0.0050		<0.0010	<1.0		<0.025		0.027			
		3rd Quartile		0.176		0.0075	210		0.000025		0.0005		0.957		0.0849		0.00000095			0.0025		0.0005	1.75		0.0125		0.027			
QU0821GS	Ex-situ 2-North groundwater well down gradient of u/g tailings disposal, measures water quality & hydraulic gradients downstream of Forjan Fault (No. 1 Seam)	Average		0.168		0.004	200		0.0000133		0.000383		0.912		0.0521		0.00000095			0.00133		0.000267	1.1		0.00667		0.0253			
		Count		3		3	3		3		3		3		3		2			3		3	3		3		3			
		Minimum		0.111		<0.0030	190		<0.000010		<0.00020		0.284		0.0384		<0.0000019			<0.0010		<0.00020	<1.0		<0.0050		0.0088			
		Maximum		0.211		<0.015	210		<0.000050		0.0005		0.345		0.0603		<0.0000019			<0.0050		<0.0010	2.3		<0.025		0.038			
		Geometric Mean		0.162		0.00323	199.8		0.0000008		0.000302		0.311		0.0511		0.00000095			0.00108		0.000215	0.83		0.00539		0.0213			
		Count <DL		0		3	0		3		0		0		0		2			3		3	2		3		0			
		Standard Deviation		0.052		0.00312	10		0.0000004		0.000247		0.031		0.0119		0			0.00104		0.000008	1.04		0.0052		0.015			
		1st Quartile		0.147		0.00225	195		0.00000075		0.0003		0.295		0.0479		0.00000095			0.00075		0.00015	0.5		0.00375		0.0189			
		Median		0.183		<0.0060	200		<0.000010		<0.0010		0.306		0.0573		0.00000095			<0.0020		<0.00040	<1.0		<0.010		0.029			
		3rd Quartile		0.197		0.00525	205		0.0000175		0.000525		0.326		0.0589		0.00000095			0.00175		0.00035	1.4		0.00875		0.0335			
QU1010D		Average		0.0116		0.0069	89		0.0000183		0.000367		6.67		0.447		0.00000095			0.00183		0.000367	1.1		0.0101		0.044		0.76	
		Count		3		3	3		3		3		3		3		2			3		3	3		3		3		1	
		Minimum		0.0115		0.0058	85		<0.000010		<0.00020		5.74		0.381		<0.0000019			<0.0010		<0.00020	<1.0		0.0052		0.039		0.76	
		Maximum		0.0117		<0.015	91		<0.000050		<0.0010		7.7		0.513		<0.0000019			<0.0050		<0.0010	2.3		<0.025		0.05		0.76	
		Geometric Mean		0.0116		0.0069	89		0.0000146		0.000292		6.62		0.444		0.00000095			0.00146		0.000292	0.83		0.0093		0.044		0.76	
		Count <DL		0		2	0		3		3		0		0		0			3		3	2		2		0		0	
		Standard Deviation		0.0001		0.001	3.5		0.0000115		0.000231		0.98		0.065		0			0.00115		0.000231	1.04		0.0042		0.006		0	
		1st Quartile		0.0115		0.0066	88		0.000015		0.0003		6.15		0.414		0.00000095			0.0015		0.0003	0.5		0.0089		0.041		0.76	
		Median		0.0116		<0.015	91		<0.000050		<0.0010		6.56		0.447		0.00000095			<0.0050		<0.0010	<1.0		<0.025		0.043		0.76	
		3rd Quartile		0.0117		0.0075	91		0.000025		0.0005		7.13		0.48		0.00000095			0.0025		0.0005	1.4		0.0125		0.045		0.76	
QU1010S	Ex-situ 2-North shallow groundwater well. Down gradient of u/g tailings disposal, measures water quality & hydraulic head downstream of 2-North workings (No. 1 Seam / Sandstone).	Average		0.1042		0.0294	263		0.0000083		0.000167		0.329		0.1959		0.00000095			0.00083		0.000167	14.7		0.00417		0.0252		0.26	
		Count		3		3	3		3		3		3		3		3			3		3	3		3		3		1	
		Minimum		0.0957		0.0057	210		<0.000010		<0.00020		0.308		0.0748		<0.0000019			<0.0010		<0.00020	7.1		<0.0050		0.0097		0.26	
		Maximum		0.112		0.0645	310		<0.000030		<0.00040		0.496		0.182		<0.0000019			<0.0020		<0.00040	29		<0.010		0.034		0.26	
		Geometric Mean		0.104		0.0187	260		0.00000079		0.000159		0.308		0.1272		0.00000095			0.00079		0.000159	11.8		0.00397		0.0219		0.26	
		Count <DL		0		0	0		3		3		0		0		2			3		3	0		3		0		0	
		Standard Deviation		0.0082		0.031	50		0.0000029		0.000056		0.149		0.0552		0			0.00029		0.000056	12.4		0.00144		0.0135		0	
		1st Quartile		0.1003		0.0118	240		0.00000075		0.00015		0.246		0.1129		0.00000095			0.00075		0.00015	7.5		0.00375		0.0209		0.26	
		Median		0.105		0.0179	270		<0.000030		<0.00040		0.284		0.151		0.00000095			<0.0020		<0.00040	7.9		<0.010		0.032		0.26	
		3rd Quartile		0.1085		0.0412	290		0.00001		0.0002		0.39		0.1665		0.00000095			0.001		0.0002	18.5		0.005		0.033		0.26	
QU1011D	Ex-situ 2-North deep groundwater well. Measures water quality & hydraulic gradient in Forjan Fault (Fractured sandstone).	Average		0.0364		0.00915	340		0.00000075		0.00011		1.7		0.191		0.00000095			0.00075		0.00015	1		0.00375		0.051			
		Count		2		2	2		2		2		2		2		2			2		2	2		2		2			
		Minimum		0.0271		<0.0060	340		<0.000010		<0.00020		1.19		0.148		<0.0000019			<0.0010		<0.00020	<1.0		<0.0050		0.048			
		Maximum		0.0458		0.0153	340		<0.000030		<0.00040																			

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 50 Stats 2017-2021 30 Page(s)

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Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
242MW	2022-03-03	Acidity45	mg/L	1	1	<1.0	<1.0	0.0	1.00
242MW	2022-03-03	Acidity83	mg/L	1	1	9.1	13.0	35.3	0.70
242MW	2022-03-03	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
242MW	2022-03-03	Al-D	mg/L	0.003	0.003	0.181	0.178	1.7	1.02
242MW	2022-03-03	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
242MW	2022-03-03	Alk-T	mg/L	1	1	11	12	8.7	0.92
242MW	2022-03-03	As-D	mg/L	0.0001	0.0001	0.00291	0.00291	0.0	1.00
242MW	2022-03-03	Ba-D	mg/L	0.001	0.001	0.0296	0.0286	3.4	1.03
242MW	2022-03-03	B-D	mg/L	0.05	0.05	0.069	0.071	2.9	0.97
242MW	2022-03-03	Be-D	mg/L	0.0001	0.0001	0.00011	0.00012	8.7	0.92
242MW	2022-03-03	Bicarb	mg/L	1	1	14	15	6.9	0.93
242MW	2022-03-03	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
242MW	2022-03-03	Br-D	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
242MW	2022-03-03	Ca-D	mg/L	0.05	0.05	31.3	31.0	1.0	1.01
242MW	2022-03-03	Carb	mg/L	1	1	<1.0	<1.0	0.0	1.00
242MW	2022-03-03	Cd-D	mg/L	0.00001	0.00001	0.000025	0.000023	8.3	1.09
242MW	2022-03-03	Cl-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
242MW	2022-03-03	Co-D	mg/L	0.0002	0.0002	0.00135	0.00135	0.0	1.00
242MW	2022-03-03	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
242MW	2022-03-03	Cu-D	mg/L	0.0002	0.0002	0.00143	0.00147	2.8	0.97
242MW	2022-03-03	DOC	mg/L	0.5	0.5	0.52	0.50	3.9	1.04
242MW	2022-03-03	F-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
242MW	2022-03-03	Fe-D	mg/L	0.005	0.005	1.78	1.79	0.6	0.99
242MW	2022-03-03	H2S	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
242MW	2022-03-03	Hard-D	mg/L	0.5	0.5	85.7	84.9	0.9	1.01
242MW	2022-03-03	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
242MW	2022-03-03	Hydrox	mg/L	1	1	<1.0	<1.0	0.0	1.00
242MW	2022-03-03	K-D	mg/L	0.05	0.05	0.421	0.422	0.2	1.00
242MW	2022-03-03	Mg-D	mg/L	0.05	0.05	1.83	1.82	0.5	1.01
242MW	2022-03-03	Mn-D	mg/L	0.001	0.001	0.121	0.122	0.8	0.99
242MW	2022-03-03	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
242MW	2022-03-03	Na-D	mg/L	0.05	0.05	1.32	1.35	2.2	0.98
242MW	2022-03-03	N-D	mg/L	0.02	0.02	0.082	0.086	4.8	0.95
242MW	2022-03-03	Ni-D	mg/L	0.001	0.001	0.0034	0.0034	0.0	1.00
242MW	2022-03-03	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
242MW	2022-03-03	P-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
242MW	2022-03-03	S2-T	mg/L	0.0018	0.0018	<0.0018	<0.0018	0.0	1.00
242MW	2022-03-03	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
242MW	2022-03-03	S-D	mg/L	3	3	25.4	25.4	0.0	1.00
242MW	2022-03-03	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
242MW	2022-03-03	Si-D	mg/L	0.1	0.1	4.36	4.27	2.1	1.02
242MW	2022-03-03	SO4-D	mg/L	1	1	78	77	1.3	1.01
242MW	2022-03-03	Sr-D	mg/L	0.001	0.001	0.0377	0.0376	0.3	1.00
242MW	2022-03-03	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
242MW	2022-03-03	Tl-D	mg/L	0.00001	0.00001	0.000408	0.000388	5.0	1.05
242MW	2022-03-03	Turb	NTU	0.1	0.1	1.3	1.4	7.4	0.93
242MW	2022-03-03	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
242MW	2022-03-03	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
242MW	2022-03-03	Zn-D	mg/L	0.005	0.005	0.0101	0.0098	3.0	1.03
242MW	2022-03-03	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
2S	2022-03-01	Acidity45	mg/L	1	1	<1.0	<1.0	0.0	1.00
2S	2022-03-01	Acidity83	mg/L	1	1	<1.0	<1.0	0.0	1.00
2S	2022-03-01	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
2S	2022-03-01	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
2S	2022-03-01	Al-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
2S	2022-03-01	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
2S	2022-03-01	Alk-T	mg/L	1	1	12	14	15.4	0.86
2S	2022-03-01	Al-T	mg/L	0.003	0.003	0.0080	0.0158	65.5	0.51
2S	2022-03-01	As-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
2S	2022-03-01	As-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
2S	2022-03-01	Ba-D	mg/L	0.001	0.001	0.0013	0.0013	0.0	1.00
2S	2022-03-01	Ba-T	mg/L	0.001	0.001	0.0014	0.0015	6.9	0.93
2S	2022-03-01	B-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
2S	2022-03-01	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
2S	2022-03-01	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
2S	2022-03-01	Bicarb	mg/L	1	1	15	17	12.5	0.88
2S	2022-03-01	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00

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Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
2S	2022-03-01	Bi-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
2S	2022-03-01	B-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
2S	2022-03-01	Ca-D	mg/L	0.05	0.05	9.40	9.27	1.4	1.01
2S	2022-03-01	Carb	mg/L	1	1	<1.0	<1.0	0.0	1.00
2S	2022-03-01	Ca-T	mg/L	0.05	0.05	10.0	9.48	5.3	1.05
2S	2022-03-01	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
2S	2022-03-01	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
2S	2022-03-01	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
2S	2022-03-01	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
2S	2022-03-01	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
2S	2022-03-01	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
2S	2022-03-01	Cu-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
2S	2022-03-01	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
2S	2022-03-01	DOC	mg/L	0.5	0.5	<0.50	<0.50	0.0	1.00
2S	2022-03-01	Fe-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
2S	2022-03-01	Fe-T	mg/L	0.01	0.01	0.011	0.023	70.6	0.48
2S	2022-03-01	Hard-D	mg/L	0.5	0.5	26.9	26.7	0.7	1.01
2S	2022-03-01	Hard-T	mg/L	0.5	0.5	28.8	27.2	5.7	1.06
2S	2022-03-01	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
2S	2022-03-01	Hg-T	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
2S	2022-03-01	Hydrox	mg/L	1	1	<1.0	<1.0	0.0	1.00
2S	2022-03-01	K-D	mg/L	0.05	0.05	0.136	0.132	3.0	1.03
2S	2022-03-01	K-T	mg/L	0.05	0.05	0.143	0.134	6.5	1.07
2S	2022-03-01	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
2S	2022-03-01	Mg-D	mg/L	0.05	0.05	0.835	0.854	2.2	0.98
2S	2022-03-01	Mg-T	mg/L	0.05	0.05	0.911	0.868	4.8	1.05
2S	2022-03-01	Mn-D	mg/L	0.001	0.001	0.0049	0.0048	2.1	1.02
2S	2022-03-01	Mn-T	mg/L	0.001	0.001	0.0053	0.0051	3.8	1.04
2S	2022-03-01	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
2S	2022-03-01	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
2S	2022-03-01	Na-D	mg/L	0.05	0.05	4.07	4.18	2.7	0.97
2S	2022-03-01	Na-T	mg/L	0.05	0.05	4.36	4.13	5.4	1.06
2S	2022-03-01	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
2S	2022-03-01	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
2S	2022-03-01	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
2S	2022-03-01	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
2S	2022-03-01	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
2S	2022-03-01	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
2S	2022-03-01	S-D	mg/L	3	3	6.8	7.0	2.9	0.97
2S	2022-03-01	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
2S	2022-03-01	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
2S	2022-03-01	Si-D	mg/L	0.1	0.1	0.39	0.38	2.6	1.03
2S	2022-03-01	Si-T	mg/L	0.1	0.1	0.43	0.41	4.8	1.05
2S	2022-03-01	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
2S	2022-03-01	SO4-D	mg/L	1	1	24	23	4.3	1.04
2S	2022-03-01	Sr-D	mg/L	0.001	0.001	0.0613	0.0617	0.7	0.99
2S	2022-03-01	Sr-T	mg/L	0.001	0.001	0.0643	0.0607	5.8	1.06
2S	2022-03-01	S-T	mg/L	3	3	7.7	7.4	4.0	1.04
2S	2022-03-01	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
2S	2022-03-01	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
2S	2022-03-01	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
2S	2022-03-01	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
2S	2022-03-01	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
2S	2022-03-01	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
2S	2022-03-01	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
2S	2022-03-01	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
2S	2022-03-01	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
2S	2022-03-01	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
2S	2022-03-01	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
2S	2022-03-01	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
2SC	2021-07-05	Acidity45	mg/L	1	1	<1.0	<1.0	0.0	1.00
2SC	2021-07-05	Acidity83	mg/L	1	1	3.5	3.6	2.8	0.97
2SC	2021-07-05	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
2SC	2021-07-05	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
2SC	2021-07-05	Al-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
2SC	2021-07-05	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
2SC	2021-07-05	Alk-T	mg/L	1	1	220	220	0.0	1.00

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
2SC	2021-07-05	Al-T	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
2SC	2021-07-05	As-D	mg/L	0.0001	0.0001	0.00034	0.00032	6.1	1.06
2SC	2021-07-05	As-T	mg/L	0.0001	0.0001	0.00040	0.00040	0.0	1.00
2SC	2021-07-05	Ba-D	mg/L	0.001	0.001	0.0150	0.0147	2.0	1.02
2SC	2021-07-05	Ba-T	mg/L	0.001	0.001	0.0152	0.0150	1.3	1.01
2SC	2021-07-05	B-D	mg/L	0.05	0.05	0.346	0.344	0.6	1.01
2SC	2021-07-05	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
2SC	2021-07-05	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
2SC	2021-07-05	Bicarb	mg/L	1	1	270	270	0.0	1.00
2SC	2021-07-05	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
2SC	2021-07-05	Bi-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
2SC	2021-07-05	B-T	mg/L	0.05	0.05	0.363	0.367	1.1	0.99
2SC	2021-07-05	Ca-D	mg/L	0.05	0.05	225	221	1.8	1.02
2SC	2021-07-05	Carb	mg/L	1	1	<1.0	<1.0	0.0	1.00
2SC	2021-07-05	Ca-T	mg/L	0.05	0.05	238	232	2.6	1.03
2SC	2021-07-05	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
2SC	2021-07-05	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
2SC	2021-07-05	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
2SC	2021-07-05	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
2SC	2021-07-05	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
2SC	2021-07-05	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
2SC	2021-07-05	Cu-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
2SC	2021-07-05	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
2SC	2021-07-05	Fe-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
2SC	2021-07-05	Fe-T	mg/L	0.01	0.01	0.023	0.014	48.6	1.64
2SC	2021-07-05	Hard-D	mg/L	0.5	0.5	671	662	1.4	1.01
2SC	2021-07-05	Hard-T	mg/L	0.5	0.5	712	697	2.1	1.02
2SC	2021-07-05	Hydrox	mg/L	1	1	<1.0	<1.0	0.0	1.00
2SC	2021-07-05	K-D	mg/L	0.05	0.05	2.38	2.34	1.7	1.02
2SC	2021-07-05	K-T	mg/L	0.05	0.05	2.39	2.41	0.8	0.99
2SC	2021-07-05	Li-T	mg/L	0.002	0.002	0.0098	0.0098	0.0	1.00
2SC	2021-07-05	Mg-D	mg/L	0.05	0.05	26.6	26.7	0.4	1.00
2SC	2021-07-05	Mg-T	mg/L	0.05	0.05	28.4	28.5	0.4	1.00
2SC	2021-07-05	Mn-D	mg/L	0.001	0.001	0.0023	0.0023	0.0	1.00
2SC	2021-07-05	Mn-T	mg/L	0.001	0.001	0.0047	0.0025	61.1	1.88
2SC	2021-07-05	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
2SC	2021-07-05	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
2SC	2021-07-05	Na-D	mg/L	0.05	0.05	46.5	46.3	0.4	1.00
2SC	2021-07-05	Na-T	mg/L	0.05	0.05	49.6	48.9	1.4	1.01
2SC	2021-07-05	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
2SC	2021-07-05	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
2SC	2021-07-05	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
2SC	2021-07-05	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
2SC	2021-07-05	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
2SC	2021-07-05	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
2SC	2021-07-05	S-D	mg/L	3	3	199	197	1.0	1.01
2SC	2021-07-05	Se-D	mg/L	0.0001	0.0001	0.00017	0.00014	19.4	1.21
2SC	2021-07-05	Se-T	mg/L	0.0001	0.0001	0.00013	0.00012	8.0	1.08
2SC	2021-07-05	Si-D	mg/L	0.1	0.1	2.65	2.64	0.4	1.00
2SC	2021-07-05	Si-T	mg/L	0.1	0.1	2.70	2.63	2.6	1.03
2SC	2021-07-05	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
2SC	2021-07-05	SO4-D	mg/L	10	10	550	540	1.8	1.02
2SC	2021-07-05	Sr-D	mg/L	0.001	0.001	1.48	1.50	1.3	0.99
2SC	2021-07-05	Sr-T	mg/L	0.001	0.001	1.41	1.40	0.7	1.01
2SC	2021-07-05	S-T	mg/L	3	3	199	199	0.0	1.00
2SC	2021-07-05	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
2SC	2021-07-05	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
2SC	2021-07-05	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
2SC	2021-07-05	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
2SC	2021-07-05	U-D	mg/L	0.0001	0.0001	0.00019	0.00019	0.0	1.00
2SC	2021-07-05	U-T	mg/L	0.0001	0.0001	0.00020	0.00020	0.0	1.00
2SC	2021-07-05	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
2SC	2021-07-05	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
2SC	2021-07-05	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
2SC	2021-07-05	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
2SC	2021-07-05	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
2SC	2021-07-05	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00

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Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
2SC	2021-10-04	Acidity45	mg/L	1	1	<1.0	<1.0	0.0	1.00
2SC	2021-10-04	Acidity83	mg/L	1	1	1.8	<1.0	113.0	3.60
2SC	2021-10-04	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
2SC	2021-10-04	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
2SC	2021-10-04	Al-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
2SC	2021-10-04	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
2SC	2021-10-04	Alk-T	mg/L	1	1	220	220	0.0	1.00
2SC	2021-10-04	Al-T	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
2SC	2021-10-04	As-D	mg/L	0.0001	0.0001	0.00042	0.00040	4.9	1.05
2SC	2021-10-04	As-T	mg/L	0.0001	0.0001	0.00041	0.00042	2.4	0.98
2SC	2021-10-04	Ba-D	mg/L	0.001	0.001	0.0149	0.0146	2.0	1.02
2SC	2021-10-04	Ba-T	mg/L	0.001	0.001	0.0154	0.0158	2.6	0.97
2SC	2021-10-04	B-D	mg/L	0.05	0.05	0.371	0.370	0.3	1.00
2SC	2021-10-04	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
2SC	2021-10-04	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
2SC	2021-10-04	Bicarb	mg/L	1	1	270	270	0.0	1.00
2SC	2021-10-04	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
2SC	2021-10-04	Bi-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
2SC	2021-10-04	B-T	mg/L	0.05	0.05	0.361	0.357	1.1	1.01
2SC	2021-10-04	Ca-D	mg/L	0.05	0.05	229	228	0.4	1.00
2SC	2021-10-04	Carb	mg/L	1	1	<1.0	<1.0	0.0	1.00
2SC	2021-10-04	Ca-T	mg/L	0.05	0.05	244	248	1.6	0.98
2SC	2021-10-04	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
2SC	2021-10-04	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
2SC	2021-10-04	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
2SC	2021-10-04	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
2SC	2021-10-04	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
2SC	2021-10-04	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
2SC	2021-10-04	Cu-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
2SC	2021-10-04	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
2SC	2021-10-04	Fe-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
2SC	2021-10-04	Fe-T	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
2SC	2021-10-04	Hard-D	mg/L	0.5	0.5	681	674	1.0	1.01
2SC	2021-10-04	Hard-T	mg/L	0.5	0.5	719	728	1.2	0.99
2SC	2021-10-04	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
2SC	2021-10-04	Hg-T	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
2SC	2021-10-04	Hydrox	mg/L	1	1	<1.0	<1.0	0.0	1.00
2SC	2021-10-04	K-D	mg/L	0.05	0.05	2.57	2.43	5.6	1.06
2SC	2021-10-04	K-T	mg/L	0.05	0.05	2.67	2.63	1.5	1.02
2SC	2021-10-04	Li-T	mg/L	0.002	0.002	0.0109	0.0112	2.7	0.97
2SC	2021-10-04	Mg-D	mg/L	0.05	0.05	26.5	25.6	3.5	1.04
2SC	2021-10-04	Mg-T	mg/L	0.05	0.05	26.8	26.3	1.9	1.02
2SC	2021-10-04	Mn-D	mg/L	0.001	0.001	0.0135	0.0127	6.1	1.06
2SC	2021-10-04	Mn-T	mg/L	0.001	0.001	0.0140	0.0139	0.7	1.01
2SC	2021-10-04	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
2SC	2021-10-04	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
2SC	2021-10-04	Na-D	mg/L	0.05	0.05	55.0	52.0	5.6	1.06
2SC	2021-10-04	Na-T	mg/L	0.05	0.05	58.0	56.2	3.2	1.03
2SC	2021-10-04	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
2SC	2021-10-04	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
2SC	2021-10-04	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
2SC	2021-10-04	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
2SC	2021-10-04	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
2SC	2021-10-04	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
2SC	2021-10-04	S-D	mg/L	3	3	204	193	5.5	1.06
2SC	2021-10-04	Se-D	mg/L	0.0001	0.0001	0.00013	0.00013	0.0	1.00
2SC	2021-10-04	Se-T	mg/L	0.0001	0.0001	0.00012	0.00014	15.4	0.86
2SC	2021-10-04	Si-D	mg/L	0.1	0.1	2.96	2.95	0.3	1.00
2SC	2021-10-04	Si-T	mg/L	0.1	0.1	2.95	2.94	0.3	1.00
2SC	2021-10-04	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
2SC	2021-10-04	SO4-D	mg/L	10	10	590	560	5.2	1.05
2SC	2021-10-04	Sr-D	mg/L	0.001	0.001	1.43	1.41	1.4	1.01
2SC	2021-10-04	Sr-T	mg/L	0.001	0.001	1.52	1.54	1.3	0.99
2SC	2021-10-04	S-T	mg/L	3	3	206	205	0.5	1.00
2SC	2021-10-04	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
2SC	2021-10-04	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
2SC	2021-10-04	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00

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Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
2SC	2021-10-04	TI-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
2SC	2021-10-04	U-D	mg/L	0.0001	0.0001	0.00021	0.00020	4.9	1.05
2SC	2021-10-04	U-T	mg/L	0.0001	0.0001	0.00021	0.00021	0.0	1.00
2SC	2021-10-04	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
2SC	2021-10-04	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
2SC	2021-10-04	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
2SC	2021-10-04	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
2SC	2021-10-04	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
2SC	2021-10-04	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
2SC	2021-12-07	Acidity45	mg/L	1	1	<1.0	<1.0	0.0	1.00
2SC	2021-12-07	Acidity83	mg/L	1	1	4.7	7.4	44.6	0.64
2SC	2021-12-07	Ag-D	mg/L	0.00004	0.00004	<0.000040	<0.000040	0.0	1.00
2SC	2021-12-07	Ag-T	mg/L	0.00004	0.00004	<0.000040	<0.000040	0.0	1.00
2SC	2021-12-07	Al-D	mg/L	0.006	0.006	<0.0060	<0.0060	0.0	1.00
2SC	2021-12-07	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
2SC	2021-12-07	Alk-T	mg/L	1	1	200	200	0.0	1.00
2SC	2021-12-07	Al-T	mg/L	0.006	0.006	0.0061	<0.0060	68.1	2.03
2SC	2021-12-07	As-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
2SC	2021-12-07	As-T	mg/L	0.0002	0.0002	0.00026	0.00026	0.0	1.00
2SC	2021-12-07	Ba-D	mg/L	0.002	0.002	0.0129	0.0127	1.6	1.02
2SC	2021-12-07	Ba-T	mg/L	0.002	0.002	0.0140	0.0135	3.6	1.04
2SC	2021-12-07	B-D	mg/L	0.1	0.1	0.25	0.25	0.0	1.00
2SC	2021-12-07	Be-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
2SC	2021-12-07	Be-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
2SC	2021-12-07	Bicarb	mg/L	1	1	240	240	0.0	1.00
2SC	2021-12-07	Bi-D	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
2SC	2021-12-07	Bi-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
2SC	2021-12-07	B-T	mg/L	0.1	0.1	0.28	0.27	3.6	1.04
2SC	2021-12-07	Ca-D	mg/L	0.1	0.1	280	280	0.0	1.00
2SC	2021-12-07	Carb	mg/L	1	1	<1.0	<1.0	0.0	1.00
2SC	2021-12-07	Ca-T	mg/L	0.1	0.1	291	280	3.9	1.04
2SC	2021-12-07	Cd-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
2SC	2021-12-07	Cd-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
2SC	2021-12-07	Co-D	mg/L	0.0004	0.0004	<0.00040	<0.00040	0.0	1.00
2SC	2021-12-07	Co-T	mg/L	0.0004	0.0004	<0.00040	<0.00040	0.0	1.00
2SC	2021-12-07	Cr-D	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
2SC	2021-12-07	Cr-T	mg/L	0.002	0.002	<0.0020	0.0035	111.1	0.29
2SC	2021-12-07	Cu-D	mg/L	0.0004	0.0004	<0.00040	<0.00040	0.0	1.00
2SC	2021-12-07	Cu-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
2SC	2021-12-07	Fe-D	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
2SC	2021-12-07	Fe-T	mg/L	0.02	0.02	<0.020	0.047	129.8	0.21
2SC	2021-12-07	Hard-D	mg/L	0.5	0.5	830	834	0.5	1.00
2SC	2021-12-07	Hard-T	mg/L	0.5	0.5	870	838	3.7	1.04
2SC	2021-12-07	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
2SC	2021-12-07	Hg-T	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
2SC	2021-12-07	Hydrox	mg/L	1	1	<1.0	<1.0	0.0	1.00
2SC	2021-12-07	K-D	mg/L	0.1	0.1	1.89	1.90	0.5	0.99
2SC	2021-12-07	K-T	mg/L	0.1	0.1	1.98	1.91	3.6	1.04
2SC	2021-12-07	Li-T	mg/L	0.004	0.004	0.0076	0.0072	5.4	1.06
2SC	2021-12-07	Mg-D	mg/L	0.1	0.1	31.9	32.7	2.5	0.98
2SC	2021-12-07	Mg-T	mg/L	0.1	0.1	34.8	33.7	3.2	1.03
2SC	2021-12-07	Mn-D	mg/L	0.002	0.002	0.0051	0.0051	0.0	1.00
2SC	2021-12-07	Mn-T	mg/L	0.002	0.002	0.0065	0.0066	1.5	0.98
2SC	2021-12-07	Mo-D	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
2SC	2021-12-07	Mo-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
2SC	2021-12-07	Na-D	mg/L	0.1	0.1	26.5	27.0	1.9	0.98
2SC	2021-12-07	Na-T	mg/L	0.1	0.1	27.8	26.8	3.7	1.04
2SC	2021-12-07	Ni-D	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
2SC	2021-12-07	Ni-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
2SC	2021-12-07	Pb-D	mg/L	0.0004	0.0004	<0.00040	<0.00040	0.0	1.00
2SC	2021-12-07	Pb-T	mg/L	0.0004	0.0004	<0.00040	<0.00040	0.0	1.00
2SC	2021-12-07	Sb-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
2SC	2021-12-07	Sb-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
2SC	2021-12-07	S-D	mg/L	6	6	228	229	0.4	1.00
2SC	2021-12-07	Se-D	mg/L	0.0002	0.0002	0.00043	0.00045	4.5	0.96
2SC	2021-12-07	Se-T	mg/L	0.0002	0.0002	0.00040	0.00040	0.0	1.00
2SC	2021-12-07	Si-D	mg/L	0.2	0.2	2.49	2.48	0.4	1.00

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Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
2SC	2021-12-07	Si-T	mg/L	0.2	0.2	2.69	2.59	3.8	1.04
2SC	2021-12-07	Sn-T	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
2SC	2021-12-07	SO4-D	mg/L	10	10	730	740	1.4	0.99
2SC	2021-12-07	Sr-D	mg/L	0.002	0.002	1.50	1.50	0.0	1.00
2SC	2021-12-07	Sr-T	mg/L	0.002	0.002	1.59	1.52	4.5	1.05
2SC	2021-12-07	S-T	mg/L	6	6	244	230	5.9	1.06
2SC	2021-12-07	Ti-D	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
2SC	2021-12-07	Ti-T	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
2SC	2021-12-07	TI-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
2SC	2021-12-07	TI-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
2SC	2021-12-07	U-D	mg/L	0.0002	0.0002	0.00021	0.00021	0.0	1.00
2SC	2021-12-07	U-T	mg/L	0.0002	0.0002	0.00022	0.00022	0.0	1.00
2SC	2021-12-07	V-D	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
2SC	2021-12-07	V-T	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
2SC	2021-12-07	Zn-D	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
2SC	2021-12-07	Zn-T	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
2SC	2021-12-07	Zr-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
2SC	2021-12-07	Zr-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
2SI	2021-05-25	SO4-D	mg/L	10	10	400	390	2.5	1.03
2SI	2021-07-19	H2S	mg/L	0.002	0.002	0.037	0.047	23.8	0.79
2SI	2021-07-19	S2-T	mg/L	0.0018	0.0018	0.035	0.044	22.8	0.80
2SI	2021-07-19	SO4-D	mg/L	10	10	400	440	9.5	0.91
2SI	2022-02-07	H2S	mg/L	0.002	0.002	0.048	0.048	0.0	1.00
2SI	2022-02-07	S2-T	mg/L	0.0018	0.0018	0.045	0.045	0.0	1.00
2SI	2022-02-07	SO4-D	mg/L	10	10	260	260	0.0	1.00
3S	2022-02-01	Acidity45	mg/L	1	1	<1.0	<1.0	0.0	1.00
3S	2022-02-01	Acidity83	mg/L	1	1	1.7	1.6	6.1	1.06
3S	2022-02-01	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
3S	2022-02-01	Alk-T	mg/L	1	1	140	120	15.4	1.17
3S	2022-02-01	Bicarb	mg/L	1	1	170	150	12.5	1.13
3S	2022-02-01	Carb	mg/L	1	1	<1.0	<1.0	0.0	1.00
3S	2022-02-01	Hydrox	mg/L	1	1	<1.0	<1.0	0.0	1.00
3S	2022-02-01	SO4-D	mg/L	10	10	510	490	4.0	1.04
5M#2	2021-09-02	Acidity45	mg/L	1	1	<1.0	<1.0	0.0	1.00
5M#2	2021-09-02	Acidity83	mg/L	1	1	<1.0	<1.0	0.0	1.00
5M#2	2021-09-02	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
5M#2	2021-09-02	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
5M#2	2021-09-02	Al-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
5M#2	2021-09-02	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
5M#2	2021-09-02	Alk-T	mg/L	1	1	570	590	3.4	0.97
5M#2	2021-09-02	Al-T	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
5M#2	2021-09-02	As-D	mg/L	0.0001	0.0001	0.00666	0.00674	1.2	0.99
5M#2	2021-09-02	As-T	mg/L	0.0001	0.0001	0.00768	0.00763	0.7	1.01
5M#2	2021-09-02	Ba-D	mg/L	0.001	0.001	0.0272	0.0272	0.0	1.00
5M#2	2021-09-02	Ba-T	mg/L	0.001	0.001	0.0283	0.0281	0.7	1.01
5M#2	2021-09-02	B-D	mg/L	0.05	0.05	1.06	0.999	5.9	1.06
5M#2	2021-09-02	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
5M#2	2021-09-02	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
5M#2	2021-09-02	Bicarb	mg/L	1	1	700	710	1.4	0.99
5M#2	2021-09-02	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
5M#2	2021-09-02	Bi-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
5M#2	2021-09-02	Br-D	mg/L	0.01	0.01	0.056	0.063	11.8	0.89
5M#2	2021-09-02	B-T	mg/L	0.05	0.05	0.953	0.918	3.7	1.04
5M#2	2021-09-02	Ca-D	mg/L	0.05	0.05	82.2	79.7	3.1	1.03
5M#2	2021-09-02	Carb	mg/L	1	1	<1.0	<1.0	0.0	1.00
5M#2	2021-09-02	Ca-T	mg/L	0.05	0.05	82.5	80.4	2.6	1.03
5M#2	2021-09-02	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
5M#2	2021-09-02	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
5M#2	2021-09-02	Cl-D	mg/L	1	1	18	18	0.0	1.00
5M#2	2021-09-02	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
5M#2	2021-09-02	Co-T	mg/L	0.0002	0.0002	0.00022	0.00021	4.7	1.05
5M#2	2021-09-02	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
5M#2	2021-09-02	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
5M#2	2021-09-02	Cu-D	mg/L	0.0002	0.0002	0.00032	0.00023	32.7	1.39
5M#2	2021-09-02	Cu-T	mg/L	0.0005	0.0005	0.00115	0.00118	2.6	0.97
5M#2	2021-09-02	DOC	mg/L	0.5	0.5	0.84	0.88	4.7	0.95
5M#2	2021-09-02	F-D	mg/L	0.05	0.05	0.057	0.067	16.1	0.85

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Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
5M#2	2021-09-02	Fe-D	mg/L	0.005	0.005	0.0547	0.0647	16.8	0.85
5M#2	2021-09-02	Fe-T	mg/L	0.01	0.01	2.27	2.24	1.3	1.01
5M#2	2021-09-02	H2S	mg/L	0.002	0.002	0.12	0.12	0.0	1.00
5M#2	2021-09-02	Hard-D	mg/L	0.5	0.5	233	227	2.6	1.03
5M#2	2021-09-02	Hard-T	mg/L	0.5	0.5	234	228	2.6	1.03
5M#2	2021-09-02	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
5M#2	2021-09-02	Hg-T	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
5M#2	2021-09-02	Hydrox	mg/L	1	1	<1.0	<1.0	0.0	1.00
5M#2	2021-09-02	K-D	mg/L	0.05	0.05	3.03	3.10	2.3	0.98
5M#2	2021-09-02	K-T	mg/L	0.05	0.05	3.03	2.99	1.3	1.01
5M#2	2021-09-02	Li-T	mg/L	0.002	0.002	0.0050	0.0050	0.0	1.00
5M#2	2021-09-02	Mg-D	mg/L	0.05	0.05	6.62	6.71	1.4	0.99
5M#2	2021-09-02	Mg-T	mg/L	0.05	0.05	6.71	6.55	2.4	1.02
5M#2	2021-09-02	Mn-D	mg/L	0.001	0.001	0.217	0.217	0.0	1.00
5M#2	2021-09-02	Mn-T	mg/L	0.001	0.001	0.228	0.224	1.8	1.02
5M#2	2021-09-02	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
5M#2	2021-09-02	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
5M#2	2021-09-02	Na-D	mg/L	0.05	0.05	316	318	0.6	0.99
5M#2	2021-09-02	Na-T	mg/L	0.05	0.05	316	311	1.6	1.02
5M#2	2021-09-02	N-D	mg/L	0.02	0.02	0.191	0.211	10.0	0.91
5M#2	2021-09-02	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
5M#2	2021-09-02	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
5M#2	2021-09-02	N-NH3	mg/L	0.015	0.015	0.18	0.23	24.4	0.78
5M#2	2021-09-02	N-T	mg/L	0.02	0.02	0.260	0.215	18.9	1.21
5M#2	2021-09-02	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
5M#2	2021-09-02	Pb-T	mg/L	0.0002	0.0002	0.00058	0.00061	5.0	0.95
5M#2	2021-09-02	P-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
5M#2	2021-09-02	P-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
5M#2	2021-09-02	S2-T	mg/L	0.0018	0.0018	0.11	0.11	0.0	1.00
5M#2	2021-09-02	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
5M#2	2021-09-02	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
5M#2	2021-09-02	S-D	mg/L	3	3	110	111	0.9	0.99
5M#2	2021-09-02	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
5M#2	2021-09-02	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
5M#2	2021-09-02	Si-D	mg/L	0.1	0.1	3.72	3.64	2.2	1.02
5M#2	2021-09-02	Si-T	mg/L	0.1	0.1	3.63	3.63	0.0	1.00
5M#2	2021-09-02	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
5M#2	2021-09-02	SO4-D	mg/L	10	10	330	310	6.2	1.06
5M#2	2021-09-02	Sr-D	mg/L	0.001	0.001	0.884	0.897	1.5	0.99
5M#2	2021-09-02	Sr-T	mg/L	0.001	0.001	0.863	0.853	1.2	1.01
5M#2	2021-09-02	S-T	mg/L	3	3	112	110	1.8	1.02
5M#2	2021-09-02	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
5M#2	2021-09-02	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
5M#2	2021-09-02	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
5M#2	2021-09-02	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
5M#2	2021-09-02	TOC	mg/L	0.5	0.5	0.74	0.83	11.5	0.89
5M#2	2021-09-02	Turb	NTU	0.1	0.1	22	20	9.5	1.10
5M#2	2021-09-02	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
5M#2	2021-09-02	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
5M#2	2021-09-02	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
5M#2	2021-09-02	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
5M#2	2021-09-02	Zn-D	mg/L	0.005	0.005	0.158	0.155	1.9	1.02
5M#2	2021-09-02	Zn-T	mg/L	0.005	0.005	0.552	0.546	1.1	1.01
5M#2	2021-09-02	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
5M#2	2021-09-02	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
7S	2021-05-06	Acidity45	mg/L	1	1	<1.0	<1.0	0.0	1.00
7S	2021-05-06	Acidity83	mg/L	1	1	2.1	2.1	0.0	1.00
7S	2021-05-06	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
7S	2021-05-06	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
7S	2021-05-06	Al-D	mg/L	0.003	0.003	0.0145	0.0145	0.0	1.00
7S	2021-05-06	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
7S	2021-05-06	Alk-T	mg/L	1	1	23	23	0.0	1.00
7S	2021-05-06	Al-T	mg/L	0.003	0.003	0.174	0.174	0.0	1.00
7S	2021-05-06	As-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
7S	2021-05-06	As-T	mg/L	0.0001	0.0001	0.00015	0.00015	0.0	1.00
7S	2021-05-06	Ba-D	mg/L	0.001	0.001	0.0017	0.0017	0.0	1.00
7S	2021-05-06	Ba-T	mg/L	0.001	0.001	0.0027	0.0027	0.0	1.00

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Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
7S	2021-05-06	B-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
7S	2021-05-06	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
7S	2021-05-06	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
7S	2021-05-06	Bicarb	mg/L	1	1	28	28	0.0	1.00
7S	2021-05-06	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
7S	2021-05-06	Bi-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
7S	2021-05-06	B-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
7S	2021-05-06	Ca-D	mg/L	0.05	0.05	5.48	5.48	0.0	1.00
7S	2021-05-06	Carb	mg/L	1	1	<1.0	<1.0	0.0	1.00
7S	2021-05-06	Ca-T	mg/L	0.05	0.05	6.01	6.01	0.0	1.00
7S	2021-05-06	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
7S	2021-05-06	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
7S	2021-05-06	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
7S	2021-05-06	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
7S	2021-05-06	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
7S	2021-05-06	Cr-T	mg/L	0.001	0.001	0.0046	0.0046	0.0	1.00
7S	2021-05-06	Cu-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
7S	2021-05-06	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
7S	2021-05-06	DOC	mg/L	0.5	0.5	1.1	1.1	0.0	1.00
7S	2021-05-06	Fe-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
7S	2021-05-06	Fe-T	mg/L	0.01	0.01	0.133	0.133	0.0	1.00
7S	2021-05-06	Hard-D	mg/L	0.5	0.5	19.2	19.2	0.0	1.00
7S	2021-05-06	Hard-T	mg/L	0.5	0.5	20.9	20.9	0.0	1.00
7S	2021-05-06	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
7S	2021-05-06	Hg-T	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
7S	2021-05-06	Hydrox	mg/L	1	1	<1.0	<1.0	0.0	1.00
7S	2021-05-06	K-D	mg/L	0.05	0.05	0.098	0.098	0.0	1.00
7S	2021-05-06	K-T	mg/L	0.05	0.05	0.102	0.102	0.0	1.00
7S	2021-05-06	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
7S	2021-05-06	Mg-D	mg/L	0.05	0.05	1.34	1.34	0.0	1.00
7S	2021-05-06	Mg-T	mg/L	0.05	0.05	1.43	1.43	0.0	1.00
7S	2021-05-06	Mn-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
7S	2021-05-06	Mn-T	mg/L	0.001	0.001	0.0051	0.0051	0.0	1.00
7S	2021-05-06	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
7S	2021-05-06	Mo-T	mg/L	0.001	0.001	0.0045	0.0045	0.0	1.00
7S	2021-05-06	Na-D	mg/L	0.05	0.05	1.79	1.79	0.0	1.00
7S	2021-05-06	Na-T	mg/L	0.05	0.05	1.89	1.89	0.0	1.00
7S	2021-05-06	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
7S	2021-05-06	Ni-T	mg/L	0.001	0.001	0.0196	0.0196	0.0	1.00
7S	2021-05-06	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
7S	2021-05-06	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
7S	2021-05-06	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
7S	2021-05-06	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
7S	2021-05-06	S-D	mg/L	3	3	<3.0	<3.0	0.0	1.00
7S	2021-05-06	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
7S	2021-05-06	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
7S	2021-05-06	Si-D	mg/L	0.1	0.1	4.42	4.42	0.0	1.00
7S	2021-05-06	Si-T	mg/L	0.1	0.1	5.06	5.06	0.0	1.00
7S	2021-05-06	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
7S	2021-05-06	SO4-D	mg/L	1	1	3.7	3.7	0.0	1.00
7S	2021-05-06	Sr-D	mg/L	0.001	0.001	0.0232	0.0232	0.0	1.00
7S	2021-05-06	Sr-T	mg/L	0.001	0.001	0.0249	0.0249	0.0	1.00
7S	2021-05-06	S-T	mg/L	3	3	<3.0	<3.0	0.0	1.00
7S	2021-05-06	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
7S	2021-05-06	Ti-T	mg/L	0.005	0.005	0.0092	0.0092	0.0	1.00
7S	2021-05-06	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
7S	2021-05-06	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
7S	2021-05-06	TSS	mg/L	1	1	<1.0	<1.0	0.0	1.00
7S	2021-05-06	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
7S	2021-05-06	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
7S	2021-05-06	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
7S	2021-05-06	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
7S	2021-05-06	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
7S	2021-05-06	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
7S	2021-05-06	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
7S	2021-05-06	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
7SQR	2021-05-03	Acidity45	mg/L	1	1	<1.0	<1.0	0.0	1.00

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
7SQR	2021-05-03	Acidity83	mg/L	1	1	<1.0	1.4	94.7	0.36
7SQR	2021-05-03	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
7SQR	2021-05-03	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
7SQR	2021-05-03	Al-D	mg/L	0.003	0.003	0.0096	0.0094	2.1	1.02
7SQR	2021-05-03	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
7SQR	2021-05-03	Alk-T	mg/L	1	1	43	44	2.3	0.98
7SQR	2021-05-03	Al-T	mg/L	0.003	0.003	0.0236	0.0241	2.1	0.98
7SQR	2021-05-03	As-D	mg/L	0.0001	0.0001	0.00075	0.00075	0.0	1.00
7SQR	2021-05-03	As-T	mg/L	0.0001	0.0001	0.00081	0.00081	0.0	1.00
7SQR	2021-05-03	Ba-D	mg/L	0.001	0.001	0.0039	0.0038	2.6	1.03
7SQR	2021-05-03	Ba-T	mg/L	0.001	0.001	0.0038	0.0039	2.6	0.97
7SQR	2021-05-03	B-D	mg/L	0.05	0.05	0.069	0.067	2.9	1.03
7SQR	2021-05-03	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
7SQR	2021-05-03	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
7SQR	2021-05-03	Bicarb	mg/L	1	1	53	54	1.9	0.98
7SQR	2021-05-03	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
7SQR	2021-05-03	Bi-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
7SQR	2021-05-03	B-T	mg/L	0.05	0.05	0.070	0.068	2.9	1.03
7SQR	2021-05-03	Ca-D	mg/L	0.05	0.05	15.9	15.7	1.3	1.01
7SQR	2021-05-03	Carb	mg/L	1	1	<1.0	<1.0	0.0	1.00
7SQR	2021-05-03	Ca-T	mg/L	0.05	0.05	15.7	16.0	1.9	0.98
7SQR	2021-05-03	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
7SQR	2021-05-03	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
7SQR	2021-05-03	Cl-D	mg/L	1	1	1.5	1.2	22.2	1.25
7SQR	2021-05-03	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
7SQR	2021-05-03	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
7SQR	2021-05-03	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
7SQR	2021-05-03	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
7SQR	2021-05-03	Cu-D	mg/L	0.0002	0.0002	0.00041	0.00041	0.0	1.00
7SQR	2021-05-03	Cu-T	mg/L	0.0005	0.0005	0.00052	0.00058	10.9	0.90
7SQR	2021-05-03	DOC	mg/L	0.5	0.5	1.6	1.6	0.0	1.00
7SQR	2021-05-03	Fe-D	mg/L	0.005	0.005	0.0596	0.0592	0.7	1.01
7SQR	2021-05-03	Fe-T	mg/L	0.01	0.01	0.105	0.107	1.9	0.98
7SQR	2021-05-03	Hard-D	mg/L	0.5	0.5	47.6	47.4	0.4	1.00
7SQR	2021-05-03	Hard-T	mg/L	0.5	0.5	47.6	48.2	1.3	0.99
7SQR	2021-05-03	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
7SQR	2021-05-03	Hg-T	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
7SQR	2021-05-03	Hydrox	mg/L	1	1	<1.0	<1.0	0.0	1.00
7SQR	2021-05-03	K-D	mg/L	0.05	0.05	0.340	0.350	2.9	0.97
7SQR	2021-05-03	K-T	mg/L	0.05	0.05	0.338	0.348	2.9	0.97
7SQR	2021-05-03	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
7SQR	2021-05-03	Mg-D	mg/L	0.05	0.05	1.95	1.96	0.5	0.99
7SQR	2021-05-03	Mg-T	mg/L	0.05	0.05	2.01	2.03	1.0	0.99
7SQR	2021-05-03	Mn-D	mg/L	0.001	0.001	0.0070	0.0069	1.4	1.01
7SQR	2021-05-03	Mn-T	mg/L	0.001	0.001	0.0091	0.0094	3.2	0.97
7SQR	2021-05-03	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
7SQR	2021-05-03	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
7SQR	2021-05-03	Na-D	mg/L	0.05	0.05	20.7	21.2	2.4	0.98
7SQR	2021-05-03	Na-T	mg/L	0.05	0.05	21.7	22.1	1.8	0.98
7SQR	2021-05-03	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
7SQR	2021-05-03	Ni-T	mg/L	0.001	0.001	0.0015	0.0031	69.6	0.48
7SQR	2021-05-03	N-NH3	mg/L	0.015	0.015	<0.015	<0.015	0.0	1.00
7SQR	2021-05-03	N-NO2	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
7SQR	2021-05-03	N-NO23	mg/L	0.02	0.02	<0.020	<0.020	0.0	1.00
7SQR	2021-05-03	N-NO3	mg/L	0.02	0.02	<0.020	<0.020	0.0	1.00
7SQR	2021-05-03	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
7SQR	2021-05-03	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
7SQR	2021-05-03	P-T	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
7SQR	2021-05-03	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
7SQR	2021-05-03	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
7SQR	2021-05-03	S-D	mg/L	3	3	16.2	16.3	0.6	0.99
7SQR	2021-05-03	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
7SQR	2021-05-03	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
7SQR	2021-05-03	Si-D	mg/L	0.1	0.1	2.11	2.08	1.4	1.01
7SQR	2021-05-03	Si-T	mg/L	0.1	0.1	2.10	2.09	0.5	1.00
7SQR	2021-05-03	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
7SQR	2021-05-03	SO4-D	mg/L	1	1	51	52	1.9	0.98

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
7SQR	2021-05-03	Sr-D	mg/L	0.001	0.001	0.110	0.107	2.8	1.03
7SQR	2021-05-03	Sr-T	mg/L	0.001	0.001	0.109	0.114	4.5	0.96
7SQR	2021-05-03	S-T	mg/L	3	3	16.4	17.2	4.8	0.95
7SQR	2021-05-03	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
7SQR	2021-05-03	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
7SQR	2021-05-03	Ti-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
7SQR	2021-05-03	Ti-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
7SQR	2021-05-03	TSS	mg/L	1	1	<1.0	<1.0	0.0	1.00
7SQR	2021-05-03	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
7SQR	2021-05-03	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
7SQR	2021-05-03	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
7SQR	2021-05-03	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
7SQR	2021-05-03	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
7SQR	2021-05-03	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
7SQR	2021-05-03	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
7SQR	2021-05-03	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
7SQR	2021-10-05	Acidity45	mg/L	1	1	<1.0	<1.0	0.0	1.00
7SQR	2021-10-05	Acidity83	mg/L	1	1	2.3	3.7	46.7	0.62
7SQR	2021-10-05	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
7SQR	2021-10-05	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
7SQR	2021-10-05	Al-D	mg/L	0.003	0.003	0.0070	0.0067	4.4	1.04
7SQR	2021-10-05	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
7SQR	2021-10-05	Alk-T	mg/L	1	1	47	46	2.2	1.02
7SQR	2021-10-05	Al-T	mg/L	0.003	0.003	0.0295	0.0260	12.6	1.13
7SQR	2021-10-05	As-D	mg/L	0.0001	0.0001	0.00031	0.00031	0.0	1.00
7SQR	2021-10-05	As-T	mg/L	0.0001	0.0001	0.00035	0.00037	5.6	0.95
7SQR	2021-10-05	Ba-D	mg/L	0.001	0.001	0.0025	0.0025	0.0	1.00
7SQR	2021-10-05	Ba-T	mg/L	0.001	0.001	0.0029	0.0027	7.1	1.07
7SQR	2021-10-05	B-D	mg/L	0.05	0.05	0.061	0.060	1.7	1.02
7SQR	2021-10-05	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
7SQR	2021-10-05	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
7SQR	2021-10-05	Bicarb	mg/L	1	1	57	56	1.8	1.02
7SQR	2021-10-05	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
7SQR	2021-10-05	Bi-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
7SQR	2021-10-05	B-T	mg/L	0.05	0.05	0.065	0.071	8.8	0.92
7SQR	2021-10-05	Ca-D	mg/L	0.05	0.05	13.1	13.1	0.0	1.00
7SQR	2021-10-05	Carb	mg/L	1	1	<1.0	<1.0	0.0	1.00
7SQR	2021-10-05	Ca-T	mg/L	0.05	0.05	14.2	14.3	0.7	0.99
7SQR	2021-10-05	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
7SQR	2021-10-05	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
7SQR	2021-10-05	Cl-D	mg/L	1	1	1.8	1.9	5.4	0.95
7SQR	2021-10-05	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
7SQR	2021-10-05	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
7SQR	2021-10-05	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
7SQR	2021-10-05	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
7SQR	2021-10-05	Cu-D	mg/L	0.0002	0.0002	0.00042	0.00040	4.9	1.05
7SQR	2021-10-05	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
7SQR	2021-10-05	DOC	mg/L	0.5	0.5	1.7	1.7	0.0	1.00
7SQR	2021-10-05	Fe-D	mg/L	0.005	0.005	0.0545	0.0560	2.7	0.97
7SQR	2021-10-05	Fe-T	mg/L	0.01	0.01	0.115	0.112	2.6	1.03
7SQR	2021-10-05	Hard-D	mg/L	0.5	0.5	40.2	40.2	0.0	1.00
7SQR	2021-10-05	Hard-T	mg/L	0.5	0.5	43.2	43.8	1.4	0.99
7SQR	2021-10-05	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
7SQR	2021-10-05	Hg-T	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
7SQR	2021-10-05	Hydrox	mg/L	1	1	<1.0	<1.0	0.0	1.00
7SQR	2021-10-05	K-D	mg/L	0.05	0.05	0.302	0.314	3.9	0.96
7SQR	2021-10-05	K-T	mg/L	0.05	0.05	0.323	0.327	1.2	0.99
7SQR	2021-10-05	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
7SQR	2021-10-05	Mg-D	mg/L	0.05	0.05	1.82	1.83	0.5	0.99
7SQR	2021-10-05	Mg-T	mg/L	0.05	0.05	1.90	1.91	0.5	0.99
7SQR	2021-10-05	Mn-D	mg/L	0.001	0.001	0.0053	0.0053	0.0	1.00
7SQR	2021-10-05	Mn-T	mg/L	0.001	0.001	0.0073	0.0072	1.4	1.01
7SQR	2021-10-05	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
7SQR	2021-10-05	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
7SQR	2021-10-05	Na-D	mg/L	0.05	0.05	19.6	19.8	1.0	0.99
7SQR	2021-10-05	Na-T	mg/L	0.05	0.05	20.8	20.4	1.9	1.02
7SQR	2021-10-05	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00

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Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
7SQR	2021-10-05	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
7SQR	2021-10-05	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
7SQR	2021-10-05	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
7SQR	2021-10-05	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
7SQR	2021-10-05	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
7SQR	2021-10-05	S-D	mg/L	3	3	13.4	13.4	0.0	1.00
7SQR	2021-10-05	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
7SQR	2021-10-05	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
7SQR	2021-10-05	Si-D	mg/L	0.1	0.1	2.00	2.01	0.5	1.00
7SQR	2021-10-05	Si-T	mg/L	0.1	0.1	2.21	2.17	1.8	1.02
7SQR	2021-10-05	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
7SQR	2021-10-05	SO4-D	mg/L	1	1	42	42	0.0	1.00
7SQR	2021-10-05	Sr-D	mg/L	0.001	0.001	0.0783	0.0778	0.6	1.01
7SQR	2021-10-05	Sr-T	mg/L	0.001	0.001	0.0874	0.0854	2.3	1.02
7SQR	2021-10-05	S-T	mg/L	3	3	15.4	13.7	11.7	1.12
7SQR	2021-10-05	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
7SQR	2021-10-05	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
7SQR	2021-10-05	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
7SQR	2021-10-05	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
7SQR	2021-10-05	TSS	mg/L	1	1	<1.0	<1.0	0.0	1.00
7SQR	2021-10-05	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
7SQR	2021-10-05	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
7SQR	2021-10-05	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
7SQR	2021-10-05	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
7SQR	2021-10-05	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
7SQR	2021-10-05	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
7SQR	2021-10-05	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
7SQR	2021-10-05	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
INF	2021-06-01	Acidity45	mg/L	1	1	<1.0	<1.0	0.0	1.00
INF	2021-06-01	Acidity83	mg/L	1	1	16.1	17.3	7.2	0.93
INF	2021-06-01	Ag-D	mg/L	0.00004	0.00004	<0.000040	<0.000040	0.0	1.00
INF	2021-06-01	Ag-T	mg/L	0.00004	0.00004	<0.000040	<0.000040	0.0	1.00
INF	2021-06-01	Al-D	mg/L	0.006	0.006	<0.0060	<0.0060	0.0	1.00
INF	2021-06-01	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
INF	2021-06-01	Alk-T	mg/L	1	1	270	260	3.8	1.04
INF	2021-06-01	Al-T	mg/L	0.006	0.006	0.0090	0.0127	34.1	0.71
INF	2021-06-01	As-D	mg/L	0.0002	0.0002	0.00379	0.00370	2.4	1.02
INF	2021-06-01	As-T	mg/L	0.0002	0.0002	0.00403	0.00403	0.0	1.00
INF	2021-06-01	Ba-D	mg/L	0.002	0.002	0.0221	0.0211	4.6	1.05
INF	2021-06-01	Ba-T	mg/L	0.002	0.002	0.0217	0.0214	1.4	1.01
INF	2021-06-01	B-D	mg/L	0.1	0.1	0.70	0.70	0.0	1.00
INF	2021-06-01	Be-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
INF	2021-06-01	Be-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
INF	2021-06-01	Bicarb	mg/L	1	1	330	320	3.1	1.03
INF	2021-06-01	Bi-D	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
INF	2021-06-01	Bi-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
INF	2021-06-01	B-T	mg/L	0.1	0.1	0.77	0.76	1.3	1.01
INF	2021-06-01	Ca-D	mg/L	0.1	0.1	258	245	5.2	1.05
INF	2021-06-01	Carb	mg/L	1	1	<1.0	<1.0	0.0	1.00
INF	2021-06-01	Ca-T	mg/L	0.1	0.1	250	247	1.2	1.01
INF	2021-06-01	Cd-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
INF	2021-06-01	Cd-T	mg/L	0.00002	0.00002	0.000091	0.000164	57.3	0.55
INF	2021-06-01	Co-D	mg/L	0.0004	0.0004	0.00042	<0.00040	71.0	2.10
INF	2021-06-01	Co-T	mg/L	0.0004	0.0004	0.00050	0.00057	13.1	0.88
INF	2021-06-01	Cr-D	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
INF	2021-06-01	Cr-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
INF	2021-06-01	Cu-D	mg/L	0.0004	0.0004	<0.00040	<0.00040	0.0	1.00
INF	2021-06-01	Cu-T	mg/L	0.001	0.001	0.0010	0.0016	46.2	0.62
INF	2021-06-01	Fe-D	mg/L	0.01	0.01	3.83	3.70	3.5	1.04
INF	2021-06-01	Fe-T	mg/L	0.02	0.02	3.73	3.71	0.5	1.01
INF	2021-06-01	H2S	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
INF	2021-06-01	Hard-D	mg/L	0.5	0.5	719	683	5.1	1.05
INF	2021-06-01	Hard-T	mg/L	0.5	0.5	694	687	1.0	1.01
INF	2021-06-01	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
INF	2021-06-01	Hg-T	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
INF	2021-06-01	Hydrox	mg/L	1	1	<1.0	<1.0	0.0	1.00
INF	2021-06-01	K-D	mg/L	0.1	0.1	2.12	2.00	5.8	1.06

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Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
INF	2021-06-01	K-T	mg/L	0.1	0.1	1.93	1.95	1.0	0.99
INF	2021-06-01	Li-T	mg/L	0.004	0.004	0.0231	0.0229	0.9	1.01
INF	2021-06-01	Mg-D	mg/L	0.1	0.1	18.0	17.1	5.1	1.05
INF	2021-06-01	Mg-T	mg/L	0.1	0.1	17.1	17.0	0.6	1.01
INF	2021-06-01	Mn-D	mg/L	0.002	0.002	0.403	0.384	4.8	1.05
INF	2021-06-01	Mn-T	mg/L	0.002	0.002	0.407	0.415	1.9	0.98
INF	2021-06-01	Mo-D	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
INF	2021-06-01	Mo-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
INF	2021-06-01	Na-D	mg/L	0.1	0.1	117	112	4.4	1.04
INF	2021-06-01	Na-T	mg/L	0.1	0.1	114	114	0.0	1.00
INF	2021-06-01	Ni-D	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
INF	2021-06-01	Ni-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
INF	2021-06-01	N-NO2	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
INF	2021-06-01	N-NO23	mg/L	0.02	0.02	<0.020	<0.020	0.0	1.00
INF	2021-06-01	N-NO3	mg/L	0.02	0.02	<0.020	<0.020	0.0	1.00
INF	2021-06-01	Pb-D	mg/L	0.0004	0.0004	<0.00040	<0.00040	0.0	1.00
INF	2021-06-01	Pb-T	mg/L	0.0004	0.0004	<0.00040	<0.00040	0.0	1.00
INF	2021-06-01	P-T	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
INF	2021-06-01	S2-T	mg/L	0.0018	0.0018	<0.0018	<0.0018	0.0	1.00
INF	2021-06-01	Sb-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
INF	2021-06-01	Sb-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
INF	2021-06-01	S-D	mg/L	6	6	248	233	6.2	1.06
INF	2021-06-01	Se-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
INF	2021-06-01	Se-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
INF	2021-06-01	Si-D	mg/L	0.2	0.2	3.35	3.18	5.2	1.05
INF	2021-06-01	Si-T	mg/L	0.2	0.2	3.07	3.10	1.0	0.99
INF	2021-06-01	Sn-T	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
INF	2021-06-01	SO4-D	mg/L	10	10	740	740	0.0	1.00
INF	2021-06-01	Sr-D	mg/L	0.002	0.002	2.42	2.29	5.5	1.06
INF	2021-06-01	Sr-T	mg/L	0.002	0.002	2.35	2.36	0.4	1.00
INF	2021-06-01	S-T	mg/L	6	6	232	233	0.4	1.00
INF	2021-06-01	Ti-D	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
INF	2021-06-01	Ti-T	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
INF	2021-06-01	Ti-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
INF	2021-06-01	Ti-T	mg/L	0.00002	0.00002	<0.000020	0.000028	94.7	0.36
INF	2021-06-01	U-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
INF	2021-06-01	U-T	mg/L	0.0002	0.0002	<0.00020	0.00023	78.8	0.43
INF	2021-06-01	V-D	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
INF	2021-06-01	V-T	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
INF	2021-06-01	Zn-D	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
INF	2021-06-01	Zn-T	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
INF	2021-06-01	Zr-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
INF	2021-06-01	Zr-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
INF	2021-06-14	H2S	mg/L	0.002	0.002	0.0032	0.0043	29.3	0.74
INF	2021-06-14	S2-T	mg/L	0.0018	0.0018	0.0030	0.0040	28.6	0.75
INF	2021-06-14	SO4-D	mg/L	10	10	670	660	1.5	1.02
INF	2021-07-26	SO4-D	mg/L	10	10	650	620	4.7	1.05
INF	2021-11-16	H2S	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
INF	2021-11-16	S2-T	mg/L	0.0018	0.0018	<0.0018	<0.0018	0.0	1.00
INF	2021-11-16	SO4-D	mg/L	10	10	590	590	0.0	1.00
INF	2021-12-27	Cl-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
INF	2021-12-27	H2S	mg/L	0.002	0.002	0.0031	<0.0020	102.4	3.10
INF	2021-12-27	S2-T	mg/L	0.0018	0.0018	0.0029	<0.0018	105.3	3.22
INF	2021-12-27	SO4-D	mg/L	10	10	550	560	1.8	0.98
INF	2022-01-11	H2S	mg/L	0.002	0.002	<0.0020	0.0041	121.6	0.24
INF	2022-01-11	S2-T	mg/L	0.0018	0.0018	<0.0018	0.0039	125.0	0.23
INF	2022-01-11	SO4-D	mg/L	10	10	640	640	0.0	1.00
IR6	2021-08-03	Acidity45	mg/L	1	1	<1.0	<1.0	0.0	1.00
IR6	2021-08-03	Acidity83	mg/L	1	1	<1.0	<1.0	0.0	1.00
IR6	2021-08-03	Ag-D	mg/L	0.00004	0.00002	<0.000040	<0.000020	66.7	2.00
IR6	2021-08-03	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
IR6	2021-08-03	Al-D	mg/L	0.006	0.003	0.0157	0.0140	11.4	1.12
IR6	2021-08-03	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
IR6	2021-08-03	Alk-T	mg/L	1	1	76	75	1.3	1.01
IR6	2021-08-03	Al-T	mg/L	0.003	0.003	0.0150	0.0164	8.9	0.91
IR6	2021-08-03	As-D	mg/L	0.0002	0.0001	0.0113	0.0119	5.2	0.95
IR6	2021-08-03	As-T	mg/L	0.0001	0.0001	0.0119	0.0117	1.7	1.02

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Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
IR6	2021-08-03	Ba-D	mg/L	0.002	0.001	0.0149	0.0156	4.6	0.96
IR6	2021-08-03	Ba-T	mg/L	0.001	0.001	0.0156	0.0153	1.9	1.02
IR6	2021-08-03	B-D	mg/L	0.1	0.05	<0.10	0.065	26.1	0.77
IR6	2021-08-03	Be-D	mg/L	0.0002	0.0001	<0.00020	<0.00010	66.7	2.00
IR6	2021-08-03	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
IR6	2021-08-03	Bicarb	mg/L	1	1	92	92	0.0	1.00
IR6	2021-08-03	Bi-D	mg/L	0.002	0.001	<0.0020	<0.0010	66.7	2.00
IR6	2021-08-03	Bi-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
IR6	2021-08-03	B-T	mg/L	0.05	0.05	0.063	0.062	1.6	1.02
IR6	2021-08-03	Ca-D	mg/L	0.1	0.05	27.2	28.6	5.0	0.95
IR6	2021-08-03	Carb	mg/L	1	1	<1.0	<1.0	0.0	1.00
IR6	2021-08-03	Ca-T	mg/L	0.05	0.05	28.4	27.4	3.6	1.04
IR6	2021-08-03	Cd-D	mg/L	0.00002	0.00001	<0.000020	0.000010	0.0	1.00
IR6	2021-08-03	Cd-T	mg/L	0.00001	0.00001	0.000011	0.000011	0.0	1.00
IR6	2021-08-03	Cl-D	mg/L	1	1	2.2	2.1	4.7	1.05
IR6	2021-08-03	Co-D	mg/L	0.0004	0.0002	<0.00040	<0.00020	66.7	2.00
IR6	2021-08-03	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
IR6	2021-08-03	Cr-D	mg/L	0.002	0.001	<0.0020	<0.0010	66.7	2.00
IR6	2021-08-03	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
IR6	2021-08-03	Cu-D	mg/L	0.0004	0.0002	0.00042	0.00045	6.9	0.93
IR6	2021-08-03	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
IR6	2021-08-03	DOC	mg/L	0.5	0.5	1.6	1.8	11.8	0.89
IR6	2021-08-03	Fe-D	mg/L	0.01	0.005	<0.010	<0.0050	66.7	2.00
IR6	2021-08-03	Fe-T	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
IR6	2021-08-03	Hard-D	mg/L	0.5	0.5	78.5	82.3	4.7	0.95
IR6	2021-08-03	Hard-T	mg/L	0.5	0.5	81.5	79.0	3.1	1.03
IR6	2021-08-03	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
IR6	2021-08-03	Hg-T	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
IR6	2021-08-03	Hydrox	mg/L	1	1	<1.0	<1.0	0.0	1.00
IR6	2021-08-03	K-D	mg/L	0.1	0.05	0.39	0.378	3.1	1.03
IR6	2021-08-03	K-T	mg/L	0.05	0.05	0.398	0.394	1.0	1.01
IR6	2021-08-03	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
IR6	2021-08-03	Mg-D	mg/L	0.1	0.05	2.54	2.60	2.3	0.98
IR6	2021-08-03	Mg-T	mg/L	0.05	0.05	2.60	2.57	1.2	1.01
IR6	2021-08-03	Mn-D	mg/L	0.002	0.001	<0.0020	<0.0010	66.7	2.00
IR6	2021-08-03	Mn-T	mg/L	0.001	0.001	0.0011	0.0012	8.7	0.92
IR6	2021-08-03	Mo-D	mg/L	0.002	0.001	<0.0020	<0.0010	66.7	2.00
IR6	2021-08-03	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
IR6	2021-08-03	Na-D	mg/L	0.1	0.05	3.77	3.78	0.3	1.00
IR6	2021-08-03	Na-T	mg/L	0.05	0.05	3.80	3.84	1.0	0.99
IR6	2021-08-03	Ni-D	mg/L	0.002	0.001	<0.0020	<0.0010	66.7	2.00
IR6	2021-08-03	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
IR6	2021-08-03	N-NH3	mg/L	0.015	0.015	0.10	0.15	40.0	0.67
IR6	2021-08-03	N-NO2	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
IR6	2021-08-03	N-NO3	mg/L	0.02	0.02	0.067	0.057	16.1	1.18
IR6	2021-08-03	N-NO3	mg/L	0.02	0.02	0.067	0.057	16.1	1.18
IR6	2021-08-03	Pb-D	mg/L	0.0004	0.0002	<0.00040	<0.00020	66.7	2.00
IR6	2021-08-03	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
IR6	2021-08-03	P-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
IR6	2021-08-03	P-T	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
IR6	2021-08-03	Sb-D	mg/L	0.001	0.0005	<0.0010	<0.00050	66.7	2.00
IR6	2021-08-03	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
IR6	2021-08-03	S-D	mg/L	6	3	<6.0	3.7	20.9	0.81
IR6	2021-08-03	Se-D	mg/L	0.0002	0.0001	<0.00020	0.00017	51.9	0.59
IR6	2021-08-03	Se-T	mg/L	0.0001	0.0001	0.00015	0.00017	12.5	0.88
IR6	2021-08-03	Si-D	mg/L	0.2	0.1	3.04	3.15	3.6	0.97
IR6	2021-08-03	Si-T	mg/L	0.1	0.1	3.11	2.99	3.9	1.04
IR6	2021-08-03	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
IR6	2021-08-03	SO4-D	mg/L	1	1	13	13	0.0	1.00
IR6	2021-08-03	Sr-D	mg/L	0.002	0.001	0.0991	0.103	3.9	0.96
IR6	2021-08-03	Sr-T	mg/L	0.001	0.001	0.105	0.104	1.0	1.01
IR6	2021-08-03	S-T	mg/L	3	3	3.9	3.9	0.0	1.00
IR6	2021-08-03	Ti-D	mg/L	0.01	0.005	<0.010	<0.0050	66.7	2.00
IR6	2021-08-03	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
IR6	2021-08-03	Tl-D	mg/L	0.00002	0.00001	<0.000020	<0.000010	66.7	2.00
IR6	2021-08-03	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
IR6	2021-08-03	TSS	mg/L	1	1	<1.0	<1.0	0.0	1.00

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Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
IR6	2021-08-03	U-D	mg/L	0.0002	0.0001	<0.00020	0.00014	33.3	0.71
IR6	2021-08-03	U-T	mg/L	0.0001	0.0001	0.00015	0.00014	6.9	1.07
IR6	2021-08-03	V-D	mg/L	0.01	0.005	<0.010	<0.0050	66.7	2.00
IR6	2021-08-03	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
IR6	2021-08-03	Zn-D	mg/L	0.01	0.005	<0.010	<0.0050	66.7	2.00
IR6	2021-08-03	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
IR6	2021-08-03	Zr-D	mg/L	0.0002	0.0001	<0.00020	<0.00010	66.7	2.00
IR6	2021-08-03	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLE	2021-06-08	SO4-D	mg/L	10	10	320	350	9.0	0.91
LLE	2021-06-29	SO4-D	mg/L	10	10	620	620	0.0	1.00
LLE	2021-11-08	SO4-D	mg/L	10	10	130	130	0.0	1.00
LLE	2021-12-13	SO4-D	mg/L	1	1	83	82	1.2	1.01
LLE	2022-02-22	Cl-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
LLE	2022-02-22	SO4-D	mg/L	1	1	86	89	3.4	0.97
LLM1	2021-04-27	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
LLM1	2021-04-27	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
LLM1	2021-04-27	Al-D	mg/L	0.003	0.003	0.0168	0.0171	1.8	0.98
LLM1	2021-04-27	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
LLM1	2021-04-27	Alk-T	mg/L	1	1	26	26	0.0	1.00
LLM1	2021-04-27	Al-T	mg/L	0.003	0.003	0.0219	0.0232	5.8	0.94
LLM1	2021-04-27	As-D	mg/L	0.0001	0.0001	0.00030	0.00028	6.9	1.07
LLM1	2021-04-27	As-T	mg/L	0.0001	0.0001	0.00033	0.00031	6.2	1.06
LLM1	2021-04-27	Ba-D	mg/L	0.001	0.001	0.0038	0.0038	0.0	1.00
LLM1	2021-04-27	Ba-T	mg/L	0.001	0.001	0.0038	0.0039	2.6	0.97
LLM1	2021-04-27	B-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
LLM1	2021-04-27	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM1	2021-04-27	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM1	2021-04-27	Bicarb	mg/L	1	1	31	31	0.0	1.00
LLM1	2021-04-27	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM1	2021-04-27	Bi-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM1	2021-04-27	B-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
LLM1	2021-04-27	Ca-D	mg/L	0.05	0.05	18.2	18.0	1.1	1.01
LLM1	2021-04-27	Carb	mg/L	1	1	<1.0	<1.0	0.0	1.00
LLM1	2021-04-27	Ca-T	mg/L	0.05	0.05	17.8	18.0	1.1	0.99
LLM1	2021-04-27	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
LLM1	2021-04-27	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
LLM1	2021-04-27	Cl-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
LLM1	2021-04-27	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
LLM1	2021-04-27	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
LLM1	2021-04-27	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM1	2021-04-27	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM1	2021-04-27	Cu-D	mg/L	0.0002	0.0002	0.00030	0.00029	3.4	1.03
LLM1	2021-04-27	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
LLM1	2021-04-27	DOC	mg/L	0.5	0.5	2.7	2.6	3.8	1.04
LLM1	2021-04-27	Fe-D	mg/L	0.005	0.005	0.0360	0.0366	1.7	0.98
LLM1	2021-04-27	Fe-T	mg/L	0.01	0.01	0.051	0.051	0.0	1.00
LLM1	2021-04-27	Hard-D	mg/L	0.5	0.5	54.9	54.5	0.7	1.01
LLM1	2021-04-27	Hard-T	mg/L	0.5	0.5	54.1	54.9	1.5	0.99
LLM1	2021-04-27	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
LLM1	2021-04-27	Hg-T	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
LLM1	2021-04-27	Hydrox	mg/L	1	1	<1.0	<1.0	0.0	1.00
LLM1	2021-04-27	K-D	mg/L	0.05	0.05	0.216	0.218	0.9	0.99
LLM1	2021-04-27	K-T	mg/L	0.05	0.05	0.222	0.225	1.3	0.99
LLM1	2021-04-27	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
LLM1	2021-04-27	Mg-D	mg/L	0.05	0.05	2.30	2.29	0.4	1.00
LLM1	2021-04-27	Mg-T	mg/L	0.05	0.05	2.32	2.40	3.4	0.97
LLM1	2021-04-27	Mn-D	mg/L	0.001	0.001	0.0071	0.0071	0.0	1.00
LLM1	2021-04-27	Mn-T	mg/L	0.001	0.001	0.0109	0.0112	2.7	0.97
LLM1	2021-04-27	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM1	2021-04-27	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM1	2021-04-27	Na-D	mg/L	0.05	0.05	5.78	5.78	0.0	1.00
LLM1	2021-04-27	Na-T	mg/L	0.05	0.05	5.84	5.98	2.4	0.98
LLM1	2021-04-27	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM1	2021-04-27	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM1	2021-04-27	N-NO2	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM1	2021-04-27	N-NO23	mg/L	0.02	0.02	<0.020	<0.020	0.0	1.00
LLM1	2021-04-27	N-NO3	mg/L	0.02	0.02	<0.020	<0.020	0.0	1.00

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Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
LLM1	2021-04-27	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
LLM1	2021-04-27	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
LLM1	2021-04-27	P-D	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
LLM1	2021-04-27	P-T	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
LLM1	2021-04-27	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
LLM1	2021-04-27	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
LLM1	2021-04-27	S-D	mg/L	3	3	13.4	13.6	1.5	0.99
LLM1	2021-04-27	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM1	2021-04-27	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM1	2021-04-27	Si-D	mg/L	0.1	0.1	3.08	3.07	0.3	1.00
LLM1	2021-04-27	Si-T	mg/L	0.1	0.1	3.11	3.14	1.0	0.99
LLM1	2021-04-27	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM1	2021-04-27	SO4-D	mg/L	1	1	42	42	0.0	1.00
LLM1	2021-04-27	Sr-D	mg/L	0.001	0.001	0.124	0.126	1.6	0.98
LLM1	2021-04-27	Sr-T	mg/L	0.001	0.001	0.121	0.124	2.4	0.98
LLM1	2021-04-27	S-T	mg/L	3	3	14.3	13.7	4.3	1.04
LLM1	2021-04-27	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM1	2021-04-27	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM1	2021-04-27	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
LLM1	2021-04-27	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
LLM1	2021-04-27	Turb	NTU	0.1	0.1	0.23	0.22	4.4	1.05
LLM1	2021-04-27	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM1	2021-04-27	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM1	2021-04-27	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM1	2021-04-27	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM1	2021-04-27	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM1	2021-04-27	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM1	2021-04-27	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM1	2021-04-27	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM1	2021-07-12	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
LLM1	2021-07-12	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
LLM1	2021-07-12	Al-D	mg/L	0.003	0.003	0.0108	0.0157	37.0	0.69
LLM1	2021-07-12	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
LLM1	2021-07-12	Alk-T	mg/L	1	1	33	35	5.9	0.94
LLM1	2021-07-12	Al-T	mg/L	0.003	0.003	0.0090	0.0090	0.0	1.00
LLM1	2021-07-12	As-D	mg/L	0.0001	0.0001	0.00051	0.00051	0.0	1.00
LLM1	2021-07-12	As-T	mg/L	0.0001	0.0001	0.00048	0.00048	0.0	1.00
LLM1	2021-07-12	Ba-D	mg/L	0.001	0.001	0.0049	0.0049	0.0	1.00
LLM1	2021-07-12	Ba-T	mg/L	0.001	0.001	0.0049	0.0050	2.0	0.98
LLM1	2021-07-12	B-D	mg/L	0.05	0.05	0.062	0.060	3.3	1.03
LLM1	2021-07-12	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM1	2021-07-12	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM1	2021-07-12	Bicarb	mg/L	1	1	40	43	7.2	0.93
LLM1	2021-07-12	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM1	2021-07-12	Bi-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM1	2021-07-12	B-T	mg/L	0.05	0.05	0.065	0.063	3.1	1.03
LLM1	2021-07-12	Ca-D	mg/L	0.05	0.05	25.0	25.0	0.0	1.00
LLM1	2021-07-12	Carb	mg/L	1	1	<1.0	<1.0	0.0	1.00
LLM1	2021-07-12	Ca-T	mg/L	0.05	0.05	25.9	25.2	2.7	1.03
LLM1	2021-07-12	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
LLM1	2021-07-12	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
LLM1	2021-07-12	Chlr-a	ug/L	0.5	0.5	0.76	<0.50	101.0	3.04
LLM1	2021-07-12	Cl-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
LLM1	2021-07-12	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
LLM1	2021-07-12	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
LLM1	2021-07-12	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM1	2021-07-12	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM1	2021-07-12	Cu-D	mg/L	0.0002	0.0002	0.00039	0.00043	9.8	0.91
LLM1	2021-07-12	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
LLM1	2021-07-12	DOC	mg/L	0.5	0.5	2.2	2.3	4.4	0.96
LLM1	2021-07-12	Fe-D	mg/L	0.005	0.005	0.0165	0.0171	3.6	0.96
LLM1	2021-07-12	Fe-T	mg/L	0.01	0.01	0.026	0.024	8.0	1.08
LLM1	2021-07-12	Hard-D	mg/L	0.5	0.5	75.3	75.5	0.3	1.00
LLM1	2021-07-12	Hard-T	mg/L	0.5	0.5	78.1	76.2	2.5	1.02
LLM1	2021-07-12	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
LLM1	2021-07-12	Hg-T	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
LLM1	2021-07-12	Hydrox	mg/L	1	1	<1.0	<1.0	0.0	1.00

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
LLM1	2021-07-12	K-D	mg/L	0.05	0.05	0.289	0.289	0.0	1.00
LLM1	2021-07-12	K-T	mg/L	0.05	0.05	0.303	0.303	0.0	1.00
LLM1	2021-07-12	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
LLM1	2021-07-12	Mg-D	mg/L	0.05	0.05	3.15	3.15	0.0	1.00
LLM1	2021-07-12	Mg-T	mg/L	0.05	0.05	3.26	3.20	1.9	1.02
LLM1	2021-07-12	Mn-D	mg/L	0.001	0.001	0.0034	0.0033	3.0	1.03
LLM1	2021-07-12	Mn-T	mg/L	0.001	0.001	0.0081	0.0079	2.5	1.03
LLM1	2021-07-12	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM1	2021-07-12	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM1	2021-07-12	Na-D	mg/L	0.05	0.05	8.19	8.05	1.7	1.02
LLM1	2021-07-12	Na-T	mg/L	0.05	0.05	8.61	8.44	2.0	1.02
LLM1	2021-07-12	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM1	2021-07-12	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM1	2021-07-12	N-NO2	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM1	2021-07-12	N-NO23	mg/L	0.02	0.02	<0.020	<0.020	0.0	1.00
LLM1	2021-07-12	N-NO3	mg/L	0.02	0.02	<0.020	<0.020	0.0	1.00
LLM1	2021-07-12	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
LLM1	2021-07-12	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
LLM1	2021-07-12	P-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
LLM1	2021-07-12	P-T	mg/L	0.003	0.003	<0.0030	0.0056	115.5	0.27
LLM1	2021-07-12	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
LLM1	2021-07-12	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
LLM1	2021-07-12	S-D	mg/L	3	3	19.1	20.5	7.1	0.93
LLM1	2021-07-12	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM1	2021-07-12	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM1	2021-07-12	Si-D	mg/L	0.1	0.1	2.81	2.80	0.4	1.00
LLM1	2021-07-12	Si-T	mg/L	0.1	0.1	2.78	2.75	1.1	1.01
LLM1	2021-07-12	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM1	2021-07-12	SO4-D	mg/L	1	1	66	59	11.2	1.12
LLM1	2021-07-12	Sr-D	mg/L	0.001	0.001	0.165	0.161	2.5	1.02
LLM1	2021-07-12	Sr-T	mg/L	0.001	0.001	0.174	0.171	1.7	1.02
LLM1	2021-07-12	S-T	mg/L	3	3	20.9	19.8	5.4	1.06
LLM1	2021-07-12	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM1	2021-07-12	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM1	2021-07-12	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
LLM1	2021-07-12	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
LLM1	2021-07-12	Turb	NTU	0.1	0.1	0.15	0.16	6.5	0.94
LLM1	2021-07-12	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM1	2021-07-12	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM1	2021-07-12	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM1	2021-07-12	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM1	2021-07-12	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM1	2021-07-12	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM1	2021-07-12	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM1	2021-07-12	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM1	2021-10-06	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
LLM1	2021-10-06	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
LLM1	2021-10-06	Al-D	mg/L	0.003	0.003	0.0045	0.0047	4.3	0.96
LLM1	2021-10-06	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
LLM1	2021-10-06	Alk-T	mg/L	1	1	43	42	2.4	1.02
LLM1	2021-10-06	Al-T	mg/L	0.003	0.003	0.0057	0.0060	5.1	0.95
LLM1	2021-10-06	As-D	mg/L	0.0001	0.0001	0.00051	0.00051	0.0	1.00
LLM1	2021-10-06	As-T	mg/L	0.0001	0.0001	0.00055	0.00054	1.8	1.02
LLM1	2021-10-06	Ba-D	mg/L	0.001	0.001	0.0063	0.0063	0.0	1.00
LLM1	2021-10-06	Ba-T	mg/L	0.001	0.001	0.0063	0.0062	1.6	1.02
LLM1	2021-10-06	B-D	mg/L	0.05	0.05	0.076	0.077	1.3	0.99
LLM1	2021-10-06	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM1	2021-10-06	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM1	2021-10-06	Bicarb	mg/L	1	1	52	51	1.9	1.02
LLM1	2021-10-06	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM1	2021-10-06	Bi-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM1	2021-10-06	B-T	mg/L	0.05	0.05	0.080	0.079	1.3	1.01
LLM1	2021-10-06	Ca-D	mg/L	0.05	0.05	33.6	34.5	2.6	0.97
LLM1	2021-10-06	Carb	mg/L	1	1	<1.0	<1.0	0.0	1.00
LLM1	2021-10-06	Ca-T	mg/L	0.05	0.05	35.3	34.2	3.2	1.03
LLM1	2021-10-06	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
LLM1	2021-10-06	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
LLM1	2021-10-06	Chlr-a	ug/L	0.5	0.5	0.84	0.79	6.1	1.06
LLM1	2021-10-06	Cl-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
LLM1	2021-10-06	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
LLM1	2021-10-06	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
LLM1	2021-10-06	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM1	2021-10-06	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM1	2021-10-06	Cu-D	mg/L	0.0002	0.0002	0.00025	0.00027	7.7	0.93
LLM1	2021-10-06	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
LLM1	2021-10-06	DOC	mg/L	0.5	0.5	2.2	2.1	4.7	1.05
LLM1	2021-10-06	Fe-D	mg/L	0.005	0.005	0.0093	0.0093	0.0	1.00
LLM1	2021-10-06	Fe-T	mg/L	0.01	0.01	0.018	0.019	5.4	0.95
LLM1	2021-10-06	Hard-D	mg/L	0.5	0.5	101	103	2.0	0.98
LLM1	2021-10-06	Hard-T	mg/L	0.5	0.5	105	102	2.9	1.03
LLM1	2021-10-06	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
LLM1	2021-10-06	Hg-T	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
LLM1	2021-10-06	Hydrox	mg/L	1	1	<1.0	<1.0	0.0	1.00
LLM1	2021-10-06	K-D	mg/L	0.05	0.05	0.374	0.377	0.8	0.99
LLM1	2021-10-06	K-T	mg/L	0.05	0.05	0.390	0.374	4.2	1.04
LLM1	2021-10-06	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
LLM1	2021-10-06	Mg-D	mg/L	0.05	0.05	4.07	4.21	3.4	0.97
LLM1	2021-10-06	Mg-T	mg/L	0.05	0.05	4.18	4.07	2.7	1.03
LLM1	2021-10-06	Mn-D	mg/L	0.001	0.001	0.0027	0.0026	3.8	1.04
LLM1	2021-10-06	Mn-T	mg/L	0.001	0.001	0.0102	0.0101	1.0	1.01
LLM1	2021-10-06	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM1	2021-10-06	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM1	2021-10-06	Na-D	mg/L	0.05	0.05	10.7	11.0	2.8	0.97
LLM1	2021-10-06	Na-T	mg/L	0.05	0.05	10.8	10.6	1.9	1.02
LLM1	2021-10-06	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM1	2021-10-06	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM1	2021-10-06	N-NO2	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM1	2021-10-06	N-NO23	mg/L	0.02	0.02	<0.020	<0.020	0.0	1.00
LLM1	2021-10-06	N-NO3	mg/L	0.02	0.02	<0.020	<0.020	0.0	1.00
LLM1	2021-10-06	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
LLM1	2021-10-06	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
LLM1	2021-10-06	P-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
LLM1	2021-10-06	P-T	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
LLM1	2021-10-06	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
LLM1	2021-10-06	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
LLM1	2021-10-06	S-D	mg/L	3	3	28.1	28.0	0.4	1.00
LLM1	2021-10-06	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM1	2021-10-06	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM1	2021-10-06	Si-D	mg/L	0.1	0.1	3.13	3.19	1.9	0.98
LLM1	2021-10-06	Si-T	mg/L	0.1	0.1	3.17	3.01	5.2	1.05
LLM1	2021-10-06	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM1	2021-10-06	SO4-D	mg/L	1	1	94	93	1.1	1.01
LLM1	2021-10-06	Sr-D	mg/L	0.001	0.001	0.245	0.246	0.4	1.00
LLM1	2021-10-06	Sr-T	mg/L	0.001	0.001	0.241	0.229	5.1	1.05
LLM1	2021-10-06	S-T	mg/L	3	3	30.2	29.4	2.7	1.03
LLM1	2021-10-06	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM1	2021-10-06	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM1	2021-10-06	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
LLM1	2021-10-06	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
LLM1	2021-10-06	Turb	NTU	0.1	0.1	0.21	0.19	10.0	1.11
LLM1	2021-10-06	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM1	2021-10-06	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM1	2021-10-06	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM1	2021-10-06	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM1	2021-10-06	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM1	2021-10-06	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM1	2021-10-06	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM1	2021-10-06	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM1	2021-10-27	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
LLM1	2021-10-27	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
LLM1	2021-10-27	Al-D	mg/L	0.003	0.003	0.0447	0.0458	2.4	0.98
LLM1	2021-10-27	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
LLM1	2021-10-27	Alk-T	mg/L	1	1	14	14	0.0	1.00
LLM1	2021-10-27	Al-T	mg/L	0.003	0.003	0.0583	0.0585	0.3	1.00

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
LLM1	2021-10-27	As-D	mg/L	0.0001	0.0001	0.00032	0.00034	6.1	0.94
LLM1	2021-10-27	As-T	mg/L	0.0001	0.0001	0.00038	0.00036	5.4	1.06
LLM1	2021-10-27	Ba-D	mg/L	0.001	0.001	0.0024	0.0023	4.3	1.04
LLM1	2021-10-27	Ba-T	mg/L	0.001	0.001	0.0024	0.0024	0.0	1.00
LLM1	2021-10-27	B-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
LLM1	2021-10-27	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM1	2021-10-27	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM1	2021-10-27	Bicarb	mg/L	1	1	16	17	6.1	0.94
LLM1	2021-10-27	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM1	2021-10-27	Bi-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM1	2021-10-27	B-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
LLM1	2021-10-27	Ca-D	mg/L	0.05	0.05	7.80	7.94	1.8	0.98
LLM1	2021-10-27	Carb	mg/L	1	1	<1.0	<1.0	0.0	1.00
LLM1	2021-10-27	Ca-T	mg/L	0.05	0.05	7.82	7.72	1.3	1.01
LLM1	2021-10-27	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
LLM1	2021-10-27	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
LLM1	2021-10-27	Cl-D	mg/L	1	1	1.3	1.1	16.7	1.18
LLM1	2021-10-27	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
LLM1	2021-10-27	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
LLM1	2021-10-27	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM1	2021-10-27	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM1	2021-10-27	Cu-D	mg/L	0.0002	0.0002	0.00054	0.00056	3.6	0.96
LLM1	2021-10-27	Cu-T	mg/L	0.0005	0.0005	0.00062	0.00060	3.3	1.03
LLM1	2021-10-27	DOC	mg/L	0.5	0.5	4.4	4.5	2.2	0.98
LLM1	2021-10-27	Fe-D	mg/L	0.005	0.005	0.0660	0.0674	2.1	0.98
LLM1	2021-10-27	Fe-T	mg/L	0.01	0.01	0.101	0.096	5.1	1.05
LLM1	2021-10-27	Hard-D	mg/L	0.5	0.5	24.7	25.2	2.0	0.98
LLM1	2021-10-27	Hard-T	mg/L	0.5	0.5	24.7	24.5	0.8	1.01
LLM1	2021-10-27	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
LLM1	2021-10-27	Hg-T	mg/L	0.0000019	0.0000019	0.0000020	0.0000021	4.9	0.95
LLM1	2021-10-27	Hydrox	mg/L	1	1	<1.0	<1.0	0.0	1.00
LLM1	2021-10-27	K-D	mg/L	0.05	0.05	0.178	0.182	2.2	0.98
LLM1	2021-10-27	K-T	mg/L	0.05	0.05	0.174	0.173	0.6	1.01
LLM1	2021-10-27	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
LLM1	2021-10-27	Mg-D	mg/L	0.05	0.05	1.28	1.32	3.1	0.97
LLM1	2021-10-27	Mg-T	mg/L	0.05	0.05	1.25	1.26	0.8	0.99
LLM1	2021-10-27	Mn-D	mg/L	0.001	0.001	0.0051	0.0051	0.0	1.00
LLM1	2021-10-27	Mn-T	mg/L	0.001	0.001	0.0073	0.0071	2.8	1.03
LLM1	2021-10-27	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM1	2021-10-27	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM1	2021-10-27	Na-D	mg/L	0.05	0.05	2.43	2.44	0.4	1.00
LLM1	2021-10-27	Na-T	mg/L	0.05	0.05	2.32	2.37	2.1	0.98
LLM1	2021-10-27	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM1	2021-10-27	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM1	2021-10-27	N-NO2	mg/L	0.005	0.005	0.0050	<0.0050	66.7	2.00
LLM1	2021-10-27	N-NO23	mg/L	0.02	0.02	<0.020	<0.020	0.0	1.00
LLM1	2021-10-27	N-NO3	mg/L	0.02	0.02	<0.020	<0.020	0.0	1.00
LLM1	2021-10-27	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
LLM1	2021-10-27	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
LLM1	2021-10-27	P-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
LLM1	2021-10-27	P-T	mg/L	0.003	0.003	0.0032	0.0052	47.6	0.62
LLM1	2021-10-27	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
LLM1	2021-10-27	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
LLM1	2021-10-27	S-D	mg/L	3	3	4.2	4.3	2.4	0.98
LLM1	2021-10-27	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM1	2021-10-27	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM1	2021-10-27	Si-D	mg/L	0.1	0.1	3.68	3.62	1.6	1.02
LLM1	2021-10-27	Si-T	mg/L	0.1	0.1	3.56	3.52	1.1	1.01
LLM1	2021-10-27	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM1	2021-10-27	SO4-D	mg/L	1	1	15	15	0.0	1.00
LLM1	2021-10-27	Sr-D	mg/L	0.001	0.001	0.0387	0.0404	4.3	0.96
LLM1	2021-10-27	Sr-T	mg/L	0.001	0.001	0.0392	0.0398	1.5	0.98
LLM1	2021-10-27	S-T	mg/L	3	3	4.3	4.4	2.3	0.98
LLM1	2021-10-27	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM1	2021-10-27	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM1	2021-10-27	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
LLM1	2021-10-27	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
LLM1	2021-10-27	Turb	NTU	0.1	0.1	0.69	0.73	5.6	0.95
LLM1	2021-10-27	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM1	2021-10-27	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM1	2021-10-27	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM1	2021-10-27	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM1	2021-10-27	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM1	2021-10-27	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM1	2021-10-27	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM1	2021-10-27	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM4	2021-08-04	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
LLM4	2021-08-04	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
LLM4	2021-08-04	Al-D	mg/L	0.003	0.003	0.0072	0.0089	21.1	0.81
LLM4	2021-08-04	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
LLM4	2021-08-04	Alk-T	mg/L	1	1	39	40	2.5	0.97
LLM4	2021-08-04	Al-T	mg/L	0.003	0.003	0.0085	0.0085	0.0	1.00
LLM4	2021-08-04	As-D	mg/L	0.0001	0.0001	0.00048	0.00055	13.6	0.87
LLM4	2021-08-04	As-T	mg/L	0.0001	0.0001	0.00060	0.00058	3.4	1.03
LLM4	2021-08-04	Ba-D	mg/L	0.001	0.001	0.0052	0.0053	1.9	0.98
LLM4	2021-08-04	Ba-T	mg/L	0.001	0.001	0.0057	0.0057	0.0	1.00
LLM4	2021-08-04	B-D	mg/L	0.05	0.05	0.070	0.071	1.4	0.99
LLM4	2021-08-04	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM4	2021-08-04	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM4	2021-08-04	Bicarb	mg/L	1	1	48	49	2.1	0.98
LLM4	2021-08-04	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM4	2021-08-04	Bi-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM4	2021-08-04	B-T	mg/L	0.05	0.05	0.074	0.072	2.7	1.03
LLM4	2021-08-04	Ca-D	mg/L	0.05	0.05	29.3	29.5	0.7	0.99
LLM4	2021-08-04	Carb	mg/L	1	1	<1.0	<1.0	0.0	1.00
LLM4	2021-08-04	Ca-T	mg/L	0.05	0.05	29.6	28.5	3.8	1.04
LLM4	2021-08-04	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
LLM4	2021-08-04	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
LLM4	2021-08-04	Cl-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
LLM4	2021-08-04	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
LLM4	2021-08-04	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
LLM4	2021-08-04	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM4	2021-08-04	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM4	2021-08-04	Cu-D	mg/L	0.0002	0.0002	0.00025	0.00031	21.4	0.81
LLM4	2021-08-04	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
LLM4	2021-08-04	DOC	mg/L	0.5	0.5	4.1	3.8	7.6	1.08
LLM4	2021-08-04	Fe-D	mg/L	0.005	0.005	0.0135	0.0147	8.5	0.92
LLM4	2021-08-04	Fe-T	mg/L	0.01	0.01	0.029	0.026	10.9	1.12
LLM4	2021-08-04	Hard-D	mg/L	0.5	0.5	87.8	88.4	0.7	0.99
LLM4	2021-08-04	Hard-T	mg/L	0.5	0.5	89.6	85.9	4.2	1.04
LLM4	2021-08-04	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
LLM4	2021-08-04	Hg-T	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
LLM4	2021-08-04	Hydrox	mg/L	1	1	<1.0	<1.0	0.0	1.00
LLM4	2021-08-04	K-D	mg/L	0.05	0.05	0.320	0.328	2.5	0.98
LLM4	2021-08-04	K-T	mg/L	0.05	0.05	0.346	0.335	3.2	1.03
LLM4	2021-08-04	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
LLM4	2021-08-04	Mg-D	mg/L	0.05	0.05	3.57	3.58	0.3	1.00
LLM4	2021-08-04	Mg-T	mg/L	0.05	0.05	3.83	3.60	6.2	1.06
LLM4	2021-08-04	Mn-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM4	2021-08-04	Mn-T	mg/L	0.001	0.001	0.0067	0.0065	3.0	1.03
LLM4	2021-08-04	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM4	2021-08-04	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM4	2021-08-04	Na-D	mg/L	0.05	0.05	9.19	9.10	1.0	1.01
LLM4	2021-08-04	Na-T	mg/L	0.05	0.05	9.83	9.35	5.0	1.05
LLM4	2021-08-04	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM4	2021-08-04	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM4	2021-08-04	N-NO23	mg/L	0.02	0.02	<0.020	<0.020	0.0	1.00
LLM4	2021-08-04	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
LLM4	2021-08-04	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
LLM4	2021-08-04	P-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
LLM4	2021-08-04	P-T	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
LLM4	2021-08-04	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
LLM4	2021-08-04	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
LLM4	2021-08-04	S-D	mg/L	3	3	22.4	24.1	7.3	0.93

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Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
LLM4	2021-08-04	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM4	2021-08-04	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM4	2021-08-04	Si-D	mg/L	0.1	0.1	3.06	3.08	0.7	0.99
LLM4	2021-08-04	Si-T	mg/L	0.1	0.1	3.01	2.94	2.4	1.02
LLM4	2021-08-04	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM4	2021-08-04	SO4-D	mg/L	1	1	70	75	6.9	0.93
LLM4	2021-08-04	Sr-D	mg/L	0.001	0.001	0.201	0.197	2.0	1.02
LLM4	2021-08-04	Sr-T	mg/L	0.001	0.001	0.192	0.186	3.2	1.03
LLM4	2021-08-04	S-T	mg/L	3	3	25.2	23.7	6.1	1.06
LLM4	2021-08-04	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM4	2021-08-04	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM4	2021-08-04	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
LLM4	2021-08-04	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
LLM4	2021-08-04	Turb	NTU	0.1	0.1	0.21	0.21	0.0	1.00
LLM4	2021-08-04	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM4	2021-08-04	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM4	2021-08-04	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM4	2021-08-04	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM4	2021-08-04	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM4	2021-08-04	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM4	2021-08-04	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM4	2021-08-04	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM4	2021-10-19	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
LLM4	2021-10-19	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
LLM4	2021-10-19	Al-D	mg/L	0.003	0.003	0.0054	0.0052	3.8	1.04
LLM4	2021-10-19	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
LLM4	2021-10-19	Alk-T	mg/L	1	1	42	40	4.9	1.05
LLM4	2021-10-19	Al-T	mg/L	0.003	0.003	0.0080	0.0074	7.8	1.08
LLM4	2021-10-19	As-D	mg/L	0.0001	0.0001	0.00049	0.00047	4.2	1.04
LLM4	2021-10-19	As-T	mg/L	0.0001	0.0001	0.00048	0.00047	2.1	1.02
LLM4	2021-10-19	Ba-D	mg/L	0.001	0.001	0.0059	0.0059	0.0	1.00
LLM4	2021-10-19	Ba-T	mg/L	0.001	0.001	0.0060	0.0058	3.4	1.03
LLM4	2021-10-19	B-D	mg/L	0.05	0.05	0.067	0.067	0.0	1.00
LLM4	2021-10-19	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM4	2021-10-19	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM4	2021-10-19	Bicarb	mg/L	1	1	51	49	4.0	1.04
LLM4	2021-10-19	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM4	2021-10-19	Bi-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM4	2021-10-19	B-T	mg/L	0.05	0.05	0.072	0.068	5.7	1.06
LLM4	2021-10-19	Ca-D	mg/L	0.05	0.05	32.6	31.2	4.4	1.04
LLM4	2021-10-19	Carb	mg/L	1	1	<1.0	<1.0	0.0	1.00
LLM4	2021-10-19	Ca-T	mg/L	0.05	0.05	30.4	30.2	0.7	1.01
LLM4	2021-10-19	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
LLM4	2021-10-19	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
LLM4	2021-10-19	Cl-D	mg/L	1	1	<1.0	1.2	82.4	0.42
LLM4	2021-10-19	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
LLM4	2021-10-19	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
LLM4	2021-10-19	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM4	2021-10-19	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM4	2021-10-19	Cu-D	mg/L	0.0002	0.0002	0.00020	0.00021	4.9	0.95
LLM4	2021-10-19	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
LLM4	2021-10-19	DOC	mg/L	0.5	0.5	2.3	3.0	26.4	0.77
LLM4	2021-10-19	Fe-D	mg/L	0.005	0.005	0.0110	0.0109	0.9	1.01
LLM4	2021-10-19	Fe-T	mg/L	0.01	0.01	0.023	0.024	4.3	0.96
LLM4	2021-10-19	Hard-D	mg/L	0.5	0.5	97.3	93.6	3.9	1.04
LLM4	2021-10-19	Hard-T	mg/L	0.5	0.5	91.4	90.8	0.7	1.01
LLM4	2021-10-19	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
LLM4	2021-10-19	Hg-T	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
LLM4	2021-10-19	Hydrox	mg/L	1	1	<1.0	<1.0	0.0	1.00
LLM4	2021-10-19	K-D	mg/L	0.05	0.05	0.378	0.377	0.3	1.00
LLM4	2021-10-19	K-T	mg/L	0.05	0.05	0.349	0.343	1.7	1.02
LLM4	2021-10-19	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
LLM4	2021-10-19	Mg-D	mg/L	0.05	0.05	3.85	3.80	1.3	1.01
LLM4	2021-10-19	Mg-T	mg/L	0.05	0.05	3.75	3.72	0.8	1.01
LLM4	2021-10-19	Mn-D	mg/L	0.001	0.001	0.0021	0.0020	4.9	1.05
LLM4	2021-10-19	Mn-T	mg/L	0.001	0.001	0.0096	0.0095	1.0	1.01
LLM4	2021-10-19	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00

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Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
LLM4	2021-10-19	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM4	2021-10-19	Na-D	mg/L	0.05	0.05	9.75	9.71	0.4	1.00
LLM4	2021-10-19	Na-T	mg/L	0.05	0.05	9.63	9.49	1.5	1.01
LLM4	2021-10-19	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM4	2021-10-19	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM4	2021-10-19	N-NO2	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM4	2021-10-19	N-NO23	mg/L	0.02	0.02	<0.020	<0.020	0.0	1.00
LLM4	2021-10-19	N-NO3	mg/L	0.02	0.02	<0.020	<0.020	0.0	1.00
LLM4	2021-10-19	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
LLM4	2021-10-19	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
LLM4	2021-10-19	P-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
LLM4	2021-10-19	P-T	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
LLM4	2021-10-19	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
LLM4	2021-10-19	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
LLM4	2021-10-19	S-D	mg/L	3	3	25.7	25.2	2.0	1.02
LLM4	2021-10-19	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM4	2021-10-19	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM4	2021-10-19	Si-D	mg/L	0.1	0.1	3.20	3.06	4.5	1.05
LLM4	2021-10-19	Si-T	mg/L	0.1	0.1	3.10	3.00	3.3	1.03
LLM4	2021-10-19	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM4	2021-10-19	SO4-D	mg/L	1	1	80	81	1.2	0.99
LLM4	2021-10-19	Sr-D	mg/L	0.001	0.001	0.218	0.213	2.3	1.02
LLM4	2021-10-19	Sr-T	mg/L	0.001	0.001	0.213	0.206	3.3	1.03
LLM4	2021-10-19	S-T	mg/L	3	3	26.2	25.4	3.1	1.03
LLM4	2021-10-19	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM4	2021-10-19	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM4	2021-10-19	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
LLM4	2021-10-19	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
LLM4	2021-10-19	Turb	NTU	0.1	0.1	0.23	0.20	14.0	1.15
LLM4	2021-10-19	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM4	2021-10-19	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM4	2021-10-19	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM4	2021-10-19	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM4	2021-10-19	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM4	2021-10-19	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM4	2021-10-19	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM4	2021-10-19	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLO	2021-04-19	Acidity45	mg/L	1	1	<1.0	<1.0	0.0	1.00
LLO	2021-04-19	Acidity83	mg/L	1	1	<1.0	<1.0	0.0	1.00
LLO	2021-04-19	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
LLO	2021-04-19	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
LLO	2021-04-19	Al-D	mg/L	0.003	0.003	0.0185	0.0186	0.5	0.99
LLO	2021-04-19	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
LLO	2021-04-19	Alk-T	mg/L	1	1	26	26	0.0	1.00
LLO	2021-04-19	Al-T	mg/L	0.003	0.003	0.0288	0.0246	15.7	1.17
LLO	2021-04-19	As-D	mg/L	0.0001	0.0001	0.00026	0.00026	0.0	1.00
LLO	2021-04-19	As-T	mg/L	0.0001	0.0001	0.00032	0.00029	9.8	1.10
LLO	2021-04-19	Ba-D	mg/L	0.001	0.001	0.0036	0.0036	0.0	1.00
LLO	2021-04-19	Ba-T	mg/L	0.001	0.001	0.0039	0.0037	5.3	1.05
LLO	2021-04-19	B-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
LLO	2021-04-19	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLO	2021-04-19	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLO	2021-04-19	Bicarb	mg/L	1	1	32	32	0.0	1.00
LLO	2021-04-19	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLO	2021-04-19	Bi-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLO	2021-04-19	B-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
LLO	2021-04-19	Ca-D	mg/L	0.05	0.05	17.2	17.4	1.2	0.99
LLO	2021-04-19	Carb	mg/L	1	1	<1.0	<1.0	0.0	1.00
LLO	2021-04-19	Ca-T	mg/L	0.05	0.05	18.0	17.4	3.4	1.03
LLO	2021-04-19	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
LLO	2021-04-19	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
LLO	2021-04-19	Cl-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
LLO	2021-04-19	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
LLO	2021-04-19	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
LLO	2021-04-19	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLO	2021-04-19	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLO	2021-04-19	Cu-D	mg/L	0.0002	0.0002	0.00029	0.00046	45.3	0.63

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Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
LLO	2021-04-19	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
LLO	2021-04-19	DOC	mg/L	0.5	0.5	2.5	2.6	3.9	0.96
LLO	2021-04-19	Fe-D	mg/L	0.005	0.005	0.0378	0.0401	5.9	0.94
LLO	2021-04-19	Fe-T	mg/L	0.01	0.01	0.069	0.062	10.7	1.11
LLO	2021-04-19	Hard-D	mg/L	0.5	0.5	52.3	52.6	0.6	0.99
LLO	2021-04-19	Hard-T	mg/L	0.5	0.5	54.6	52.8	3.4	1.03
LLO	2021-04-19	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
LLO	2021-04-19	Hg-T	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
LLO	2021-04-19	Hydrox	mg/L	1	1	<1.0	<1.0	0.0	1.00
LLO	2021-04-19	K-D	mg/L	0.05	0.05	0.224	0.260	14.9	0.86
LLO	2021-04-19	K-T	mg/L	0.05	0.05	0.235	0.226	3.9	1.04
LLO	2021-04-19	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
LLO	2021-04-19	Mg-D	mg/L	0.05	0.05	2.29	2.26	1.3	1.01
LLO	2021-04-19	Mg-T	mg/L	0.05	0.05	2.33	2.28	2.2	1.02
LLO	2021-04-19	Mn-D	mg/L	0.001	0.001	0.0050	0.0050	0.0	1.00
LLO	2021-04-19	Mn-T	mg/L	0.001	0.001	0.0108	0.0098	9.7	1.10
LLO	2021-04-19	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLO	2021-04-19	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLO	2021-04-19	Na-D	mg/L	0.05	0.05	5.75	5.67	1.4	1.01
LLO	2021-04-19	Na-T	mg/L	0.05	0.05	5.71	5.59	2.1	1.02
LLO	2021-04-19	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLO	2021-04-19	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLO	2021-04-19	N-NH3	mg/L	0.015	0.015	<0.015	0.056	152.8	0.13
LLO	2021-04-19	N-NO2	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLO	2021-04-19	N-NO23	mg/L	0.02	0.02	<0.020	<0.020	0.0	1.00
LLO	2021-04-19	N-NO3	mg/L	0.02	0.02	<0.020	<0.020	0.0	1.00
LLO	2021-04-19	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
LLO	2021-04-19	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
LLO	2021-04-19	P-T	mg/L	0.003	0.003	0.0030	0.0030	0.0	1.00
LLO	2021-04-19	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
LLO	2021-04-19	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
LLO	2021-04-19	S-D	mg/L	3	3	13.6	13.6	0.0	1.00
LLO	2021-04-19	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLO	2021-04-19	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLO	2021-04-19	Si-D	mg/L	0.1	0.1	3.20	3.20	0.0	1.00
LLO	2021-04-19	Si-T	mg/L	0.1	0.1	3.36	3.26	3.0	1.03
LLO	2021-04-19	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLO	2021-04-19	SO4-D	mg/L	1	1	41	44	7.1	0.93
LLO	2021-04-19	Sr-D	mg/L	0.001	0.001	0.116	0.115	0.9	1.01
LLO	2021-04-19	Sr-T	mg/L	0.001	0.001	0.121	0.117	3.4	1.03
LLO	2021-04-19	S-T	mg/L	3	3	13.9	13.6	2.2	1.02
LLO	2021-04-19	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLO	2021-04-19	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLO	2021-04-19	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
LLO	2021-04-19	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
LLO	2021-04-19	TSS	mg/L	1	1	<1.0	<1.0	0.0	1.00
LLO	2021-04-19	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLO	2021-04-19	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLO	2021-04-19	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLO	2021-04-19	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLO	2021-04-19	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLO	2021-04-19	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLO	2021-04-19	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLO	2021-04-19	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLO	2021-07-20	Acidity45	mg/L	1	1	<1.0	<1.0	0.0	1.00
LLO	2021-07-20	Acidity83	mg/L	1	1	<1.0	<1.0	0.0	1.00
LLO	2021-07-20	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
LLO	2021-07-20	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
LLO	2021-07-20	Al-D	mg/L	0.003	0.003	0.0031	<0.0030	69.6	2.07
LLO	2021-07-20	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
LLO	2021-07-20	Alk-T	mg/L	1	1	30	32	6.5	0.94
LLO	2021-07-20	Al-T	mg/L	0.003	0.003	0.0136	0.0093	37.6	1.46
LLO	2021-07-20	As-D	mg/L	0.0001	0.0001	0.00022	0.00022	0.0	1.00
LLO	2021-07-20	As-T	mg/L	0.0001	0.0001	0.00037	0.00034	8.5	1.09
LLO	2021-07-20	Ba-D	mg/L	0.001	0.001	0.0060	0.0063	4.9	0.95
LLO	2021-07-20	Ba-T	mg/L	0.001	0.001	0.0064	0.0066	3.1	0.97
LLO	2021-07-20	B-D	mg/L	0.05	0.05	0.053	0.053	0.0	1.00

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Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
LLO	2021-07-20	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLO	2021-07-20	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLO	2021-07-20	Bicarb	mg/L	1	1	36	39	8.0	0.92
LLO	2021-07-20	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLO	2021-07-20	Bi-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLO	2021-07-20	B-T	mg/L	0.05	0.05	0.053	0.054	1.9	0.98
LLO	2021-07-20	Ca-D	mg/L	0.05	0.05	23.5	23.5	0.0	1.00
LLO	2021-07-20	Carb	mg/L	1	1	<1.0	<1.0	0.0	1.00
LLO	2021-07-20	Ca-T	mg/L	0.05	0.05	24.3	24.5	0.8	0.99
LLO	2021-07-20	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
LLO	2021-07-20	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
LLO	2021-07-20	Cl-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
LLO	2021-07-20	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
LLO	2021-07-20	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
LLO	2021-07-20	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLO	2021-07-20	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLO	2021-07-20	Cu-D	mg/L	0.0002	0.0002	0.00023	0.00023	0.0	1.00
LLO	2021-07-20	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
LLO	2021-07-20	DOC	mg/L	0.5	0.5	0.96	1.5	43.9	0.64
LLO	2021-07-20	Fe-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLO	2021-07-20	Fe-T	mg/L	0.01	0.01	0.039	0.023	51.6	1.70
LLO	2021-07-20	Hard-D	mg/L	0.5	0.5	72.4	72.4	0.0	1.00
LLO	2021-07-20	Hard-T	mg/L	0.5	0.5	74.8	75.8	1.3	0.99
LLO	2021-07-20	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
LLO	2021-07-20	Hg-T	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
LLO	2021-07-20	Hydrox	mg/L	1	1	<1.0	<1.0	0.0	1.00
LLO	2021-07-20	K-D	mg/L	0.05	0.05	0.330	0.336	1.8	0.98
LLO	2021-07-20	K-T	mg/L	0.05	0.05	0.325	0.324	0.3	1.00
LLO	2021-07-20	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
LLO	2021-07-20	Mg-D	mg/L	0.05	0.05	3.32	3.31	0.3	1.00
LLO	2021-07-20	Mg-T	mg/L	0.05	0.05	3.46	3.52	1.7	0.98
LLO	2021-07-20	Mn-D	mg/L	0.001	0.001	0.0174	0.0172	1.2	1.01
LLO	2021-07-20	Mn-T	mg/L	0.001	0.001	0.0343	0.0284	18.8	1.21
LLO	2021-07-20	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLO	2021-07-20	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLO	2021-07-20	Na-D	mg/L	0.05	0.05	7.78	7.73	0.6	1.01
LLO	2021-07-20	Na-T	mg/L	0.05	0.05	7.85	8.04	2.4	0.98
LLO	2021-07-20	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLO	2021-07-20	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLO	2021-07-20	N-NH3	mg/L	0.015	0.015	<0.015	<0.015	0.0	1.00
LLO	2021-07-20	N-NO2	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLO	2021-07-20	N-NO23	mg/L	0.02	0.02	0.296	0.296	0.0	1.00
LLO	2021-07-20	N-NO3	mg/L	0.02	0.02	0.296	0.296	0.0	1.00
LLO	2021-07-20	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
LLO	2021-07-20	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
LLO	2021-07-20	P-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
LLO	2021-07-20	P-T	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
LLO	2021-07-20	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
LLO	2021-07-20	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
LLO	2021-07-20	S-D	mg/L	3	3	17.9	18.0	0.6	0.99
LLO	2021-07-20	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLO	2021-07-20	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLO	2021-07-20	Si-D	mg/L	0.1	0.1	2.97	2.98	0.3	1.00
LLO	2021-07-20	Si-T	mg/L	0.1	0.1	3.00	3.04	1.3	0.99
LLO	2021-07-20	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLO	2021-07-20	SO4-D	mg/L	1	1	65	66	1.5	0.98
LLO	2021-07-20	Sr-D	mg/L	0.001	0.001	0.157	0.157	0.0	1.00
LLO	2021-07-20	Sr-T	mg/L	0.001	0.001	0.160	0.167	4.3	0.96
LLO	2021-07-20	S-T	mg/L	3	3	19.2	18.8	2.1	1.02
LLO	2021-07-20	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLO	2021-07-20	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLO	2021-07-20	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
LLO	2021-07-20	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
LLO	2021-07-20	TSS	mg/L	1	1	<1.0	<1.0	0.0	1.00
LLO	2021-07-20	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLO	2021-07-20	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLO	2021-07-20	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
LLO	2021-07-20	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLO	2021-07-20	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLO	2021-07-20	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLO	2021-07-20	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLO	2021-07-20	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLO	2021-10-25	Acidity45	mg/L	1	1	<1.0	<1.0	0.0	1.00
LLO	2021-10-25	Acidity83	mg/L	1	1	3.0	3.9	26.1	0.77
LLO	2021-10-25	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
LLO	2021-10-25	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
LLO	2021-10-25	Al-D	mg/L	0.003	0.003	0.0161	0.0175	8.3	0.92
LLO	2021-10-25	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
LLO	2021-10-25	Alk-T	mg/L	1	1	36	35	2.8	1.03
LLO	2021-10-25	Al-T	mg/L	0.003	0.003	0.0577	0.0384	40.2	1.50
LLO	2021-10-25	As-D	mg/L	0.0001	0.0001	0.00042	0.00036	15.4	1.17
LLO	2021-10-25	As-T	mg/L	0.0001	0.0001	0.00051	0.00049	4.0	1.04
LLO	2021-10-25	Ba-D	mg/L	0.001	0.001	0.0061	0.0058	5.0	1.05
LLO	2021-10-25	Ba-T	mg/L	0.001	0.001	0.0062	0.0062	0.0	1.00
LLO	2021-10-25	B-D	mg/L	0.05	0.05	0.065	0.063	3.1	1.03
LLO	2021-10-25	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLO	2021-10-25	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLO	2021-10-25	Bicarb	mg/L	1	1	44	42	4.7	1.05
LLO	2021-10-25	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLO	2021-10-25	Bi-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLO	2021-10-25	B-T	mg/L	0.05	0.05	0.063	0.066	4.7	0.95
LLO	2021-10-25	Ca-D	mg/L	0.05	0.05	26.7	26.8	0.4	1.00
LLO	2021-10-25	Carb	mg/L	1	1	<1.0	<1.0	0.0	1.00
LLO	2021-10-25	Ca-T	mg/L	0.05	0.05	26.2	26.7	1.9	0.98
LLO	2021-10-25	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
LLO	2021-10-25	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
LLO	2021-10-25	Cl-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
LLO	2021-10-25	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
LLO	2021-10-25	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
LLO	2021-10-25	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLO	2021-10-25	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLO	2021-10-25	Cu-D	mg/L	0.0002	0.0002	0.00037	0.00040	7.8	0.93
LLO	2021-10-25	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
LLO	2021-10-25	DOC	mg/L	0.5	0.5	2.9	3.1	6.7	0.94
LLO	2021-10-25	Fe-D	mg/L	0.005	0.005	0.0313	0.0314	0.3	1.00
LLO	2021-10-25	Fe-T	mg/L	0.01	0.01	0.122	0.076	46.5	1.61
LLO	2021-10-25	Hard-D	mg/L	0.5	0.5	80.9	81.0	0.1	1.00
LLO	2021-10-25	Hard-T	mg/L	0.5	0.5	79.7	81.7	2.5	0.98
LLO	2021-10-25	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
LLO	2021-10-25	Hg-T	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
LLO	2021-10-25	Hydrox	mg/L	1	1	<1.0	<1.0	0.0	1.00
LLO	2021-10-25	K-D	mg/L	0.05	0.05	0.352	0.347	1.4	1.01
LLO	2021-10-25	K-T	mg/L	0.05	0.05	0.375	0.381	1.6	0.98
LLO	2021-10-25	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
LLO	2021-10-25	Mg-D	mg/L	0.05	0.05	3.44	3.44	0.0	1.00
LLO	2021-10-25	Mg-T	mg/L	0.05	0.05	3.50	3.63	3.6	0.96
LLO	2021-10-25	Mn-D	mg/L	0.001	0.001	0.0063	0.0064	1.6	0.98
LLO	2021-10-25	Mn-T	mg/L	0.001	0.001	0.0223	0.0157	34.7	1.42
LLO	2021-10-25	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLO	2021-10-25	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLO	2021-10-25	Na-D	mg/L	0.05	0.05	8.06	8.09	0.4	1.00
LLO	2021-10-25	Na-T	mg/L	0.05	0.05	8.26	8.51	3.0	0.97
LLO	2021-10-25	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLO	2021-10-25	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLO	2021-10-25	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
LLO	2021-10-25	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
LLO	2021-10-25	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
LLO	2021-10-25	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
LLO	2021-10-25	S-D	mg/L	3	3	22.9	21.9	4.5	1.05
LLO	2021-10-25	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLO	2021-10-25	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLO	2021-10-25	Si-D	mg/L	0.1	0.1	3.29	3.32	0.9	0.99
LLO	2021-10-25	Si-T	mg/L	0.1	0.1	3.37	3.41	1.2	0.99
LLO	2021-10-25	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00

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Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
LLO	2021-10-25	SO4-D	mg/L	1	1	71	72	1.4	0.99
LLO	2021-10-25	Sr-D	mg/L	0.001	0.001	0.174	0.173	0.6	1.01
LLO	2021-10-25	Sr-T	mg/L	0.001	0.001	0.174	0.181	3.9	0.96
LLO	2021-10-25	S-T	mg/L	3	3	22.2	23.6	6.1	0.94
LLO	2021-10-25	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLO	2021-10-25	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLO	2021-10-25	TI-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
LLO	2021-10-25	TI-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
LLO	2021-10-25	TSS	mg/L	1	1	1.6	<1.0	104.8	3.20
LLO	2021-10-25	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLO	2021-10-25	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLO	2021-10-25	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLO	2021-10-25	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLO	2021-10-25	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLO	2021-10-25	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLO	2021-10-25	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLO	2021-10-25	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LQL4	2021-04-20	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
LQL4	2021-04-20	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
LQL4	2021-04-20	Al-D	mg/L	0.003	0.003	0.0295	0.0250	16.5	1.18
LQL4	2021-04-20	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
LQL4	2021-04-20	Alk-T	mg/L	1	1	34	33	3.0	1.03
LQL4	2021-04-20	Al-T	mg/L	0.003	0.003	0.0327	0.0349	6.5	0.94
LQL4	2021-04-20	As-D	mg/L	0.0001	0.0001	0.00074	0.00074	0.0	1.00
LQL4	2021-04-20	As-T	mg/L	0.0001	0.0001	0.00080	0.00081	1.2	0.99
LQL4	2021-04-20	Ba-D	mg/L	0.001	0.001	0.0038	0.0037	2.7	1.03
LQL4	2021-04-20	Ba-T	mg/L	0.001	0.001	0.0039	0.0038	2.6	1.03
LQL4	2021-04-20	B-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
LQL4	2021-04-20	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LQL4	2021-04-20	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LQL4	2021-04-20	Bicarb	mg/L	1	1	41	40	2.5	1.02
LQL4	2021-04-20	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LQL4	2021-04-20	Bi-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LQL4	2021-04-20	B-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
LQL4	2021-04-20	Ca-D	mg/L	0.05	0.05	11.7	11.7	0.0	1.00
LQL4	2021-04-20	Carb	mg/L	1	1	<1.0	<1.0	0.0	1.00
LQL4	2021-04-20	Ca-T	mg/L	0.05	0.05	11.5	11.2	2.6	1.03
LQL4	2021-04-20	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
LQL4	2021-04-20	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
LQL4	2021-04-20	Cl-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
LQL4	2021-04-20	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
LQL4	2021-04-20	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
LQL4	2021-04-20	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LQL4	2021-04-20	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LQL4	2021-04-20	Cu-D	mg/L	0.0002	0.0002	0.00057	0.00055	3.6	1.04
LQL4	2021-04-20	Cu-T	mg/L	0.0005	0.0005	0.00051	0.00053	3.8	0.96
LQL4	2021-04-20	DOC	mg/L	0.5	0.5	1.8	2.2	20.0	0.82
LQL4	2021-04-20	Fe-D	mg/L	0.005	0.005	0.0469	0.0459	2.2	1.02
LQL4	2021-04-20	Fe-T	mg/L	0.01	0.01	0.079	0.079	0.0	1.00
LQL4	2021-04-20	Hard-D	mg/L	0.5	0.5	35.2	35.1	0.3	1.00
LQL4	2021-04-20	Hard-T	mg/L	0.5	0.5	34.3	33.8	1.5	1.01
LQL4	2021-04-20	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
LQL4	2021-04-20	Hg-T	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
LQL4	2021-04-20	Hydrox	mg/L	1	1	<1.0	<1.0	0.0	1.00
LQL4	2021-04-20	K-D	mg/L	0.05	0.05	0.215	0.210	2.4	1.02
LQL4	2021-04-20	K-T	mg/L	0.05	0.05	0.199	0.211	5.9	0.94
LQL4	2021-04-20	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
LQL4	2021-04-20	Mg-D	mg/L	0.05	0.05	1.43	1.40	2.1	1.02
LQL4	2021-04-20	Mg-T	mg/L	0.05	0.05	1.38	1.42	2.9	0.97
LQL4	2021-04-20	Mn-D	mg/L	0.001	0.001	0.0014	0.0014	0.0	1.00
LQL4	2021-04-20	Mn-T	mg/L	0.001	0.001	0.0047	0.0047	0.0	1.00
LQL4	2021-04-20	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LQL4	2021-04-20	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LQL4	2021-04-20	Na-D	mg/L	0.05	0.05	8.68	8.67	0.1	1.00
LQL4	2021-04-20	Na-T	mg/L	0.05	0.05	8.38	8.73	4.1	0.96
LQL4	2021-04-20	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LQL4	2021-04-20	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00

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Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
LQL4	2021-04-20	N-NO2	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LQL4	2021-04-20	N-NO23	mg/L	0.02	0.02	0.069	0.021	106.7	3.29
LQL4	2021-04-20	N-NO3	mg/L	0.02	0.02	0.069	0.021	106.7	3.29
LQL4	2021-04-20	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
LQL4	2021-04-20	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
LQL4	2021-04-20	P-T	mg/L	0.003	0.003	<0.0030	0.0031	69.6	0.48
LQL4	2021-04-20	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
LQL4	2021-04-20	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
LQL4	2021-04-20	S-D	mg/L	3	3	6.9	6.9	0.0	1.00
LQL4	2021-04-20	Se-D	mg/L	0.0001	0.0001	0.00011	0.00010	9.5	1.10
LQL4	2021-04-20	Se-T	mg/L	0.0001	0.0001	0.00011	0.00011	0.0	1.00
LQL4	2021-04-20	Si-D	mg/L	0.1	0.1	2.56	2.52	1.6	1.02
LQL4	2021-04-20	Si-T	mg/L	0.1	0.1	2.47	2.41	2.5	1.02
LQL4	2021-04-20	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LQL4	2021-04-20	SO4-D	mg/L	1	1	21	21	0.0	1.00
LQL4	2021-04-20	Sr-D	mg/L	0.001	0.001	0.0582	0.0603	3.5	0.97
LQL4	2021-04-20	Sr-T	mg/L	0.001	0.001	0.0551	0.0547	0.7	1.01
LQL4	2021-04-20	S-T	mg/L	3	3	7.0	7.6	8.2	0.92
LQL4	2021-04-20	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LQL4	2021-04-20	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LQL4	2021-04-20	TI-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
LQL4	2021-04-20	TI-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
LQL4	2021-04-20	Turb	NTU	0.1	0.1	0.51	0.56	9.3	0.91
LQL4	2021-04-20	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LQL4	2021-04-20	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LQL4	2021-04-20	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LQL4	2021-04-20	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LQL4	2021-04-20	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LQL4	2021-04-20	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LQL4	2021-04-20	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LQL4	2021-04-20	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL1	2021-07-19	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
MQL1	2021-07-19	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
MQL1	2021-07-19	Al-D	mg/L	0.003	0.003	0.0127	0.0125	1.6	1.02
MQL1	2021-07-19	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
MQL1	2021-07-19	Alk-T	mg/L	1	1	48	44	8.7	1.09
MQL1	2021-07-19	Al-T	mg/L	0.003	0.003	0.0141	0.0138	2.2	1.02
MQL1	2021-07-19	As-D	mg/L	0.0001	0.0001	0.00021	0.00020	4.9	1.05
MQL1	2021-07-19	As-T	mg/L	0.0001	0.0001	0.00020	0.00021	4.9	0.95
MQL1	2021-07-19	Ba-D	mg/L	0.001	0.001	0.0020	0.0018	10.5	1.11
MQL1	2021-07-19	Ba-T	mg/L	0.001	0.001	0.0019	0.0019	0.0	1.00
MQL1	2021-07-19	B-D	mg/L	0.05	0.05	0.068	0.080	16.2	0.85
MQL1	2021-07-19	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL1	2021-07-19	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL1	2021-07-19	Bicarb	mg/L	1	1	58	53	9.0	1.09
MQL1	2021-07-19	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL1	2021-07-19	Bi-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL1	2021-07-19	B-T	mg/L	0.05	0.05	0.070	0.069	1.4	1.01
MQL1	2021-07-19	Ca-D	mg/L	0.05	0.05	14.4	14.1	2.1	1.02
MQL1	2021-07-19	Carb	mg/L	1	1	<1.0	<1.0	0.0	1.00
MQL1	2021-07-19	Ca-T	mg/L	0.05	0.05	14.5	14.3	1.4	1.01
MQL1	2021-07-19	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
MQL1	2021-07-19	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
MQL1	2021-07-19	Cl-D	mg/L	1	1	1.2	<1.0	82.4	2.40
MQL1	2021-07-19	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
MQL1	2021-07-19	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
MQL1	2021-07-19	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL1	2021-07-19	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL1	2021-07-19	Cu-D	mg/L	0.0002	0.0002	0.00045	0.00043	4.5	1.05
MQL1	2021-07-19	Cu-T	mg/L	0.0005	0.0005	0.00051	<0.00050	68.4	2.04
MQL1	2021-07-19	DOC	mg/L	0.5	0.5	1.3	1.6	20.7	0.81
MQL1	2021-07-19	Fe-D	mg/L	0.005	0.005	0.0247	0.0255	3.2	0.97
MQL1	2021-07-19	Fe-T	mg/L	0.01	0.01	0.044	0.044	0.0	1.00
MQL1	2021-07-19	Hard-D	mg/L	0.5	0.5	43.8	42.8	2.3	1.02
MQL1	2021-07-19	Hard-T	mg/L	0.5	0.5	44.1	43.3	1.8	1.02
MQL1	2021-07-19	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
MQL1	2021-07-19	Hg-T	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00

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Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
MQL1	2021-07-19	Hydrox	mg/L	1	1	<1.0	<1.0	0.0	1.00
MQL1	2021-07-19	K-D	mg/L	0.05	0.05	0.299	0.279	6.9	1.07
MQL1	2021-07-19	K-T	mg/L	0.05	0.05	0.286	0.291	1.7	0.98
MQL1	2021-07-19	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
MQL1	2021-07-19	Mg-D	mg/L	0.05	0.05	1.93	1.83	5.3	1.05
MQL1	2021-07-19	Mg-T	mg/L	0.05	0.05	1.94	1.85	4.7	1.05
MQL1	2021-07-19	Mn-D	mg/L	0.001	0.001	0.0015	0.0012	22.2	1.25
MQL1	2021-07-19	Mn-T	mg/L	0.001	0.001	0.0105	0.0104	1.0	1.01
MQL1	2021-07-19	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL1	2021-07-19	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL1	2021-07-19	Na-D	mg/L	0.05	0.05	22.3	21.9	1.8	1.02
MQL1	2021-07-19	Na-T	mg/L	0.05	0.05	22.7	21.9	3.6	1.04
MQL1	2021-07-19	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL1	2021-07-19	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL1	2021-07-19	N-NO2	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL1	2021-07-19	N-NO23	mg/L	0.02	0.02	0.034	<0.020	109.1	3.40
MQL1	2021-07-19	N-NO3	mg/L	0.02	0.02	0.034	<0.020	109.1	3.40
MQL1	2021-07-19	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
MQL1	2021-07-19	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
MQL1	2021-07-19	P-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
MQL1	2021-07-19	P-T	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
MQL1	2021-07-19	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
MQL1	2021-07-19	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
MQL1	2021-07-19	S-D	mg/L	3	3	16.2	15.5	4.4	1.05
MQL1	2021-07-19	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL1	2021-07-19	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL1	2021-07-19	Si-D	mg/L	0.1	0.1	1.94	1.82	6.4	1.07
MQL1	2021-07-19	Si-T	mg/L	0.1	0.1	1.86	1.87	0.5	0.99
MQL1	2021-07-19	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL1	2021-07-19	SO4-D	mg/L	1	1	53	52	1.9	1.02
MQL1	2021-07-19	Sr-D	mg/L	0.001	0.001	0.0983	0.0929	5.6	1.06
MQL1	2021-07-19	Sr-T	mg/L	0.001	0.001	0.0952	0.0963	1.1	0.99
MQL1	2021-07-19	S-T	mg/L	3	3	15.6	15.3	1.9	1.02
MQL1	2021-07-19	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL1	2021-07-19	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL1	2021-07-19	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
MQL1	2021-07-19	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
MQL1	2021-07-19	Turb	NTU	0.1	0.1	0.21	0.24	13.3	0.88
MQL1	2021-07-19	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL1	2021-07-19	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL1	2021-07-19	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL1	2021-07-19	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL1	2021-07-19	Zn-D	mg/L	0.005	0.005	0.0054	<0.0050	73.4	2.16
MQL1	2021-07-19	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL1	2021-07-19	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL1	2021-07-19	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL1	2021-10-13	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
MQL1	2021-10-13	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
MQL1	2021-10-13	Al-D	mg/L	0.003	0.003	0.0067	0.0071	5.8	0.94
MQL1	2021-10-13	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
MQL1	2021-10-13	Alk-T	mg/L	1	1	47	46	2.2	1.02
MQL1	2021-10-13	Al-T	mg/L	0.003	0.003	0.0089	0.0094	5.5	0.95
MQL1	2021-10-13	As-D	mg/L	0.0001	0.0001	0.00016	0.00014	13.3	1.14
MQL1	2021-10-13	As-T	mg/L	0.0001	0.0001	0.00014	0.00016	13.3	0.88
MQL1	2021-10-13	Ba-D	mg/L	0.001	0.001	0.0021	0.0020	4.9	1.05
MQL1	2021-10-13	Ba-T	mg/L	0.001	0.001	0.0020	0.0021	4.9	0.95
MQL1	2021-10-13	B-D	mg/L	0.05	0.05	0.060	0.059	1.7	1.02
MQL1	2021-10-13	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL1	2021-10-13	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL1	2021-10-13	Bicarb	mg/L	1	1	57	56	1.8	1.02
MQL1	2021-10-13	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL1	2021-10-13	Bi-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL1	2021-10-13	B-T	mg/L	0.05	0.05	0.061	0.071	15.2	0.86
MQL1	2021-10-13	Ca-D	mg/L	0.05	0.05	12.6	12.6	0.0	1.00
MQL1	2021-10-13	Carb	mg/L	1	1	<1.0	<1.0	0.0	1.00
MQL1	2021-10-13	Ca-T	mg/L	0.05	0.05	12.7	13.2	3.9	0.96
MQL1	2021-10-13	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00

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Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
MQL1	2021-10-13	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
MQL1	2021-10-13	Cl-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
MQL1	2021-10-13	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
MQL1	2021-10-13	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
MQL1	2021-10-13	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL1	2021-10-13	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL1	2021-10-13	Cu-D	mg/L	0.0002	0.0002	0.00042	0.00041	2.4	1.02
MQL1	2021-10-13	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
MQL1	2021-10-13	DOC	mg/L	0.5	0.5	1.2	1.6	28.6	0.75
MQL1	2021-10-13	Fe-D	mg/L	0.005	0.005	0.0260	0.0266	2.3	0.98
MQL1	2021-10-13	Fe-T	mg/L	0.01	0.01	0.045	0.046	2.2	0.98
MQL1	2021-10-13	Hard-D	mg/L	0.5	0.5	38.6	38.4	0.5	1.01
MQL1	2021-10-13	Hard-T	mg/L	0.5	0.5	39.0	40.3	3.3	0.97
MQL1	2021-10-13	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
MQL1	2021-10-13	Hg-T	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
MQL1	2021-10-13	Hydrox	mg/L	1	1	<1.0	<1.0	0.0	1.00
MQL1	2021-10-13	K-D	mg/L	0.05	0.05	0.271	0.274	1.1	0.99
MQL1	2021-10-13	K-T	mg/L	0.05	0.05	0.273	0.289	5.7	0.94
MQL1	2021-10-13	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
MQL1	2021-10-13	Mg-D	mg/L	0.05	0.05	1.70	1.70	0.0	1.00
MQL1	2021-10-13	Mg-T	mg/L	0.05	0.05	1.74	1.78	2.3	0.98
MQL1	2021-10-13	Mn-D	mg/L	0.001	0.001	0.0011	0.0013	16.7	0.85
MQL1	2021-10-13	Mn-T	mg/L	0.001	0.001	0.0084	0.0087	3.5	0.97
MQL1	2021-10-13	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL1	2021-10-13	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL1	2021-10-13	Na-D	mg/L	0.05	0.05	18.5	18.2	1.6	1.02
MQL1	2021-10-13	Na-T	mg/L	0.05	0.05	18.6	19.1	2.7	0.97
MQL1	2021-10-13	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL1	2021-10-13	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL1	2021-10-13	N-NO2	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL1	2021-10-13	N-NO23	mg/L	0.02	0.02	<0.020	<0.020	0.0	1.00
MQL1	2021-10-13	N-NO3	mg/L	0.02	0.02	<0.020	<0.020	0.0	1.00
MQL1	2021-10-13	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
MQL1	2021-10-13	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
MQL1	2021-10-13	P-D	mg/L	0.003	0.003	<0.0030	0.0046	101.6	0.33
MQL1	2021-10-13	P-T	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
MQL1	2021-10-13	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
MQL1	2021-10-13	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
MQL1	2021-10-13	S-D	mg/L	3	3	13.0	12.7	2.3	1.02
MQL1	2021-10-13	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL1	2021-10-13	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL1	2021-10-13	Si-D	mg/L	0.1	0.1	1.92	1.95	1.6	0.98
MQL1	2021-10-13	Si-T	mg/L	0.1	0.1	1.92	2.01	4.6	0.96
MQL1	2021-10-13	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL1	2021-10-13	SO4-D	mg/L	1	1	47	49	4.2	0.96
MQL1	2021-10-13	Sr-D	mg/L	0.001	0.001	0.0773	0.0776	0.4	1.00
MQL1	2021-10-13	Sr-T	mg/L	0.001	0.001	0.0767	0.0810	5.5	0.95
MQL1	2021-10-13	S-T	mg/L	3	3	12.3	12.9	4.8	0.95
MQL1	2021-10-13	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL1	2021-10-13	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL1	2021-10-13	TI-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
MQL1	2021-10-13	Ti-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
MQL1	2021-10-13	Turb	NTU	0.1	0.1	0.27	0.29	7.1	0.93
MQL1	2021-10-13	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL1	2021-10-13	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL1	2021-10-13	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL1	2021-10-13	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL1	2021-10-13	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL1	2021-10-13	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL1	2021-10-13	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL1	2021-10-13	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL4	2021-05-04	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
MQL4	2021-05-04	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
MQL4	2021-05-04	Al-D	mg/L	0.003	0.003	0.0115	0.0106	8.1	1.08
MQL4	2021-05-04	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
MQL4	2021-05-04	Alk-T	mg/L	1	1	38	39	2.6	0.97
MQL4	2021-05-04	Al-T	mg/L	0.003	0.003	0.0141	0.0139	1.4	1.01

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Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
MQL4	2021-05-04	As-D	mg/L	0.0001	0.0001	0.00011	0.00013	16.7	0.85
MQL4	2021-05-04	As-T	mg/L	0.0001	0.0001	0.00012	0.00013	8.0	0.92
MQL4	2021-05-04	Ba-D	mg/L	0.001	0.001	0.0020	0.0019	5.1	1.05
MQL4	2021-05-04	Ba-T	mg/L	0.001	0.001	0.0019	0.0019	0.0	1.00
MQL4	2021-05-04	B-D	mg/L	0.05	0.05	0.056	0.057	1.8	0.98
MQL4	2021-05-04	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL4	2021-05-04	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL4	2021-05-04	Bicarb	mg/L	1	1	47	47	0.0	1.00
MQL4	2021-05-04	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL4	2021-05-04	Bi-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL4	2021-05-04	B-T	mg/L	0.05	0.05	0.058	0.058	0.0	1.00
MQL4	2021-05-04	Ca-D	mg/L	0.05	0.05	14.2	14.0	1.4	1.01
MQL4	2021-05-04	Carb	mg/L	1	1	<1.0	<1.0	0.0	1.00
MQL4	2021-05-04	Ca-T	mg/L	0.05	0.05	13.9	14.4	3.5	0.97
MQL4	2021-05-04	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
MQL4	2021-05-04	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
MQL4	2021-05-04	Cl-D	mg/L	1	1	1.0	1.1	9.5	0.91
MQL4	2021-05-04	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
MQL4	2021-05-04	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
MQL4	2021-05-04	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL4	2021-05-04	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL4	2021-05-04	Cu-D	mg/L	0.0002	0.0002	0.00042	0.00042	0.0	1.00
MQL4	2021-05-04	Cu-T	mg/L	0.0005	0.0005	<0.00050	0.00055	75.0	0.45
MQL4	2021-05-04	DOC	mg/L	0.5	0.5	1.7	1.7	0.0	1.00
MQL4	2021-05-04	Fe-D	mg/L	0.005	0.005	0.0202	0.0200	1.0	1.01
MQL4	2021-05-04	Fe-T	mg/L	0.01	0.01	0.029	0.322	167.0	0.09
MQL4	2021-05-04	Hard-D	mg/L	0.5	0.5	42.8	42.2	1.4	1.01
MQL4	2021-05-04	Hard-T	mg/L	0.5	0.5	42.0	43.4	3.3	0.97
MQL4	2021-05-04	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
MQL4	2021-05-04	Hg-T	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
MQL4	2021-05-04	Hydrox	mg/L	1	1	<1.0	<1.0	0.0	1.00
MQL4	2021-05-04	K-D	mg/L	0.05	0.05	0.293	0.278	5.3	1.05
MQL4	2021-05-04	K-T	mg/L	0.05	0.05	0.279	0.284	1.8	0.98
MQL4	2021-05-04	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
MQL4	2021-05-04	Mg-D	mg/L	0.05	0.05	1.80	1.75	2.8	1.03
MQL4	2021-05-04	Mg-T	mg/L	0.05	0.05	1.76	1.78	1.1	0.99
MQL4	2021-05-04	Mn-D	mg/L	0.001	0.001	0.0052	0.0051	1.9	1.02
MQL4	2021-05-04	Mn-T	mg/L	0.001	0.001	0.0060	0.0076	23.5	0.79
MQL4	2021-05-04	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL4	2021-05-04	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL4	2021-05-04	Na-D	mg/L	0.05	0.05	19.4	18.4	5.3	1.05
MQL4	2021-05-04	Na-T	mg/L	0.05	0.05	19.1	18.9	1.1	1.01
MQL4	2021-05-04	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL4	2021-05-04	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL4	2021-05-04	N-NO2	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL4	2021-05-04	N-NO23	mg/L	0.02	0.02	<0.020	0.026	88.9	0.38
MQL4	2021-05-04	N-NO3	mg/L	0.02	0.02	<0.020	0.026	88.9	0.38
MQL4	2021-05-04	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
MQL4	2021-05-04	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
MQL4	2021-05-04	P-T	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
MQL4	2021-05-04	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
MQL4	2021-05-04	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
MQL4	2021-05-04	S-D	mg/L	3	3	16.4	15.5	5.6	1.06
MQL4	2021-05-04	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL4	2021-05-04	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL4	2021-05-04	Si-D	mg/L	0.1	0.1	1.89	1.86	1.6	1.02
MQL4	2021-05-04	Si-T	mg/L	0.1	0.1	1.80	1.91	5.9	0.94
MQL4	2021-05-04	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL4	2021-05-04	SO4-D	mg/L	1	1	49	48	2.1	1.02
MQL4	2021-05-04	Sr-D	mg/L	0.001	0.001	0.0969	0.0922	5.0	1.05
MQL4	2021-05-04	Sr-T	mg/L	0.001	0.001	0.0928	0.0941	1.4	0.99
MQL4	2021-05-04	S-T	mg/L	3	3	15.5	15.1	2.6	1.03
MQL4	2021-05-04	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL4	2021-05-04	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL4	2021-05-04	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
MQL4	2021-05-04	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
MQL4	2021-05-04	Turb	NTU	0.1	0.1	0.15	0.15	0.0	1.00

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Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
MQL4	2021-05-04	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL4	2021-05-04	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL4	2021-05-04	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL4	2021-05-04	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL4	2021-05-04	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL4	2021-05-04	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL4	2021-05-04	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL4	2021-05-04	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL4	2021-11-02	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
MQL4	2021-11-02	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
MQL4	2021-11-02	Al-D	mg/L	0.003	0.003	0.0164	0.0160	2.5	1.02
MQL4	2021-11-02	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
MQL4	2021-11-02	Alk-T	mg/L	1	1	37	37	0.0	1.00
MQL4	2021-11-02	Al-T	mg/L	0.003	0.003	0.0211	0.0213	0.9	0.99
MQL4	2021-11-02	As-D	mg/L	0.0001	0.0001	0.00010	0.00011	9.5	0.91
MQL4	2021-11-02	As-T	mg/L	0.0001	0.0001	0.00011	0.00012	8.7	0.92
MQL4	2021-11-02	Ba-D	mg/L	0.001	0.001	0.0024	0.0024	0.0	1.00
MQL4	2021-11-02	Ba-T	mg/L	0.001	0.001	0.0024	0.0025	4.1	0.96
MQL4	2021-11-02	B-D	mg/L	0.05	0.05	0.055	0.055	0.0	1.00
MQL4	2021-11-02	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL4	2021-11-02	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL4	2021-11-02	Bicarb	mg/L	1	1	46	45	2.2	1.02
MQL4	2021-11-02	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL4	2021-11-02	Bi-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL4	2021-11-02	B-T	mg/L	0.05	0.05	0.060	0.060	0.0	1.00
MQL4	2021-11-02	Ca-D	mg/L	0.05	0.05	12.2	12.3	0.8	0.99
MQL4	2021-11-02	Carb	mg/L	1	1	<1.0	<1.0	0.0	1.00
MQL4	2021-11-02	Ca-T	mg/L	0.05	0.05	13.0	13.0	0.0	1.00
MQL4	2021-11-02	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
MQL4	2021-11-02	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
MQL4	2021-11-02	Cl-D	mg/L	1	1	1.5	2.0	28.6	0.75
MQL4	2021-11-02	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
MQL4	2021-11-02	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
MQL4	2021-11-02	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL4	2021-11-02	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL4	2021-11-02	Cu-D	mg/L	0.0002	0.0002	0.00046	0.00045	2.2	1.02
MQL4	2021-11-02	Cu-T	mg/L	0.0005	0.0005	0.00051	0.00053	3.8	0.96
MQL4	2021-11-02	DOC	mg/L	0.5	0.5	2.6	2.4	8.0	1.08
MQL4	2021-11-02	Fe-D	mg/L	0.005	0.005	0.0290	0.0291	0.3	1.00
MQL4	2021-11-02	Fe-T	mg/L	0.01	0.01	0.053	0.054	1.9	0.98
MQL4	2021-11-02	Hard-D	mg/L	0.5	0.5	37.8	38.0	0.5	0.99
MQL4	2021-11-02	Hard-T	mg/L	0.5	0.5	39.9	40.1	0.5	1.00
MQL4	2021-11-02	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
MQL4	2021-11-02	Hg-T	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
MQL4	2021-11-02	Hydrox	mg/L	1	1	<1.0	<1.0	0.0	1.00
MQL4	2021-11-02	K-D	mg/L	0.05	0.05	0.305	0.304	0.3	1.00
MQL4	2021-11-02	K-T	mg/L	0.05	0.05	0.307	0.314	2.3	0.98
MQL4	2021-11-02	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
MQL4	2021-11-02	Mg-D	mg/L	0.05	0.05	1.76	1.75	0.6	1.01
MQL4	2021-11-02	Mg-T	mg/L	0.05	0.05	1.82	1.82	0.0	1.00
MQL4	2021-11-02	Mn-D	mg/L	0.001	0.001	0.0024	0.0023	4.3	1.04
MQL4	2021-11-02	Mn-T	mg/L	0.001	0.001	0.0074	0.0074	0.0	1.00
MQL4	2021-11-02	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL4	2021-11-02	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL4	2021-11-02	Na-D	mg/L	0.05	0.05	16.5	16.5	0.0	1.00
MQL4	2021-11-02	Na-T	mg/L	0.05	0.05	17.0	17.6	3.5	0.97
MQL4	2021-11-02	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL4	2021-11-02	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL4	2021-11-02	N-NO2	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL4	2021-11-02	N-NO23	mg/L	0.02	0.02	<0.020	0.023	78.8	0.43
MQL4	2021-11-02	N-NO3	mg/L	0.02	0.02	<0.020	0.023	78.8	0.43
MQL4	2021-11-02	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
MQL4	2021-11-02	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
MQL4	2021-11-02	P-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
MQL4	2021-11-02	P-T	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
MQL4	2021-11-02	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
MQL4	2021-11-02	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00

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Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
MQL4	2021-11-02	S-D	mg/L	3	3	13.7	13.3	3.0	1.03
MQL4	2021-11-02	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL4	2021-11-02	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL4	2021-11-02	Si-D	mg/L	0.1	0.1	2.55	2.57	0.8	0.99
MQL4	2021-11-02	Si-T	mg/L	0.1	0.1	2.61	2.55	2.3	1.02
MQL4	2021-11-02	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL4	2021-11-02	SO4-D	mg/L	1	1	43	38	12.3	1.13
MQL4	2021-11-02	Sr-D	mg/L	0.001	0.001	0.0768	0.0770	0.3	1.00
MQL4	2021-11-02	Sr-T	mg/L	0.001	0.001	0.0765	0.0777	1.6	0.98
MQL4	2021-11-02	S-T	mg/L	3	3	13.2	13.2	0.0	1.00
MQL4	2021-11-02	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL4	2021-11-02	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL4	2021-11-02	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
MQL4	2021-11-02	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
MQL4	2021-11-02	Turb	NTU	0.1	0.1	0.72	0.48	40.0	1.50
MQL4	2021-11-02	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL4	2021-11-02	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL4	2021-11-02	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL4	2021-11-02	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL4	2021-11-02	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL4	2021-11-02	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL4	2021-11-02	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL4	2021-11-02	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL9	2021-07-26	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
MQL9	2021-07-26	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
MQL9	2021-07-26	Al-D	mg/L	0.003	0.003	0.0074	0.0121	48.2	0.61
MQL9	2021-07-26	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
MQL9	2021-07-26	Alk-T	mg/L	1	1	36	47	26.5	0.77
MQL9	2021-07-26	Al-T	mg/L	0.003	0.003	0.0086	0.0121	33.8	0.71
MQL9	2021-07-26	As-D	mg/L	0.0001	0.0001	<0.00010	0.00011	75.0	0.45
MQL9	2021-07-26	As-T	mg/L	0.0001	0.0001	0.00011	0.00016	37.0	0.69
MQL9	2021-07-26	Ba-D	mg/L	0.001	0.001	0.0015	0.0018	18.2	0.83
MQL9	2021-07-26	Ba-T	mg/L	0.001	0.001	0.0016	0.0017	6.1	0.94
MQL9	2021-07-26	B-D	mg/L	0.05	0.05	<0.050	0.057	78.0	0.44
MQL9	2021-07-26	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL9	2021-07-26	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL9	2021-07-26	Bicarb	mg/L	1	1	44	57	25.7	0.77
MQL9	2021-07-26	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL9	2021-07-26	Bi-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL9	2021-07-26	B-T	mg/L	0.05	0.05	<0.050	0.060	82.4	0.42
MQL9	2021-07-26	Ca-D	mg/L	0.05	0.05	12.5	13.9	10.6	0.90
MQL9	2021-07-26	Carb	mg/L	1	1	<1.0	<1.0	0.0	1.00
MQL9	2021-07-26	Ca-T	mg/L	0.05	0.05	12.5	13.4	6.9	0.93
MQL9	2021-07-26	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
MQL9	2021-07-26	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
MQL9	2021-07-26	Cl-D	mg/L	1	1	1.4	1.0	33.3	1.40
MQL9	2021-07-26	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
MQL9	2021-07-26	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
MQL9	2021-07-26	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL9	2021-07-26	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL9	2021-07-26	Cu-D	mg/L	0.0002	0.0002	0.00051	0.00047	8.2	1.09
MQL9	2021-07-26	Cu-T	mg/L	0.0005	0.0005	0.00054	<0.00050	73.4	2.16
MQL9	2021-07-26	DOC	mg/L	0.5	0.5	2.6	1.6	47.6	1.62
MQL9	2021-07-26	Fe-D	mg/L	0.005	0.005	0.0080	0.0193	82.8	0.41
MQL9	2021-07-26	Fe-T	mg/L	0.01	0.01	0.021	0.034	47.3	0.62
MQL9	2021-07-26	Hard-D	mg/L	0.5	0.5	37.6	42.2	11.5	0.89
MQL9	2021-07-26	Hard-T	mg/L	0.5	0.5	38.1	41.0	7.3	0.93
MQL9	2021-07-26	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
MQL9	2021-07-26	Hg-T	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
MQL9	2021-07-26	Hydrox	mg/L	1	1	<1.0	<1.0	0.0	1.00
MQL9	2021-07-26	K-D	mg/L	0.05	0.05	0.165	0.274	49.7	0.60
MQL9	2021-07-26	K-T	mg/L	0.05	0.05	0.157	0.253	46.8	0.62
MQL9	2021-07-26	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
MQL9	2021-07-26	Mg-D	mg/L	0.05	0.05	1.58	1.81	13.6	0.87
MQL9	2021-07-26	Mg-T	mg/L	0.05	0.05	1.64	1.80	9.3	0.91
MQL9	2021-07-26	Mn-D	mg/L	0.001	0.001	<0.0010	0.0011	75.0	0.45
MQL9	2021-07-26	Mn-T	mg/L	0.001	0.001	0.0070	0.0078	10.8	0.90

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
ML9	2021-07-26	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
ML9	2021-07-26	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
ML9	2021-07-26	Na-D	mg/L	0.05	0.05	12.4	19.6	45.0	0.63
ML9	2021-07-26	Na-T	mg/L	0.05	0.05	12.9	19.8	42.2	0.65
ML9	2021-07-26	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
ML9	2021-07-26	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
ML9	2021-07-26	N-NO2	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
ML9	2021-07-26	N-NO23	mg/L	0.02	0.02	<0.020	<0.020	0.0	1.00
ML9	2021-07-26	N-NO3	mg/L	0.02	0.02	<0.020	<0.020	0.0	1.00
ML9	2021-07-26	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
ML9	2021-07-26	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
ML9	2021-07-26	P-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
ML9	2021-07-26	P-T	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
ML9	2021-07-26	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
ML9	2021-07-26	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
ML9	2021-07-26	S-D	mg/L	3	3	10.2	14.7	36.1	0.69
ML9	2021-07-26	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
ML9	2021-07-26	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
ML9	2021-07-26	Si-D	mg/L	0.1	0.1	1.38	1.80	26.4	0.77
ML9	2021-07-26	Si-T	mg/L	0.1	0.1	1.31	1.61	20.5	0.81
ML9	2021-07-26	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
ML9	2021-07-26	SO4-D	mg/L	1	1	38	41	7.6	0.93
ML9	2021-07-26	Sr-D	mg/L	0.001	0.001	0.0603	0.0825	31.1	0.73
ML9	2021-07-26	Sr-T	mg/L	0.001	0.001	0.0590	0.0787	28.6	0.75
ML9	2021-07-26	S-T	mg/L	3	3	10.1	13.6	29.5	0.74
ML9	2021-07-26	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
ML9	2021-07-26	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
ML9	2021-07-26	Ti-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
ML9	2021-07-26	Ti-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
ML9	2021-07-26	Turb	NTU	0.1	0.1	0.22	0.28	24.0	0.79
ML9	2021-07-26	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
ML9	2021-07-26	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
ML9	2021-07-26	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
ML9	2021-07-26	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
ML9	2021-07-26	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
ML9	2021-07-26	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
ML9	2021-07-26	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
ML9	2021-07-26	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
ML9	2021-08-10	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
ML9	2021-08-10	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
ML9	2021-08-10	Al-D	mg/L	0.003	0.003	0.0107	0.0093	14.0	1.15
ML9	2021-08-10	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
ML9	2021-08-10	Alk-T	mg/L	1	1	42	40	4.9	1.05
ML9	2021-08-10	Al-T	mg/L	0.003	0.003	0.0111	0.0108	2.7	1.03
ML9	2021-08-10	As-D	mg/L	0.0001	0.0001	0.00012	0.00012	0.0	1.00
ML9	2021-08-10	As-T	mg/L	0.0001	0.0001	0.00014	0.00014	0.0	1.00
ML9	2021-08-10	Ba-D	mg/L	0.001	0.001	0.0016	0.0017	6.1	0.94
ML9	2021-08-10	Ba-T	mg/L	0.001	0.001	0.0016	0.0017	6.1	0.94
ML9	2021-08-10	B-D	mg/L	0.05	0.05	0.059	0.060	1.7	0.98
ML9	2021-08-10	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
ML9	2021-08-10	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
ML9	2021-08-10	Bicarb	mg/L	1	1	52	49	5.9	1.06
ML9	2021-08-10	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
ML9	2021-08-10	Bi-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
ML9	2021-08-10	B-T	mg/L	0.05	0.05	0.059	0.059	0.0	1.00
ML9	2021-08-10	Ca-D	mg/L	0.05	0.05	14.0	13.6	2.9	1.03
ML9	2021-08-10	Carb	mg/L	1	1	<1.0	<1.0	0.0	1.00
ML9	2021-08-10	Ca-T	mg/L	0.05	0.05	13.7	13.7	0.0	1.00
ML9	2021-08-10	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
ML9	2021-08-10	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
ML9	2021-08-10	Cl-D	mg/L	1	1	4.7	1.2	118.6	3.92
ML9	2021-08-10	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
ML9	2021-08-10	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
ML9	2021-08-10	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
ML9	2021-08-10	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
ML9	2021-08-10	Cu-D	mg/L	0.0002	0.0002	0.00044	0.00045	2.2	0.98
ML9	2021-08-10	Cu-T	mg/L	0.0005	0.0005	0.00053	0.00053	0.0	1.00

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Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
MQL9	2021-08-10	DOC	mg/L	0.5	0.5	1.8	1.8	0.0	1.00
MQL9	2021-08-10	Fe-D	mg/L	0.005	0.005	0.0100	0.0109	8.6	0.92
MQL9	2021-08-10	Fe-T	mg/L	0.01	0.01	0.031	0.032	3.2	0.97
MQL9	2021-08-10	Hard-D	mg/L	0.5	0.5	42.0	41.1	2.2	1.02
MQL9	2021-08-10	Hard-T	mg/L	0.5	0.5	41.8	41.6	0.5	1.00
MQL9	2021-08-10	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
MQL9	2021-08-10	Hg-T	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
MQL9	2021-08-10	Hydrox	mg/L	1	1	<1.0	<1.0	0.0	1.00
MQL9	2021-08-10	K-D	mg/L	0.05	0.05	0.235	0.247	5.0	0.95
MQL9	2021-08-10	K-T	mg/L	0.05	0.05	0.259	0.259	0.0	1.00
MQL9	2021-08-10	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
MQL9	2021-08-10	Mg-D	mg/L	0.05	0.05	1.73	1.77	2.3	0.98
MQL9	2021-08-10	Mg-T	mg/L	0.05	0.05	1.86	1.81	2.7	1.03
MQL9	2021-08-10	Mn-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL9	2021-08-10	Mn-T	mg/L	0.001	0.001	0.0105	0.0101	3.9	1.04
MQL9	2021-08-10	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL9	2021-08-10	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL9	2021-08-10	Na-D	mg/L	0.05	0.05	18.1	19.0	4.9	0.95
MQL9	2021-08-10	Na-T	mg/L	0.05	0.05	18.4	18.6	1.1	0.99
MQL9	2021-08-10	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL9	2021-08-10	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL9	2021-08-10	N-NO2	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL9	2021-08-10	N-NO3	mg/L	0.02	0.02	<0.020	<0.020	0.0	1.00
MQL9	2021-08-10	N-NO3	mg/L	0.02	0.02	<0.020	<0.020	0.0	1.00
MQL9	2021-08-10	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
MQL9	2021-08-10	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
MQL9	2021-08-10	P-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
MQL9	2021-08-10	P-T	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
MQL9	2021-08-10	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
MQL9	2021-08-10	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
MQL9	2021-08-10	S-D	mg/L	3	3	13.4	13.5	0.7	0.99
MQL9	2021-08-10	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL9	2021-08-10	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL9	2021-08-10	Si-D	mg/L	0.1	0.1	1.36	1.47	7.8	0.93
MQL9	2021-08-10	Si-T	mg/L	0.1	0.1	1.44	1.55	7.4	0.93
MQL9	2021-08-10	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL9	2021-08-10	SO4-D	mg/L	1	1	48	49	2.1	0.98
MQL9	2021-08-10	Sr-D	mg/L	0.001	0.001	0.0827	0.0842	1.8	0.98
MQL9	2021-08-10	Sr-T	mg/L	0.001	0.001	0.0776	0.0790	1.8	0.98
MQL9	2021-08-10	S-T	mg/L	3	3	14.5	14.2	2.1	1.02
MQL9	2021-08-10	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL9	2021-08-10	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL9	2021-08-10	Ti-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
MQL9	2021-08-10	Ti-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
MQL9	2021-08-10	Turb	NTU	0.1	0.1	0.37	0.37	0.0	1.00
MQL9	2021-08-10	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL9	2021-08-10	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL9	2021-08-10	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL9	2021-08-10	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL9	2021-08-10	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL9	2021-08-10	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL9	2021-08-10	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL9	2021-08-10	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MW001D	2022-02-24	Acidity45	mg/L	1	1	<1.0	<1.0	0.0	1.00
MW001D	2022-02-24	Acidity83	mg/L	1	1	27.4	19.9	31.7	1.38
MW001D	2022-02-24	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
MW001D	2022-02-24	Al-D	mg/L	0.003	0.003	0.0058	0.0048	18.9	1.21
MW001D	2022-02-24	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
MW001D	2022-02-24	Alk-T	mg/L	1	1	330	330	0.0	1.00
MW001D	2022-02-24	As-D	mg/L	0.0001	0.0001	0.00293	0.00301	2.7	0.97
MW001D	2022-02-24	Ba-D	mg/L	0.001	0.001	0.0363	0.0365	0.5	0.99
MW001D	2022-02-24	B-D	mg/L	0.05	0.05	0.267	0.289	7.9	0.92
MW001D	2022-02-24	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MW001D	2022-02-24	Bicarb	mg/L	1	1	410	410	0.0	1.00
MW001D	2022-02-24	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MW001D	2022-02-24	Br-D	mg/L	0.01	0.01	0.079	0.069	13.5	1.14
MW001D	2022-02-24	Ca-D	mg/L	0.05	0.05	180	186	3.3	0.97

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Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
MW001D	2022-02-24	Carb	mg/L	1	1	<1.0	<1.0	0.0	1.00
MW001D	2022-02-24	Cd-D	mg/L	0.00001	0.00001	0.000054	0.000052	3.8	1.04
MW001D	2022-02-24	Cl-D	mg/L	1	1	1.7	1.7	0.0	1.00
MW001D	2022-02-24	Co-D	mg/L	0.0002	0.0002	0.00236	0.00232	1.7	1.02
MW001D	2022-02-24	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MW001D	2022-02-24	Cu-D	mg/L	0.0002	0.0002	0.00091	0.00070	26.1	1.30
MW001D	2022-02-24	DOC	mg/L	0.5	0.5	2.5	2.5	0.0	1.00
MW001D	2022-02-24	F-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
MW001D	2022-02-24	Fe-D	mg/L	0.005	0.005	2.57	2.55	0.8	1.01
MW001D	2022-02-24	H2S	mg/L	0.002	0.002	<0.0020	0.0026	88.9	0.38
MW001D	2022-02-24	Hard-D	mg/L	0.5	0.5	564	579	2.6	0.97
MW001D	2022-02-24	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
MW001D	2022-02-24	Hydrox	mg/L	1	1	<1.0	<1.0	0.0	1.00
MW001D	2022-02-24	K-D	mg/L	0.05	0.05	1.58	1.56	1.3	1.01
MW001D	2022-02-24	Mg-D	mg/L	0.05	0.05	27.6	27.7	0.4	1.00
MW001D	2022-02-24	Mn-D	mg/L	0.001	0.001	1.61	1.61	0.0	1.00
MW001D	2022-02-24	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MW001D	2022-02-24	Na-D	mg/L	0.05	0.05	66.9	66.4	0.8	1.01
MW001D	2022-02-24	N-D	mg/L	0.02	0.02	0.125	0.125	0.0	1.00
MW001D	2022-02-24	Ni-D	mg/L	0.001	0.001	0.0023	0.0023	0.0	1.00
MW001D	2022-02-24	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
MW001D	2022-02-24	P-D	mg/L	0.003	0.003	0.010	0.010	0.0	1.00
MW001D	2022-02-24	S2-T	mg/L	0.0018	0.0018	<0.0018	0.0025	94.1	0.36
MW001D	2022-02-24	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
MW001D	2022-02-24	S-D	mg/L	3	3	125	124	0.8	1.01
MW001D	2022-02-24	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MW001D	2022-02-24	Si-D	mg/L	0.1	0.1	8.78	9.27	5.4	0.95
MW001D	2022-02-24	SO4-D	mg/L	10	10	310	280	10.2	1.11
MW001D	2022-02-24	Sr-D	mg/L	0.001	0.001	0.983	1.01	2.7	0.97
MW001D	2022-02-24	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MW001D	2022-02-24	Tl-D	mg/L	0.00001	0.00001	0.000012	0.000012	0.0	1.00
MW001D	2022-02-24	Turb	NTU	0.1	0.1	30	34	12.5	0.88
MW001D	2022-02-24	U-D	mg/L	0.0001	0.0001	0.00162	0.00161	0.6	1.01
MW001D	2022-02-24	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MW001D	2022-02-24	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MW001D	2022-02-24	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MW001S	2021-06-17	Acidity45	mg/L	1	1	<1.0	<1.0	0.0	1.00
MW001S	2021-06-17	Acidity83	mg/L	1	1	37.7	40.4	6.9	0.93
MW001S	2021-06-17	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
MW001S	2021-06-17	Al-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
MW001S	2021-06-17	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
MW001S	2021-06-17	Alk-T	mg/L	1	1	280	300	6.9	0.93
MW001S	2021-06-17	As-D	mg/L	0.0001	0.0001	0.00102	0.00100	2.0	1.02
MW001S	2021-06-17	Ba-D	mg/L	0.001	0.001	0.0233	0.0237	1.7	0.98
MW001S	2021-06-17	B-D	mg/L	0.05	0.05	0.349	0.347	0.6	1.01
MW001S	2021-06-17	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MW001S	2021-06-17	Bicarb	mg/L	1	1	350	360	2.8	0.97
MW001S	2021-06-17	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MW001S	2021-06-17	Br-D	mg/L	0.01	0.01	0.077	0.078	1.3	0.99
MW001S	2021-06-17	Ca-D	mg/L	0.05	0.05	234	231	1.3	1.01
MW001S	2021-06-17	Carb	mg/L	1	1	<1.0	<1.0	0.0	1.00
MW001S	2021-06-17	Cd-D	mg/L	0.00001	0.00001	0.000072	0.000072	0.0	1.00
MW001S	2021-06-17	Cl-D	mg/L	1	1	1.9	2.1	10.0	0.90
MW001S	2021-06-17	Co-D	mg/L	0.0002	0.0002	0.00218	0.00217	0.5	1.00
MW001S	2021-06-17	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MW001S	2021-06-17	Cu-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
MW001S	2021-06-17	DOC	mg/L	0.5	0.5	2.3	2.2	4.4	1.05
MW001S	2021-06-17	F-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
MW001S	2021-06-17	Fe-D	mg/L	0.005	0.005	0.770	0.769	0.1	1.00
MW001S	2021-06-17	H2S	mg/L	0.002	0.002	<0.0020	0.0038	116.7	0.26
MW001S	2021-06-17	Hard-D	mg/L	0.5	0.5	747	741	0.8	1.01
MW001S	2021-06-17	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
MW001S	2021-06-17	Hydrox	mg/L	1	1	<1.0	<1.0	0.0	1.00
MW001S	2021-06-17	K-D	mg/L	0.05	0.05	1.84	1.84	0.0	1.00
MW001S	2021-06-17	Mg-D	mg/L	0.05	0.05	39.6	40.1	1.3	0.99
MW001S	2021-06-17	Mn-D	mg/L	0.001	0.001	1.59	1.62	1.9	0.98
MW001S	2021-06-17	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
MW001S	2021-06-17	Na-D	mg/L	0.05	0.05	81.8	81.1	0.9	1.01
MW001S	2021-06-17	N-D	mg/L	0.02	0.02	0.126	0.145	14.0	0.87
MW001S	2021-06-17	Ni-D	mg/L	0.001	0.001	0.0012	0.0012	0.0	1.00
MW001S	2021-06-17	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
MW001S	2021-06-17	P-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
MW001S	2021-06-17	S2-T	mg/L	0.0018	0.0018	<0.0018	0.0035	118.2	0.26
MW001S	2021-06-17	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
MW001S	2021-06-17	S-D	mg/L	3	3	217	216	0.5	1.00
MW001S	2021-06-17	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MW001S	2021-06-17	Si-D	mg/L	0.1	0.1	8.43	8.49	0.7	0.99
MW001S	2021-06-17	SO4-D	mg/L	10	10	560	580	3.5	0.97
MW001S	2021-06-17	Sr-D	mg/L	0.001	0.001	1.45	1.48	2.0	0.98
MW001S	2021-06-17	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MW001S	2021-06-17	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
MW001S	2021-06-17	Turb	NTU	0.1	0.1	7.9	7.7	2.6	1.03
MW001S	2021-06-17	U-D	mg/L	0.0001	0.0001	0.00192	0.00194	1.0	0.99
MW001S	2021-06-17	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MW001S	2021-06-17	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MW001S	2021-06-17	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MW002	2021-05-11	Acidity45	mg/L	1	1	<1.0	<1.0	0.0	1.00
MW002	2021-05-11	Acidity83	mg/L	1	1	26.4	21.7	19.5	1.22
MW002	2021-05-11	Ag-D	mg/L	0.0001	0.00004	<0.00010	<0.000040	85.7	2.50
MW002	2021-05-11	Al-D	mg/L	0.015	0.006	<0.015	<0.0060	85.7	2.50
MW002	2021-05-11	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
MW002	2021-05-11	Alk-T	mg/L	1	1	280	300	6.9	0.93
MW002	2021-05-11	As-D	mg/L	0.0005	0.0002	0.00172	0.00198	14.1	0.87
MW002	2021-05-11	Ba-D	mg/L	0.005	0.002	0.0128	0.0136	6.1	0.94
MW002	2021-05-11	B-D	mg/L	0.25	0.1	0.72	0.69	4.3	1.04
MW002	2021-05-11	Be-D	mg/L	0.0005	0.0002	<0.00050	<0.00020	85.7	2.50
MW002	2021-05-11	Bicarb	mg/L	1	1	350	360	2.8	0.97
MW002	2021-05-11	Bi-D	mg/L	0.005	0.002	<0.0050	<0.0020	85.7	2.50
MW002	2021-05-11	Br-D	mg/L	0.05	0.05	0.12	0.12	0.0	1.00
MW002	2021-05-11	Ca-D	mg/L	0.25	0.1	412	437	5.9	0.94
MW002	2021-05-11	Carb	mg/L	1	1	<1.0	<1.0	0.0	1.00
MW002	2021-05-11	Cd-D	mg/L	0.00005	0.00002	<0.000050	<0.000020	85.7	2.50
MW002	2021-05-11	Cl-D	mg/L	1	1	1.3	1.3	0.0	1.00
MW002	2021-05-11	Co-D	mg/L	0.001	0.0004	0.0032	0.00323	0.9	0.99
MW002	2021-05-11	Cr-D	mg/L	0.005	0.002	<0.0050	<0.0020	85.7	2.50
MW002	2021-05-11	Cu-D	mg/L	0.001	0.0004	<0.0010	<0.00040	85.7	2.50
MW002	2021-05-11	DOC	mg/L	0.5	0.5	0.87	1.0	13.9	0.87
MW002	2021-05-11	F-D	mg/L	0.05	0.05	0.12	0.13	8.0	0.92
MW002	2021-05-11	Fe-D	mg/L	0.025	0.01	3.99	4.19	4.9	0.95
MW002	2021-05-11	H2S	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
MW002	2021-05-11	Hard-D	mg/L	0.5	0.5	1210	1270	4.8	0.95
MW002	2021-05-11	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
MW002	2021-05-11	Hydrox	mg/L	1	1	<1.0	<1.0	0.0	1.00
MW002	2021-05-11	K-D	mg/L	0.25	0.1	4.23	4.46	5.3	0.95
MW002	2021-05-11	Mg-D	mg/L	0.25	0.1	42.7	43.7	2.3	0.98
MW002	2021-05-11	Mn-D	mg/L	0.005	0.002	1.45	1.57	7.9	0.92
MW002	2021-05-11	Mo-D	mg/L	0.005	0.002	<0.0050	<0.0020	85.7	2.50
MW002	2021-05-11	Na-D	mg/L	0.25	0.1	51.4	52.2	1.5	0.98
MW002	2021-05-11	N-D	mg/L	0.02	0.02	0.408	0.727	56.2	0.56
MW002	2021-05-11	Ni-D	mg/L	0.005	0.002	<0.0050	0.0021	17.4	1.19
MW002	2021-05-11	Pb-D	mg/L	0.001	0.0004	<0.0010	<0.00040	85.7	2.50
MW002	2021-05-11	P-D	mg/L	0.003	0.003	0.0048	0.0068	34.5	0.71
MW002	2021-05-11	S2-T	mg/L	0.0018	0.0018	<0.0018	<0.0018	0.0	1.00
MW002	2021-05-11	Sb-D	mg/L	0.0025	0.001	<0.0025	<0.0010	85.7	2.50
MW002	2021-05-11	S-D	mg/L	15	6	373	390	4.5	0.96
MW002	2021-05-11	Se-D	mg/L	0.0005	0.0002	<0.00050	<0.00020	85.7	2.50
MW002	2021-05-11	Si-D	mg/L	0.5	0.2	3.24	3.42	5.4	0.95
MW002	2021-05-11	SO4-D	mg/L	10	10	1300	1400	7.4	0.93
MW002	2021-05-11	Sr-D	mg/L	0.005	0.002	3.76	4.07	7.9	0.92
MW002	2021-05-11	Ti-D	mg/L	0.025	0.01	<0.025	<0.010	85.7	2.50
MW002	2021-05-11	Tl-D	mg/L	0.00005	0.00002	<0.000050	<0.000020	85.7	2.50
MW002	2021-05-11	Turb	NTU	0.1	0.1	31	23	29.6	1.35
MW002	2021-05-11	U-D	mg/L	0.0005	0.0002	<0.00050	0.00042	50.7	0.60
MW002	2021-05-11	V-D	mg/L	0.025	0.01	<0.025	<0.010	85.7	2.50

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Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
MW002	2021-05-11	Zn-D	mg/L	0.025	0.01	<0.025	<0.010	85.7	2.50
MW002	2021-05-11	Zr-D	mg/L	0.0005	0.0002	<0.00050	<0.00020	85.7	2.50
MW002	2021-07-29	Acidity45	mg/L	1	1	<1.0	<1.0	0.0	1.00
MW002	2021-07-29	Acidity83	mg/L	1	1	14.6	17.5	18.1	0.83
MW002	2021-07-29	Ag-D	mg/L	0.00004	0.00004	<0.000040	<0.000040	0.0	1.00
MW002	2021-07-29	Al-D	mg/L	0.006	0.006	<0.0060	<0.0060	0.0	1.00
MW002	2021-07-29	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
MW002	2021-07-29	Alk-T	mg/L	1	1	270	280	3.6	0.96
MW002	2021-07-29	As-D	mg/L	0.0002	0.0002	0.00208	0.00212	1.9	0.98
MW002	2021-07-29	Ba-D	mg/L	0.002	0.002	0.0144	0.0149	3.4	0.97
MW002	2021-07-29	B-D	mg/L	0.1	0.1	0.80	0.78	2.5	1.03
MW002	2021-07-29	Be-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
MW002	2021-07-29	Bicarb	mg/L	1	1	330	340	3.0	0.97
MW002	2021-07-29	Bi-D	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
MW002	2021-07-29	Br-D	mg/L	0.01	0.01	0.16	0.17	6.1	0.94
MW002	2021-07-29	Ca-D	mg/L	0.1	0.1	471	473	0.4	1.00
MW002	2021-07-29	Carb	mg/L	1	1	<1.0	<1.0	0.0	1.00
MW002	2021-07-29	Cd-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
MW002	2021-07-29	Cl-D	mg/L	1	1	1.5	1.5	0.0	1.00
MW002	2021-07-29	Co-D	mg/L	0.0004	0.0004	0.00369	0.00365	1.1	1.01
MW002	2021-07-29	Cr-D	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
MW002	2021-07-29	Cu-D	mg/L	0.0004	0.0004	<0.00040	<0.00040	0.0	1.00
MW002	2021-07-29	DOC	mg/L	0.5	0.5	1.1	1.2	8.7	0.92
MW002	2021-07-29	F-D	mg/L	0.05	0.05	0.10	0.11	9.5	0.91
MW002	2021-07-29	Fe-D	mg/L	0.01	0.01	4.88	4.93	1.0	0.99
MW002	2021-07-29	H2S	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
MW002	2021-07-29	Hard-D	mg/L	0.5	0.5	1390	1390	0.0	1.00
MW002	2021-07-29	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
MW002	2021-07-29	Hydrox	mg/L	1	1	<1.0	<1.0	0.0	1.00
MW002	2021-07-29	K-D	mg/L	0.1	0.1	5.31	5.35	0.8	0.99
MW002	2021-07-29	Mg-D	mg/L	0.1	0.1	51.1	50.4	1.4	1.01
MW002	2021-07-29	Mn-D	mg/L	0.002	0.002	1.53	1.53	0.0	1.00
MW002	2021-07-29	Mo-D	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
MW002	2021-07-29	Na-D	mg/L	0.1	0.1	64.9	64.1	1.2	1.01
MW002	2021-07-29	N-D	mg/L	0.02	0.02	0.234	0.234	0.0	1.00
MW002	2021-07-29	Ni-D	mg/L	0.002	0.002	0.0023	0.0023	0.0	1.00
MW002	2021-07-29	Pb-D	mg/L	0.0004	0.0004	<0.00040	<0.00040	0.0	1.00
MW002	2021-07-29	P-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
MW002	2021-07-29	S2-T	mg/L	0.0018	0.0018	<0.0018	<0.0018	0.0	1.00
MW002	2021-07-29	Sb-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MW002	2021-07-29	S-D	mg/L	6	6	428	424	0.9	1.01
MW002	2021-07-29	Se-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
MW002	2021-07-29	Si-D	mg/L	0.2	0.2	3.49	3.76	7.4	0.93
MW002	2021-07-29	SO4-D	mg/L	10	10	1300	1300	0.0	1.00
MW002	2021-07-29	Sr-D	mg/L	0.002	0.002	4.06	4.03	0.7	1.01
MW002	2021-07-29	Ti-D	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
MW002	2021-07-29	Tl-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
MW002	2021-07-29	Turb	NTU	0.1	0.1	48	45	6.5	1.07
MW002	2021-07-29	U-D	mg/L	0.0002	0.0002	0.00045	0.00047	4.3	0.96
MW002	2021-07-29	V-D	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
MW002	2021-07-29	Zn-D	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
MW002	2021-07-29	Zr-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
MW002	2021-10-28	Acidity45	mg/L	1	1	<1.0	<1.0	0.0	1.00
MW002	2021-10-28	Acidity83	mg/L	1	1	39.8	38.2	4.1	1.04
MW002	2021-10-28	Ag-D	mg/L	0.00004	0.00004	<0.000040	<0.000040	0.0	1.00
MW002	2021-10-28	Al-D	mg/L	0.006	0.006	<0.0060	<0.0060	0.0	1.00
MW002	2021-10-28	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
MW002	2021-10-28	Alk-T	mg/L	1	1	290	280	3.5	1.04
MW002	2021-10-28	As-D	mg/L	0.0002	0.0002	0.00222	0.00228	2.7	0.97
MW002	2021-10-28	Ba-D	mg/L	0.002	0.002	0.0136	0.0143	5.0	0.95
MW002	2021-10-28	B-D	mg/L	0.1	0.1	0.72	0.77	6.7	0.94
MW002	2021-10-28	Be-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
MW002	2021-10-28	Bicarb	mg/L	1	1	350	340	2.9	1.03
MW002	2021-10-28	Bi-D	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
MW002	2021-10-28	Br-D	mg/L	0.05	0.05	0.23	0.26	12.2	0.88
MW002	2021-10-28	Ca-D	mg/L	0.1	0.1	469	482	2.7	0.97
MW002	2021-10-28	Carb	mg/L	1	1	<1.0	<1.0	0.0	1.00

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
MW002	2021-10-28	Cd-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
MW002	2021-10-28	Cl-D	mg/L	1	1	1.7	1.6	6.1	1.06
MW002	2021-10-28	Co-D	mg/L	0.0004	0.0004	0.00332	0.00327	1.5	1.02
MW002	2021-10-28	Cr-D	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
MW002	2021-10-28	Cu-D	mg/L	0.0004	0.0004	<0.00040	<0.00040	0.0	1.00
MW002	2021-10-28	DOC	mg/L	0.5	0.5	0.96	2.0	70.3	0.48
MW002	2021-10-28	F-D	mg/L	0.05	0.05	0.13	0.13	0.0	1.00
MW002	2021-10-28	Fe-D	mg/L	0.01	0.01	4.42	4.57	3.3	0.97
MW002	2021-10-28	H2S	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
MW002	2021-10-28	Hard-D	mg/L	0.5	0.5	1370	1410	2.9	0.97
MW002	2021-10-28	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
MW002	2021-10-28	Hydrox	mg/L	1	1	<1.0	<1.0	0.0	1.00
MW002	2021-10-28	K-D	mg/L	0.1	0.1	5.51	5.74	4.1	0.96
MW002	2021-10-28	Mg-D	mg/L	0.1	0.1	48.0	49.9	3.9	0.96
MW002	2021-10-28	Mn-D	mg/L	0.002	0.002	1.38	1.40	1.4	0.99
MW002	2021-10-28	Mo-D	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
MW002	2021-10-28	Na-D	mg/L	0.1	0.1	61.7	63.8	3.3	0.97
MW002	2021-10-28	N-D	mg/L	0.02	0.02	0.278	0.267	4.0	1.04
MW002	2021-10-28	Ni-D	mg/L	0.002	0.002	0.0024	0.0025	4.1	0.96
MW002	2021-10-28	Pb-D	mg/L	0.0004	0.0004	<0.00040	<0.00040	0.0	1.00
MW002	2021-10-28	P-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
MW002	2021-10-28	S2-T	mg/L	0.0018	0.0018	<0.0018	<0.0018	0.0	1.00
MW002	2021-10-28	Sb-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MW002	2021-10-28	S-D	mg/L	6	6	395	417	5.4	0.95
MW002	2021-10-28	Se-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
MW002	2021-10-28	Si-D	mg/L	0.2	0.2	3.83	4.06	5.8	0.94
MW002	2021-10-28	SO4-D	mg/L	10	10	1300	1300	0.0	1.00
MW002	2021-10-28	Sr-D	mg/L	0.002	0.002	4.15	4.29	3.3	0.97
MW002	2021-10-28	Ti-D	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
MW002	2021-10-28	Tl-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
MW002	2021-10-28	Turb	NTU	0.1	0.1	51	38	29.2	1.34
MW002	2021-10-28	U-D	mg/L	0.0002	0.0002	0.00037	0.00039	5.3	0.95
MW002	2021-10-28	V-D	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
MW002	2021-10-28	Zn-D	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
MW002	2021-10-28	Zr-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
MW004	2021-05-13	Acidity45	mg/L	1	1	<1.0	<1.0	0.0	1.00
MW004	2021-05-13	Acidity83	mg/L	1	1	9.8	9.5	3.1	1.03
MW004	2021-05-13	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
MW004	2021-05-13	Al-D	mg/L	0.003	0.003	0.0044	0.0049	10.8	0.90
MW004	2021-05-13	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
MW004	2021-05-13	Alk-T	mg/L	1	1	130	130	0.0	1.00
MW004	2021-05-13	As-D	mg/L	0.0001	0.0001	0.00023	0.00025	8.3	0.92
MW004	2021-05-13	Ba-D	mg/L	0.001	0.001	0.0274	0.0268	2.2	1.02
MW004	2021-05-13	B-D	mg/L	0.05	0.05	0.209	0.204	2.4	1.02
MW004	2021-05-13	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MW004	2021-05-13	Bicarb	mg/L	1	1	160	160	0.0	1.00
MW004	2021-05-13	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MW004	2021-05-13	Br-D	mg/L	0.01	0.01	0.053	0.046	14.1	1.15
MW004	2021-05-13	Ca-D	mg/L	0.05	0.05	146	149	2.0	0.98
MW004	2021-05-13	Carb	mg/L	1	1	<1.0	<1.0	0.0	1.00
MW004	2021-05-13	Cd-D	mg/L	0.00001	0.00001	<0.000010	0.000025	133.3	0.20
MW004	2021-05-13	Cl-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
MW004	2021-05-13	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
MW004	2021-05-13	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MW004	2021-05-13	Cu-D	mg/L	0.0002	0.0002	0.00117	0.00134	13.5	0.87
MW004	2021-05-13	F-D	mg/L	0.05	0.05	0.080	0.081	1.2	0.99
MW004	2021-05-13	Fe-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MW004	2021-05-13	H2S	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
MW004	2021-05-13	Hard-D	mg/L	0.5	0.5	435	442	1.6	0.98
MW004	2021-05-13	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
MW004	2021-05-13	Hydrox	mg/L	1	1	<1.0	<1.0	0.0	1.00
MW004	2021-05-13	K-D	mg/L	0.05	0.05	1.57	1.58	0.6	0.99
MW004	2021-05-13	Mg-D	mg/L	0.05	0.05	17.4	17.1	1.7	1.02
MW004	2021-05-13	Mn-D	mg/L	0.001	0.001	0.0119	0.0128	7.3	0.93
MW004	2021-05-13	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MW004	2021-05-13	Na-D	mg/L	0.05	0.05	33.7	33.1	1.8	1.02
MW004	2021-05-13	N-D	mg/L	0.02	0.02	0.229	0.197	15.0	1.16

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Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
MW004	2021-05-13	Ni-D	mg/L	0.001	0.001	0.0010	<0.0010	66.7	2.00
MW004	2021-05-13	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
MW004	2021-05-13	P-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
MW004	2021-05-13	S2-T	mg/L	0.0018	0.0018	<0.0018	<0.0018	0.0	1.00
MW004	2021-05-13	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
MW004	2021-05-13	S-D	mg/L	3	3	131	125	4.7	1.05
MW004	2021-05-13	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MW004	2021-05-13	Si-D	mg/L	0.1	0.1	2.97	3.06	3.0	0.97
MW004	2021-05-13	SO4-D	mg/L	10	10	430	410	4.8	1.05
MW004	2021-05-13	Sr-D	mg/L	0.001	0.001	1.19	1.18	0.8	1.01
MW004	2021-05-13	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MW004	2021-05-13	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
MW004	2021-05-13	Turb	NTU	0.1	0.1	0.49	0.46	6.3	1.07
MW004	2021-05-13	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MW004	2021-05-13	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MW004	2021-05-13	Zn-D	mg/L	0.005	0.005	0.0120	0.0100	18.2	1.20
MW004	2021-05-13	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MW004	2021-11-29	Acidity83	mg/L	2	2	4.6	5.9	24.8	0.78
MW004	2021-11-29	Ag-D	mg/L	0.00001	0.00001	<0.00001	<0.00001	0.0	1.00
MW004	2021-11-29	Ag-T	mg/L	0.00001	0.00001	<0.00001	<0.00001	0.0	1.00
MW004	2021-11-29	Al-D	mg/L	0.001	0.001	0.0147	0.0144	2.1	1.02
MW004	2021-11-29	Alk-B	mg/L	1	1	86.7	90.2	4.0	0.96
MW004	2021-11-29	Alk-C	mg/L	1	1	<1.0	<1.0	0.0	1.00
MW004	2021-11-29	Alk-OH	mg/L	1	1	<1.0	<1.0	0.0	1.00
MW004	2021-11-29	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
MW004	2021-11-29	Alk-T	mg/L	1	1	86.7	90.2	4.0	0.96
MW004	2021-11-29	Al-T	mg/L	0.002	0.002	0.275	0.265	3.7	1.04
MW004	2021-11-29	As-D	mg/L	0.00005	0.00005	0.000265	0.000255	3.8	1.04
MW004	2021-11-29	As-T	mg/L	0.00005	0.00005	0.00103	0.00102	1.0	1.01
MW004	2021-11-29	Ba-D	mg/L	0.0001	0.0001	0.0178	0.0175	1.7	1.02
MW004	2021-11-29	Ba-T	mg/L	0.0001	0.0001	0.022	0.0203	8.0	1.08
MW004	2021-11-29	B-D	mg/L	0.002	0.002	0.179	0.171	4.6	1.05
MW004	2021-11-29	Be-D	mg/L	0.00001	0.00001	<0.00001	<0.00001	0.0	1.00
MW004	2021-11-29	Be-T	mg/L	0.00001	0.00001	0.00003	0.000012	85.7	2.50
MW004	2021-11-29	Bi-D	mg/L	0.00001	0.00001	<0.00001	<0.00001	0.0	1.00
MW004	2021-11-29	Bi-T	mg/L	0.00001	0.00001	<0.00001	<0.00001	0.0	1.00
MW004	2021-11-29	Br-D	mg/L	0.1	0.1	<0.10	<0.10	0.0	1.00
MW004	2021-11-29	B-T	mg/L	0.002	0.002	0.246	0.214	13.9	1.15
MW004	2021-11-29	Ca-D	mg/L	0.04	0.04	120	116	3.4	1.03
MW004	2021-11-29	Ca-T	mg/L	0.04	0.04	131	120	8.8	1.09
MW004	2021-11-29	Cd-D	mg/L	0.000002	0.000002	0.0000079	0.0000053	39.4	1.49
MW004	2021-11-29	Cd-T	mg/L	0.000002	0.000002	0.0000154	0.0000161	4.4	0.96
MW004	2021-11-29	Cl-D	mg/L	0.53	0.53	0.62	0.53	15.7	1.17
MW004	2021-11-29	Co-D	mg/L	0.000005	0.000005	0.000267	0.000272	1.9	0.98
MW004	2021-11-29	Co-T	mg/L	0.000005	0.000005	0.000248	0.000233	6.2	1.06
MW004	2021-11-29	Cr-D	mg/L	0.0001	0.0001	0.00016	0.00017	6.1	0.94
MW004	2021-11-29	Cr-T	mg/L	0.0001	0.0001	0.00041	0.00033	21.6	1.24
MW004	2021-11-29	Cu-D	mg/L	0.0001	0.0001	0.00128	0.00126	1.6	1.02
MW004	2021-11-29	Cu-T	mg/L	0.0002	0.0002	0.00206	0.0018	13.5	1.14
MW004	2021-11-29	DOC	mg/L	0.5	0.5	2.71	2.61	3.8	1.04
MW004	2021-11-29	F-D	mg/L	0.12	0.12	0.11	0.12	8.7	0.92
MW004	2021-11-29	Fe-D	mg/L	0.002	0.002	0.0029	0.0032	9.8	0.91
MW004	2021-11-29	Fe-T	mg/L	0.002	0.002	0.0928	0.0772	18.4	1.20
MW004	2021-11-29	H2S	mg/L	0.01	0.01	<0.01	<0.01	0.0	1.00
MW004	2021-11-29	Hard-T	mg/L	349	349	362	349	3.7	1.04
MW004	2021-11-29	Hg-D	mg/L	0.000005	0.000005	<0.000005	<0.000005	0.0	1.00
MW004	2021-11-29	Hg-T	mg/L	0.000005	0.000005	<0.000005	<0.000005	0.0	1.00
MW004	2021-11-29	K-D	mg/L	0.01	0.01	1.3	1.27	2.3	1.02
MW004	2021-11-29	K-T	mg/L	0.01	0.01	1.35	1.3	3.8	1.04
MW004	2021-11-29	Li-T	mg/L	0.00005	0.00005	0.00694	0.00672	3.2	1.03
MW004	2021-11-29	Mg-D	mg/L	0.005	0.005	14.8	14.6	1.4	1.01
MW004	2021-11-29	Mg-T	mg/L	0.005	0.005	16.1	15.6	3.2	1.03
MW004	2021-11-29	Mn-D	mg/L	0.00005	0.00005	0.0116	0.0124	6.7	0.94
MW004	2021-11-29	Mn-T	mg/L	0.00005	0.00005	0.0111	0.0107	3.7	1.04
MW004	2021-11-29	Mo-D	mg/L	0.00001	0.00001	0.000156	0.000206	27.6	0.76
MW004	2021-11-29	Mo-T	mg/L	0.00001	0.00001	0.000248	0.000234	5.8	1.06
MW004	2021-11-29	Na-D	mg/L	0.02	0.02	26.3	26.1	0.8	1.01

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
MW004	2021-11-29	Na-T	mg/L	0.02	0.02	27.5	26.7	3.0	1.03
MW004	2021-11-29	Ni-D	mg/L	0.00004	0.00004	0.0022	0.00211	4.2	1.04
MW004	2021-11-29	Ni-T	mg/L	0.00004	0.00004	0.00252	0.00232	8.3	1.09
MW004	2021-11-29	N-TKN	mg/L	0.05	0.05	0.143	0.114	22.6	1.25
MW004	2021-11-29	Pb-D	mg/L	0.00005	0.00005	<0.00005	<0.00005	0.0	1.00
MW004	2021-11-29	Pb-T	mg/L	0.00005	0.00005	<0.000064	<0.00005	24.6	1.28
MW004	2021-11-29	P-D	mg/L	0.005	0.005	0.0102	0.0096	6.1	1.06
MW004	2021-11-29	P-T	mg/L	0.01	0.01	<0.01	<0.01	0.0	1.00
MW004	2021-11-29	S2-T	mg/L	0.02	0.02	<0.020	<0.020	0.0	1.00
MW004	2021-11-29	Sb-D	mg/L	0.00005	0.00005	<0.00005	<0.00005	0.0	1.00
MW004	2021-11-29	Sb-T	mg/L	0.00005	0.00005	0.000174	0.000119	37.5	1.46
MW004	2021-11-29	S-D	mg/L	1	1	112	110	1.8	1.02
MW004	2021-11-29	Se-D	mg/L	0.0001	0.0001	<0.0001	<0.0001	0.0	1.00
MW004	2021-11-29	Se-T	mg/L	0.0001	0.0001	0.00015	<0.0001	100.0	3.00
MW004	2021-11-29	Si-D	mg/L	0.1	0.1	3.37	3.51	4.1	0.96
MW004	2021-11-29	Si-T	mg/L	0.1	0.1	4.1	4.11	0.2	1.00
MW004	2021-11-29	Sn-T	mg/L	0.00005	0.00005	0.00006	<0.00005	82.4	2.40
MW004	2021-11-29	SO4-D	mg/L	50	50	272	292	7.1	0.93
MW004	2021-11-29	Sr-D	mg/L	0.0001	0.0001	0.781	0.767	1.8	1.02
MW004	2021-11-29	Sr-T	mg/L	0.0001	0.0001	0.792	0.763	3.7	1.04
MW004	2021-11-29	S-T	mg/L	1	1	137	135	1.5	1.01
MW004	2021-11-29	Ti-D	mg/L	0.0002	0.0002	<0.0002	<0.0002	0.0	1.00
MW004	2021-11-29	Ti-T	mg/L	0.0002	0.0002	0.00049	0.00041	17.8	1.20
MW004	2021-11-29	Tl-D	mg/L	0.000004	0.000004	<0.000004	<0.000004	0.0	1.00
MW004	2021-11-29	Tl-T	mg/L	0.000004	0.000004	<0.000004	<0.000004	0.0	1.00
MW004	2021-11-29	Turb	NTU	0.1	0.1	0.00138	0.00142	2.9	0.97
MW004	2021-11-29	U-D	mg/L	0.000001	0.000001	0.0000185	0.0000166	10.8	1.11
MW004	2021-11-29	U-T	mg/L	0.000001	0.000001	0.0000231	0.0000195	16.9	1.18
MW004	2021-11-29	V-D	mg/L	0.0002	0.0002	<0.0002	<0.0002	0.0	1.00
MW004	2021-11-29	V-T	mg/L	0.0002	0.0002	0.0002	<0.0002	66.7	2.00
MW004	2021-11-29	Zn-D	mg/L	0.001	0.001	0.0045	0.0039	14.3	1.15
MW004	2021-11-29	Zn-T	mg/L	0.001	0.001	0.0128	0.0112	13.3	1.14
MW004	2021-11-29	Zr-D	mg/L	0.00002	0.00002	<0.00002	<0.00002	0.0	1.00
MW004	2021-11-29	Zr-T	mg/L	0.00002	0.00002	0.000028	0.000021	28.6	1.33
MW004	2022-01-19	Acidity45	mg/L	1	1	<1.0	<1.0	0.0	1.00
MW004	2022-01-19	Acidity83	mg/L	1	1	1.2	1.4	15.4	0.86
MW004	2022-01-19	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
MW004	2022-01-19	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
MW004	2022-01-19	Al-D	mg/L	0.003	0.003	0.0141	0.0102	32.1	1.38
MW004	2022-01-19	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
MW004	2022-01-19	Alk-T	mg/L	1	1	85	84	1.2	1.01
MW004	2022-01-19	Al-T	mg/L	0.003	0.003	0.226	0.236	4.3	0.96
MW004	2022-01-19	As-D	mg/L	0.0001	0.0001	0.00029	0.00029	0.0	1.00
MW004	2022-01-19	As-T	mg/L	0.0001	0.0001	0.00119	0.00120	0.8	0.99
MW004	2022-01-19	Ba-D	mg/L	0.001	0.001	0.0171	0.0171	0.0	1.00
MW004	2022-01-19	Ba-T	mg/L	0.001	0.001	0.0164	0.0172	4.8	0.95
MW004	2022-01-19	B-D	mg/L	0.05	0.05	0.157	0.156	0.6	1.01
MW004	2022-01-19	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MW004	2022-01-19	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MW004	2022-01-19	Bicarb	mg/L	1	1	100	100	0.0	1.00
MW004	2022-01-19	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MW004	2022-01-19	Bi-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MW004	2022-01-19	Br-D	mg/L	0.01	0.01	0.013	0.013	0.0	1.00
MW004	2022-01-19	B-T	mg/L	0.05	0.05	0.152	0.160	5.1	0.95
MW004	2022-01-19	Ca-D	mg/L	0.05	0.05	126	124	1.6	1.02
MW004	2022-01-19	Carb	mg/L	1	1	<1.0	<1.0	0.0	1.00
MW004	2022-01-19	Ca-T	mg/L	0.05	0.05	119	125	4.9	0.95
MW004	2022-01-19	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
MW004	2022-01-19	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
MW004	2022-01-19	Cl-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
MW004	2022-01-19	Co-D	mg/L	0.0002	0.0002	0.00036	0.00038	5.4	0.95
MW004	2022-01-19	Co-T	mg/L	0.0002	0.0002	0.00039	0.00039	0.0	1.00
MW004	2022-01-19	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MW004	2022-01-19	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MW004	2022-01-19	Cu-D	mg/L	0.0002	0.0002	0.00096	0.00091	5.3	1.05
MW004	2022-01-19	Cu-T	mg/L	0.0005	0.0005	0.00172	0.00127	30.1	1.35
MW004	2022-01-19	DOC	mg/L	0.5	0.5	1.7	1.7	0.0	1.00

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Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
MW004	2022-01-19	F-D	mg/L	0.05	0.05	0.071	0.070	1.4	1.01
MW004	2022-01-19	Fe-D	mg/L	0.005	0.005	0.0255	0.0220	14.7	1.16
MW004	2022-01-19	Fe-T	mg/L	0.01	0.01	0.175	0.173	1.1	1.01
MW004	2022-01-19	H2S	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
MW004	2022-01-19	Hard-D	mg/L	0.5	0.5	381	375	1.6	1.02
MW004	2022-01-19	Hard-T	mg/L	0.5	0.5	361	379	4.9	0.95
MW004	2022-01-19	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
MW004	2022-01-19	Hydrox	mg/L	1	1	<1.0	<1.0	0.0	1.00
MW004	2022-01-19	K-D	mg/L	0.05	0.05	1.12	1.11	0.9	1.01
MW004	2022-01-19	K-T	mg/L	0.05	0.05	1.06	1.11	4.6	0.95
MW004	2022-01-19	Li-T	mg/L	0.002	0.002	0.0055	0.0060	8.7	0.92
MW004	2022-01-19	Mg-D	mg/L	0.05	0.05	16.3	16.0	1.9	1.02
MW004	2022-01-19	Mg-T	mg/L	0.05	0.05	15.7	16.4	4.4	0.96
MW004	2022-01-19	Mn-D	mg/L	0.001	0.001	0.0263	0.0258	1.9	1.02
MW004	2022-01-19	Mn-T	mg/L	0.001	0.001	0.0269	0.0279	3.6	0.96
MW004	2022-01-19	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MW004	2022-01-19	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MW004	2022-01-19	Na-D	mg/L	0.05	0.05	23.6	23.2	1.7	1.02
MW004	2022-01-19	Na-T	mg/L	0.05	0.05	22.6	23.6	4.3	0.96
MW004	2022-01-19	N-D	mg/L	0.02	0.02	0.094	0.079	17.3	1.19
MW004	2022-01-19	Ni-D	mg/L	0.001	0.001	0.0021	0.0022	4.7	0.95
MW004	2022-01-19	Ni-T	mg/L	0.001	0.001	0.0021	0.0021	0.0	1.00
MW004	2022-01-19	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
MW004	2022-01-19	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
MW004	2022-01-19	P-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
MW004	2022-01-19	S2-T	mg/L	0.0018	0.0018	<0.0018	<0.0018	0.0	1.00
MW004	2022-01-19	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
MW004	2022-01-19	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
MW004	2022-01-19	S-D	mg/L	3	3	122	117	4.2	1.04
MW004	2022-01-19	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MW004	2022-01-19	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MW004	2022-01-19	Si-D	mg/L	0.1	0.1	3.41	3.39	0.6	1.01
MW004	2022-01-19	Si-T	mg/L	0.1	0.1	3.25	3.50	7.4	0.93
MW004	2022-01-19	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MW004	2022-01-19	SO4-D	mg/L	10	10	290	260	10.9	1.12
MW004	2022-01-19	Sr-D	mg/L	0.001	0.001	0.863	0.860	0.3	1.00
MW004	2022-01-19	Sr-T	mg/L	0.001	0.001	0.806	0.876	8.3	0.92
MW004	2022-01-19	S-T	mg/L	3	3	113	117	3.5	0.97
MW004	2022-01-19	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MW004	2022-01-19	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MW004	2022-01-19	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
MW004	2022-01-19	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
MW004	2022-01-19	Turb	NTU	0.1	0.1	0.97	0.95	2.1	1.02
MW004	2022-01-19	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MW004	2022-01-19	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MW004	2022-01-19	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MW004	2022-01-19	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MW004	2022-01-19	Zn-D	mg/L	0.005	0.005	0.0060	0.0056	6.9	1.07
MW004	2022-01-19	Zn-T	mg/L	0.005	0.005	0.0107	0.0145	30.2	0.74
MW004	2022-01-19	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MW004	2022-01-19	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MW006S	2021-06-21	Acidity45	mg/L	1	1	<1.0	<1.0	0.0	1.00
MW006S	2021-06-21	Acidity83	mg/L	1	1	2.7	4.0	38.8	0.68
MW006S	2021-06-21	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
MW006S	2021-06-21	Al-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
MW006S	2021-06-21	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
MW006S	2021-06-21	Alk-T	mg/L	1	1	150	160	6.5	0.94
MW006S	2021-06-21	As-D	mg/L	0.0001	0.0001	0.00155	0.00152	2.0	1.02
MW006S	2021-06-21	Ba-D	mg/L	0.001	0.001	0.0314	0.0313	0.3	1.00
MW006S	2021-06-21	B-D	mg/L	0.05	0.05	0.161	0.160	0.6	1.01
MW006S	2021-06-21	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MW006S	2021-06-21	Bicar	mg/L	1	1	180	190	5.4	0.95
MW006S	2021-06-21	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MW006S	2021-06-21	Br-D	mg/L	0.01	0.01	0.10	0.076	27.3	1.32
MW006S	2021-06-21	Ca-D	mg/L	0.05	0.05	133	134	0.7	0.99
MW006S	2021-06-21	Carb	mg/L	1	1	<1.0	<1.0	0.0	1.00
MW006S	2021-06-21	Cd-D	mg/L	0.00001	0.00001	0.000018	0.000018	0.0	1.00

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Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
MW006S	2021-06-21	Cl-D	mg/L	1	1	3.5	3.8	8.2	0.92
MW006S	2021-06-21	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
MW006S	2021-06-21	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MW006S	2021-06-21	Cu-D	mg/L	0.0002	0.0002	0.00071	0.00073	2.8	0.97
MW006S	2021-06-21	DOC	mg/L	0.5	0.5	1.3	1.4	7.4	0.93
MW006S	2021-06-21	F-D	mg/L	0.05	0.05	0.061	0.066	7.9	0.92
MW006S	2021-06-21	Fe-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MW006S	2021-06-21	H2S	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
MW006S	2021-06-21	Hard-D	mg/L	0.5	0.5	385	388	0.8	0.99
MW006S	2021-06-21	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
MW006S	2021-06-21	Hydrox	mg/L	1	1	<1.0	<1.0	0.0	1.00
MW006S	2021-06-21	K-D	mg/L	0.05	0.05	2.09	2.13	1.9	0.98
MW006S	2021-06-21	Mg-D	mg/L	0.05	0.05	12.7	12.9	1.6	0.98
MW006S	2021-06-21	Mn-D	mg/L	0.001	0.001	0.0259	0.0301	15.0	0.86
MW006S	2021-06-21	Mo-D	mg/L	0.001	0.001	0.0294	0.0293	0.3	1.00
MW006S	2021-06-21	Na-D	mg/L	0.05	0.05	131	133	1.5	0.98
MW006S	2021-06-21	N-D	mg/L	0.02	0.02	0.237	0.219	7.9	1.08
MW006S	2021-06-21	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MW006S	2021-06-21	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
MW006S	2021-06-21	P-D	mg/L	0.003	0.003	0.048	0.046	4.3	1.04
MW006S	2021-06-21	S2-T	mg/L	0.0018	0.0018	<0.0018	<0.0018	0.0	1.00
MW006S	2021-06-21	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
MW006S	2021-06-21	S-D	mg/L	3	3	187	190	1.6	0.98
MW006S	2021-06-21	Se-D	mg/L	0.0001	0.0001	0.00027	0.00026	3.8	1.04
MW006S	2021-06-21	Si-D	mg/L	0.1	0.1	4.54	4.41	2.9	1.03
MW006S	2021-06-21	SO4-D	mg/L	10	10	560	600	6.9	0.93
MW006S	2021-06-21	Sr-D	mg/L	0.001	0.001	0.790	0.799	1.1	0.99
MW006S	2021-06-21	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MW006S	2021-06-21	Ti-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
MW006S	2021-06-21	Turb	NTU	0.1	0.1	0.26	0.22	16.7	1.18
MW006S	2021-06-21	U-D	mg/L	0.0001	0.0001	0.00600	0.00609	1.5	0.99
MW006S	2021-06-21	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MW006S	2021-06-21	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MW006S	2021-06-21	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
NNL1	2021-04-07	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
NNL1	2021-04-07	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
NNL1	2021-04-07	Al-D	mg/L	0.003	0.003	0.0286	0.0291	1.7	0.98
NNL1	2021-04-07	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
NNL1	2021-04-07	Alk-T	mg/L	1	1	10	10	0.0	1.00
NNL1	2021-04-07	Al-T	mg/L	0.003	0.003	0.0361	0.0370	2.5	0.98
NNL1	2021-04-07	As-D	mg/L	0.0001	0.0001	0.00017	0.00017	0.0	1.00
NNL1	2021-04-07	As-T	mg/L	0.0001	0.0001	0.00022	0.00021	4.7	1.05
NNL1	2021-04-07	Ba-D	mg/L	0.001	0.001	<0.0010	0.0010	66.7	0.50
NNL1	2021-04-07	Ba-T	mg/L	0.001	0.001	0.0011	0.0011	0.0	1.00
NNL1	2021-04-07	B-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
NNL1	2021-04-07	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
NNL1	2021-04-07	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
NNL1	2021-04-07	Bicarb	mg/L	1	1	12	13	8.0	0.92
NNL1	2021-04-07	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
NNL1	2021-04-07	Bi-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
NNL1	2021-04-07	B-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
NNL1	2021-04-07	Ca-D	mg/L	0.05	0.05	3.44	3.40	1.2	1.01
NNL1	2021-04-07	Carb	mg/L	1	1	<1.0	<1.0	0.0	1.00
NNL1	2021-04-07	Ca-T	mg/L	0.05	0.05	3.54	3.53	0.3	1.00
NNL1	2021-04-07	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
NNL1	2021-04-07	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
NNL1	2021-04-07	Cl-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
NNL1	2021-04-07	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
NNL1	2021-04-07	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
NNL1	2021-04-07	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
NNL1	2021-04-07	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
NNL1	2021-04-07	Cu-D	mg/L	0.0002	0.0002	0.00036	0.00037	2.7	0.97
NNL1	2021-04-07	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
NNL1	2021-04-07	DOC	mg/L	0.5	0.5	2.2	2.3	4.4	0.96
NNL1	2021-04-07	Fe-D	mg/L	0.005	0.005	0.0385	0.0376	2.4	1.02
NNL1	2021-04-07	Fe-T	mg/L	0.01	0.01	0.071	0.072	1.4	0.99
NNL1	2021-04-07	Hard-D	mg/L	0.5	0.5	11.9	11.9	0.0	1.00

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Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
NNL1	2021-04-07	Hard-T	mg/L	0.5	0.5	12.3	12.2	0.8	1.01
NNL1	2021-04-07	Hg-D	mg/L	0.0000019	0.0000019	0.0000021	<0.0000019	75.4	2.21
NNL1	2021-04-07	Hg-T	mg/L	0.0000019	0.0000019	0.0000022	0.0000025	12.8	0.88
NNL1	2021-04-07	Hydrox	mg/L	1	1	<1.0	<1.0	0.0	1.00
NNL1	2021-04-07	K-D	mg/L	0.05	0.05	0.054	0.055	1.8	0.98
NNL1	2021-04-07	K-T	mg/L	0.05	0.05	<0.050	0.054	73.4	0.46
NNL1	2021-04-07	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
NNL1	2021-04-07	Mg-D	mg/L	0.05	0.05	0.802	0.825	2.8	0.97
NNL1	2021-04-07	Mg-T	mg/L	0.05	0.05	0.834	0.831	0.4	1.00
NNL1	2021-04-07	Mn-D	mg/L	0.001	0.001	0.0026	0.0026	0.0	1.00
NNL1	2021-04-07	Mn-T	mg/L	0.001	0.001	0.0039	0.0039	0.0	1.00
NNL1	2021-04-07	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
NNL1	2021-04-07	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
NNL1	2021-04-07	Na-D	mg/L	0.05	0.05	1.02	1.02	0.0	1.00
NNL1	2021-04-07	Na-T	mg/L	0.05	0.05	1.03	1.06	2.9	0.97
NNL1	2021-04-07	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
NNL1	2021-04-07	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
NNL1	2021-04-07	N-NO2	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
NNL1	2021-04-07	N-NO23	mg/L	0.02	0.02	<0.020	<0.020	0.0	1.00
NNL1	2021-04-07	N-NO3	mg/L	0.02	0.02	<0.020	<0.020	0.0	1.00
NNL1	2021-04-07	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
NNL1	2021-04-07	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
NNL1	2021-04-07	P-D	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
NNL1	2021-04-07	P-T	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
NNL1	2021-04-07	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
NNL1	2021-04-07	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
NNL1	2021-04-07	S-D	mg/L	3	3	<3.0	<3.0	0.0	1.00
NNL1	2021-04-07	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
NNL1	2021-04-07	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
NNL1	2021-04-07	Si-D	mg/L	0.1	0.1	3.10	3.14	1.3	0.99
NNL1	2021-04-07	Si-T	mg/L	0.1	0.1	3.09	3.16	2.2	0.98
NNL1	2021-04-07	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
NNL1	2021-04-07	SO4-D	mg/L	1	1	1.5	1.6	6.5	0.94
NNL1	2021-04-07	Sr-D	mg/L	0.001	0.001	0.0113	0.0113	0.0	1.00
NNL1	2021-04-07	Sr-T	mg/L	0.001	0.001	0.0113	0.0113	0.0	1.00
NNL1	2021-04-07	S-T	mg/L	3	3	<3.0	<3.0	0.0	1.00
NNL1	2021-04-07	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
NNL1	2021-04-07	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
NNL1	2021-04-07	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
NNL1	2021-04-07	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
NNL1	2021-04-07	Turb	NTU	0.1	0.1	0.39	0.51	26.7	0.76
NNL1	2021-04-07	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
NNL1	2021-04-07	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
NNL1	2021-04-07	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
NNL1	2021-04-07	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
NNL1	2021-04-07	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
NNL1	2021-04-07	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
NNL1	2021-04-07	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
NNL1	2021-04-07	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
NNL4	2021-04-14	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
NNL4	2021-04-14	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
NNL4	2021-04-14	Al-D	mg/L	0.003	0.003	0.0256	0.0272	6.1	0.94
NNL4	2021-04-14	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
NNL4	2021-04-14	Alk-T	mg/L	1	1	11	11	0.0	1.00
NNL4	2021-04-14	Al-T	mg/L	0.003	0.003	0.0343	0.0339	1.2	1.01
NNL4	2021-04-14	As-D	mg/L	0.0001	0.0001	0.00021	0.00020	4.9	1.05
NNL4	2021-04-14	As-T	mg/L	0.0001	0.0001	0.00021	0.00022	4.7	0.95
NNL4	2021-04-14	Ba-D	mg/L	0.001	0.001	0.0011	0.0011	0.0	1.00
NNL4	2021-04-14	Ba-T	mg/L	0.001	0.001	0.0011	0.0010	9.5	1.10
NNL4	2021-04-14	B-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
NNL4	2021-04-14	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
NNL4	2021-04-14	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
NNL4	2021-04-14	Bicarb	mg/L	1	1	14	14	0.0	1.00
NNL4	2021-04-14	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
NNL4	2021-04-14	Bi-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
NNL4	2021-04-14	B-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
NNL4	2021-04-14	Ca-D	mg/L	0.05	0.05	3.67	3.58	2.5	1.03

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
NNL4	2021-04-14	Carb	mg/L	1	1	<1.0	<1.0	0.0	1.00
NNL4	2021-04-14	Ca-T	mg/L	0.05	0.05	3.75	3.76	0.3	1.00
NNL4	2021-04-14	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
NNL4	2021-04-14	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
NNL4	2021-04-14	Cl-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
NNL4	2021-04-14	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
NNL4	2021-04-14	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
NNL4	2021-04-14	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
NNL4	2021-04-14	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
NNL4	2021-04-14	Cu-D	mg/L	0.0002	0.0002	0.00036	0.00040	10.5	0.90
NNL4	2021-04-14	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
NNL4	2021-04-14	DOC	mg/L	0.5	0.5	2.7	2.6	3.8	1.04
NNL4	2021-04-14	Fe-D	mg/L	0.005	0.005	0.0387	0.0381	1.6	1.02
NNL4	2021-04-14	Fe-T	mg/L	0.01	0.01	0.069	0.069	0.0	1.00
NNL4	2021-04-14	Hard-D	mg/L	0.5	0.5	12.5	12.5	0.0	1.00
NNL4	2021-04-14	Hard-T	mg/L	0.5	0.5	12.8	12.8	0.0	1.00
NNL4	2021-04-14	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
NNL4	2021-04-14	Hg-T	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
NNL4	2021-04-14	Hydrox	mg/L	1	1	<1.0	<1.0	0.0	1.00
NNL4	2021-04-14	K-D	mg/L	0.05	0.05	0.054	0.060	10.5	0.90
NNL4	2021-04-14	K-T	mg/L	0.05	0.05	0.060	0.061	1.7	0.98
NNL4	2021-04-14	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
NNL4	2021-04-14	Mg-D	mg/L	0.05	0.05	0.806	0.852	5.5	0.95
NNL4	2021-04-14	Mg-T	mg/L	0.05	0.05	0.841	0.833	1.0	1.01
NNL4	2021-04-14	Mn-D	mg/L	0.001	0.001	0.0020	0.0020	0.0	1.00
NNL4	2021-04-14	Mn-T	mg/L	0.001	0.001	0.0038	0.0037	2.7	1.03
NNL4	2021-04-14	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
NNL4	2021-04-14	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
NNL4	2021-04-14	Na-D	mg/L	0.05	0.05	1.03	1.06	2.9	0.97
NNL4	2021-04-14	Na-T	mg/L	0.05	0.05	1.03	1.05	1.9	0.98
NNL4	2021-04-14	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
NNL4	2021-04-14	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
NNL4	2021-04-14	N-NO2	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
NNL4	2021-04-14	N-NO3	mg/L	0.02	0.02	<0.020	<0.020	0.0	1.00
NNL4	2021-04-14	N-NO3	mg/L	0.02	0.02	<0.020	<0.020	0.0	1.00
NNL4	2021-04-14	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
NNL4	2021-04-14	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
NNL4	2021-04-14	P-D	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
NNL4	2021-04-14	P-T	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
NNL4	2021-04-14	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
NNL4	2021-04-14	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
NNL4	2021-04-14	S-D	mg/L	3	3	<3.0	<3.0	0.0	1.00
NNL4	2021-04-14	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
NNL4	2021-04-14	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
NNL4	2021-04-14	Si-D	mg/L	0.1	0.1	3.07	3.00	2.3	1.02
NNL4	2021-04-14	Si-T	mg/L	0.1	0.1	3.22	3.27	1.5	0.98
NNL4	2021-04-14	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
NNL4	2021-04-14	SO4-D	mg/L	1	1	1.6	1.8	11.8	0.89
NNL4	2021-04-14	Sr-D	mg/L	0.001	0.001	0.0114	0.0117	2.6	0.97
NNL4	2021-04-14	Sr-T	mg/L	0.001	0.001	0.0118	0.0117	0.9	1.01
NNL4	2021-04-14	S-T	mg/L	3	3	<3.0	<3.0	0.0	1.00
NNL4	2021-04-14	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
NNL4	2021-04-14	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
NNL4	2021-04-14	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
NNL4	2021-04-14	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
NNL4	2021-04-14	Turb	NTU	0.1	0.1	0.29	0.32	9.8	0.91
NNL4	2021-04-14	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
NNL4	2021-04-14	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
NNL4	2021-04-14	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
NNL4	2021-04-14	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
NNL4	2021-04-14	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
NNL4	2021-04-14	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
NNL4	2021-04-14	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
NNL4	2021-04-14	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
NNO	2021-04-13	Acidity45	mg/L	1	1	<1.0	<1.0	0.0	1.00
NNO	2021-04-13	Acidity83	mg/L	1	1	<1.0	<1.0	0.0	1.00
NNO	2021-04-13	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00

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Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
NNO	2021-04-13	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
NNO	2021-04-13	Al-D	mg/L	0.003	0.003	0.0256	0.0260	1.6	0.98
NNO	2021-04-13	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
NNO	2021-04-13	Alk-T	mg/L	1	1	12	12	0.0	1.00
NNO	2021-04-13	Al-T	mg/L	0.003	0.003	0.0312	0.0324	3.8	0.96
NNO	2021-04-13	As-D	mg/L	0.0001	0.0001	0.00021	0.00020	4.9	1.05
NNO	2021-04-13	As-T	mg/L	0.0001	0.0001	0.00022	0.00020	9.5	1.10
NNO	2021-04-13	Ba-D	mg/L	0.001	0.001	<0.0010	0.0011	75.0	0.45
NNO	2021-04-13	Ba-T	mg/L	0.001	0.001	0.0010	0.0011	9.5	0.91
NNO	2021-04-13	B-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
NNO	2021-04-13	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
NNO	2021-04-13	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
NNO	2021-04-13	Bicarb	mg/L	1	1	14	15	6.9	0.93
NNO	2021-04-13	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
NNO	2021-04-13	Bi-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
NNO	2021-04-13	B-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
NNO	2021-04-13	Ca-D	mg/L	0.05	0.05	3.59	3.60	0.3	1.00
NNO	2021-04-13	Carb	mg/L	1	1	<1.0	<1.0	0.0	1.00
NNO	2021-04-13	Ca-T	mg/L	0.05	0.05	3.75	3.58	4.6	1.05
NNO	2021-04-13	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
NNO	2021-04-13	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
NNO	2021-04-13	Cl-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
NNO	2021-04-13	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
NNO	2021-04-13	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
NNO	2021-04-13	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
NNO	2021-04-13	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
NNO	2021-04-13	Cu-D	mg/L	0.0002	0.0002	0.00036	0.00042	15.4	0.86
NNO	2021-04-13	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
NNO	2021-04-13	DOC	mg/L	0.5	0.5	2.5	2.3	8.3	1.09
NNO	2021-04-13	Fe-D	mg/L	0.005	0.005	0.0381	0.0407	6.6	0.94
NNO	2021-04-13	Fe-T	mg/L	0.01	0.01	0.062	0.062	0.0	1.00
NNO	2021-04-13	Hard-D	mg/L	0.5	0.5	12.2	12.3	0.8	0.99
NNO	2021-04-13	Hard-T	mg/L	0.5	0.5	12.8	12.3	4.0	1.04
NNO	2021-04-13	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
NNO	2021-04-13	Hg-T	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
NNO	2021-04-13	Hydrox	mg/L	1	1	<1.0	<1.0	0.0	1.00
NNO	2021-04-13	K-D	mg/L	0.05	0.05	0.054	0.054	0.0	1.00
NNO	2021-04-13	K-T	mg/L	0.05	0.05	0.057	0.057	0.0	1.00
NNO	2021-04-13	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
NNO	2021-04-13	Mg-D	mg/L	0.05	0.05	0.793	0.797	0.5	0.99
NNO	2021-04-13	Mg-T	mg/L	0.05	0.05	0.821	0.808	1.6	1.02
NNO	2021-04-13	Mn-D	mg/L	0.001	0.001	0.0022	0.0023	4.4	0.96
NNO	2021-04-13	Mn-T	mg/L	0.001	0.001	0.0033	0.0035	5.9	0.94
NNO	2021-04-13	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
NNO	2021-04-13	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
NNO	2021-04-13	Na-D	mg/L	0.05	0.05	1.02	1.01	1.0	1.01
NNO	2021-04-13	Na-T	mg/L	0.05	0.05	1.04	1.02	1.9	1.02
NNO	2021-04-13	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
NNO	2021-04-13	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
NNO	2021-04-13	N-NH3	mg/L	0.015	0.015	<0.015	<0.015	0.0	1.00
NNO	2021-04-13	N-NO2	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
NNO	2021-04-13	N-NO23	mg/L	0.02	0.02	<0.020	<0.020	0.0	1.00
NNO	2021-04-13	N-NO3	mg/L	0.02	0.02	<0.020	<0.020	0.0	1.00
NNO	2021-04-13	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
NNO	2021-04-13	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
NNO	2021-04-13	P-T	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
NNO	2021-04-13	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
NNO	2021-04-13	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
NNO	2021-04-13	S-D	mg/L	3	3	<3.0	<3.0	0.0	1.00
NNO	2021-04-13	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
NNO	2021-04-13	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
NNO	2021-04-13	Si-D	mg/L	0.1	0.1	3.16	3.18	0.6	0.99
NNO	2021-04-13	Si-T	mg/L	0.1	0.1	3.23	3.14	2.8	1.03
NNO	2021-04-13	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
NNO	2021-04-13	SO4-D	mg/L	1	1	2.1	2.2	4.7	0.95
NNO	2021-04-13	Sr-D	mg/L	0.001	0.001	0.0112	0.0114	1.8	0.98
NNO	2021-04-13	Sr-T	mg/L	0.001	0.001	0.0115	0.0113	1.8	1.02

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Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
NNO	2021-04-13	S-T	mg/L	3	3	<3.0	<3.0	0.0	1.00
NNO	2021-04-13	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
NNO	2021-04-13	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
NNO	2021-04-13	TI-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
NNO	2021-04-13	TI-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
NNO	2021-04-13	TSS	mg/L	1	1	<1.0	<1.0	0.0	1.00
NNO	2021-04-13	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
NNO	2021-04-13	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
NNO	2021-04-13	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
NNO	2021-04-13	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
NNO	2021-04-13	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
NNO	2021-04-13	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
NNO	2021-04-13	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
NNO	2021-04-13	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
NNO	2021-10-18	Acidity45	mg/L	1	1	<1.0	<1.0	0.0	1.00
NNO	2021-10-18	Acidity83	mg/L	1	1	<1.0	<1.0	0.0	1.00
NNO	2021-10-18	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
NNO	2021-10-18	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
NNO	2021-10-18	Al-D	mg/L	0.003	0.003	0.0140	0.0142	1.4	0.99
NNO	2021-10-18	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
NNO	2021-10-18	Alk-T	mg/L	1	1	15	15	0.0	1.00
NNO	2021-10-18	Al-T	mg/L	0.003	0.003	0.0214	0.0192	10.8	1.11
NNO	2021-10-18	As-D	mg/L	0.0001	0.0001	0.00029	0.00029	0.0	1.00
NNO	2021-10-18	As-T	mg/L	0.0001	0.0001	0.00030	0.00029	3.4	1.03
NNO	2021-10-18	Ba-D	mg/L	0.001	0.001	0.0011	0.0012	8.7	0.92
NNO	2021-10-18	Ba-T	mg/L	0.001	0.001	0.0011	0.0011	0.0	1.00
NNO	2021-10-18	B-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
NNO	2021-10-18	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
NNO	2021-10-18	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
NNO	2021-10-18	Bicarb	mg/L	1	1	18	18	0.0	1.00
NNO	2021-10-18	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
NNO	2021-10-18	Bi-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
NNO	2021-10-18	B-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
NNO	2021-10-18	Ca-D	mg/L	0.05	0.05	4.45	4.44	0.2	1.00
NNO	2021-10-18	Carb	mg/L	1	1	<1.0	<1.0	0.0	1.00
NNO	2021-10-18	Ca-T	mg/L	0.05	0.05	4.47	4.45	0.4	1.00
NNO	2021-10-18	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
NNO	2021-10-18	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
NNO	2021-10-18	Cl-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
NNO	2021-10-18	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
NNO	2021-10-18	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
NNO	2021-10-18	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
NNO	2021-10-18	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
NNO	2021-10-18	Cu-D	mg/L	0.0002	0.0002	0.00037	0.00038	2.7	0.97
NNO	2021-10-18	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
NNO	2021-10-18	DOC	mg/L	0.5	0.5	2.9	2.5	14.8	1.16
NNO	2021-10-18	Fe-D	mg/L	0.005	0.005	0.0359	0.0358	0.3	1.00
NNO	2021-10-18	Fe-T	mg/L	0.01	0.01	0.057	0.055	3.6	1.04
NNO	2021-10-18	Hard-D	mg/L	0.5	0.5	14.9	15.0	0.7	0.99
NNO	2021-10-18	Hard-T	mg/L	0.5	0.5	15.3	15.1	1.3	1.01
NNO	2021-10-18	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
NNO	2021-10-18	Hg-T	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
NNO	2021-10-18	Hydrox	mg/L	1	1	<1.0	<1.0	0.0	1.00
NNO	2021-10-18	K-D	mg/L	0.05	0.05	0.064	0.067	4.6	0.96
NNO	2021-10-18	K-T	mg/L	0.05	0.05	0.066	0.064	3.1	1.03
NNO	2021-10-18	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
NNO	2021-10-18	Mg-D	mg/L	0.05	0.05	0.927	0.941	1.5	0.99
NNO	2021-10-18	Mg-T	mg/L	0.05	0.05	0.997	0.974	2.3	1.02
NNO	2021-10-18	Mn-D	mg/L	0.001	0.001	0.0025	0.0026	3.9	0.96
NNO	2021-10-18	Mn-T	mg/L	0.001	0.001	0.0051	0.0047	8.2	1.09
NNO	2021-10-18	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
NNO	2021-10-18	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
NNO	2021-10-18	Na-D	mg/L	0.05	0.05	1.22	1.22	0.0	1.00
NNO	2021-10-18	Na-T	mg/L	0.05	0.05	1.22	1.19	2.5	1.03
NNO	2021-10-18	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
NNO	2021-10-18	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
NNO	2021-10-18	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00

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Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
NNO	2021-10-18	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
NNO	2021-10-18	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
NNO	2021-10-18	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
NNO	2021-10-18	S-D	mg/L	3	3	<3.0	<3.0	0.0	1.00
NNO	2021-10-18	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
NNO	2021-10-18	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
NNO	2021-10-18	Si-D	mg/L	0.1	0.1	3.09	3.09	0.0	1.00
NNO	2021-10-18	Si-T	mg/L	0.1	0.1	3.12	3.03	2.9	1.03
NNO	2021-10-18	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
NNO	2021-10-18	SO4-D	mg/L	1	1	3.4	3.3	3.0	1.03
NNO	2021-10-18	Sr-D	mg/L	0.001	0.001	0.0146	0.0148	1.4	0.99
NNO	2021-10-18	Sr-T	mg/L	0.001	0.001	0.0143	0.0144	0.7	0.99
NNO	2021-10-18	S-T	mg/L	3	3	<3.0	<3.0	0.0	1.00
NNO	2021-10-18	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
NNO	2021-10-18	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
NNO	2021-10-18	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
NNO	2021-10-18	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
NNO	2021-10-18	TSS	mg/L	1	1	1.6	<1.0	104.8	3.20
NNO	2021-10-18	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
NNO	2021-10-18	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
NNO	2021-10-18	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
NNO	2021-10-18	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
NNO	2021-10-18	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
NNO	2021-10-18	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
NNO	2021-10-18	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
NNO	2021-10-18	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
QRDS	2021-07-27	Acidity45	mg/L	1	1	<1.0	<1.0	0.0	1.00
QRDS	2021-07-27	Acidity83	mg/L	1	1	<1.0	<1.0	0.0	1.00
QRDS	2021-07-27	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
QRDS	2021-07-27	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
QRDS	2021-07-27	Al-D	mg/L	0.003	0.003	0.0123	0.0122	0.8	1.01
QRDS	2021-07-27	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
QRDS	2021-07-27	Alk-T	mg/L	1	1	44	42	4.7	1.05
QRDS	2021-07-27	Al-T	mg/L	0.003	0.003	0.0166	0.0174	4.7	0.95
QRDS	2021-07-27	As-D	mg/L	0.0001	0.0001	0.00022	0.00024	8.7	0.92
QRDS	2021-07-27	As-T	mg/L	0.0001	0.0001	0.00026	0.00024	8.0	1.08
QRDS	2021-07-27	Ba-D	mg/L	0.001	0.001	0.0019	0.0020	5.1	0.95
QRDS	2021-07-27	Ba-T	mg/L	0.001	0.001	0.0021	0.0020	4.9	1.05
QRDS	2021-07-27	B-D	mg/L	0.05	0.05	0.069	0.067	2.9	1.03
QRDS	2021-07-27	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
QRDS	2021-07-27	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
QRDS	2021-07-27	Bicarb	mg/L	1	1	54	51	5.7	1.06
QRDS	2021-07-27	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QRDS	2021-07-27	Bi-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QRDS	2021-07-27	B-T	mg/L	0.05	0.05	0.069	0.067	2.9	1.03
QRDS	2021-07-27	Ca-D	mg/L	0.05	0.05	13.8	13.6	1.5	1.01
QRDS	2021-07-27	Carb	mg/L	1	1	<1.0	<1.0	0.0	1.00
QRDS	2021-07-27	Ca-T	mg/L	0.05	0.05	14.0	14.0	0.0	1.00
QRDS	2021-07-27	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
QRDS	2021-07-27	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
QRDS	2021-07-27	Cl-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
QRDS	2021-07-27	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
QRDS	2021-07-27	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
QRDS	2021-07-27	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QRDS	2021-07-27	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QRDS	2021-07-27	Cu-D	mg/L	0.0002	0.0002	0.00057	0.00048	17.1	1.19
QRDS	2021-07-27	Cu-T	mg/L	0.0005	0.0005	<0.00050	0.00055	75.0	0.45
QRDS	2021-07-27	DOC	mg/L	0.5	0.5	1.9	1.9	0.0	1.00
QRDS	2021-07-27	Fe-D	mg/L	0.005	0.005	0.0202	0.0202	0.0	1.00
QRDS	2021-07-27	Fe-T	mg/L	0.01	0.01	0.042	0.043	2.4	0.98
QRDS	2021-07-27	Hard-D	mg/L	0.5	0.5	42.3	41.8	1.2	1.01
QRDS	2021-07-27	Hard-T	mg/L	0.5	0.5	42.7	42.5	0.5	1.00
QRDS	2021-07-27	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
QRDS	2021-07-27	Hg-T	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
QRDS	2021-07-27	Hydrox	mg/L	1	1	<1.0	<1.0	0.0	1.00
QRDS	2021-07-27	K-D	mg/L	0.05	0.05	0.314	0.306	2.6	1.03
QRDS	2021-07-27	K-T	mg/L	0.05	0.05	0.306	0.298	2.6	1.03

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Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
QRDS	2021-07-27	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
QRDS	2021-07-27	Mg-D	mg/L	0.05	0.05	1.89	1.92	1.6	0.98
QRDS	2021-07-27	Mg-T	mg/L	0.05	0.05	1.88	1.86	1.1	1.01
QRDS	2021-07-27	Mn-D	mg/L	0.001	0.001	0.0019	0.0017	11.1	1.12
QRDS	2021-07-27	Mn-T	mg/L	0.001	0.001	0.0108	0.0108	0.0	1.00
QRDS	2021-07-27	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QRDS	2021-07-27	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QRDS	2021-07-27	Na-D	mg/L	0.05	0.05	22.4	22.6	0.9	0.99
QRDS	2021-07-27	Na-T	mg/L	0.05	0.05	21.6	21.3	1.4	1.01
QRDS	2021-07-27	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QRDS	2021-07-27	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QRDS	2021-07-27	N-NH3	mg/L	0.015	0.015	0.073	0.17	79.8	0.43
QRDS	2021-07-27	N-NO2	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QRDS	2021-07-27	N-NO23	mg/L	0.02	0.02	<0.020	<0.020	0.0	1.00
QRDS	2021-07-27	N-NO3	mg/L	0.02	0.02	<0.020	<0.020	0.0	1.00
QRDS	2021-07-27	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
QRDS	2021-07-27	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
QRDS	2021-07-27	P-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
QRDS	2021-07-27	P-T	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
QRDS	2021-07-27	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
QRDS	2021-07-27	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
QRDS	2021-07-27	S-D	mg/L	3	3	14.8	15.7	5.9	0.94
QRDS	2021-07-27	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
QRDS	2021-07-27	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
QRDS	2021-07-27	Si-D	mg/L	0.1	0.1	1.76	1.83	3.9	0.96
QRDS	2021-07-27	Si-T	mg/L	0.1	0.1	1.92	1.96	2.1	0.98
QRDS	2021-07-27	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QRDS	2021-07-27	SO4-D	mg/L	1	1	52	48	8.0	1.08
QRDS	2021-07-27	Sr-D	mg/L	0.001	0.001	0.0839	0.0870	3.6	0.96
QRDS	2021-07-27	Sr-T	mg/L	0.001	0.001	0.0930	0.0918	1.3	1.01
QRDS	2021-07-27	S-T	mg/L	3	3	15.6	14.9	4.6	1.05
QRDS	2021-07-27	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QRDS	2021-07-27	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QRDS	2021-07-27	Ti-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
QRDS	2021-07-27	Ti-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
QRDS	2021-07-27	TSS	mg/L	1	1	<1.0	1.2	82.4	0.42
QRDS	2021-07-27	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
QRDS	2021-07-27	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
QRDS	2021-07-27	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QRDS	2021-07-27	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QRDS	2021-07-27	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QRDS	2021-07-27	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QRDS	2021-07-27	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
QRDS	2021-07-27	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
QRDS1	2021-04-26	Acidity45	mg/L	1	1	<1.0	<1.0	0.0	1.00
QRDS1	2021-04-26	Acidity83	mg/L	1	1	<1.0	1.0	66.7	0.50
QRDS1	2021-04-26	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
QRDS1	2021-04-26	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
QRDS1	2021-04-26	Al-D	mg/L	0.003	0.003	0.0123	0.0134	8.6	0.92
QRDS1	2021-04-26	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
QRDS1	2021-04-26	Alk-T	mg/L	1	1	43	40	7.2	1.07
QRDS1	2021-04-26	Al-T	mg/L	0.003	0.003	0.0210	0.0210	0.0	1.00
QRDS1	2021-04-26	As-D	mg/L	0.0001	0.0001	0.00085	0.00033	88.1	2.58
QRDS1	2021-04-26	As-T	mg/L	0.0001	0.0001	0.00102	0.00037	93.5	2.76
QRDS1	2021-04-26	Ba-D	mg/L	0.001	0.001	0.0036	0.0025	36.1	1.44
QRDS1	2021-04-26	Ba-T	mg/L	0.001	0.001	0.0037	0.0025	38.7	1.48
QRDS1	2021-04-26	B-D	mg/L	0.05	0.05	0.073	0.060	19.5	1.22
QRDS1	2021-04-26	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
QRDS1	2021-04-26	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
QRDS1	2021-04-26	Bicarb	mg/L	1	1	53	48	9.9	1.10
QRDS1	2021-04-26	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QRDS1	2021-04-26	Bi-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QRDS1	2021-04-26	B-T	mg/L	0.05	0.05	0.072	0.060	18.2	1.20
QRDS1	2021-04-26	Ca-D	mg/L	0.05	0.05	16.1	14.7	9.1	1.10
QRDS1	2021-04-26	Carb	mg/L	1	1	<1.0	<1.0	0.0	1.00
QRDS1	2021-04-26	Ca-T	mg/L	0.05	0.05	16.1	15.1	6.4	1.07
QRDS1	2021-04-26	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00

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Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
QRDS1	2021-04-26	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
QRDS1	2021-04-26	Cl-D	mg/L	1	1	1.4	1.4	0.0	1.00
QRDS1	2021-04-26	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
QRDS1	2021-04-26	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
QRDS1	2021-04-26	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QRDS1	2021-04-26	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QRDS1	2021-04-26	Cu-D	mg/L	0.0002	0.0002	0.00043	0.00044	2.3	0.98
QRDS1	2021-04-26	Cu-T	mg/L	0.0005	0.0005	0.00050	0.00050	0.0	1.00
QRDS1	2021-04-26	DOC	mg/L	0.5	0.5	1.8	1.8	0.0	1.00
QRDS1	2021-04-26	Fe-D	mg/L	0.005	0.005	0.0368	0.0198	60.1	1.86
QRDS1	2021-04-26	Fe-T	mg/L	0.01	0.01	0.068	0.046	38.6	1.48
QRDS1	2021-04-26	Hard-D	mg/L	0.5	0.5	48.5	44.4	8.8	1.09
QRDS1	2021-04-26	Hard-T	mg/L	0.5	0.5	48.7	45.4	7.0	1.07
QRDS1	2021-04-26	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
QRDS1	2021-04-26	Hg-T	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
QRDS1	2021-04-26	Hydrox	mg/L	1	1	<1.0	<1.0	0.0	1.00
QRDS1	2021-04-26	K-D	mg/L	0.05	0.05	0.341	0.281	19.3	1.21
QRDS1	2021-04-26	K-T	mg/L	0.05	0.05	0.351	0.292	18.4	1.20
QRDS1	2021-04-26	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
QRDS1	2021-04-26	Mg-D	mg/L	0.05	0.05	2.01	1.86	7.8	1.08
QRDS1	2021-04-26	Mg-T	mg/L	0.05	0.05	2.03	1.84	9.8	1.10
QRDS1	2021-04-26	Mn-D	mg/L	0.001	0.001	0.0086	0.0031	94.0	2.77
QRDS1	2021-04-26	Mn-T	mg/L	0.001	0.001	0.0119	0.0070	51.9	1.70
QRDS1	2021-04-26	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QRDS1	2021-04-26	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QRDS1	2021-04-26	Na-D	mg/L	0.05	0.05	22.4	19.3	14.9	1.16
QRDS1	2021-04-26	Na-T	mg/L	0.05	0.05	22.0	19.3	13.1	1.14
QRDS1	2021-04-26	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QRDS1	2021-04-26	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QRDS1	2021-04-26	N-NH3	mg/L	0.015	0.015	<0.015	<0.015	0.0	1.00
QRDS1	2021-04-26	N-NO2	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QRDS1	2021-04-26	N-NO23	mg/L	0.02	0.02	<0.020	<0.020	0.0	1.00
QRDS1	2021-04-26	N-NO3	mg/L	0.02	0.02	<0.020	<0.020	0.0	1.00
QRDS1	2021-04-26	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
QRDS1	2021-04-26	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
QRDS1	2021-04-26	P-T	mg/L	0.003	0.003	0.0071	<0.0030	130.2	4.73
QRDS1	2021-04-26	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
QRDS1	2021-04-26	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
QRDS1	2021-04-26	S-D	mg/L	3	3	17.6	15.4	13.3	1.14
QRDS1	2021-04-26	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
QRDS1	2021-04-26	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
QRDS1	2021-04-26	Si-D	mg/L	0.1	0.1	2.07	2.03	2.0	1.02
QRDS1	2021-04-26	Si-T	mg/L	0.1	0.1	2.10	2.11	0.5	1.00
QRDS1	2021-04-26	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QRDS1	2021-04-26	SO4-D	mg/L	1	1	54	48	11.8	1.12
QRDS1	2021-04-26	Sr-D	mg/L	0.001	0.001	0.114	0.0956	17.6	1.19
QRDS1	2021-04-26	Sr-T	mg/L	0.001	0.001	0.109	0.0929	15.9	1.17
QRDS1	2021-04-26	S-T	mg/L	3	3	17.7	16.2	8.8	1.09
QRDS1	2021-04-26	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QRDS1	2021-04-26	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QRDS1	2021-04-26	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
QRDS1	2021-04-26	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
QRDS1	2021-04-26	TSS	mg/L	1	1	<1.0	<1.0	0.0	1.00
QRDS1	2021-04-26	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
QRDS1	2021-04-26	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
QRDS1	2021-04-26	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QRDS1	2021-04-26	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QRDS1	2021-04-26	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QRDS1	2021-04-26	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QRDS1	2021-04-26	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
QRDS1	2021-04-26	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
QU0810	2022-03-31	Acidity45	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU0810	2022-03-31	Acidity83	mg/L	1	1	12.3	11.2	9.4	1.10
QU0810	2022-03-31	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
QU0810	2022-03-31	Al-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
QU0810	2022-03-31	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU0810	2022-03-31	Alk-T	mg/L	1	1	220	210	4.7	1.05

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Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
QU0810	2022-03-31	As-D	mg/L	0.0001	0.0001	0.00038	0.00039	2.6	0.97
QU0810	2022-03-31	Ba-D	mg/L	0.001	0.001	0.0438	0.0429	2.1	1.02
QU0810	2022-03-31	B-D	mg/L	0.05	0.05	0.280	0.282	0.7	0.99
QU0810	2022-03-31	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
QU0810	2022-03-31	Bicarb	mg/L	1	1	260	260	0.0	1.00
QU0810	2022-03-31	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QU0810	2022-03-31	Br-D	mg/L	0.01	0.01	0.060	0.054	10.5	1.11
QU0810	2022-03-31	Ca-D	mg/L	0.05	0.05	197	198	0.5	0.99
QU0810	2022-03-31	Carb	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU0810	2022-03-31	Cd-D	mg/L	0.00001	0.00001	0.000052	0.000054	3.8	0.96
QU0810	2022-03-31	Cl-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU0810	2022-03-31	Co-D	mg/L	0.0002	0.0002	0.00155	0.00154	0.6	1.01
QU0810	2022-03-31	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QU0810	2022-03-31	Cu-D	mg/L	0.0002	0.0002	0.00124	0.00095	26.5	1.31
QU0810	2022-03-31	DOC	mg/L	0.5	0.5	0.55	0.55	0.0	1.00
QU0810	2022-03-31	F-D	mg/L	0.05	0.05	0.33	0.32	3.1	1.03
QU0810	2022-03-31	Fe-D	mg/L	0.005	0.005	0.0418	0.0402	3.9	1.04
QU0810	2022-03-31	H2S	mg/L	0.002	0.002	0.0026	<0.0020	88.9	2.60
QU0810	2022-03-31	Hard-D	mg/L	0.5	0.5	655	655	0.0	1.00
QU0810	2022-03-31	Hydrox	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU0810	2022-03-31	K-D	mg/L	0.05	0.05	4.28	4.22	1.4	1.01
QU0810	2022-03-31	Mg-D	mg/L	0.05	0.05	39.4	38.9	1.3	1.01
QU0810	2022-03-31	Mn-D	mg/L	0.001	0.001	0.206	0.208	1.0	0.99
QU0810	2022-03-31	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QU0810	2022-03-31	Na-D	mg/L	0.05	0.05	10.7	10.4	2.8	1.03
QU0810	2022-03-31	N-D	mg/L	0.02	0.02	0.209	0.173	18.8	1.21
QU0810	2022-03-31	Ni-D	mg/L	0.001	0.001	0.0077	0.0077	0.0	1.00
QU0810	2022-03-31	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
QU0810	2022-03-31	P-D	mg/L	0.003	0.003	0.0072	0.0069	4.3	1.04
QU0810	2022-03-31	S2-T	mg/L	0.0018	0.0018	0.0025	<0.0018	94.1	2.78
QU0810	2022-03-31	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
QU0810	2022-03-31	S-D	mg/L	3	3	152	150	1.3	1.01
QU0810	2022-03-31	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
QU0810	2022-03-31	Si-D	mg/L	0.1	0.1	4.03	4.05	0.5	1.00
QU0810	2022-03-31	SO4-D	mg/L	10	10	430	370	15.0	1.16
QU0810	2022-03-31	Sr-D	mg/L	0.001	0.001	1.65	1.59	3.7	1.04
QU0810	2022-03-31	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QU0810	2022-03-31	Tl-D	mg/L	0.00001	0.00001	0.000039	0.000039	0.0	1.00
QU0810	2022-03-31	Turb	NTU	0.1	0.1	10	9.5	5.1	1.05
QU0810	2022-03-31	U-D	mg/L	0.0001	0.0001	0.00198	0.00203	2.5	0.98
QU0810	2022-03-31	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QU0810	2022-03-31	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QU0810	2022-03-31	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
QU0813A	2021-08-16	Acidity45	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU0813A	2021-08-16	Acidity83	mg/L	1	1	2.1	<1.0	123.1	4.20
QU0813A	2021-08-16	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
QU0813A	2021-08-16	Al-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
QU0813A	2021-08-16	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU0813A	2021-08-16	Alk-T	mg/L	1	1	220	200	9.5	1.10
QU0813A	2021-08-16	As-D	mg/L	0.0001	0.0001	0.373	0.378	1.3	0.99
QU0813A	2021-08-16	Ba-D	mg/L	0.001	0.001	0.217	0.218	0.5	1.00
QU0813A	2021-08-16	B-D	mg/L	0.05	0.05	0.981	0.986	0.5	0.99
QU0813A	2021-08-16	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
QU0813A	2021-08-16	Bicarb	mg/L	1	1	260	240	8.0	1.08
QU0813A	2021-08-16	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QU0813A	2021-08-16	Br-D	mg/L	0.01	0.01	0.045	0.038	16.9	1.18
QU0813A	2021-08-16	Ca-D	mg/L	0.05	0.05	42.3	41.7	1.4	1.01
QU0813A	2021-08-16	Carb	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU0813A	2021-08-16	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
QU0813A	2021-08-16	Cl-D	mg/L	1	1	24	21	13.3	1.14
QU0813A	2021-08-16	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
QU0813A	2021-08-16	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QU0813A	2021-08-16	Cu-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
QU0813A	2021-08-16	DOC	mg/L	0.5	0.5	<0.50	<0.50	0.0	1.00
QU0813A	2021-08-16	F-D	mg/L	0.05	0.05	0.71	0.061	168.4	11.64
QU0813A	2021-08-16	Fe-D	mg/L	0.005	0.005	0.181	0.174	3.9	1.04
QU0813A	2021-08-16	H2S	mg/L	0.002	0.002	0.24	0.17	34.1	1.41

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Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
QU0813A	2021-08-16	Hard-D	mg/L	0.5	0.5	147	146	0.7	1.01
QU0813A	2021-08-16	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
QU0813A	2021-08-16	Hydrox	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU0813A	2021-08-16	K-D	mg/L	0.05	0.05	2.55	2.60	1.9	0.98
QU0813A	2021-08-16	Mg-D	mg/L	0.05	0.05	10.1	10.1	0.0	1.00
QU0813A	2021-08-16	Mn-D	mg/L	0.001	0.001	0.0365	0.0370	1.4	0.99
QU0813A	2021-08-16	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QU0813A	2021-08-16	Na-D	mg/L	0.05	0.05	78.3	79.0	0.9	0.99
QU0813A	2021-08-16	N-D	mg/L	0.02	0.02	0.230	0.224	2.6	1.03
QU0813A	2021-08-16	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QU0813A	2021-08-16	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
QU0813A	2021-08-16	P-D	mg/L	0.003	0.003	0.018	0.015	18.2	1.20
QU0813A	2021-08-16	S2-T	mg/L	0.0018	0.0018	0.22	0.16	31.6	1.38
QU0813A	2021-08-16	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
QU0813A	2021-08-16	S-D	mg/L	3	3	25.5	27.4	7.2	0.93
QU0813A	2021-08-16	Se-D	mg/L	0.0001	0.0001	0.00066	0.00070	5.9	0.94
QU0813A	2021-08-16	Si-D	mg/L	0.1	0.1	4.16	4.17	0.2	1.00
QU0813A	2021-08-16	SO4-D	mg/L	1	1	74	67	9.9	1.10
QU0813A	2021-08-16	Sr-D	mg/L	0.001	0.001	0.724	0.717	1.0	1.01
QU0813A	2021-08-16	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QU0813A	2021-08-16	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
QU0813A	2021-08-16	Turb	NTU	0.1	0.1	1.7	2.0	16.2	0.85
QU0813A	2021-08-16	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
QU0813A	2021-08-16	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QU0813A	2021-08-16	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QU0813A	2021-08-16	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
QU0821GD	2021-05-26	Acidity45	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU0821GD	2021-05-26	Acidity83	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU0821GD	2021-05-26	Ag-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
QU0821GD	2021-05-26	Al-D	mg/L	0.015	0.015	<0.015	<0.015	0.0	1.00
QU0821GD	2021-05-26	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU0821GD	2021-05-26	Alk-T	mg/L	1	1	210	210	0.0	1.00
QU0821GD	2021-05-26	As-D	mg/L	0.0005	0.0005	0.165	0.167	1.2	0.99
QU0821GD	2021-05-26	Ba-D	mg/L	0.005	0.005	1.99	2.03	2.0	0.98
QU0821GD	2021-05-26	B-D	mg/L	0.25	0.25	2.66	2.69	1.1	0.99
QU0821GD	2021-05-26	Be-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
QU0821GD	2021-05-26	Bicarb	mg/L	1	1	250	260	3.9	0.96
QU0821GD	2021-05-26	Bi-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QU0821GD	2021-05-26	Br-D	mg/L	0.01	0.01	1.3	1.3	0.0	1.00
QU0821GD	2021-05-26	Ca-D	mg/L	0.25	0.25	90.7	89.3	1.6	1.02
QU0821GD	2021-05-26	Carb	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU0821GD	2021-05-26	Cd-D	mg/L	0.00005	0.00005	<0.000050	<0.000050	0.0	1.00
QU0821GD	2021-05-26	Cl-D	mg/L	10	10	910	910	0.0	1.00
QU0821GD	2021-05-26	Co-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QU0821GD	2021-05-26	Cr-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QU0821GD	2021-05-26	Cu-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QU0821GD	2021-05-26	DOC	mg/L	13	13	<13	<13	0.0	1.00
QU0821GD	2021-05-26	F-D	mg/L	0.05	0.05	1.2	1.2	0.0	1.00
QU0821GD	2021-05-26	Fe-D	mg/L	0.025	0.025	0.915	0.884	3.4	1.04
QU0821GD	2021-05-26	H2S	mg/L	0.002	0.002	0.049	0.053	7.8	0.92
QU0821GD	2021-05-26	Hard-D	mg/L	0.5	0.5	281	278	1.1	1.01
QU0821GD	2021-05-26	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
QU0821GD	2021-05-26	Hydrox	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU0821GD	2021-05-26	K-D	mg/L	0.25	0.25	8.31	8.59	3.3	0.97
QU0821GD	2021-05-26	Mg-D	mg/L	0.25	0.25	13.3	13.4	0.7	0.99
QU0821GD	2021-05-26	Mn-D	mg/L	0.005	0.005	0.0693	0.0701	1.1	0.99
QU0821GD	2021-05-26	Mo-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QU0821GD	2021-05-26	Na-D	mg/L	0.25	0.25	463	464	0.2	1.00
QU0821GD	2021-05-26	N-D	mg/L	0.02	0.02	0.515	0.498	3.4	1.03
QU0821GD	2021-05-26	Ni-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QU0821GD	2021-05-26	Pb-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QU0821GD	2021-05-26	P-D	mg/L	0.003	0.003	0.026	0.027	3.8	0.96
QU0821GD	2021-05-26	S2-T	mg/L	0.0018	0.0018	0.046	0.050	8.3	0.92
QU0821GD	2021-05-26	Sb-D	mg/L	0.0025	0.0025	<0.0025	<0.0025	0.0	1.00
QU0821GD	2021-05-26	S-D	mg/L	15	15	<15	<15	0.0	1.00
QU0821GD	2021-05-26	Se-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
QU0821GD	2021-05-26	Si-D	mg/L	0.5	0.5	4.09	4.08	0.2	1.00

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Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
QU0821GD	2021-05-26	SO4-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU0821GD	2021-05-26	Sr-D	mg/L	0.005	0.005	1.93	1.97	2.1	0.98
QU0821GD	2021-05-26	Ti-D	mg/L	0.025	0.025	<0.025	<0.025	0.0	1.00
QU0821GD	2021-05-26	Tl-D	mg/L	0.00005	0.00005	<0.000050	<0.000050	0.0	1.00
QU0821GD	2021-05-26	Turb	NTU	0.1	0.1	7.2	6.8	5.7	1.06
QU0821GD	2021-05-26	U-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
QU0821GD	2021-05-26	V-D	mg/L	0.025	0.025	<0.025	<0.025	0.0	1.00
QU0821GD	2021-05-26	Zn-D	mg/L	0.025	0.025	<0.025	<0.025	0.0	1.00
QU0821GD	2021-05-26	Zr-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
QU0821GS	2021-08-05	Acidity45	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU0821GS	2021-08-05	Acidity83	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU0821GS	2021-08-05	Ag-D	mg/L	0.00004	0.00004	<0.000040	<0.000040	0.0	1.00
QU0821GS	2021-08-05	Al-D	mg/L	0.006	0.006	<0.0060	<0.0060	0.0	1.00
QU0821GS	2021-08-05	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU0821GS	2021-08-05	Alk-T	mg/L	1	1	180	200	10.5	0.90
QU0821GS	2021-08-05	As-D	mg/L	0.0002	0.0002	0.185	0.183	1.1	1.01
QU0821GS	2021-08-05	Ba-D	mg/L	0.002	0.002	0.673	0.669	0.6	1.01
QU0821GS	2021-08-05	B-D	mg/L	0.1	0.1	2.11	2.10	0.5	1.00
QU0821GS	2021-08-05	Be-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
QU0821GS	2021-08-05	Bicarb	mg/L	1	1	220	240	8.7	0.92
QU0821GS	2021-08-05	Bi-D	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
QU0821GS	2021-08-05	Br-D	mg/L	0.01	0.01	0.36	0.36	0.0	1.00
QU0821GS	2021-08-05	Ca-D	mg/L	0.1	0.1	31.4	32.1	2.2	0.98
QU0821GS	2021-08-05	Carb	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU0821GS	2021-08-05	Cd-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
QU0821GS	2021-08-05	Cl-D	mg/L	10	10	240	250	4.1	0.96
QU0821GS	2021-08-05	Co-D	mg/L	0.0004	0.0004	<0.00040	<0.00040	0.0	1.00
QU0821GS	2021-08-05	Cr-D	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
QU0821GS	2021-08-05	Cu-D	mg/L	0.0004	0.0004	<0.00040	0.00055	93.3	0.36
QU0821GS	2021-08-05	DOC	mg/L	0.5	0.5	0.59	2.1	112.3	0.28
QU0821GS	2021-08-05	F-D	mg/L	0.02	0.02	1.50	1.50	0.0	1.00
QU0821GS	2021-08-05	Fe-D	mg/L	0.01	0.01	0.333	0.345	3.5	0.97
QU0821GS	2021-08-05	H2S	mg/L	0.002	0.002	0.036	0.029	21.5	1.24
QU0821GS	2021-08-05	Hard-D	mg/L	0.5	0.5	102	104	1.9	0.98
QU0821GS	2021-08-05	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
QU0821GS	2021-08-05	Hydrox	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU0821GS	2021-08-05	K-D	mg/L	0.1	0.1	4.79	4.84	1.0	0.99
QU0821GS	2021-08-05	Mg-D	mg/L	0.1	0.1	5.64	5.79	2.6	0.97
QU0821GS	2021-08-05	Mn-D	mg/L	0.002	0.002	0.0599	0.0603	0.7	0.99
QU0821GS	2021-08-05	Mo-D	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
QU0821GS	2021-08-05	Na-D	mg/L	0.1	0.1	185	185	0.0	1.00
QU0821GS	2021-08-05	N-D	mg/L	0.02	0.02	0.217	0.200	8.2	1.08
QU0821GS	2021-08-05	Ni-D	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
QU0821GS	2021-08-05	Pb-D	mg/L	0.0004	0.0004	<0.00040	<0.00040	0.0	1.00
QU0821GS	2021-08-05	P-D	mg/L	0.003	0.003	0.034	0.029	15.9	1.17
QU0821GS	2021-08-05	S2-T	mg/L	0.0018	0.0018	0.034	0.028	19.4	1.21
QU0821GS	2021-08-05	Sb-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QU0821GS	2021-08-05	S-D	mg/L	6	6	<6.0	<6.0	0.0	1.00
QU0821GS	2021-08-05	Se-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
QU0821GS	2021-08-05	Si-D	mg/L	0.2	0.2	3.43	3.52	2.6	0.97
QU0821GS	2021-08-05	SO4-D	mg/L	1	1	1.7	2.3	30.0	0.74
QU0821GS	2021-08-05	Sr-D	mg/L	0.002	0.002	0.737	0.756	2.5	0.97
QU0821GS	2021-08-05	Ti-D	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
QU0821GS	2021-08-05	Tl-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
QU0821GS	2021-08-05	Turb	NTU	0.1	0.1	4.5	4.6	2.2	0.98
QU0821GS	2021-08-05	U-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
QU0821GS	2021-08-05	V-D	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
QU0821GS	2021-08-05	Zn-D	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
QU0821GS	2021-08-05	Zr-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
QU1008D	2022-03-16	Acidity45	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU1008D	2022-03-16	Acidity83	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU1008D	2022-03-16	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
QU1008D	2022-03-16	Al-D	mg/L	0.003	0.003	0.730	0.461	45.2	1.58
QU1008D	2022-03-16	Alk-PP	mg/L	1	1	7.4	6.0	20.9	1.23
QU1008D	2022-03-16	Alk-T	mg/L	1	1	260	260	0.0	1.00
QU1008D	2022-03-16	As-D	mg/L	0.0001	0.0001	0.149	0.149	0.0	1.00
QU1008D	2022-03-16	Ba-D	mg/L	0.001	0.001	0.0358	0.0329	8.4	1.09

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Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
QU1008D	2022-03-16	B-D	mg/L	0.05	0.05	1.97	1.94	1.5	1.02
QU1008D	2022-03-16	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
QU1008D	2022-03-16	Bicarb	mg/L	1	1	300	310	3.3	0.97
QU1008D	2022-03-16	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QU1008D	2022-03-16	Br-D	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
QU1008D	2022-03-16	Ca-D	mg/L	0.05	0.05	2.89	2.76	4.6	1.05
QU1008D	2022-03-16	Carb	mg/L	1	1	8.9	7.2	21.1	1.24
QU1008D	2022-03-16	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
QU1008D	2022-03-16	Cl-D	mg/L	1	1	7.1	5.4	27.2	1.31
QU1008D	2022-03-16	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
QU1008D	2022-03-16	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QU1008D	2022-03-16	Cu-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
QU1008D	2022-03-16	DOC	mg/L	0.5	0.5	5.2	4.8	8.0	1.08
QU1008D	2022-03-16	F-D	mg/L	0.05	0.05	1.8	1.8	0.0	1.00
QU1008D	2022-03-16	Fe-D	mg/L	0.005	0.005	0.343	0.236	37.0	1.45
QU1008D	2022-03-16	H2S	mg/L	0.019	0.019	0.29	0.22	27.5	1.32
QU1008D	2022-03-16	Hard-D	mg/L	0.5	0.5	8.72	8.13	7.0	1.07
QU1008D	2022-03-16	Hydrox	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU1008D	2022-03-16	K-D	mg/L	0.05	0.05	0.701	0.676	3.6	1.04
QU1008D	2022-03-16	Mg-D	mg/L	0.05	0.05	0.368	0.304	19.0	1.21
QU1008D	2022-03-16	Mn-D	mg/L	0.001	0.001	0.176	0.169	4.1	1.04
QU1008D	2022-03-16	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QU1008D	2022-03-16	Na-D	mg/L	0.05	0.05	119	120	0.8	0.99
QU1008D	2022-03-16	N-D	mg/L	0.02	0.02	0.186	0.164	12.6	1.13
QU1008D	2022-03-16	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QU1008D	2022-03-16	Pb-D	mg/L	0.0002	0.0002	0.00027	<0.00020	91.9	2.70
QU1008D	2022-03-16	P-D	mg/L	0.003	0.003	0.17	0.17	0.0	1.00
QU1008D	2022-03-16	S2-T	mg/L	0.018	0.018	0.27	0.21	25.0	1.29
QU1008D	2022-03-16	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
QU1008D	2022-03-16	S-D	mg/L	3	3	<3.0	<3.0	0.0	1.00
QU1008D	2022-03-16	Se-D	mg/L	0.0001	0.0001	0.00130	<0.00010	185.2	26.00
QU1008D	2022-03-16	Si-D	mg/L	0.1	0.1	7.80	7.06	10.0	1.10
QU1008D	2022-03-16	SO4-D	mg/L	1	1	3.4	3.3	3.0	1.03
QU1008D	2022-03-16	Sr-D	mg/L	0.001	0.001	0.0826	0.0797	3.6	1.04
QU1008D	2022-03-16	Ti-D	mg/L	0.005	0.005	0.0205	0.0100	68.9	2.05
QU1008D	2022-03-16	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
QU1008D	2022-03-16	Turb	NTU	0.1	0.1	130	130	0.0	1.00
QU1008D	2022-03-16	U-D	mg/L	0.0001	0.0001	0.00011	<0.00010	75.0	2.20
QU1008D	2022-03-16	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QU1008D	2022-03-16	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QU1008D	2022-03-16	Zr-D	mg/L	0.0001	0.0001	0.00112	0.00046	83.5	2.43
QU1009D	2022-01-20	Acidity45	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU1009D	2022-01-20	Acidity83	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU1009D	2022-01-20	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
QU1009D	2022-01-20	Al-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
QU1009D	2022-01-20	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU1009D	2022-01-20	Alk-T	mg/L	1	1	170	180	5.7	0.94
QU1009D	2022-01-20	As-D	mg/L	0.0001	0.0001	0.0906	0.0912	0.7	0.99
QU1009D	2022-01-20	Ba-D	mg/L	0.001	0.001	0.131	0.133	1.5	0.98
QU1009D	2022-01-20	B-D	mg/L	0.05	0.05	0.296	0.296	0.0	1.00
QU1009D	2022-01-20	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
QU1009D	2022-01-20	Bicarb	mg/L	1	1	210	220	4.7	0.95
QU1009D	2022-01-20	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QU1009D	2022-01-20	Br-D	mg/L	0.01	0.01	0.017	0.017	0.0	1.00
QU1009D	2022-01-20	Ca-D	mg/L	0.05	0.05	64.2	63.9	0.5	1.00
QU1009D	2022-01-20	Carb	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU1009D	2022-01-20	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
QU1009D	2022-01-20	Cl-D	mg/L	1	1	1.2	1.2	0.0	1.00
QU1009D	2022-01-20	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
QU1009D	2022-01-20	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QU1009D	2022-01-20	Cu-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
QU1009D	2022-01-20	DOC	mg/L	0.5	0.5	0.93	1.1	16.7	0.85
QU1009D	2022-01-20	F-D	mg/L	0.05	0.05	0.17	0.17	0.0	1.00
QU1009D	2022-01-20	Fe-D	mg/L	0.005	0.005	0.888	0.875	1.5	1.01
QU1009D	2022-01-20	H2S	mg/L	0.002	0.002	0.075	0.067	11.3	1.12
QU1009D	2022-01-20	Hard-D	mg/L	0.5	0.5	212	212	0.0	1.00
QU1009D	2022-01-20	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00

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Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
QU1009D	2022-01-20	Hydrox	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU1009D	2022-01-20	K-D	mg/L	0.05	0.05	1.56	1.60	2.5	0.97
QU1009D	2022-01-20	Mg-D	mg/L	0.05	0.05	12.5	12.7	1.6	0.98
QU1009D	2022-01-20	Mn-D	mg/L	0.001	0.001	0.0711	0.0719	1.1	0.99
QU1009D	2022-01-20	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QU1009D	2022-01-20	Na-D	mg/L	0.05	0.05	22.7	23.3	2.6	0.97
QU1009D	2022-01-20	N-D	mg/L	0.02	0.02	0.169	0.123	31.5	1.37
QU1009D	2022-01-20	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QU1009D	2022-01-20	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
QU1009D	2022-01-20	P-D	mg/L	0.003	0.003	0.0096	0.016	50.0	0.60
QU1009D	2022-01-20	S2-T	mg/L	0.0018	0.0018	0.071	0.063	11.9	1.13
QU1009D	2022-01-20	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
QU1009D	2022-01-20	S-D	mg/L	3	3	26.1	27.7	5.9	0.94
QU1009D	2022-01-20	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
QU1009D	2022-01-20	Si-D	mg/L	0.1	0.1	9.99	9.98	0.1	1.00
QU1009D	2022-01-20	SO4-D	mg/L	1	1	88	88	0.0	1.00
QU1009D	2022-01-20	Sr-D	mg/L	0.001	0.001	0.970	0.974	0.4	1.00
QU1009D	2022-01-20	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QU1009D	2022-01-20	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
QU1009D	2022-01-20	Turb	NTU	0.1	0.1	14	14	0.0	1.00
QU1009D	2022-01-20	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
QU1009D	2022-01-20	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QU1009D	2022-01-20	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QU1009D	2022-01-20	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
QU1010D	2021-05-18	Acidity45	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU1010D	2021-05-18	Acidity83	mg/L	1	1	13.0	13.4	3.0	0.97
QU1010D	2021-05-18	Ag-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
QU1010D	2021-05-18	Al-D	mg/L	0.015	0.015	<0.015	<0.015	0.0	1.00
QU1010D	2021-05-18	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU1010D	2021-05-18	Alk-T	mg/L	1	1	90	91	1.1	0.99
QU1010D	2021-05-18	As-D	mg/L	0.0005	0.0005	0.0112	0.0115	2.6	0.97
QU1010D	2021-05-18	Ba-D	mg/L	0.005	0.005	1.33	1.35	1.5	0.99
QU1010D	2021-05-18	B-D	mg/L	0.25	0.25	0.34	0.35	2.9	0.97
QU1010D	2021-05-18	Be-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
QU1010D	2021-05-18	Bicarb	mg/L	1	1	110	110	0.0	1.00
QU1010D	2021-05-18	Bi-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QU1010D	2021-05-18	Br-D	mg/L	0.05	0.05	4.4	4.3	2.3	1.02
QU1010D	2021-05-18	Ca-D	mg/L	0.25	0.25	568	576	1.4	0.99
QU1010D	2021-05-18	Carb	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU1010D	2021-05-18	Cd-D	mg/L	0.00005	0.00005	<0.000050	<0.000050	0.0	1.00
QU1010D	2021-05-18	Cl-D	mg/L	100	100	3400	3200	6.1	1.06
QU1010D	2021-05-18	Co-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QU1010D	2021-05-18	Cr-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QU1010D	2021-05-18	Cu-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QU1010D	2021-05-18	DOC	mg/L	2.5	2.5	12	10	18.2	1.20
QU1010D	2021-05-18	F-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
QU1010D	2021-05-18	Fe-D	mg/L	0.025	0.025	5.74	5.74	0.0	1.00
QU1010D	2021-05-18	H2S	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
QU1010D	2021-05-18	Hard-D	mg/L	0.5	0.5	1470	1490	1.4	0.99
QU1010D	2021-05-18	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
QU1010D	2021-05-18	Hydrox	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU1010D	2021-05-18	K-D	mg/L	0.25	0.25	8.13	8.24	1.3	0.99
QU1010D	2021-05-18	Mg-D	mg/L	0.25	0.25	11.9	12.0	0.8	0.99
QU1010D	2021-05-18	Mn-D	mg/L	0.005	0.005	0.376	0.381	1.3	0.99
QU1010D	2021-05-18	Mo-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QU1010D	2021-05-18	Na-D	mg/L	0.25	0.25	1330	1360	2.2	0.98
QU1010D	2021-05-18	N-D	mg/L	0.02	0.02	0.785	0.788	0.4	1.00
QU1010D	2021-05-18	Ni-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QU1010D	2021-05-18	Pb-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QU1010D	2021-05-18	P-D	mg/L	0.003	0.003	0.045	0.043	4.5	1.05
QU1010D	2021-05-18	S2-T	mg/L	0.0018	0.0018	<0.0018	<0.0018	0.0	1.00
QU1010D	2021-05-18	Sb-D	mg/L	0.0025	0.0025	<0.0025	<0.0025	0.0	1.00
QU1010D	2021-05-18	S-D	mg/L	15	15	<15	<15	0.0	1.00
QU1010D	2021-05-18	Se-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
QU1010D	2021-05-18	Si-D	mg/L	0.5	0.5	3.67	3.73	1.6	0.98
QU1010D	2021-05-18	SO4-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU1010D	2021-05-18	Sr-D	mg/L	0.005	0.005	6.01	6.05	0.7	0.99

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Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
QU1010D	2021-05-18	Ti-D	mg/L	0.025	0.025	<0.025	<0.025	0.0	1.00
QU1010D	2021-05-18	Ti-D	mg/L	0.00005	0.00005	<0.000050	<0.000050	0.0	1.00
QU1010D	2021-05-18	Turb	NTU	0.1	0.1	54	60	10.5	0.90
QU1010D	2021-05-18	U-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
QU1010D	2021-05-18	V-D	mg/L	0.025	0.025	<0.025	<0.025	0.0	1.00
QU1010D	2021-05-18	Zn-D	mg/L	0.025	0.025	<0.025	<0.025	0.0	1.00
QU1010D	2021-05-18	Zr-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
QU1010D	2022-03-23	Acidity45	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU1010D	2022-03-23	Acidity83	mg/L	1	1	19.5	20.6	5.5	0.95
QU1010D	2022-03-23	Ag-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
QU1010D	2022-03-23	Al-D	mg/L	0.015	0.015	<0.015	<0.015	0.0	1.00
QU1010D	2022-03-23	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU1010D	2022-03-23	Alk-T	mg/L	1	1	89	91	2.2	0.98
QU1010D	2022-03-23	As-D	mg/L	0.0005	0.0005	0.0119	0.0116	2.6	1.03
QU1010D	2022-03-23	Ba-D	mg/L	0.005	0.005	1.32	1.31	0.8	1.01
QU1010D	2022-03-23	B-D	mg/L	0.25	0.25	0.38	0.39	2.6	0.97
QU1010D	2022-03-23	Be-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
QU1010D	2022-03-23	Bicarb	mg/L	1	1	110	110	0.0	1.00
QU1010D	2022-03-23	Bi-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QU1010D	2022-03-23	Br-D	mg/L	0.05	0.05	4.9	5.1	4.0	0.96
QU1010D	2022-03-23	Ca-D	mg/L	0.25	0.25	635	637	0.3	1.00
QU1010D	2022-03-23	Carb	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU1010D	2022-03-23	Cd-D	mg/L	0.00005	0.00005	<0.000050	<0.000050	0.0	1.00
QU1010D	2022-03-23	Cl-D	mg/L	100	100	3500	3500	0.0	1.00
QU1010D	2022-03-23	Co-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QU1010D	2022-03-23	Cr-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QU1010D	2022-03-23	Cu-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QU1010D	2022-03-23	DOC	mg/L	13	13	<13	<13	0.0	1.00
QU1010D	2022-03-23	F-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
QU1010D	2022-03-23	Fe-D	mg/L	0.025	0.025	7.70	7.70	0.0	1.00
QU1010D	2022-03-23	H2S	mg/L	0.002	0.002	0.010	0.011	9.5	0.91
QU1010D	2022-03-23	Hard-D	mg/L	0.5	0.5	1640	1640	0.0	1.00
QU1010D	2022-03-23	Hydrox	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU1010D	2022-03-23	K-D	mg/L	0.25	0.25	7.86	7.88	0.3	1.00
QU1010D	2022-03-23	Mg-D	mg/L	0.25	0.25	12.1	12.1	0.0	1.00
QU1010D	2022-03-23	Mn-D	mg/L	0.005	0.005	0.517	0.513	0.8	1.01
QU1010D	2022-03-23	Mo-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QU1010D	2022-03-23	Na-D	mg/L	0.25	0.25	1360	1360	0.0	1.00
QU1010D	2022-03-23	N-D	mg/L	0.02	0.02	0.781	0.738	5.7	1.06
QU1010D	2022-03-23	Ni-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QU1010D	2022-03-23	N-NH3	mg/L	0.015	0.015	0.76	0.76	0.0	1.00
QU1010D	2022-03-23	Pb-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QU1010D	2022-03-23	P-D	mg/L	0.003	0.003	0.047	0.050	6.2	0.94
QU1010D	2022-03-23	S2-T	mg/L	0.0018	0.0018	0.0094	0.010	6.2	0.94
QU1010D	2022-03-23	Sb-D	mg/L	0.0025	0.0025	<0.0025	<0.0025	0.0	1.00
QU1010D	2022-03-23	S-D	mg/L	15	15	<15	<15	0.0	1.00
QU1010D	2022-03-23	Se-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
QU1010D	2022-03-23	Si-D	mg/L	0.5	0.5	4.04	4.03	0.2	1.00
QU1010D	2022-03-23	SO4-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU1010D	2022-03-23	Sr-D	mg/L	0.005	0.005	6.40	6.31	1.4	1.01
QU1010D	2022-03-23	Ti-D	mg/L	0.025	0.025	<0.025	<0.025	0.0	1.00
QU1010D	2022-03-23	Ti-D	mg/L	0.00005	0.00005	<0.000050	<0.000050	0.0	1.00
QU1010D	2022-03-23	Turb	NTU	0.1	0.1	87	90	3.4	0.97
QU1010D	2022-03-23	U-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
QU1010D	2022-03-23	V-D	mg/L	0.025	0.025	<0.025	<0.025	0.0	1.00
QU1010D	2022-03-23	Zn-D	mg/L	0.025	0.025	<0.025	<0.025	0.0	1.00
QU1010D	2022-03-23	Zr-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
QU1011D	2021-08-24	Acidity45	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU1011D	2021-08-24	Acidity83	mg/L	1	1	9.7	9.1	6.4	1.07
QU1011D	2021-08-24	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
QU1011D	2021-08-24	Al-D	mg/L	0.003	0.003	0.0086	0.0153	56.1	0.56
QU1011D	2021-08-24	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU1011D	2021-08-24	Alk-T	mg/L	1	1	350	340	2.9	1.03
QU1011D	2021-08-24	As-D	mg/L	0.0001	0.0001	0.0272	0.0271	0.4	1.00
QU1011D	2021-08-24	Ba-D	mg/L	0.001	0.001	0.331	0.335	1.2	0.99
QU1011D	2021-08-24	B-D	mg/L	0.05	0.05	1.42	1.43	0.7	0.99
QU1011D	2021-08-24	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00

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Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
QU1011D	2021-08-24	Bicarb	mg/L	1	1	420	410	2.4	1.02
QU1011D	2021-08-24	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QU1011D	2021-08-24	Br-D	mg/L	0.01	0.01	0.59	0.60	1.7	0.98
QU1011D	2021-08-24	Ca-D	mg/L	0.05	0.05	53.1	54.7	3.0	0.97
QU1011D	2021-08-24	Carb	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU1011D	2021-08-24	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
QU1011D	2021-08-24	Cl-D	mg/L	10	10	350	340	2.9	1.03
QU1011D	2021-08-24	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
QU1011D	2021-08-24	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QU1011D	2021-08-24	Cu-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
QU1011D	2021-08-24	DOC	mg/L	1	1	2.6	1.8	36.4	1.44
QU1011D	2021-08-24	F-D	mg/L	0.05	0.05	0.46	0.46	0.0	1.00
QU1011D	2021-08-24	Fe-D	mg/L	0.005	0.005	2.15	2.20	2.3	0.98
QU1011D	2021-08-24	H2S	mg/L	0.002	0.002	0.074	0.086	15.0	0.86
QU1011D	2021-08-24	Hard-D	mg/L	0.5	0.5	153	157	2.6	0.97
QU1011D	2021-08-24	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
QU1011D	2021-08-24	Hydrox	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU1011D	2021-08-24	K-D	mg/L	0.05	0.05	4.51	4.58	1.5	0.98
QU1011D	2021-08-24	Mg-D	mg/L	0.05	0.05	4.86	4.89	0.6	0.99
QU1011D	2021-08-24	Mn-D	mg/L	0.001	0.001	0.237	0.234	1.3	1.01
QU1011D	2021-08-24	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QU1011D	2021-08-24	Na-D	mg/L	0.05	0.05	299	300	0.3	1.00
QU1011D	2021-08-24	N-D	mg/L	0.02	0.02	0.374	0.370	1.1	1.01
QU1011D	2021-08-24	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QU1011D	2021-08-24	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
QU1011D	2021-08-24	P-D	mg/L	0.001	0.001	0.058	0.054	7.1	1.07
QU1011D	2021-08-24	S2-T	mg/L	0.0018	0.0018	0.070	0.081	14.6	0.86
QU1011D	2021-08-24	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
QU1011D	2021-08-24	S-D	mg/L	3	3	<3.0	<3.0	0.0	1.00
QU1011D	2021-08-24	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
QU1011D	2021-08-24	Si-D	mg/L	0.1	0.1	5.77	5.90	2.2	0.98
QU1011D	2021-08-24	SO4-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU1011D	2021-08-24	Sr-D	mg/L	0.001	0.001	0.864	0.858	0.7	1.01
QU1011D	2021-08-24	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QU1011D	2021-08-24	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
QU1011D	2021-08-24	Turb	NTU	0.1	0.1	4.2	4.4	4.7	0.95
QU1011D	2021-08-24	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
QU1011D	2021-08-24	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QU1011D	2021-08-24	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QU1011D	2021-08-24	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
QU1011S	2021-05-17	Acidity45	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU1011S	2021-05-17	Acidity83	mg/L	1	1	3.3	4.3	26.3	0.77
QU1011S	2021-05-17	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
QU1011S	2021-05-17	Al-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
QU1011S	2021-05-17	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU1011S	2021-05-17	Alk-T	mg/L	1	1	150	150	0.0	1.00
QU1011S	2021-05-17	As-D	mg/L	0.0001	0.0001	0.00424	0.00424	0.0	1.00
QU1011S	2021-05-17	Ba-D	mg/L	0.001	0.001	0.185	0.185	0.0	1.00
QU1011S	2021-05-17	B-D	mg/L	0.05	0.05	0.380	0.378	0.5	1.01
QU1011S	2021-05-17	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
QU1011S	2021-05-17	Bicarb	mg/L	1	1	180	180	0.0	1.00
QU1011S	2021-05-17	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QU1011S	2021-05-17	Br-D	mg/L	0.01	0.01	0.017	0.016	6.1	1.06
QU1011S	2021-05-17	Ca-D	mg/L	0.05	0.05	25.9	25.8	0.4	1.00
QU1011S	2021-05-17	Carb	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU1011S	2021-05-17	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
QU1011S	2021-05-17	Cl-D	mg/L	1	1	9.8	9.8	0.0	1.00
QU1011S	2021-05-17	Co-D	mg/L	0.0002	0.0002	0.00022	0.00021	4.7	1.05
QU1011S	2021-05-17	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QU1011S	2021-05-17	Cu-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
QU1011S	2021-05-17	DOC	mg/L	0.5	0.5	1.2	1.2	0.0	1.00
QU1011S	2021-05-17	F-D	mg/L	0.05	0.05	0.15	0.15	0.0	1.00
QU1011S	2021-05-17	Fe-D	mg/L	0.005	0.005	0.431	0.435	0.9	0.99
QU1011S	2021-05-17	H2S	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
QU1011S	2021-05-17	Hard-D	mg/L	0.5	0.5	89.3	89.1	0.2	1.00
QU1011S	2021-05-17	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
QU1011S	2021-05-17	Hydrox	mg/L	1	1	<1.0	<1.0	0.0	1.00

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
QU1011S	2021-05-17	K-D	mg/L	0.05	0.05	1.73	1.70	1.7	1.02
QU1011S	2021-05-17	Mg-D	mg/L	0.05	0.05	6.01	5.97	0.7	1.01
QU1011S	2021-05-17	Mn-D	mg/L	0.001	0.001	0.0758	0.0749	1.2	1.01
QU1011S	2021-05-17	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QU1011S	2021-05-17	Na-D	mg/L	0.05	0.05	28.4	27.8	2.1	1.02
QU1011S	2021-05-17	N-D	mg/L	0.02	0.02	0.117	0.110	6.2	1.06
QU1011S	2021-05-17	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QU1011S	2021-05-17	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
QU1011S	2021-05-17	P-D	mg/L	0.003	0.003	0.0083	0.0098	16.6	0.85
QU1011S	2021-05-17	S2-T	mg/L	0.0018	0.0018	<0.0018	<0.0018	0.0	1.00
QU1011S	2021-05-17	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
QU1011S	2021-05-17	S-D	mg/L	3	3	<3.0	<3.0	0.0	1.00
QU1011S	2021-05-17	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
QU1011S	2021-05-17	Si-D	mg/L	0.1	0.1	3.41	3.49	2.3	0.98
QU1011S	2021-05-17	SO4-D	mg/L	1	1	3.1	3.3	6.2	0.94
QU1011S	2021-05-17	Sr-D	mg/L	0.001	0.001	0.307	0.302	1.6	1.02
QU1011S	2021-05-17	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QU1011S	2021-05-17	Ti-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
QU1011S	2021-05-17	Turb	NTU	0.1	0.1	2.5	2.4	4.1	1.04
QU1011S	2021-05-17	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
QU1011S	2021-05-17	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QU1011S	2021-05-17	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QU1011S	2021-05-17	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
QU1013D	2021-12-08	Acidity45	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU1013D	2021-12-08	Acidity83	mg/L	1	1	7.7	<1.0	175.6	15.40
QU1013D	2021-12-08	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
QU1013D	2021-12-08	Al-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
QU1013D	2021-12-08	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU1013D	2021-12-08	Alk-T	mg/L	1	1	530	520	1.9	1.02
QU1013D	2021-12-08	As-D	mg/L	0.0001	0.0001	0.00240	0.00234	2.5	1.03
QU1013D	2021-12-08	Ba-D	mg/L	0.001	0.001	0.0266	0.0268	0.7	0.99
QU1013D	2021-12-08	B-D	mg/L	0.05	0.05	0.999	1.00	0.1	1.00
QU1013D	2021-12-08	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
QU1013D	2021-12-08	Bicarb	mg/L	1	1	640	630	1.6	1.02
QU1013D	2021-12-08	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QU1013D	2021-12-08	Br-D	mg/L	0.01	0.01	0.14	0.15	6.9	0.93
QU1013D	2021-12-08	Ca-D	mg/L	0.05	0.05	131	130	0.8	1.01
QU1013D	2021-12-08	Carb	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU1013D	2021-12-08	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
QU1013D	2021-12-08	Cl-D	mg/L	1	1	20	20	0.0	1.00
QU1013D	2021-12-08	Co-D	mg/L	0.0002	0.0002	0.00021	<0.00020	71.0	2.10
QU1013D	2021-12-08	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QU1013D	2021-12-08	Cu-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
QU1013D	2021-12-08	DOC	mg/L	0.5	0.5	0.98	1.0	2.0	0.98
QU1013D	2021-12-08	F-D	mg/L	0.05	0.05	0.11	0.11	0.0	1.00
QU1013D	2021-12-08	Fe-D	mg/L	0.005	0.005	4.37	4.38	0.2	1.00
QU1013D	2021-12-08	H2S	mg/L	0.002	0.002	0.092	0.10	8.3	0.92
QU1013D	2021-12-08	Hard-D	mg/L	0.5	0.5	382	378	1.1	1.01
QU1013D	2021-12-08	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
QU1013D	2021-12-08	Hydrox	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU1013D	2021-12-08	K-D	mg/L	0.05	0.05	4.91	4.85	1.2	1.01
QU1013D	2021-12-08	Mg-D	mg/L	0.05	0.05	13.0	13.0	0.0	1.00
QU1013D	2021-12-08	Mn-D	mg/L	0.001	0.001	0.642	0.645	0.5	1.00
QU1013D	2021-12-08	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QU1013D	2021-12-08	Na-D	mg/L	0.05	0.05	369	373	1.1	0.99
QU1013D	2021-12-08	N-D	mg/L	0.02	0.02	0.349	0.349	0.0	1.00
QU1013D	2021-12-08	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QU1013D	2021-12-08	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
QU1013D	2021-12-08	P-D	mg/L	0.006	0.003	<0.0060	0.0032	6.5	0.94
QU1013D	2021-12-08	S2-T	mg/L	0.0018	0.0018	0.086	0.095	9.9	0.91
QU1013D	2021-12-08	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
QU1013D	2021-12-08	S-D	mg/L	3	3	221	219	0.9	1.01
QU1013D	2021-12-08	Se-D	mg/L	0.0001	0.0001	<0.00010	0.00026	135.5	0.19
QU1013D	2021-12-08	Si-D	mg/L	0.1	0.1	3.96	3.98	0.5	0.99
QU1013D	2021-12-08	SO4-D	mg/L	10	10	700	690	1.4	1.01
QU1013D	2021-12-08	Sr-D	mg/L	0.001	0.001	1.35	1.35	0.0	1.00
QU1013D	2021-12-08	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00

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Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
QU1013D	2021-12-08	Ti-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
QU1013D	2021-12-08	Turb	NTU	0.1	0.1	50	47	6.2	1.06
QU1013D	2021-12-08	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
QU1013D	2021-12-08	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QU1013D	2021-12-08	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QU1013D	2021-12-08	Zr-D	mg/L	0.0001	0.0001	0.00012	0.00012	0.0	1.00
QU1013D	2022-03-09	Acidity45	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU1013D	2022-03-09	Acidity83	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU1013D	2022-03-09	Ag-D	mg/L	0.00004	0.00004	<0.000040	<0.000040	0.0	1.00
QU1013D	2022-03-09	Al-D	mg/L	0.006	0.006	<0.0060	<0.0060	0.0	1.00
QU1013D	2022-03-09	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU1013D	2022-03-09	Alk-T	mg/L	1	1	600	600	0.0	1.00
QU1013D	2022-03-09	As-D	mg/L	0.0002	0.0002	0.00032	0.00037	14.5	0.86
QU1013D	2022-03-09	Ba-D	mg/L	0.002	0.002	0.0418	0.0412	1.4	1.01
QU1013D	2022-03-09	B-D	mg/L	0.1	0.1	1.64	1.62	1.2	1.01
QU1013D	2022-03-09	Be-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
QU1013D	2022-03-09	Bicarb	mg/L	1	1	730	730	0.0	1.00
QU1013D	2022-03-09	Bi-D	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
QU1013D	2022-03-09	Br-D	mg/L	0.01	0.01	0.10	0.10	0.0	1.00
QU1013D	2022-03-09	Ca-D	mg/L	0.1	0.1	61.1	62.1	1.6	0.98
QU1013D	2022-03-09	Carb	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU1013D	2022-03-09	Cd-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
QU1013D	2022-03-09	Cl-D	mg/L	1	1	26	25	3.9	1.04
QU1013D	2022-03-09	Co-D	mg/L	0.0004	0.0004	<0.00040	<0.00040	0.0	1.00
QU1013D	2022-03-09	Cr-D	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
QU1013D	2022-03-09	Cu-D	mg/L	0.0004	0.0004	<0.00040	<0.00040	0.0	1.00
QU1013D	2022-03-09	DOC	mg/L	0.5	0.5	0.71	0.83	15.6	0.86
QU1013D	2022-03-09	F-D	mg/L	0.05	0.05	0.12	0.12	0.0	1.00
QU1013D	2022-03-09	Fe-D	mg/L	0.01	0.01	0.528	0.506	4.3	1.04
QU1013D	2022-03-09	H2S	mg/L	0.002	0.002	0.29	0.24	18.9	1.21
QU1013D	2022-03-09	Hard-D	mg/L	0.5	0.5	169	172	1.8	0.98
QU1013D	2022-03-09	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
QU1013D	2022-03-09	Hydrox	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU1013D	2022-03-09	K-D	mg/L	0.1	0.1	3.86	3.90	1.0	0.99
QU1013D	2022-03-09	Mg-D	mg/L	0.1	0.1	3.93	3.98	1.3	0.99
QU1013D	2022-03-09	Mn-D	mg/L	0.002	0.002	0.152	0.153	0.7	0.99
QU1013D	2022-03-09	Mo-D	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
QU1013D	2022-03-09	Na-D	mg/L	0.1	0.1	470	474	0.8	0.99
QU1013D	2022-03-09	N-D	mg/L	0.02	0.02	0.314	0.303	3.6	1.04
QU1013D	2022-03-09	Ni-D	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
QU1013D	2022-03-09	N-NH3	mg/L	0.015	0.015	0.29	0.25	14.8	1.16
QU1013D	2022-03-09	Pb-D	mg/L	0.0004	0.0004	<0.00040	<0.00040	0.0	1.00
QU1013D	2022-03-09	P-D	mg/L	0.003	0.003	0.0069	0.0074	7.0	0.93
QU1013D	2022-03-09	S2-T	mg/L	0.0018	0.0018	0.27	0.23	16.0	1.17
QU1013D	2022-03-09	Sb-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QU1013D	2022-03-09	S-D	mg/L	6	6	201	200	0.5	1.00
QU1013D	2022-03-09	Se-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
QU1013D	2022-03-09	Si-D	mg/L	0.2	0.2	4.79	4.78	0.2	1.00
QU1013D	2022-03-09	SO4-D	mg/L	10	10	530	630	17.2	0.84
QU1013D	2022-03-09	Sr-D	mg/L	0.002	0.002	0.777	0.778	0.1	1.00
QU1013D	2022-03-09	Ti-D	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
QU1013D	2022-03-09	Ti-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
QU1013D	2022-03-09	Turb	NTU	0.1	0.1	4.9	5.7	15.1	0.86
QU1013D	2022-03-09	U-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
QU1013D	2022-03-09	V-D	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
QU1013D	2022-03-09	Zn-D	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
QU1013D	2022-03-09	Zr-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
QU1101	2021-06-22	Acidity45	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU1101	2021-06-22	Acidity83	mg/L	1	1	164	208	23.7	0.79
QU1101	2021-06-22	Ag-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
QU1101	2021-06-22	Al-D	mg/L	0.015	0.015	<0.015	<0.015	0.0	1.00
QU1101	2021-06-22	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU1101	2021-06-22	Alk-T	mg/L	1	1	64	100	43.9	0.64
QU1101	2021-06-22	As-D	mg/L	0.0005	0.0005	0.107	0.107	0.0	1.00
QU1101	2021-06-22	Ba-D	mg/L	0.005	0.005	0.0118	0.0119	0.8	0.99
QU1101	2021-06-22	B-D	mg/L	0.25	0.25	1.06	1.10	3.7	0.96
QU1101	2021-06-22	Be-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00

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Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
QU1101	2021-06-22	Bicarb	mg/L	1	1	78	130	50.0	0.60
QU1101	2021-06-22	Bi-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QU1101	2021-06-22	Br-D	mg/L	0.02	0.02	0.27	0.17	45.5	1.59
QU1101	2021-06-22	Ca-D	mg/L	0.25	0.25	342	343	0.3	1.00
QU1101	2021-06-22	Carb	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU1101	2021-06-22	Cd-D	mg/L	0.00005	0.00005	<0.000050	<0.000050	0.0	1.00
QU1101	2021-06-22	Cl-D	mg/L	1	1	4.2	5.2	21.3	0.81
QU1101	2021-06-22	Co-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QU1101	2021-06-22	Cr-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QU1101	2021-06-22	Cu-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QU1101	2021-06-22	DOC	mg/L	0.5	0.5	2.1	2.2	4.7	0.95
QU1101	2021-06-22	F-D	mg/L	0.02	0.02	0.440	0.490	10.8	0.90
QU1101	2021-06-22	Fe-D	mg/L	0.025	0.025	153	153	0.0	1.00
QU1101	2021-06-22	H2S	mg/L	0.019	0.019	<0.019	<0.019	0.0	1.00
QU1101	2021-06-22	Hard-D	mg/L	0.5	0.5	1060	1070	0.9	0.99
QU1101	2021-06-22	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
QU1101	2021-06-22	Hydrox	mg/L	1	1	<1.0	<1.0	0.0	1.00
QU1101	2021-06-22	K-D	mg/L	0.25	0.25	6.21	6.22	0.2	1.00
QU1101	2021-06-22	Mg-D	mg/L	0.25	0.25	51.0	51.8	1.6	0.98
QU1101	2021-06-22	Mn-D	mg/L	0.005	0.005	2.39	2.44	2.1	0.98
QU1101	2021-06-22	Mo-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QU1101	2021-06-22	Na-D	mg/L	0.25	0.25	131	129	1.5	1.02
QU1101	2021-06-22	N-D	mg/L	0.02	0.02	0.424	0.437	3.0	0.97
QU1101	2021-06-22	Ni-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QU1101	2021-06-22	Pb-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QU1101	2021-06-22	P-D	mg/L	0.003	0.003	0.018	0.0098	59.0	1.84
QU1101	2021-06-22	S2-T	mg/L	0.018	0.018	<0.018	<0.018	0.0	1.00
QU1101	2021-06-22	Sb-D	mg/L	0.0025	0.0025	<0.0025	<0.0025	0.0	1.00
QU1101	2021-06-22	S-D	mg/L	15	15	477	478	0.2	1.00
QU1101	2021-06-22	Se-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
QU1101	2021-06-22	Si-D	mg/L	0.5	0.5	5.46	5.49	0.5	0.99
QU1101	2021-06-22	SO4-D	mg/L	10	10	1500	1500	0.0	1.00
QU1101	2021-06-22	Sr-D	mg/L	0.005	0.005	1.96	1.86	5.2	1.05
QU1101	2021-06-22	Ti-D	mg/L	0.025	0.025	<0.025	<0.025	0.0	1.00
QU1101	2021-06-22	Tl-D	mg/L	0.00005	0.00005	<0.000050	<0.000050	0.0	1.00
QU1101	2021-06-22	Turb	NTU	0.1	0.1	160	300	60.9	0.53
QU1101	2021-06-22	U-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
QU1101	2021-06-22	V-D	mg/L	0.025	0.025	<0.025	<0.025	0.0	1.00
QU1101	2021-06-22	Zn-D	mg/L	0.025	0.025	<0.025	<0.025	0.0	1.00
QU1101	2021-06-22	Zr-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
QU1105D	2021-11-04	Acidity45	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
QU1105D	2021-11-04	Acidity83	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
QU1105D	2021-11-04	Ag-D	mg/L	0.000040	0.000040	<0.000040	<0.000040	0.0	1.00
QU1105D	2021-11-04	Al-D	mg/L	0.0060	0.0060	0.0125	0.0132	5.4	0.95
QU1105D	2021-11-04	Alk-PP	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
QU1105D	2021-11-04	Alk-T	mg/L	1.0	1.0	340	350	2.9	0.97
QU1105D	2021-11-04	As-D	mg/L	0.00020	0.00020	0.00492	0.00479	2.7	1.03
QU1105D	2021-11-04	Ba-D	mg/L	0.0020	0.0020	0.154	0.161	4.4	0.96
QU1105D	2021-11-04	B-D	mg/L	0.10	0.10	0.52	0.51	1.9	1.02
QU1105D	2021-11-04	Be-D	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00
QU1105D	2021-11-04	Bicarb	mg/L	1.0	1.0	420	420	0.0	1.00
QU1105D	2021-11-04	Bi-D	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0	1.00
QU1105D	2021-11-04	Br-D	mg/L	0.010	0.050	2.0	2.0	0.0	1.00
QU1105D	2021-11-04	Ca-D	mg/L	0.10	0.10	135	138	2.2	0.98
QU1105D	2021-11-04	Carb	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
QU1105D	2021-11-04	Cd-D	mg/L	0.000020	0.000020	<0.000020	<0.000020	0.0	1.00
QU1105D	2021-11-04	Cl-D	mg/L	10	10	1400	1300	7.4	1.08
QU1105D	2021-11-04	Co-D	mg/L	0.00040	0.00040	<0.00040	<0.00040	0.0	1.00
QU1105D	2021-11-04	Cr-D	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0	1.00
QU1105D	2021-11-04	Cu-D	mg/L	0.00040	0.00040	<0.00040	<0.00040	0.0	1.00
QU1105D	2021-11-04	DOC	mg/L	5.0	5.0	<5.0	<5.0	0.0	1.00
QU1105D	2021-11-04	F-D	mg/L	0.050	0.050	<0.050	0.050	66.7	0.50
QU1105D	2021-11-04	Fe-D	mg/L	0.010	0.010	<0.010	<0.010	0.0	1.00
QU1105D	2021-11-04	H2S	mg/L	0.77	0.77	52	55	5.6	0.95
QU1105D	2021-11-04	Hard-D	mg/L	0.50	0.50	353	362	2.5	0.98
QU1105D	2021-11-04	Hg-D	mg/L	0.000019	0.000019	<0.000019	<0.000019	0.0	1.00
QU1105D	2021-11-04	Hydrox	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00

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Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
QU1105D	2021-11-04	K-D	mg/L	0.10	0.10	4.53	4.68	3.3	0.97
QU1105D	2021-11-04	Mg-D	mg/L	0.10	0.10	4.20	4.35	3.5	0.97
QU1105D	2021-11-04	Mn-D	mg/L	0.0020	0.0020	0.108	0.112	3.6	0.96
QU1105D	2021-11-04	Mo-D	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0	1.00
QU1105D	2021-11-04	Na-D	mg/L	0.10	0.10	831	866	4.1	0.96
QU1105D	2021-11-04	N-D	mg/L	0.020	0.020	0.372	0.367	1.4	1.01
QU1105D	2021-11-04	Ni-D	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0	1.00
QU1105D	2021-11-04	Pb-D	mg/L	0.00040	0.00040	<0.00040	<0.00040	0.0	1.00
QU1105D	2021-11-04	P-D	mg/L	0.0060	0.0060	0.28	0.28	0.0	1.00
QU1105D	2021-11-04	S2-T	mg/L	0.72	0.72	49	51	4.0	0.96
QU1105D	2021-11-04	Sb-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
QU1105D	2021-11-04	S-D	mg/L	6.0	6.0	294	293	0.3	1.00
QU1105D	2021-11-04	Se-D	mg/L	0.00020	0.00020	0.0132	0.0158	17.9	0.84
QU1105D	2021-11-04	Si-D	mg/L	0.20	0.20	6.04	6.26	3.6	0.96
QU1105D	2021-11-04	SO4-D	mg/L	10	10	240	250	4.1	0.96
QU1105D	2021-11-04	Sr-D	mg/L	0.0020	0.0020	1.61	1.68	4.3	0.96
QU1105D	2021-11-04	Ti-D	mg/L	0.010	0.010	<0.010	<0.010	0.0	1.00
QU1105D	2021-11-04	Ti-D	mg/L	0.000020	0.000020	<0.000020	<0.000020	0.0	1.00
QU1105D	2021-11-04	Turb	NTU	0.10	0.10	170	170	0.0	1.00
QU1105D	2021-11-04	U-D	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00
QU1105D	2021-11-04	V-D	mg/L	0.010	0.010	<0.010	<0.010	0.0	1.00
QU1105D	2021-11-04	Zn-D	mg/L	0.010	0.010	<0.010	<0.010	0.0	1.00
QU1105D	2021-11-04	Zr-D	mg/L	0.00020	0.00020	0.00032	0.00028	13.3	1.14
QU1109S	2021-06-15	Acidity45	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
QU1109S	2021-06-15	Acidity83	mg/L	1.0	1.0	9.3	9.6	3.2	0.97
QU1109S	2021-06-15	Ag-D	mg/L	0.000040	0.000040	<0.000040	<0.000040	0.0	1.00
QU1109S	2021-06-15	Ag-T	mg/L	0.000040	0.000040	<0.000040	<0.000040	0.0	1.00
QU1109S	2021-06-15	Al-D	mg/L	0.0060	0.0060	<0.0060	<0.0060	0.0	1.00
QU1109S	2021-06-15	Alk-PP	mg/L	1.0	1.0	4.8	3.2	40.0	1.50
QU1109S	2021-06-15	Alk-T	mg/L	1.0	1.0	490	500	2.0	0.98
QU1109S	2021-06-15	Al-T	mg/L	0.0060	0.0060	0.0590	0.0539	9.0	1.09
QU1109S	2021-06-15	As-D	mg/L	0.00020	0.00020	0.0879	0.0873	0.7	1.01
QU1109S	2021-06-15	As-T	mg/L	0.00020	0.00020	0.0943	0.0976	3.4	0.97
QU1109S	2021-06-15	Ba-D	mg/L	0.0020	0.0020	0.0325	0.0319	1.9	1.02
QU1109S	2021-06-15	Ba-T	mg/L	0.0020	0.0020	0.0340	0.0350	2.9	0.97
QU1109S	2021-06-15	B-D	mg/L	0.10	0.10	2.06	2.00	3.0	1.03
QU1109S	2021-06-15	Be-D	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00
QU1109S	2021-06-15	Be-T	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00
QU1109S	2021-06-15	Bicarb	mg/L	1.0	1.0	590	600	1.7	0.98
QU1109S	2021-06-15	Bi-D	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0	1.00
QU1109S	2021-06-15	Bi-T	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0	1.00
QU1109S	2021-06-15	Br-D	mg/L	0.010	0.010	0.12	0.13	8.0	0.92
QU1109S	2021-06-15	B-T	mg/L	0.10	0.10	2.03	2.08	2.4	0.98
QU1109S	2021-06-15	Ca-D	mg/L	0.10	0.10	39.3	39.7	1.0	0.99
QU1109S	2021-06-15	Carb	mg/L	1.0	1.0	5.8	3.8	41.7	1.53
QU1109S	2021-06-15	Ca-T	mg/L	0.10	0.10	40.7	42.0	3.1	0.97
QU1109S	2021-06-15	Cd-D	mg/L	0.000020	0.000020	<0.000020	<0.000020	0.0	1.00
QU1109S	2021-06-15	Cd-T	mg/L	0.000020	0.000020	<0.000020	0.000025	85.7	0.40
QU1109S	2021-06-15	Cl-D	mg/L	1.0	1.0	53	52	1.9	1.02
QU1109S	2021-06-15	Co-D	mg/L	0.00040	0.00040	<0.00040	<0.00040	0.0	1.00
QU1109S	2021-06-15	Co-T	mg/L	0.00040	0.00040	0.00895	0.00886	1.0	1.01
QU1109S	2021-06-15	Cr-D	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0	1.00
QU1109S	2021-06-15	Cr-T	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0	1.00
QU1109S	2021-06-15	Cu-D	mg/L	0.00040	0.00040	<0.00040	<0.00040	0.0	1.00
QU1109S	2021-06-15	Cu-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
QU1109S	2021-06-15	DOC	mg/L	0.50	0.50	1.1	0.92	17.8	1.20
QU1109S	2021-06-15	F-D	mg/L	0.050	0.050	0.44	0.43	2.3	1.02
QU1109S	2021-06-15	Fe-D	mg/L	0.010	0.010	0.867	0.862	0.6	1.01
QU1109S	2021-06-15	Fe-T	mg/L	0.020	0.020	6.13	6.04	1.5	1.01
QU1109S	2021-06-15	H2S	mg/L	0.096	0.096	2.9	2.7	7.1	1.07
QU1109S	2021-06-15	Hard-D	mg/L	0.50	0.50	134	135	0.7	0.99
QU1109S	2021-06-15	Hard-T	mg/L	0.50	0.50	139	142	2.1	0.98
QU1109S	2021-06-15	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
QU1109S	2021-06-15	Hg-T	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
QU1109S	2021-06-15	Hydrox	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
QU1109S	2021-06-15	K-D	mg/L	0.10	0.10	5.08	5.05	0.6	1.01
QU1109S	2021-06-15	K-T	mg/L	0.10	0.10	5.25	5.35	1.9	0.98

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Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
QU1109S	2021-06-15	Li-T	mg/L	0.0040	0.0040	0.0944	0.0997	5.5	0.95
QU1109S	2021-06-15	Mg-D	mg/L	0.10	0.10	8.77	8.80	0.3	1.00
QU1109S	2021-06-15	Mg-T	mg/L	0.10	0.10	8.99	9.11	1.3	0.99
QU1109S	2021-06-15	Mn-D	mg/L	0.0020	0.0020	0.0727	0.0725	0.3	1.00
QU1109S	2021-06-15	Mn-T	mg/L	0.0020	0.0020	0.0747	0.0770	3.0	0.97
QU1109S	2021-06-15	Mo-D	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0	1.00
QU1109S	2021-06-15	Mo-T	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0	1.00
QU1109S	2021-06-15	Na-D	mg/L	0.10	0.10	382	387	1.3	0.99
QU1109S	2021-06-15	Na-T	mg/L	0.10	0.10	389	390	0.3	1.00
QU1109S	2021-06-15	N-D	mg/L	0.020	0.020	0.543	0.489	10.5	1.11
QU1109S	2021-06-15	Ni-D	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0	1.00
QU1109S	2021-06-15	Ni-T	mg/L	0.0020	0.0020	<0.0020	0.0386	189.9	0.03
QU1109S	2021-06-15	Pb-D	mg/L	0.00040	0.00040	<0.00040	<0.00040	0.0	1.00
QU1109S	2021-06-15	Pb-T	mg/L	0.00040	0.00040	<0.00040	<0.00040	0.0	1.00
QU1109S	2021-06-15	P-D	mg/L	0.0030	0.0030	0.0074	0.0090	19.5	0.82
QU1109S	2021-06-15	S2-T	mg/L	0.090	0.090	2.7	2.5	7.7	1.08
QU1109S	2021-06-15	Sb-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
QU1109S	2021-06-15	Sb-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
QU1109S	2021-06-15	S-D	mg/L	6.0	6.0	149	150	0.7	0.99
QU1109S	2021-06-15	Se-D	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00
QU1109S	2021-06-15	Se-T	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00
QU1109S	2021-06-15	Si-D	mg/L	0.20	0.20	5.58	5.62	0.7	0.99
QU1109S	2021-06-15	Si-T	mg/L	0.20	0.20	5.83	6.26	7.1	0.93
QU1109S	2021-06-15	Sn-T	mg/L	0.010	0.010	<0.010	<0.010	0.0	1.00
QU1109S	2021-06-15	SO4-D	mg/L	10	10	430	440	2.3	0.98
QU1109S	2021-06-15	Sr-D	mg/L	0.0020	0.0020	0.735	0.722	1.8	1.02
QU1109S	2021-06-15	Sr-T	mg/L	0.0020	0.0020	0.759	0.786	3.5	0.97
QU1109S	2021-06-15	S-T	mg/L	6.0	6.0	152	157	3.2	0.97
QU1109S	2021-06-15	Ti-D	mg/L	0.010	0.010	<0.010	<0.010	0.0	1.00
QU1109S	2021-06-15	Ti-T	mg/L	0.010	0.010	<0.010	<0.010	0.0	1.00
QU1109S	2021-06-15	TI-D	mg/L	0.000020	0.000020	<0.000020	<0.000020	0.0	1.00
QU1109S	2021-06-15	TI-T	mg/L	0.000020	0.000020	<0.000020	<0.000020	0.0	1.00
QU1109S	2021-06-15	Turb	NTU	0.10	0.10	25	23	8.3	1.09
QU1109S	2021-06-15	U-D	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00
QU1109S	2021-06-15	U-T	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00
QU1109S	2021-06-15	V-D	mg/L	0.010	0.010	<0.010	<0.010	0.0	1.00
QU1109S	2021-06-15	V-T	mg/L	0.010	0.010	<0.010	<0.010	0.0	1.00
QU1109S	2021-06-15	Zn-D	mg/L	0.010	0.010	<0.010	<0.010	0.0	1.00
QU1109S	2021-06-15	Zn-T	mg/L	0.010	0.010	<0.010	0.091	179.2	0.05
QU1109S	2021-06-15	Zr-D	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00
QU1109S	2021-06-15	Zr-T	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00
QU1109S	2021-08-19	Acidity45	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
QU1109S	2021-08-19	Acidity83	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
QU1109S	2021-08-19	Ag-D	mg/L	0.000040	0.000040	<0.000040	<0.000040	0.0	1.00
QU1109S	2021-08-19	Ag-T	mg/L	0.000040	0.000040	<0.000040	<0.000040	0.0	1.00
QU1109S	2021-08-19	Al-D	mg/L	0.0060	0.0060	<0.0060	<0.0060	0.0	1.00
QU1109S	2021-08-19	Alk-PP	mg/L	1.0	1.0	2.4	<1.0	131.0	4.80
QU1109S	2021-08-19	Alk-T	mg/L	1.0	1.0	490	480	2.1	1.02
QU1109S	2021-08-19	Al-T	mg/L	0.0060	0.0060	0.0131	0.0112	15.6	1.17
QU1109S	2021-08-19	As-D	mg/L	0.00020	0.00020	0.0926	0.0850	8.6	1.09
QU1109S	2021-08-19	As-T	mg/L	0.00020	0.00020	0.0984	0.103	4.6	0.96
QU1109S	2021-08-19	Ba-D	mg/L	0.0020	0.0020	0.0313	0.0303	3.2	1.03
QU1109S	2021-08-19	Ba-T	mg/L	0.0020	0.0020	0.0316	0.0334	5.5	0.95
QU1109S	2021-08-19	B-D	mg/L	0.10	0.10	1.94	1.93	0.5	1.01
QU1109S	2021-08-19	Be-D	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00
QU1109S	2021-08-19	Be-T	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00
QU1109S	2021-08-19	Bicarb	mg/L	1.0	1.0	590	590	0.0	1.00
QU1109S	2021-08-19	Bi-D	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0	1.00
QU1109S	2021-08-19	Bi-T	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0	1.00
QU1109S	2021-08-19	Br-D	mg/L	0.010	0.010	0.10	0.10	0.0	1.00
QU1109S	2021-08-19	B-T	mg/L	0.10	0.10	2.04	2.09	2.4	0.98
QU1109S	2021-08-19	Ca-D	mg/L	0.10	0.10	26.3	25.2	4.3	1.04
QU1109S	2021-08-19	Carb	mg/L	1.0	1.0	2.9	<1.0	141.2	5.80
QU1109S	2021-08-19	Ca-T	mg/L	0.10	0.10	26.5	27.2	2.6	0.97
QU1109S	2021-08-19	Cd-D	mg/L	0.000020	0.000020	<0.000020	<0.000020	0.0	1.00
QU1109S	2021-08-19	Cd-T	mg/L	0.000020	0.000020	<0.000020	<0.000020	0.0	1.00
QU1109S	2021-08-19	Cl-D	mg/L	1.0	1.0	45	45	0.0	1.00

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Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
QU1109S	2021-08-19	Co-D	mg/L	0.00040	0.00040	<0.00040	<0.00040	0.0	1.00
QU1109S	2021-08-19	Co-T	mg/L	0.00040	0.00040	0.00240	0.00237	1.3	1.01
QU1109S	2021-08-19	Cr-D	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0	1.00
QU1109S	2021-08-19	Cr-T	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0	1.00
QU1109S	2021-08-19	Cu-D	mg/L	0.00040	0.00040	<0.00040	<0.00040	0.0	1.00
QU1109S	2021-08-19	Cu-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
QU1109S	2021-08-19	DOC	mg/L	0.50	0.50	<0.50	<0.50	0.0	1.00
QU1109S	2021-08-19	F-D	mg/L	0.050	0.050	0.56	0.56	0.0	1.00
QU1109S	2021-08-19	Fe-D	mg/L	0.010	0.010	0.257	0.251	2.4	1.02
QU1109S	2021-08-19	Fe-T	mg/L	0.020	0.020	2.01	1.79	11.6	1.12
QU1109S	2021-08-19	H2S	mg/L	0.038	0.038	1.6	1.6	0.0	1.00
QU1109S	2021-08-19	Hard-D	mg/L	0.50	0.50	90.1	86.9	3.6	1.04
QU1109S	2021-08-19	Hard-T	mg/L	0.50	0.50	91.9	94.4	2.7	0.97
QU1109S	2021-08-19	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
QU1109S	2021-08-19	Hydrox	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
QU1109S	2021-08-19	K-D	mg/L	0.10	0.10	4.20	4.18	0.5	1.00
QU1109S	2021-08-19	K-T	mg/L	0.10	0.10	4.25	4.38	3.0	0.97
QU1109S	2021-08-19	Li-T	mg/L	0.0040	0.0040	0.0825	0.0836	1.3	0.99
QU1109S	2021-08-19	Mg-D	mg/L	0.10	0.10	5.95	5.80	2.6	1.03
QU1109S	2021-08-19	Mg-T	mg/L	0.10	0.10	6.21	6.40	3.0	0.97
QU1109S	2021-08-19	Mn-D	mg/L	0.0020	0.0020	0.0351	0.0349	0.6	1.01
QU1109S	2021-08-19	Mn-T	mg/L	0.0020	0.0020	0.0381	0.0368	3.5	1.04
QU1109S	2021-08-19	Mo-D	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0	1.00
QU1109S	2021-08-19	Mo-T	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0	1.00
QU1109S	2021-08-19	Na-D	mg/L	0.10	0.10	334	331	0.9	1.01
QU1109S	2021-08-19	Na-T	mg/L	0.10	0.10	325	339	4.2	0.96
QU1109S	2021-08-19	N-D	mg/L	0.020	0.020	0.379	0.381	0.5	0.99
QU1109S	2021-08-19	Ni-D	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0	1.00
QU1109S	2021-08-19	Ni-T	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0	1.00
QU1109S	2021-08-19	Pb-D	mg/L	0.00040	0.00040	<0.00040	<0.00040	0.0	1.00
QU1109S	2021-08-19	Pb-T	mg/L	0.00040	0.00040	<0.00040	<0.00040	0.0	1.00
QU1109S	2021-08-19	P-D	mg/L	0.0030	0.0030	0.012	0.013	8.0	0.92
QU1109S	2021-08-19	S2-T	mg/L	0.036	0.036	1.5	1.5	0.0	1.00
QU1109S	2021-08-19	Sb-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
QU1109S	2021-08-19	Sb-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
QU1109S	2021-08-19	S-D	mg/L	6.0	6.0	94.4	93.0	1.5	1.02
QU1109S	2021-08-19	Se-D	mg/L	0.00020	0.00020	<0.00020	0.00122	169.7	0.08
QU1109S	2021-08-19	Se-T	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00
QU1109S	2021-08-19	Si-D	mg/L	0.20	0.20	5.57	5.39	3.3	1.03
QU1109S	2021-08-19	Si-T	mg/L	0.20	0.20	5.77	6.02	4.2	0.96
QU1109S	2021-08-19	Sn-T	mg/L	0.010	0.010	<0.010	<0.010	0.0	1.00
QU1109S	2021-08-19	SO4-D	mg/L	10	10	300	290	3.4	1.03
QU1109S	2021-08-19	Sr-D	mg/L	0.0020	0.0020	0.468	0.469	0.2	1.00
QU1109S	2021-08-19	Sr-T	mg/L	0.0020	0.0020	0.464	0.474	2.1	0.98
QU1109S	2021-08-19	S-T	mg/L	6.0	6.0	97.3	99.8	2.5	0.97
QU1109S	2021-08-19	Ti-D	mg/L	0.010	0.010	<0.010	<0.010	0.0	1.00
QU1109S	2021-08-19	Ti-T	mg/L	0.010	0.010	<0.010	<0.010	0.0	1.00
QU1109S	2021-08-19	Ti-D	mg/L	0.000020	0.000020	<0.000020	<0.000020	0.0	1.00
QU1109S	2021-08-19	Ti-T	mg/L	0.000020	0.000020	<0.000020	<0.000020	0.0	1.00
QU1109S	2021-08-19	Turb	NTU	0.10	0.10	2.6	3.6	32.3	0.72
QU1109S	2021-08-19	U-D	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00
QU1109S	2021-08-19	U-T	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00
QU1109S	2021-08-19	V-D	mg/L	0.010	0.010	<0.010	<0.010	0.0	1.00
QU1109S	2021-08-19	V-T	mg/L	0.010	0.010	<0.010	<0.010	0.0	1.00
QU1109S	2021-08-19	Zn-D	mg/L	0.010	0.010	<0.010	<0.010	0.0	1.00
QU1109S	2021-08-19	Zn-T	mg/L	0.010	0.010	<0.010	<0.010	0.0	1.00
QU1109S	2021-08-19	Zr-D	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00
QU1109S	2021-08-19	Zr-T	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00
QU1109S	2021-11-03	Acidity45	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
QU1109S	2021-11-03	Acidity83	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
QU1109S	2021-11-03	Ag-D	mg/L	0.000040	0.000020	<0.000040	<0.000020	66.7	2.00
QU1109S	2021-11-03	Al-D	mg/L	0.0060	0.0030	<0.0060	<0.0030	66.7	2.00
QU1109S	2021-11-03	Alk-PP	mg/L	1.0	1.0	14	21	40.0	0.67
QU1109S	2021-11-03	Alk-T	mg/L	1.0	1.0	470	470	0.0	1.00
QU1109S	2021-11-03	As-D	mg/L	0.00020	0.00010	0.0953	0.102	6.8	0.93
QU1109S	2021-11-03	Ba-D	mg/L	0.0020	0.0010	0.0341	0.0342	0.3	1.00
QU1109S	2021-11-03	B-D	mg/L	0.10	0.050	1.80	1.85	2.7	0.97

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Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
QU1109S	2021-11-03	Be-D	mg/L	0.00020	0.00010	<0.00020	<0.00010	66.7	2.00
QU1109S	2021-11-03	Bicarb	mg/L	1.0	1.0	540	520	3.8	1.04
QU1109S	2021-11-03	Bi-D	mg/L	0.0020	0.0010	<0.0020	<0.0010	66.7	2.00
QU1109S	2021-11-03	Br-D	mg/L	0.010	0.010	0.093	0.089	4.4	1.04
QU1109S	2021-11-03	Ca-D	mg/L	0.10	0.050	22.1	21.9	0.9	1.01
QU1109S	2021-11-03	Carb	mg/L	1.0	1.0	17	25	38.1	0.68
QU1109S	2021-11-03	Cd-D	mg/L	0.000020	0.000010	<0.000020	<0.000010	66.7	2.00
QU1109S	2021-11-03	Cl-D	mg/L	1.0	1.0	35	31	12.1	1.13
QU1109S	2021-11-03	Co-D	mg/L	0.00040	0.00020	<0.00040	<0.00020	66.7	2.00
QU1109S	2021-11-03	Cr-D	mg/L	0.0020	0.0010	<0.0020	<0.0010	66.7	2.00
QU1109S	2021-11-03	Cu-D	mg/L	0.00040	0.00020	<0.00040	<0.00020	66.7	2.00
QU1109S	2021-11-03	DOC	mg/L	0.50	0.50	<0.50	<0.50	0.0	1.00
QU1109S	2021-11-03	F-D	mg/L	0.050	0.050	0.61	0.60	1.7	1.02
QU1109S	2021-11-03	Fe-D	mg/L	0.010	0.0050	0.128	0.121	5.6	1.06
QU1109S	2021-11-03	H2S	mg/L	0.038	0.038	1.8	1.9	5.4	0.95
QU1109S	2021-11-03	Hard-D	mg/L	0.50	0.50	77.0	76.8	0.3	1.00
QU1109S	2021-11-03	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
QU1109S	2021-11-03	Hydrox	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
QU1109S	2021-11-03	K-D	mg/L	0.10	0.050	4.08	4.07	0.2	1.00
QU1109S	2021-11-03	Mg-D	mg/L	0.10	0.050	5.28	5.39	2.1	0.98
QU1109S	2021-11-03	Mn-D	mg/L	0.0020	0.0010	0.0269	0.0257	4.6	1.05
QU1109S	2021-11-03	Mo-D	mg/L	0.0020	0.0010	<0.0020	<0.0010	66.7	2.00
QU1109S	2021-11-03	Na-D	mg/L	0.10	0.050	307	310	1.0	0.99
QU1109S	2021-11-03	N-D	mg/L	0.020	0.020	0.363	0.383	5.4	0.95
QU1109S	2021-11-03	Ni-D	mg/L	0.0020	0.0010	<0.0020	<0.0010	66.7	2.00
QU1109S	2021-11-03	Pb-D	mg/L	0.00040	0.00020	<0.00040	<0.00020	66.7	2.00
QU1109S	2021-11-03	P-D	mg/L	0.0030	0.0030	0.017	0.017	0.0	1.00
QU1109S	2021-11-03	S2-T	mg/L	0.036	0.036	1.7	1.7	0.0	1.00
QU1109S	2021-11-03	Sb-D	mg/L	0.0010	0.00050	<0.0010	<0.00050	66.7	2.00
QU1109S	2021-11-03	S-D	mg/L	6.0	3.0	93.2	102	9.0	0.91
QU1109S	2021-11-03	Se-D	mg/L	0.00020	0.00010	0.00136	0.00182	28.9	0.75
QU1109S	2021-11-03	Si-D	mg/L	0.20	0.10	5.85	5.67	3.1	1.03
QU1109S	2021-11-03	SO4-D	mg/L	10	10	240	280	15.4	0.86
QU1109S	2021-11-03	Sr-D	mg/L	0.0020	0.0010	0.411	0.417	1.4	0.99
QU1109S	2021-11-03	Ti-D	mg/L	0.010	0.0050	<0.010	<0.0050	66.7	2.00
QU1109S	2021-11-03	Tl-D	mg/L	0.000020	0.000010	<0.000020	<0.000010	66.7	2.00
QU1109S	2021-11-03	Turb	NTU	0.10	0.10	3.2	3.3	3.1	0.97
QU1109S	2021-11-03	U-D	mg/L	0.00020	0.00010	<0.00020	<0.00010	66.7	2.00
QU1109S	2021-11-03	V-D	mg/L	0.010	0.0050	<0.010	<0.0050	66.7	2.00
QU1109S	2021-11-03	Zn-D	mg/L	0.010	0.0050	<0.010	<0.0050	66.7	2.00
QU1109S	2021-11-03	Zr-D	mg/L	0.00020	0.00010	<0.00020	<0.00010	66.7	2.00
QU1410	2021-07-28	Acidity45	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
QU1410	2021-07-28	Acidity83	mg/L	1.0	1.0	22.1	16.4	29.6	1.35
QU1410	2021-07-28	Ag-D	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00
QU1410	2021-07-28	Al-D	mg/L	0.015	0.015	<0.015	<0.015	0.0	1.00
QU1410	2021-07-28	Alk-PP	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
QU1410	2021-07-28	Alk-T	mg/L	1.0	1.0	310	310	0.0	1.00
QU1410	2021-07-28	As-D	mg/L	0.00050	0.00050	0.108	0.107	0.9	1.01
QU1410	2021-07-28	Ba-D	mg/L	0.0050	0.0050	0.0157	0.0159	1.3	0.99
QU1410	2021-07-28	B-D	mg/L	0.25	0.25	1.13	1.15	1.8	0.98
QU1410	2021-07-28	Be-D	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0	1.00
QU1410	2021-07-28	Bicarb	mg/L	1.0	1.0	380	380	0.0	1.00
QU1410	2021-07-28	Bi-D	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00
QU1410	2021-07-28	Br-D	mg/L	0.050	0.050	0.17	0.16	6.1	1.06
QU1410	2021-07-28	Ca-D	mg/L	0.25	0.25	543	536	1.3	1.01
QU1410	2021-07-28	Carb	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
QU1410	2021-07-28	Cd-D	mg/L	0.000050	0.000050	<0.000050	<0.000050	0.0	1.00
QU1410	2021-07-28	Cl-D	mg/L	1.0	1.0	6.9	7.1	2.9	0.97
QU1410	2021-07-28	Co-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
QU1410	2021-07-28	Cr-D	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00
QU1410	2021-07-28	Cu-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
QU1410	2021-07-28	DOC	mg/L	0.50	0.50	1.6	1.8	11.8	0.89
QU1410	2021-07-28	F-D	mg/L	0.050	0.050	0.14	0.14	0.0	1.00
QU1410	2021-07-28	Fe-D	mg/L	0.025	0.025	2.49	2.48	0.4	1.00
QU1410	2021-07-28	H2S	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0	1.00
QU1410	2021-07-28	Hard-D	mg/L	0.50	0.50	2040	2000	2.0	1.02
QU1410	2021-07-28	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00

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Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
QU1410	2021-07-28	Hydrox	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
QU1410	2021-07-28	K-D	mg/L	0.25	0.25	7.61	7.60	0.1	1.00
QU1410	2021-07-28	Mg-D	mg/L	0.25	0.25	165	162	1.8	1.02
QU1410	2021-07-28	Mn-D	mg/L	0.0050	0.0050	1.45	1.42	2.1	1.02
QU1410	2021-07-28	Mo-D	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00
QU1410	2021-07-28	Na-D	mg/L	0.25	0.25	68.4	67.8	0.9	1.01
QU1410	2021-07-28	N-D	mg/L	0.020	0.020	0.248	0.255	2.8	0.97
QU1410	2021-07-28	Ni-D	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00
QU1410	2021-07-28	Pb-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
QU1410	2021-07-28	P-D	mg/L	0.0030	0.0030	<0.0030	0.0045	100.0	0.33
QU1410	2021-07-28	S2-T	mg/L	0.0018	0.0018	<0.0018	<0.0018	0.0	1.00
QU1410	2021-07-28	Sb-D	mg/L	0.0025	0.0025	<0.0025	<0.0025	0.0	1.00
QU1410	2021-07-28	S-D	mg/L	15	15	621	614	1.1	1.01
QU1410	2021-07-28	Se-D	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0	1.00
QU1410	2021-07-28	Si-D	mg/L	0.50	0.50	3.23	3.27	1.2	0.99
QU1410	2021-07-28	SO4-D	mg/L	10	10	1800	1900	5.4	0.95
QU1410	2021-07-28	Sr-D	mg/L	0.0050	0.0050	4.29	4.35	1.4	0.99
QU1410	2021-07-28	Ti-D	mg/L	0.025	0.025	<0.025	<0.025	0.0	1.00
QU1410	2021-07-28	Tl-D	mg/L	0.000050	0.000050	<0.000050	<0.000050	0.0	1.00
QU1410	2021-07-28	Turb	NTU	0.10	0.10	10	12	18.2	0.83
QU1410	2021-07-28	U-D	mg/L	0.00050	0.00050	0.00091	0.00092	1.1	0.99
QU1410	2021-07-28	V-D	mg/L	0.025	0.025	<0.025	<0.025	0.0	1.00
QU1410	2021-07-28	Zn-D	mg/L	0.025	0.025	<0.025	<0.025	0.0	1.00
QU1410	2021-07-28	Zr-D	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0	1.00
QU1410	2021-09-22	Acidity45	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
QU1410	2021-09-22	Acidity83	mg/L	1.0	1.0	33.9	36.2	6.6	0.94
QU1410	2021-09-22	Ag-D	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00
QU1410	2021-09-22	Al-D	mg/L	0.015	0.015	<0.015	<0.015	0.0	1.00
QU1410	2021-09-22	Alk-PP	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
QU1410	2021-09-22	Alk-T	mg/L	1.0	1.0	320	320	0.0	1.00
QU1410	2021-09-22	As-D	mg/L	0.00050	0.00050	0.102	0.104	1.9	0.98
QU1410	2021-09-22	Ba-D	mg/L	0.0050	0.0050	0.0150	0.0152	1.3	0.99
QU1410	2021-09-22	B-D	mg/L	0.25	0.25	0.87	1.06	19.7	0.82
QU1410	2021-09-22	Be-D	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0	1.00
QU1410	2021-09-22	Bicarb	mg/L	1.0	1.0	380	390	2.6	0.97
QU1410	2021-09-22	Bi-D	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00
QU1410	2021-09-22	Br-D	mg/L	0.050	0.050	0.20	0.20	0.0	1.00
QU1410	2021-09-22	Ca-D	mg/L	0.25	0.25	524	522	0.4	1.00
QU1410	2021-09-22	Carb	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
QU1410	2021-09-22	Cd-D	mg/L	0.000050	0.000050	<0.000050	<0.000050	0.0	1.00
QU1410	2021-09-22	Cl-D	mg/L	1.0	1.0	6.4	6.5	1.6	0.98
QU1410	2021-09-22	Co-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
QU1410	2021-09-22	Cr-D	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00
QU1410	2021-09-22	Cu-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
QU1410	2021-09-22	DOC	mg/L	0.50	0.50	1.2	1.2	0.0	1.00
QU1410	2021-09-22	F-D	mg/L	0.050	0.050	0.17	<0.050	148.7	6.80
QU1410	2021-09-22	Fe-D	mg/L	0.025	0.025	2.04	1.99	2.5	1.03
QU1410	2021-09-22	H2S	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0	1.00
QU1410	2021-09-22	Hard-D	mg/L	0.50	0.50	1960	1930	1.5	1.02
QU1410	2021-09-22	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
QU1410	2021-09-22	Hydrox	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
QU1410	2021-09-22	K-D	mg/L	0.25	0.25	7.14	6.86	4.0	1.04
QU1410	2021-09-22	Mg-D	mg/L	0.25	0.25	158	153	3.2	1.03
QU1410	2021-09-22	Mn-D	mg/L	0.0050	0.0050	1.46	1.43	2.1	1.02
QU1410	2021-09-22	Mo-D	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00
QU1410	2021-09-22	Na-D	mg/L	0.25	0.25	60.2	59.1	1.8	1.02
QU1410	2021-09-22	N-D	mg/L	0.020	0.020	0.299	0.328	9.3	0.91
QU1410	2021-09-22	Ni-D	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00
QU1410	2021-09-22	Pb-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
QU1410	2021-09-22	P-D	mg/L	0.0030	0.0030	<0.0030	<0.0030	0.0	1.00
QU1410	2021-09-22	S2-T	mg/L	0.0018	0.0018	<0.0018	<0.0018	0.0	1.00
QU1410	2021-09-22	Sb-D	mg/L	0.0025	0.0025	<0.0025	<0.0025	0.0	1.00
QU1410	2021-09-22	S-D	mg/L	15	15	599	632	5.4	0.95
QU1410	2021-09-22	Se-D	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0	1.00
QU1410	2021-09-22	Si-D	mg/L	0.50	0.50	3.27	3.40	3.9	0.96
QU1410	2021-09-22	SO4-D	mg/L	10	10	1800	1800	0.0	1.00
QU1410	2021-09-22	Sr-D	mg/L	0.0050	0.0050	4.61	4.67	1.3	0.99

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Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
QU1410	2021-09-22	Ti-D	mg/L	0.025	0.025	<0.025	<0.025	0.0	1.00
QU1410	2021-09-22	Ti-D	mg/L	0.000050	0.000050	<0.000050	<0.000050	0.0	1.00
QU1410	2021-09-22	Turb	NTU	0.10	0.10	10	7.4	29.9	1.35
QU1410	2021-09-22	U-D	mg/L	0.00050	0.00050	0.00086	0.00078	9.8	1.10
QU1410	2021-09-22	V-D	mg/L	0.025	0.025	<0.025	<0.025	0.0	1.00
QU1410	2021-09-22	Zn-D	mg/L	0.025	0.025	<0.025	<0.025	0.0	1.00
QU1410	2021-09-22	Zr-D	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0	1.00
QU1410	2022-02-28	Acidity45	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
QU1410	2022-02-28	Acidity83	mg/L	1.0	1.0	29.4	18.1	47.6	1.62
QU1410	2022-02-28	Ag-D	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00
QU1410	2022-02-28	Al-D	mg/L	0.015	0.015	<0.015	<0.015	0.0	1.00
QU1410	2022-02-28	Alk-PP	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
QU1410	2022-02-28	Alk-T	mg/L	1.0	1.0	310	310	0.0	1.00
QU1410	2022-02-28	As-D	mg/L	0.00050	0.00050	0.111	0.116	4.4	0.96
QU1410	2022-02-28	Ba-D	mg/L	0.0050	0.0050	0.0148	0.0153	3.3	0.97
QU1410	2022-02-28	B-D	mg/L	0.25	0.25	1.04	1.03	1.0	1.01
QU1410	2022-02-28	Be-D	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0	1.00
QU1410	2022-02-28	Bicar-b	mg/L	1.0	1.0	380	380	0.0	1.00
QU1410	2022-02-28	Bi-D	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00
QU1410	2022-02-28	Br-D	mg/L	0.20	0.20	<0.20	<0.20	0.0	1.00
QU1410	2022-02-28	Ca-D	mg/L	0.25	0.25	515	540	4.7	0.95
QU1410	2022-02-28	Carb	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
QU1410	2022-02-28	Cd-D	mg/L	0.000050	0.000050	<0.000050	<0.000050	0.0	1.00
QU1410	2022-02-28	Cl-D	mg/L	1.0	1.0	6.9	6.6	4.4	1.05
QU1410	2022-02-28	Co-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
QU1410	2022-02-28	Cr-D	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00
QU1410	2022-02-28	Cu-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
QU1410	2022-02-28	DOC	mg/L	0.50	0.50	1.1	1.1	0.0	1.00
QU1410	2022-02-28	F-D	mg/L	0.050	0.050	0.18	0.18	0.0	1.00
QU1410	2022-02-28	Fe-D	mg/L	0.025	0.025	1.97	2.04	3.5	0.97
QU1410	2022-02-28	H2S	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0	1.00
QU1410	2022-02-28	Hard-D	mg/L	0.50	0.50	1950	2040	4.5	0.96
QU1410	2022-02-28	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
QU1410	2022-02-28	Hydrox	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
QU1410	2022-02-28	K-D	mg/L	0.25	0.25	7.49	7.68	2.5	0.98
QU1410	2022-02-28	Mg-D	mg/L	0.25	0.25	162	168	3.6	0.96
QU1410	2022-02-28	Mn-D	mg/L	0.0050	0.0050	1.39	1.45	4.2	0.96
QU1410	2022-02-28	Mo-D	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00
QU1410	2022-02-28	Na-D	mg/L	0.25	0.25	63.0	65.0	3.1	0.97
QU1410	2022-02-28	N-D	mg/L	0.020	0.020	0.224	0.215	4.1	1.04
QU1410	2022-02-28	Ni-D	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00
QU1410	2022-02-28	Pb-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
QU1410	2022-02-28	P-D	mg/L	0.0030	0.0030	0.0059	0.0045	26.9	1.31
QU1410	2022-02-28	S2-T	mg/L	0.0018	0.0018	<0.0018	<0.0018	0.0	1.00
QU1410	2022-02-28	Sb-D	mg/L	0.0025	0.0025	<0.0025	<0.0025	0.0	1.00
QU1410	2022-02-28	S-D	mg/L	15	15	636	660	3.7	0.96
QU1410	2022-02-28	Se-D	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0	1.00
QU1410	2022-02-28	Si-D	mg/L	0.50	0.50	3.41	3.64	6.5	0.94
QU1410	2022-02-28	SO4-D	mg/L	10	10	1800	1800	0.0	1.00
QU1410	2022-02-28	Sr-D	mg/L	0.0050	0.0050	4.69	4.90	4.4	0.96
QU1410	2022-02-28	Ti-D	mg/L	0.025	0.025	<0.025	<0.025	0.0	1.00
QU1410	2022-02-28	Ti-D	mg/L	0.000050	0.000050	<0.000050	<0.000050	0.0	1.00
QU1410	2022-02-28	Turb	NTU	0.10	0.10	27	27	0.0	1.00
QU1410	2022-02-28	U-D	mg/L	0.00050	0.00050	0.00080	0.00081	1.2	0.99
QU1410	2022-02-28	V-D	mg/L	0.025	0.025	<0.025	<0.025	0.0	1.00
QU1410	2022-02-28	Zn-D	mg/L	0.025	0.025	<0.025	<0.025	0.0	1.00
QU1410	2022-02-28	Zr-D	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0	1.00
SPCEFF	2021-08-04	H2S	mg/L	0.0020	0.0020	0.012	0.012	0.0	1.00
SPCEFF	2021-08-04	S2-T	mg/L	0.0018	0.0018	0.012	0.012	0.0	1.00
SPCEFF	2021-08-04	SO4-D	mg/L	10	10	530	530	0.0	1.00
SPCEFF	2022-03-28	H2S	mg/L	0.0020	0.0020	0.0038	<0.0020	116.7	3.80
SPCEFF	2022-03-28	S2-T	mg/L	0.0018	0.0018	0.0035	<0.0018	118.2	3.89
SPCEFF	2022-03-28	SO4-D	mg/L	10	10	380	380	0.0	1.00
SPD	2021-04-12	SO4-D	mg/L	10	10	330	310	6.2	1.06
SPD	2021-04-12	TSS	mg/L	1.0	1.0	3.2	<1.0	145.9	6.40
SPD	2021-06-21	SO4-D	mg/L	10	10	430	410	4.8	1.05
SPD	2021-06-21	TSS	mg/L	1.0	1.0	<1.0	1.2	82.4	0.42

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Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
SPD	2022-01-24	SO4-D	mg/L	1.0	1.0	100	58	53.2	1.72
SPD	2022-01-24	TSS	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
SPD	2022-02-14	SO4-D	mg/L	10	10	83	180	73.8	0.46
SPD	2022-02-14	TSS	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
WA	2021-07-08	Acidity45	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
WA	2021-07-08	Acidity83	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
WA	2021-07-08	Ag-D	mg/L	0.000020	0.000020	<0.000020	<0.000020	0.0	1.00
WA	2021-07-08	Ag-T	mg/L	0.000020	0.000020	<0.000020	<0.000020	0.0	1.00
WA	2021-07-08	Al-D	mg/L	0.0030	0.0030	0.0172	0.0228	28.0	0.75
WA	2021-07-08	Alk-PP	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
WA	2021-07-08	Alk-T	mg/L	1.0	1.0	23	23	0.0	1.00
WA	2021-07-08	Al-T	mg/L	0.0030	0.0030	0.0215	0.0220	2.3	0.98
WA	2021-07-08	As-D	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00
WA	2021-07-08	As-T	mg/L	0.00010	0.00010	0.00013	0.00011	16.7	1.18
WA	2021-07-08	Ba-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
WA	2021-07-08	Ba-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
WA	2021-07-08	B-D	mg/L	0.050	0.050	<0.050	<0.050	0.0	1.00
WA	2021-07-08	Be-D	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00
WA	2021-07-08	Be-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00
WA	2021-07-08	Bicarb	mg/L	1.0	1.0	28	28	0.0	1.00
WA	2021-07-08	Bi-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
WA	2021-07-08	Bi-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
WA	2021-07-08	B-T	mg/L	0.050	0.050	<0.050	<0.050	0.0	1.00
WA	2021-07-08	Ca-D	mg/L	0.050	0.050	7.63	8.17	6.8	0.93
WA	2021-07-08	Carb	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
WA	2021-07-08	Ca-T	mg/L	0.050	0.050	7.37	7.48	1.5	0.99
WA	2021-07-08	Cd-D	mg/L	0.000010	0.000010	0.000010	<0.000010	66.7	2.00
WA	2021-07-08	Cd-T	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0	1.00
WA	2021-07-08	Cl-D	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
WA	2021-07-08	Co-D	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00
WA	2021-07-08	Co-T	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00
WA	2021-07-08	Cr-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
WA	2021-07-08	Cr-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
WA	2021-07-08	Cu-D	mg/L	0.00020	0.00020	0.00053	0.00067	23.3	0.79
WA	2021-07-08	Cu-T	mg/L	0.00050	0.00050	0.00063	0.00055	13.6	1.15
WA	2021-07-08	DOC	mg/L	0.50	0.50	0.65	0.95	37.5	0.68
WA	2021-07-08	Fe-D	mg/L	0.0050	0.0050	0.0212	0.0189	11.5	1.12
WA	2021-07-08	Fe-T	mg/L	0.010	0.010	0.024	0.024	0.0	1.00
WA	2021-07-08	Hard-D	mg/L	0.50	0.50	22.4	23.8	6.1	0.94
WA	2021-07-08	Hard-T	mg/L	0.50	0.50	21.8	22.1	1.4	0.99
WA	2021-07-08	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
WA	2021-07-08	Hg-T	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
WA	2021-07-08	Hydrox	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
WA	2021-07-08	K-D	mg/L	0.050	0.050	0.062	0.074	17.6	0.84
WA	2021-07-08	K-T	mg/L	0.050	0.050	0.056	0.055	1.8	1.02
WA	2021-07-08	Li-T	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0	1.00
WA	2021-07-08	Mg-D	mg/L	0.050	0.050	0.823	0.828	0.6	0.99
WA	2021-07-08	Mg-T	mg/L	0.050	0.050	0.823	0.816	0.9	1.01
WA	2021-07-08	Mn-D	mg/L	0.0010	0.0010	0.0011	0.0013	16.7	0.85
WA	2021-07-08	Mn-T	mg/L	0.0010	0.0010	0.0026	0.0021	21.3	1.24
WA	2021-07-08	Mo-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
WA	2021-07-08	Mo-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
WA	2021-07-08	Na-D	mg/L	0.050	0.050	0.679	0.671	1.2	1.01
WA	2021-07-08	Na-T	mg/L	0.050	0.050	0.684	0.686	0.3	1.00
WA	2021-07-08	Ni-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
WA	2021-07-08	Ni-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
WA	2021-07-08	N-NH3	mg/L	0.015	0.015	<0.015	<0.015	0.0	1.00
WA	2021-07-08	N-NO2	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00
WA	2021-07-08	N-NO23	mg/L	0.020	0.020	<0.020	<0.020	0.0	1.00
WA	2021-07-08	N-NO3	mg/L	0.020	0.020	<0.020	<0.020	0.0	1.00
WA	2021-07-08	Pb-D	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00
WA	2021-07-08	Pb-T	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00
WA	2021-07-08	P-T	mg/L	0.0030	0.0030	<0.0030	<0.0030	0.0	1.00
WA	2021-07-08	Sb-D	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0	1.00
WA	2021-07-08	Sb-T	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0	1.00
WA	2021-07-08	S-D	mg/L	3.0	3.0	<3.0	<3.0	0.0	1.00
WA	2021-07-08	Se-D	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
WA	2021-07-08	Se-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00
WA	2021-07-08	Si-D	mg/L	0.10	0.10	1.71	1.71	0.0	1.00
WA	2021-07-08	Si-T	mg/L	0.10	0.10	1.93	1.93	0.0	1.00
WA	2021-07-08	Sn-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00
WA	2021-07-08	SO4-D	mg/L	1.0	1.0	2.8	2.4	15.4	1.17
WA	2021-07-08	Sr-D	mg/L	0.0010	0.0010	0.0118	0.0118	0.0	1.00
WA	2021-07-08	Sr-T	mg/L	0.0010	0.0010	0.0121	0.0117	3.4	1.03
WA	2021-07-08	S-T	mg/L	3.0	3.0	<3.0	<3.0	0.0	1.00
WA	2021-07-08	Ti-D	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00
WA	2021-07-08	Ti-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00
WA	2021-07-08	Tl-D	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0	1.00
WA	2021-07-08	Tl-T	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0	1.00
WA	2021-07-08	TSS	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
WA	2021-07-08	U-D	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00
WA	2021-07-08	U-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00
WA	2021-07-08	V-D	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00
WA	2021-07-08	V-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00
WA	2021-07-08	Zn-D	mg/L	0.0050	0.0050	0.0097	<0.0050	118.0	3.88
WA	2021-07-08	Zn-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00
WA	2021-07-08	Zr-D	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00
WA	2021-07-08	Zr-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00
WA	2021-10-12	Acidity45	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
WA	2021-10-12	Acidity83	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
WA	2021-10-12	Ag-D	mg/L	0.000020	0.000020	<0.000020	<0.000020	0.0	1.00
WA	2021-10-12	Ag-T	mg/L	0.000020	0.000020	<0.000020	<0.000020	0.0	1.00
WA	2021-10-12	Al-D	mg/L	0.0030	0.0030	0.0122	0.0134	9.4	0.91
WA	2021-10-12	Alk-PP	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
WA	2021-10-12	Alk-T	mg/L	1.0	1.0	24	23	4.3	1.04
WA	2021-10-12	Al-T	mg/L	0.0030	0.0030	0.0168	0.0240	35.3	0.70
WA	2021-10-12	As-D	mg/L	0.00010	0.00010	0.00012	0.00012	0.0	1.00
WA	2021-10-12	As-T	mg/L	0.00010	0.00010	0.00011	0.00013	16.7	0.85
WA	2021-10-12	Ba-D	mg/L	0.0010	0.0010	0.0011	0.0010	9.5	1.10
WA	2021-10-12	Ba-T	mg/L	0.0010	0.0010	0.0010	0.0010	0.0	1.00
WA	2021-10-12	B-D	mg/L	0.050	0.050	<0.050	<0.050	0.0	1.00
WA	2021-10-12	Be-D	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00
WA	2021-10-12	Be-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00
WA	2021-10-12	Bicarb	mg/L	1.0	1.0	30	28	6.9	1.07
WA	2021-10-12	Bi-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
WA	2021-10-12	Bi-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
WA	2021-10-12	B-T	mg/L	0.050	0.050	<0.050	<0.050	0.0	1.00
WA	2021-10-12	Ca-D	mg/L	0.050	0.050	6.87	6.93	0.9	0.99
WA	2021-10-12	Carb	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
WA	2021-10-12	Ca-T	mg/L	0.050	0.050	6.92	6.72	2.9	1.03
WA	2021-10-12	Cd-D	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0	1.00
WA	2021-10-12	Cd-T	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0	1.00
WA	2021-10-12	Cl-D	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
WA	2021-10-12	Co-D	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00
WA	2021-10-12	Co-T	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00
WA	2021-10-12	Cr-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
WA	2021-10-12	Cr-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
WA	2021-10-12	Cu-D	mg/L	0.00020	0.00020	0.00048	0.00054	11.8	0.89
WA	2021-10-12	Cu-T	mg/L	0.00050	0.00050	0.00054	0.00057	5.4	0.95
WA	2021-10-12	DOC	mg/L	0.50	0.50	0.76	1.1	36.6	0.69
WA	2021-10-12	Fe-D	mg/L	0.0050	0.0050	0.0105	0.0117	10.8	0.90
WA	2021-10-12	Fe-T	mg/L	0.010	0.010	0.019	0.027	34.8	0.70
WA	2021-10-12	Hard-D	mg/L	0.50	0.50	20.5	20.7	1.0	0.99
WA	2021-10-12	Hard-T	mg/L	0.50	0.50	20.6	20.2	2.0	1.02
WA	2021-10-12	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
WA	2021-10-12	Hg-T	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
WA	2021-10-12	Hydrox	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
WA	2021-10-12	K-D	mg/L	0.050	0.050	0.064	0.075	15.8	0.85
WA	2021-10-12	K-T	mg/L	0.050	0.050	0.058	0.061	5.0	0.95
WA	2021-10-12	Li-T	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0	1.00
WA	2021-10-12	Mg-D	mg/L	0.050	0.050	0.803	0.823	2.5	0.98
WA	2021-10-12	Mg-T	mg/L	0.050	0.050	0.813	0.822	1.1	0.99
WA	2021-10-12	Mn-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
WA	2021-10-12	Mn-T	mg/L	0.0010	0.0010	0.0016	0.0020	22.2	0.80

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Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
WA	2021-10-12	Mo-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
WA	2021-10-12	Mo-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
WA	2021-10-12	Na-D	mg/L	0.050	0.050	0.770	0.770	0.0	1.00
WA	2021-10-12	Na-T	mg/L	0.050	0.050	0.754	0.731	3.1	1.03
WA	2021-10-12	Ni-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
WA	2021-10-12	Ni-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
WA	2021-10-12	Pb-D	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00
WA	2021-10-12	Pb-T	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00
WA	2021-10-12	Sb-D	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0	1.00
WA	2021-10-12	Sb-T	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0	1.00
WA	2021-10-12	S-D	mg/L	3.0	3.0	<3.0	<3.0	0.0	1.00
WA	2021-10-12	Se-D	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00
WA	2021-10-12	Se-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00
WA	2021-10-12	Si-D	mg/L	0.10	0.10	2.08	2.08	0.0	1.00
WA	2021-10-12	Si-T	mg/L	0.10	0.10	1.91	1.93	1.0	0.99
WA	2021-10-12	Sn-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00
WA	2021-10-12	SO4-D	mg/L	1.0	1.0	1.6	1.7	6.1	0.94
WA	2021-10-12	Sr-D	mg/L	0.0010	0.0010	0.0115	0.0118	2.6	0.97
WA	2021-10-12	Sr-T	mg/L	0.0010	0.0010	0.0117	0.0117	0.0	1.00
WA	2021-10-12	S-T	mg/L	3.0	3.0	<3.0	<3.0	0.0	1.00
WA	2021-10-12	Ti-D	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00
WA	2021-10-12	Ti-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00
WA	2021-10-12	Tl-D	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0	1.00
WA	2021-10-12	Tl-T	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0	1.00
WA	2021-10-12	TSS	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
WA	2021-10-12	U-D	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00
WA	2021-10-12	U-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00
WA	2021-10-12	V-D	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00
WA	2021-10-12	V-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00
WA	2021-10-12	Zn-D	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00
WA	2021-10-12	Zn-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00
WA	2021-10-12	Zr-D	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00
WA	2021-10-12	Zr-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00
WB	2021-07-13	Acidity45	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
WB	2021-07-13	Acidity83	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
WB	2021-07-13	Ag-D	mg/L	0.000020	0.000020	<0.000020	<0.000020	0.0	1.00
WB	2021-07-13	Ag-T	mg/L	0.000020	0.000020	<0.000020	<0.000020	0.0	1.00
WB	2021-07-13	Al-D	mg/L	0.0030	0.0030	0.0144	0.0142	1.4	1.01
WB	2021-07-13	Alk-PP	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
WB	2021-07-13	Alk-T	mg/L	1.0	1.0	45	47	4.3	0.96
WB	2021-07-13	Al-T	mg/L	0.0030	0.0030	0.0175	0.0178	1.7	0.98
WB	2021-07-13	As-D	mg/L	0.00010	0.00010	0.00018	0.00019	5.4	0.95
WB	2021-07-13	As-T	mg/L	0.00010	0.00010	0.00018	0.00019	5.4	0.95
WB	2021-07-13	Ba-D	mg/L	0.0010	0.0010	0.0018	0.0019	5.4	0.95
WB	2021-07-13	Ba-T	mg/L	0.0010	0.0010	0.0021	0.0020	4.9	1.05
WB	2021-07-13	B-D	mg/L	0.050	0.050	0.071	0.070	1.4	1.01
WB	2021-07-13	Be-D	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00
WB	2021-07-13	Be-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00
WB	2021-07-13	Bicarb	mg/L	1.0	1.0	55	58	5.3	0.95
WB	2021-07-13	Bi-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
WB	2021-07-13	Bi-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
WB	2021-07-13	B-T	mg/L	0.050	0.050	0.075	0.070	6.9	1.07
WB	2021-07-13	Ca-D	mg/L	0.050	0.050	14.5	14.6	0.7	0.99
WB	2021-07-13	Carb	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
WB	2021-07-13	Ca-T	mg/L	0.050	0.050	15.0	14.6	2.7	1.03
WB	2021-07-13	Cd-D	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0	1.00
WB	2021-07-13	Cd-T	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0	1.00
WB	2021-07-13	Cl-D	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
WB	2021-07-13	Co-D	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00
WB	2021-07-13	Co-T	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00
WB	2021-07-13	Cr-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
WB	2021-07-13	Cr-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
WB	2021-07-13	Cu-D	mg/L	0.00020	0.00020	0.00053	0.00045	16.3	1.18
WB	2021-07-13	Cu-T	mg/L	0.00050	0.00050	0.00054	0.00050	7.7	1.08
WB	2021-07-13	DOC	mg/L	0.50	0.50	1.7	2.4	34.1	0.71
WB	2021-07-13	Fe-D	mg/L	0.0050	0.0050	0.0238	0.0241	1.3	0.99
WB	2021-07-13	Fe-T	mg/L	0.010	0.010	0.044	0.043	2.3	1.02

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Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
WB	2021-07-13	Hard-D	mg/L	0.50	0.50	44.2	44.6	0.9	0.99
WB	2021-07-13	Hard-T	mg/L	0.50	0.50	45.9	44.5	3.1	1.03
WB	2021-07-13	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
WB	2021-07-13	Hg-T	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
WB	2021-07-13	Hydrox	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
WB	2021-07-13	K-D	mg/L	0.050	0.050	0.322	0.318	1.2	1.01
WB	2021-07-13	K-T	mg/L	0.050	0.050	0.336	0.324	3.6	1.04
WB	2021-07-13	Li-T	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0	1.00
WB	2021-07-13	Mg-D	mg/L	0.050	0.050	1.95	1.97	1.0	0.99
WB	2021-07-13	Mg-T	mg/L	0.050	0.050	2.06	1.95	5.5	1.06
WB	2021-07-13	Mn-D	mg/L	0.0010	0.0010	0.0054	0.0052	3.8	1.04
WB	2021-07-13	Mn-T	mg/L	0.0010	0.0010	0.0171	0.0170	0.6	1.01
WB	2021-07-13	Mo-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
WB	2021-07-13	Mo-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
WB	2021-07-13	Na-D	mg/L	0.050	0.050	22.6	22.8	0.9	0.99
WB	2021-07-13	Na-T	mg/L	0.050	0.050	23.9	23.1	3.4	1.03
WB	2021-07-13	Ni-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
WB	2021-07-13	Ni-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
WB	2021-07-13	N-NH3	mg/L	0.015	0.015	<0.015	<0.015	0.0	1.00
WB	2021-07-13	N-NO2	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00
WB	2021-07-13	N-NO23	mg/L	0.020	0.020	<0.020	<0.020	0.0	1.00
WB	2021-07-13	N-NO3	mg/L	0.020	0.020	<0.020	<0.020	0.0	1.00
WB	2021-07-13	Pb-D	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00
WB	2021-07-13	Pb-T	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00
WB	2021-07-13	P-D	mg/L	0.0030	0.0030	<0.0030	<0.0030	0.0	1.00
WB	2021-07-13	P-T	mg/L	0.0030	0.0030	<0.0030	<0.0030	0.0	1.00
WB	2021-07-13	Sb-D	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0	1.00
WB	2021-07-13	Sb-T	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0	1.00
WB	2021-07-13	S-D	mg/L	3.0	3.0	16.1	16.4	1.8	0.98
WB	2021-07-13	Se-D	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00
WB	2021-07-13	Se-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00
WB	2021-07-13	Si-D	mg/L	0.10	0.10	1.92	1.95	1.6	0.98
WB	2021-07-13	Si-T	mg/L	0.10	0.10	2.04	1.97	3.5	1.04
WB	2021-07-13	Sn-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00
WB	2021-07-13	SO4-D	mg/L	1.0	1.0	60	60	0.0	1.00
WB	2021-07-13	Sr-D	mg/L	0.0010	0.0010	0.0993	0.0992	0.1	1.00
WB	2021-07-13	Sr-T	mg/L	0.0010	0.0010	0.106	0.0999	5.9	1.06
WB	2021-07-13	S-T	mg/L	3.0	3.0	17.7	17.1	3.4	1.04
WB	2021-07-13	Ti-D	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00
WB	2021-07-13	Ti-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00
WB	2021-07-13	Tl-D	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0	1.00
WB	2021-07-13	Tl-T	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0	1.00
WB	2021-07-13	TSS	mg/L	1.0	1.0	1.2	<1.0	82.4	2.40
WB	2021-07-13	U-D	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00
WB	2021-07-13	U-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00
WB	2021-07-13	V-D	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00
WB	2021-07-13	V-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00
WB	2021-07-13	Zn-D	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00
WB	2021-07-13	Zn-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00
WB	2021-07-13	Zr-D	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00
WB	2021-07-13	Zr-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00
WB	2021-11-02	Acidity45	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
WB	2021-11-02	Acidity83	mg/L	1.0	1.0	1.0	1.2	18.2	0.83
WB	2021-11-02	Ag-D	mg/L	0.000020	0.000020	<0.000020	<0.000020	0.0	1.00
WB	2021-11-02	Ag-T	mg/L	0.000020	0.000020	<0.000020	<0.000020	0.0	1.00
WB	2021-11-02	Al-D	mg/L	0.0030	0.0030	0.0222	0.0223	0.4	1.00
WB	2021-11-02	Alk-PP	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
WB	2021-11-02	Alk-T	mg/L	1.0	1.0	35	34	2.9	1.03
WB	2021-11-02	Al-T	mg/L	0.0030	0.0030	0.0324	0.0321	0.9	1.01
WB	2021-11-02	As-D	mg/L	0.00010	0.00010	0.00017	0.00019	11.1	0.89
WB	2021-11-02	As-T	mg/L	0.00010	0.00010	0.00027	0.00026	3.8	1.04
WB	2021-11-02	Ba-D	mg/L	0.0010	0.0010	0.0028	0.0028	0.0	1.00
WB	2021-11-02	Ba-T	mg/L	0.0010	0.0010	0.0030	0.0030	0.0	1.00
WB	2021-11-02	B-D	mg/L	0.050	0.050	<0.050	<0.050	0.0	1.00
WB	2021-11-02	Be-D	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00
WB	2021-11-02	Be-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00
WB	2021-11-02	Bicarb	mg/L	1.0	1.0	42	42	0.0	1.00

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
WB	2021-11-02	Bi-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
WB	2021-11-02	Bi-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
WB	2021-11-02	B-T	mg/L	0.050	0.050	<0.050	<0.050	0.0	1.00
WB	2021-11-02	Ca-D	mg/L	0.050	0.050	13.1	13.0	0.8	1.01
WB	2021-11-02	Carb	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
WB	2021-11-02	Ca-T	mg/L	0.050	0.050	13.2	13.3	0.8	0.99
WB	2021-11-02	Cd-D	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0	1.00
WB	2021-11-02	Cd-T	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0	1.00
WB	2021-11-02	Cl-D	mg/L	1.0	1.0	1.2	1.3	8.0	0.92
WB	2021-11-02	Co-D	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00
WB	2021-11-02	Co-T	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00
WB	2021-11-02	Cr-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
WB	2021-11-02	Cr-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
WB	2021-11-02	Cu-D	mg/L	0.00020	0.00020	0.00049	0.00050	2.0	0.98
WB	2021-11-02	Cu-T	mg/L	0.00050	0.00050	0.00061	0.00051	17.9	1.20
WB	2021-11-02	DOC	mg/L	0.50	0.50	3.3	3.3	0.0	1.00
WB	2021-11-02	Fe-D	mg/L	0.0050	0.0050	0.0417	0.0432	3.5	0.97
WB	2021-11-02	Fe-T	mg/L	0.010	0.010	0.062	0.061	1.6	1.02
WB	2021-11-02	Hard-D	mg/L	0.50	0.50	40.3	40.4	0.2	1.00
WB	2021-11-02	Hard-T	mg/L	0.50	0.50	40.6	40.9	0.7	0.99
WB	2021-11-02	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
WB	2021-11-02	Hg-T	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
WB	2021-11-02	Hydrox	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
WB	2021-11-02	K-D	mg/L	0.050	0.050	0.288	0.291	1.0	0.99
WB	2021-11-02	K-T	mg/L	0.050	0.050	0.280	0.281	0.4	1.00
WB	2021-11-02	Li-T	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0	1.00
WB	2021-11-02	Mg-D	mg/L	0.050	0.050	1.83	1.91	4.3	0.96
WB	2021-11-02	Mg-T	mg/L	0.050	0.050	1.87	1.88	0.5	0.99
WB	2021-11-02	Mn-D	mg/L	0.0010	0.0010	0.0035	0.0036	2.8	0.97
WB	2021-11-02	Mn-T	mg/L	0.0010	0.0010	0.0074	0.0077	4.0	0.96
WB	2021-11-02	Mo-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
WB	2021-11-02	Mo-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
WB	2021-11-02	Na-D	mg/L	0.050	0.050	13.1	13.3	1.5	0.98
WB	2021-11-02	Na-T	mg/L	0.050	0.050	12.5	12.5	0.0	1.00
WB	2021-11-02	Ni-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
WB	2021-11-02	Ni-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
WB	2021-11-02	Pb-D	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00
WB	2021-11-02	Pb-T	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00
WB	2021-11-02	Sb-D	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0	1.00
WB	2021-11-02	Sb-T	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0	1.00
WB	2021-11-02	S-D	mg/L	3.0	3.0	12.5	12.3	1.6	1.02
WB	2021-11-02	Se-D	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00
WB	2021-11-02	Se-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00
WB	2021-11-02	Si-D	mg/L	0.10	0.10	2.59	2.63	1.5	0.98
WB	2021-11-02	Si-T	mg/L	0.10	0.10	2.86	2.83	1.1	1.01
WB	2021-11-02	Sn-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00
WB	2021-11-02	SO4-D	mg/L	1.0	1.0	39	44	12.0	0.89
WB	2021-11-02	Sr-D	mg/L	0.0010	0.0010	0.0787	0.0785	0.3	1.00
WB	2021-11-02	Sr-T	mg/L	0.0010	0.0010	0.0819	0.0818	0.1	1.00
WB	2021-11-02	S-T	mg/L	3.0	3.0	11.9	12.3	3.3	0.97
WB	2021-11-02	Ti-D	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00
WB	2021-11-02	Ti-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00
WB	2021-11-02	Ti-D	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0	1.00
WB	2021-11-02	Ti-T	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0	1.00
WB	2021-11-02	TSS	mg/L	1.0	1.0	<1.0	2.0	120.0	0.25
WB	2021-11-02	U-D	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00
WB	2021-11-02	U-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00
WB	2021-11-02	V-D	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00
WB	2021-11-02	V-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00
WB	2021-11-02	Zn-D	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00
WB	2021-11-02	Zn-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00
WB	2021-11-02	Zr-D	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00
WB	2021-11-02	Zr-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00
WC	2021-04-06	Acidity45	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
WC	2021-04-06	Acidity83	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
WC	2021-04-06	Ag-D	mg/L	0.000020	0.000020	<0.000020	<0.000020	0.0	1.00
WC	2021-04-06	Ag-T	mg/L	0.000020	0.000020	<0.000020	<0.000020	0.0	1.00

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Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
WC	2021-04-06	Al-D	mg/L	0.0030	0.0030	<0.0030	0.0036	82.4	0.42
WC	2021-04-06	Alk-PP	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
WC	2021-04-06	Alk-T	mg/L	1.0	1.0	390	400	2.5	0.97
WC	2021-04-06	Al-T	mg/L	0.0030	0.0030	0.0042	0.0034	21.1	1.24
WC	2021-04-06	As-D	mg/L	0.00010	0.00010	0.00031	0.00031	0.0	1.00
WC	2021-04-06	As-T	mg/L	0.00010	0.00010	0.00037	0.00038	2.7	0.97
WC	2021-04-06	Ba-D	mg/L	0.0010	0.0010	0.0145	0.0146	0.7	0.99
WC	2021-04-06	Ba-T	mg/L	0.0010	0.0010	0.0136	0.0139	2.2	0.98
WC	2021-04-06	B-D	mg/L	0.050	0.050	0.888	0.875	1.5	1.01
WC	2021-04-06	Be-D	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00
WC	2021-04-06	Be-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00
WC	2021-04-06	Bicarb	mg/L	1.0	1.0	470	480	2.1	0.98
WC	2021-04-06	Bi-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
WC	2021-04-06	Bi-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
WC	2021-04-06	B-T	mg/L	0.050	0.050	0.826	0.821	0.6	1.01
WC	2021-04-06	Ca-D	mg/L	0.050	0.050	120	121	0.8	0.99
WC	2021-04-06	Carb	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
WC	2021-04-06	Ca-T	mg/L	0.050	0.050	115	116	0.9	0.99
WC	2021-04-06	Cd-D	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0	1.00
WC	2021-04-06	Cd-T	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0	1.00
WC	2021-04-06	Co-D	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00
WC	2021-04-06	Co-T	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00
WC	2021-04-06	Cr-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
WC	2021-04-06	Cr-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
WC	2021-04-06	Cu-D	mg/L	0.00020	0.00020	0.00031	0.00029	6.7	1.07
WC	2021-04-06	Cu-T	mg/L	0.00050	0.00050	0.00052	<0.00050	70.1	2.08
WC	2021-04-06	Fe-D	mg/L	0.0050	0.0050	0.0136	0.0153	11.8	0.89
WC	2021-04-06	Fe-T	mg/L	0.010	0.010	0.060	0.061	1.7	0.98
WC	2021-04-06	Hard-D	mg/L	0.50	0.50	363	366	0.8	0.99
WC	2021-04-06	Hard-T	mg/L	0.50	0.50	345	346	0.3	1.00
WC	2021-04-06	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
WC	2021-04-06	Hg-T	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
WC	2021-04-06	Hydrox	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
WC	2021-04-06	K-D	mg/L	0.050	0.050	3.25	3.31	1.8	0.98
WC	2021-04-06	K-T	mg/L	0.050	0.050	3.07	3.10	1.0	0.99
WC	2021-04-06	Li-T	mg/L	0.0020	0.0020	0.0108	0.0103	4.7	1.05
WC	2021-04-06	Mg-D	mg/L	0.050	0.050	15.5	15.7	1.3	0.99
WC	2021-04-06	Mg-T	mg/L	0.050	0.050	14.1	13.9	1.4	1.01
WC	2021-04-06	Mn-D	mg/L	0.0010	0.0010	0.0095	0.0097	2.1	0.98
WC	2021-04-06	Mn-T	mg/L	0.0010	0.0010	0.0102	0.0102	0.0	1.00
WC	2021-04-06	Mo-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
WC	2021-04-06	Mo-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
WC	2021-04-06	Na-D	mg/L	0.050	0.050	287	291	1.4	0.99
WC	2021-04-06	Na-T	mg/L	0.050	0.050	268	264	1.5	1.02
WC	2021-04-06	Ni-D	mg/L	0.0010	0.0010	0.0031	0.0031	0.0	1.00
WC	2021-04-06	Ni-T	mg/L	0.0010	0.0010	0.0033	0.0032	3.1	1.03
WC	2021-04-06	Pb-D	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00
WC	2021-04-06	Pb-T	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00
WC	2021-04-06	Sb-D	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0	1.00
WC	2021-04-06	Sb-T	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0	1.00
WC	2021-04-06	S-D	mg/L	3.0	3.0	202	209	3.4	0.97
WC	2021-04-06	Se-D	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00
WC	2021-04-06	Se-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00
WC	2021-04-06	Si-D	mg/L	0.10	0.10	2.58	2.67	3.4	0.97
WC	2021-04-06	Si-T	mg/L	0.10	0.10	2.60	2.51	3.5	1.04
WC	2021-04-06	Sn-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00
WC	2021-04-06	SO4-D	mg/L	10	10	550	590	7.0	0.93
WC	2021-04-06	Sr-D	mg/L	0.0010	0.0010	1.16	1.16	0.0	1.00
WC	2021-04-06	Sr-T	mg/L	0.0010	0.0010	1.11	1.13	1.8	0.98
WC	2021-04-06	S-T	mg/L	3.0	3.0	184	189	2.7	0.97
WC	2021-04-06	Ti-D	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00
WC	2021-04-06	Ti-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00
WC	2021-04-06	Tl-D	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0	1.00
WC	2021-04-06	Tl-T	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0	1.00
WC	2021-04-06	TSS	mg/L	1.0	1.0	<1.0	1.2	82.4	0.42
WC	2021-04-06	U-D	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00
WC	2021-04-06	U-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00

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Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
WC	2021-04-06	V-D	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00
WC	2021-04-06	V-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00
WC	2021-04-06	Zn-D	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00
WC	2021-04-06	Zn-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00
WC	2021-04-06	Zr-D	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00
WC	2021-04-06	Zr-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00
WC	2021-08-09	Ag-D	mg/L	0.000040	0.000040	<0.000040	<0.000040	0.0	1.00
WC	2021-08-09	Ag-T	mg/L	0.000020	0.000040	<0.000020	<0.000040	66.7	0.50
WC	2021-08-09	Al-D	mg/L	0.0060	0.0060	<0.0060	<0.0060	0.0	1.00
WC	2021-08-09	Al-T	mg/L	0.0030	0.0060	<0.0030	<0.0060	66.7	0.50
WC	2021-08-09	As-D	mg/L	0.00020	0.00020	0.00035	0.00037	5.6	0.95
WC	2021-08-09	As-T	mg/L	0.00010	0.00020	0.00032	0.00029	9.8	1.10
WC	2021-08-09	Ba-D	mg/L	0.0020	0.0020	0.0171	0.0171	0.0	1.00
WC	2021-08-09	Ba-T	mg/L	0.0010	0.0020	0.0171	0.0179	4.6	0.96
WC	2021-08-09	B-D	mg/L	0.10	0.10	1.13	1.13	0.0	1.00
WC	2021-08-09	Be-D	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00
WC	2021-08-09	Be-T	mg/L	0.00010	0.00020	<0.00010	<0.00020	66.7	0.50
WC	2021-08-09	Bi-D	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0	1.00
WC	2021-08-09	Bi-T	mg/L	0.0010	0.0020	<0.0010	<0.0020	66.7	0.50
WC	2021-08-09	B-T	mg/L	0.050	0.10	0.842	1.22	36.7	0.69
WC	2021-08-09	Ca-D	mg/L	0.10	0.10	138	137	0.7	1.01
WC	2021-08-09	Ca-T	mg/L	0.050	0.10	138	147	6.3	0.94
WC	2021-08-09	Cd-D	mg/L	0.000020	0.000020	<0.000020	<0.000020	0.0	1.00
WC	2021-08-09	Cd-T	mg/L	0.000010	0.000020	<0.000010	<0.000020	66.7	0.50
WC	2021-08-09	Co-D	mg/L	0.00040	0.00040	<0.00040	<0.00040	0.0	1.00
WC	2021-08-09	Co-T	mg/L	0.00020	0.00040	<0.00020	<0.00040	66.7	0.50
WC	2021-08-09	Cr-D	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0	1.00
WC	2021-08-09	Cr-T	mg/L	0.0010	0.0020	<0.0010	<0.0020	66.7	0.50
WC	2021-08-09	Cu-D	mg/L	0.00040	0.00040	<0.00040	<0.00040	0.0	1.00
WC	2021-08-09	Cu-T	mg/L	0.00050	0.0010	<0.00050	<0.0010	66.7	0.50
WC	2021-08-09	Fe-D	mg/L	0.010	0.010	0.010	<0.010	66.7	2.00
WC	2021-08-09	Fe-T	mg/L	0.010	0.020	0.087	0.094	7.7	0.93
WC	2021-08-09	Hard-D	mg/L	0.50	0.50	422	419	0.7	1.01
WC	2021-08-09	Hard-T	mg/L	0.50	0.50	421	452	7.1	0.93
WC	2021-08-09	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
WC	2021-08-09	Hg-T	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
WC	2021-08-09	K-D	mg/L	0.10	0.10	4.72	4.60	2.6	1.03
WC	2021-08-09	K-T	mg/L	0.050	0.10	4.59	4.93	7.1	0.93
WC	2021-08-09	Li-T	mg/L	0.0020	0.0040	0.0068	0.0116	52.2	0.59
WC	2021-08-09	Mg-D	mg/L	0.10	0.10	18.8	18.5	1.6	1.02
WC	2021-08-09	Mg-T	mg/L	0.050	0.10	18.5	20.5	10.3	0.90
WC	2021-08-09	Mn-D	mg/L	0.0020	0.0020	0.0174	0.0174	0.0	1.00
WC	2021-08-09	Mn-T	mg/L	0.0010	0.0020	0.0175	0.0189	7.7	0.93
WC	2021-08-09	Mo-D	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0	1.00
WC	2021-08-09	Mo-T	mg/L	0.0010	0.0020	<0.0010	<0.0020	66.7	0.50
WC	2021-08-09	Na-D	mg/L	0.10	0.10	365	366	0.3	1.00
WC	2021-08-09	Na-T	mg/L	0.050	0.10	363	401	9.9	0.91
WC	2021-08-09	Ni-D	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0	1.00
WC	2021-08-09	Ni-T	mg/L	0.0010	0.0020	<0.0010	<0.0020	66.7	0.50
WC	2021-08-09	Pb-D	mg/L	0.00040	0.00040	<0.00040	<0.00040	0.0	1.00
WC	2021-08-09	Pb-T	mg/L	0.00020	0.00040	<0.00020	<0.00040	66.7	0.50
WC	2021-08-09	Sb-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
WC	2021-08-09	Sb-T	mg/L	0.00050	0.0010	<0.00050	<0.0010	66.7	0.50
WC	2021-08-09	S-D	mg/L	6.0	6.0	286	279	2.5	1.03
WC	2021-08-09	Se-D	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00
WC	2021-08-09	Se-T	mg/L	0.00010	0.00020	<0.00010	<0.00020	66.7	0.50
WC	2021-08-09	Si-D	mg/L	0.20	0.20	3.74	3.64	2.7	1.03
WC	2021-08-09	Si-T	mg/L	0.10	0.20	3.28	3.57	8.5	0.92
WC	2021-08-09	Sn-T	mg/L	0.0050	0.010	<0.0050	<0.010	66.7	0.50
WC	2021-08-09	SO4-D	mg/L	10	10	820	810	1.2	1.01
WC	2021-08-09	Sr-D	mg/L	0.0020	0.0020	1.60	1.57	1.9	1.02
WC	2021-08-09	Sr-T	mg/L	0.0010	0.0020	1.57	1.61	2.5	0.98
WC	2021-08-09	S-T	mg/L	3.0	6.0	278	296	6.3	0.94
WC	2021-08-09	Ti-D	mg/L	0.010	0.010	<0.010	<0.010	0.0	1.00
WC	2021-08-09	Ti-T	mg/L	0.0050	0.010	<0.0050	<0.010	66.7	0.50
WC	2021-08-09	Tl-D	mg/L	0.000020	0.000020	<0.000020	<0.000020	0.0	1.00
WC	2021-08-09	Tl-T	mg/L	0.000010	0.000020	<0.000010	<0.000020	66.7	0.50

Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
WC	2021-08-09	TSS	mg/L	1.0	1.0	3.2	3.2	0.0	1.00
WC	2021-08-09	U-D	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00
WC	2021-08-09	U-T	mg/L	0.00010	0.00020	<0.00010	<0.00020	66.7	0.50

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Table 51 Relative Percent Differences 73 Page(s)

Relative Percent Difference (RPD)									
Stn.Code 1	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
WC	2021-08-09	V-D	mg/L	0.010	0.010	<0.010	<0.010	0.0	1.00
WC	2021-08-09	V-T	mg/L	0.0050	0.010	<0.0050	<0.010	66.7	0.50
WC	2021-08-09	Zn-D	mg/L	0.010	0.010	<0.010	<0.010	0.0	1.00
WC	2021-08-09	Zn-T	mg/L	0.0050	0.010	<0.0050	<0.010	66.7	0.50
WC	2021-08-09	Zr-D	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00
WC	2021-08-09	Zr-T	mg/L	0.00010	0.00020	<0.00010	<0.00020	66.7	0.50
WC	2021-11-01	SO4-D	mg/L	10	10	530	590	10.7	0.90
WC	2021-11-01	TSS	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
WD	2021-08-16	SO4-D	mg/L	10	10	620	590	5.0	1.05
WD	2021-08-16	TSS	mg/L	1.0	1.0	<1.0	2.4	131.0	0.21
WD	2021-09-13	SO4-D	mg/L	10	10	700	750	6.9	0.93
WD	2021-09-13	TSS	mg/L	1.0	1.0	2.4	3.6	40.0	0.67
WD	2021-11-23	SO4-D	mg/L	10	10	620	630	1.6	0.98
WD	2021-11-23	TSS	mg/L	1.0	1.0	2.8	4.8	52.6	0.58
WD	2021-12-20	SO4-D	mg/L	10	10	460	580	23.1	0.79
WD	2021-12-20	TSS	mg/L	1.0	1.0	<1.0	2.0	120.0	0.25
WD	2022-01-04	Acidity45	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
WD	2022-01-04	Acidity83	mg/L	1.0	1.0	8.3	3.9	72.1	2.13
WD	2022-01-04	Ag-D	mg/L	0.000020	0.000020	<0.000020	<0.000020	0.0	1.00
WD	2022-01-04	Al-D	mg/L	0.0030	0.0030	<0.0030	<0.0030	0.0	1.00
WD	2022-01-04	Alk-PP	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
WD	2022-01-04	Alk-T	mg/L	1.0	1.0	450	460	2.2	0.98
WD	2022-01-04	As-D	mg/L	0.00010	0.00010	0.00116	0.00122	5.0	0.95
WD	2022-01-04	Ba-D	mg/L	0.0010	0.0010	0.0173	0.0176	1.7	0.98
WD	2022-01-04	B-D	mg/L	0.050	0.050	0.847	0.838	1.1	1.01
WD	2022-01-04	Be-D	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00
WD	2022-01-04	Bicarb	mg/L	1.0	1.0	550	560	1.8	0.98
WD	2022-01-04	Bi-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
WD	2022-01-04	Ca-D	mg/L	0.050	0.050	123	125	1.6	0.98
WD	2022-01-04	Carb	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
WD	2022-01-04	Cd-D	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0	1.00
WD	2022-01-04	Co-D	mg/L	0.00020	0.00020	0.00029	0.00030	3.4	0.97
WD	2022-01-04	Cr-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
WD	2022-01-04	Cu-D	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00
WD	2022-01-04	Fe-D	mg/L	0.0050	0.0050	0.0134	0.0121	10.2	1.11
WD	2022-01-04	Hard-D	mg/L	0.50	0.50	361	367	1.6	0.98
WD	2022-01-04	Hg-D	mg/L	0.0000019	0.0000019	<0.0000019	<0.0000019	0.0	1.00
WD	2022-01-04	Hydrox	mg/L	1.0	1.0	<1.0	<1.0	0.0	1.00
WD	2022-01-04	K-D	mg/L	0.050	0.050	3.66	3.73	1.9	0.98
WD	2022-01-04	Mg-D	mg/L	0.050	0.050	13.1	13.3	1.5	0.98
WD	2022-01-04	Mn-D	mg/L	0.0010	0.0010	0.210	0.211	0.5	1.00
WD	2022-01-04	Mo-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
WD	2022-01-04	Na-D	mg/L	0.050	0.050	279	281	0.7	0.99
WD	2022-01-04	Ni-D	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0	1.00
WD	2022-01-04	Pb-D	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0	1.00
WD	2022-01-04	Sb-D	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0	1.00
WD	2022-01-04	S-D	mg/L	3.0	3.0	179	184	2.8	0.97
WD	2022-01-04	Se-D	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00
WD	2022-01-04	Si-D	mg/L	0.10	0.10	3.37	3.43	1.8	0.98
WD	2022-01-04	SO4-D	mg/L	10	10	550	470	15.7	1.17
WD	2022-01-04	Sr-D	mg/L	0.0010	0.0010	1.18	1.23	4.1	0.96
WD	2022-01-04	Ti-D	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00
WD	2022-01-04	Ti-D	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0	1.00
WD	2022-01-04	TSS	mg/L	1.0	1.0	4.4	3.6	20.0	1.22
WD	2022-01-04	U-D	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00
WD	2022-01-04	V-D	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00
WD	2022-01-04	Zn-D	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0	1.00
WD	2022-01-04	Zr-D	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0	1.00
WD	2022-03-07	SO4-D	mg/L	10	10	550	550	0.0	1.00
WD	2022-03-07	TSS	mg/L	1.0	1.0	3.2	2.8	13.3	1.14
Notes:									
Sample classes included in query: M,P,R,S									
Factor applied to less-than results when calculating statistics: 0.5									

Table 52 Results of Different Lab MDL 2 Page(s)

Results of Different Laboratory Mean Detection Limits (Lab MDL)							
Stn.Code	Date	Parameter	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2
IR6	2021-08-03	Ag-D	mg/L	0.00004	0.00002	<0.000040	<0.000020
IR6	2021-08-03	B-D	mg/L	0.1	0.05	<0.10	0.065
IR6	2021-08-03	Be-D	mg/L	0.0002	0.0001	<0.00020	<0.00010
IR6	2021-08-03	Bi-D	mg/L	0.002	0.001	<0.0020	<0.0010
IR6	2021-08-03	Cd-D	mg/L	0.00002	0.00001	<0.000020	0.00001
IR6	2021-08-03	Co-D	mg/L	0.0004	0.0002	<0.00040	<0.00020
IR6	2021-08-03	Cr-D	mg/L	0.002	0.001	<0.0020	<0.0010
IR6	2021-08-03	Fe-D	mg/L	0.01	0.005	<0.010	<0.0050
IR6	2021-08-03	Mn-D	mg/L	0.002	0.001	<0.0020	<0.0010
IR6	2021-08-03	Mo-D	mg/L	0.002	0.001	<0.0020	<0.0010
IR6	2021-08-03	Ni-D	mg/L	0.002	0.001	<0.0020	<0.0010
IR6	2021-08-03	Pb-D	mg/L	0.0004	0.0002	<0.00040	<0.00020
IR6	2021-08-03	Sb-D	mg/L	0.001	0.0005	<0.0010	<0.00050
IR6	2021-08-03	S-D	mg/L	6	3	<6.0	3.7
IR6	2021-08-03	Ti-D	mg/L	0.01	0.005	<0.010	<0.0050
IR6	2021-08-03	Tl-D	mg/L	0.00002	0.00001	<0.000020	<0.000010
IR6	2021-08-03	U-D	mg/L	0.0002	0.0001	<0.00020	0.00014
IR6	2021-08-03	V-D	mg/L	0.01	0.005	<0.010	<0.0050
IR6	2021-08-03	Zn-D	mg/L	0.01	0.005	<0.010	<0.0050
IR6	2021-08-03	Zr-D	mg/L	0.0002	0.0001	<0.00020	<0.00010
MW002	2021-05-11	Ag-D	mg/L	0.0001	0.00004	<0.00010	<0.000040
MW002	2021-05-11	Al-D	mg/L	0.015	0.006	<0.015	<0.0060
MW002	2021-05-11	Be-D	mg/L	0.0005	0.0002	<0.00050	<0.00020
MW002	2021-05-11	Bi-D	mg/L	0.005	0.002	<0.0050	<0.0020
MW002	2021-05-11	Cd-D	mg/L	0.00005	0.00002	<0.000050	<0.000020
MW002	2021-05-11	Cr-D	mg/L	0.005	0.002	<0.0050	<0.0020
MW002	2021-05-11	Cu-D	mg/L	0.001	0.0004	<0.0010	<0.00040
MW002	2021-05-11	Mo-D	mg/L	0.005	0.002	<0.0050	<0.0020
MW002	2021-05-11	Ni-D	mg/L	0.005	0.002	<0.0050	0.0021
MW002	2021-05-11	Pb-D	mg/L	0.001	0.0004	<0.0010	<0.00040
MW002	2021-05-11	Sb-D	mg/L	0.0025	0.001	<0.0025	<0.0010
MW002	2021-05-11	Se-D	mg/L	0.0005	0.0002	<0.00050	<0.00020
MW002	2021-05-11	Ti-D	mg/L	0.025	0.01	<0.025	<0.010
MW002	2021-05-11	Tl-D	mg/L	0.00005	0.00002	<0.000050	<0.000020
MW002	2021-05-11	V-D	mg/L	0.025	0.01	<0.025	<0.010
MW002	2021-05-11	Zn-D	mg/L	0.025	0.01	<0.025	<0.010
MW002	2021-05-11	Zr-D	mg/L	0.0005	0.0002	<0.00050	<0.00020

Table 52 Results of Different Lab MDL 2 Page(s)

Results of Different Laboratory Mean Detection Limits (Lab MDL)							
Stn.Code	Date	Parameter	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2
QU1013D	2021-12-08	P-D	mg/L	0.006	0.003	<0.0060	0.0032
QU1109S	2021-11-03	Ag-D	mg/L	0.00004	0.00002	<0.000040	<0.000020
QU1109S	2021-11-03	Al-D	mg/L	0.006	0.003	<0.0060	<0.0030
QU1109S	2021-11-03	Be-D	mg/L	0.0002	0.0001	<0.00020	<0.00010
QU1109S	2021-11-03	Bi-D	mg/L	0.002	0.001	<0.0020	<0.0010
QU1109S	2021-11-03	Cd-D	mg/L	0.00002	0.00001	<0.000020	<0.000010
QU1109S	2021-11-03	Co-D	mg/L	0.0004	0.0002	<0.00040	<0.00020
QU1109S	2021-11-03	Cr-D	mg/L	0.002	0.001	<0.0020	<0.0010
QU1109S	2021-11-03	Cu-D	mg/L	0.0004	0.0002	<0.00040	<0.00020
QU1109S	2021-11-03	Mo-D	mg/L	0.002	0.001	<0.0020	<0.0010
QU1109S	2021-11-03	Ni-D	mg/L	0.002	0.001	<0.0020	<0.0010
QU1109S	2021-11-03	Pb-D	mg/L	0.0004	0.0002	<0.00040	<0.00020
QU1109S	2021-11-03	Sb-D	mg/L	0.001	0.0005	<0.0010	<0.00050
QU1109S	2021-11-03	Se-D	mg/L	0.0002	0.0001	0.00136	0.00182
QU1109S	2021-11-03	Ti-D	mg/L	0.01	0.005	<0.010	<0.0050
QU1109S	2021-11-03	Tl-D	mg/L	0.00002	0.00001	<0.000020	<0.000010
QU1109S	2021-11-03	U-D	mg/L	0.0002	0.0001	<0.00020	<0.00010
QU1109S	2021-11-03	V-D	mg/L	0.01	0.005	<0.010	<0.0050
QU1109S	2021-11-03	Zn-D	mg/L	0.01	0.005	<0.010	<0.0050
QU1109S	2021-11-03	Zr-D	mg/L	0.0002	0.0001	<0.00020	<0.00010
WC	2021-08-09	Ag-T	mg/L	0.00002	0.00004	<0.000020	<0.000040
WC	2021-08-09	Al-T	mg/L	0.003	0.006	<0.0030	<0.0060
WC	2021-08-09	Be-T	mg/L	0.0001	0.0002	<0.00010	<0.00020
WC	2021-08-09	Bi-T	mg/L	0.001	0.002	<0.0010	<0.0020
WC	2021-08-09	B-T	mg/L	0.05	0.1	0.842	1.22
WC	2021-08-09	Cd-T	mg/L	0.00001	0.00002	<0.000010	<0.000020
WC	2021-08-09	Co-T	mg/L	0.0002	0.0004	<0.00020	<0.00040
WC	2021-08-09	Cr-T	mg/L	0.001	0.002	<0.0010	<0.0020
WC	2021-08-09	Cu-T	mg/L	0.0005	0.001	<0.00050	<0.0010
WC	2021-08-09	Li-T	mg/L	0.002	0.004	0.0068	0.0116
WC	2021-08-09	Mo-T	mg/L	0.001	0.002	<0.0010	<0.0020
WC	2021-08-09	Ni-T	mg/L	0.001	0.002	<0.0010	<0.0020
WC	2021-08-09	Pb-T	mg/L	0.0002	0.0004	<0.00020	<0.00040
WC	2021-08-09	Sb-T	mg/L	0.0005	0.001	<0.00050	<0.0010
WC	2021-08-09	Se-T	mg/L	0.0001	0.0002	<0.00010	<0.00020
WC	2021-08-09	Sn-T	mg/L	0.005	0.01	<0.0050	<0.010
WC	2021-08-09	Ti-T	mg/L	0.005	0.01	<0.0050	<0.010
WC	2021-08-09	Tl-T	mg/L	0.00001	0.00002	<0.000010	<0.000020
WC	2021-08-09	U-T	mg/L	0.0001	0.0002	<0.00010	<0.00020
WC	2021-08-09	V-T	mg/L	0.005	0.01	<0.0050	<0.010
WC	2021-08-09	Zn-T	mg/L	0.005	0.01	<0.0050	<0.010
WC	2021-08-09	Zr-T		0.0001	0.0002	<0.00010	<0.00020

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Table 53 RPD Greater Than 20% and 50% 1 Page(s)

Relative Percent Difference Greater than 20%										
Stn.Code 1	Date	Parameter Name	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio	5 X Lab MDL1
2S	01-Mar-2022	Al-T	mg/L	0.003	0.003	0.008	0.0158	65.5	0.51	0.015
2SC	04-Oct-2021	Acidity 8.3	mg/L	1	1	1.8	<1.0	57.1	1.8	5
2SC	07-Dec-2021	Acidity 8.3	mg/L	1	1	4.7	7.4	44.6	0.64	5
INF	01-Jun-2021	Cd-T	mg/L	0.00002	0.00002	0.000091	0.000164	57.3	0.55	0.0001
INF	27-Dec-2021	Hydrogen Sulphide (H2S)	mg/L	0.002	0.002	0.0031	<0.0020	43.1	1.55	0.01
INF	27-Dec-2021	S2-T	mg/L	0.0018	0.0018	0.0029	<0.0018	46.8	1.61	0.009
LLM1	12-Jul-2021	Al-D	mg/L	0.003	0.003	0.0108	0.0157	37	0.69	0.015
LLM1	12-Jul-2021	Chlorophyll a	mg/L	0.5	0.5	0.7600	<0.50	41.3	1.52	2.5
LLM4	19-Oct-2021	C-D	mg/L	0.5	0.5	2.3	3	26.4	0.77	2.5
LLO	25-Oct-2021	TSS	mg/L	1	1	1.6	<1.0	46.2	1.6	5
MQL1	19-Jul-2021	NO2+NO3	mg/L	0.02	0.02	0.034	<0.020	51.9	1.7	0.1
MQL1	19-Jul-2021	N-NO3	mg/L	0.02	0.02	0.034	<0.020	51.9	1.7	0.1
MQL4	04-May-2021	Fe-T	mg/L	0.01	0.01	0.029	0.322	167.0	0.09	0.05
MQL9	26-Jul-2021	K-D	mg/L	0.05	0.05	0.165	0.274	49.7	0.6	0.25
MQL9	26-Jul-2021	K-T	mg/L	0.05	0.05	0.157	0.3	46.8	0.62	0.25
MW004	29-Nov-2021	Se-T	mg/L	0.0001	0.0001	0.00015	<0.0001	40	1.5	0.0005
NNL1	07-Apr-2021	Turb	mg/L	0.1	0.1	0.39	0.51	26.7	0.76	0.5
NNO	18-Oct-2021	TSS	mg/L	1	1	1.6	<1.0	46.2	1.6	5
QRDS	27-Jul-2021	N-NH3	NTU	0.015	0.015	0.073	0.17	79.8	0.43	0.075
QRDS1	26-Apr-2021	P-T	mg/L	0.003	0.003	0.0071	<0.0030	81.2	2.37	0.015
QU0810	31-Mar-2022	Hydrogen Sulphide (H2S)	mg/L	0.002	0.002	0.00	<0.0020	26.1	1.3	0.01
QU0810	31-Mar-2022	S2-T	mg/L	0.0018	0.0018	0.0025	<0.0018	32.6	1.39	0.009
QU0813A	16-Aug-2021	Acidity 8.3	mg/L	1	1	2.1	<1.0	71	2.1	5
QU1008D	16-Mar-2022	Pb-D	mg/L	0.0002	0.0002	0.00027	<0.00020	29.8	1.35	0.001
QU1009D	20-Jan-2022	P-D	mg/L	0.003	0.003	0.0096	0.016	50	0.6	0.015
QU1011D	24-Aug-2021	Al-D	NTU	0.003	0.003	0.0086	0.0153	56.1	0.56	0.015
QU1101	22-Jun-2021	Cl-D	NTU	1	1	4.2	5.2	21.3	0.81	5
QU1109S	19-Aug-2021	Alk-PP	mg/L	1	1	2.4	<1.0	82.4	2.4	5
QU1109S	19-Aug-2021	Carbonate	NTU	1	1	2.9	<1.0	97.4	2.9	5
QU1410	22-Sep-2021	Fluoride	mg/L	0.05	0.05	0.17	<0.050	109.1	3.4	0.25
SPCEFF	28-Mar-2022	Hydrogen Sulphide (H2S)	mg/L	0.002	0.002	0.0038	<0.0020	62.1	1.9	0.01
SPCEFF	28-Mar-2022	S2-T	mg/L	0.0018	0.0018	0.0035	<0.0018	64.2	1.94	0.009
WA	08-Jul-2021	Zn-D	mg/L	0.005	0.005	0.0097	<0.0050	63.9	1.94	0.025
Notes: Factor applied to less-than results when calculating statistics: 1.0 Only results that meet either of these conditions are included: Relative Percent Difference > 20% Ratio of results is outside the range 0 to 6										

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Table 54 Blanks 20 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)									
Stn.Code 1	Date	Parameter Name	Units	MDL 1	MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
EB1	2021-07-12	Ag-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB1	2021-07-12	Ag-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB1	2021-07-12	Al-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
EB1	2021-07-12	Al-T	mg/L	0.003	0.003	0.0035	0.0035	0.0	1.00
EB1	2021-07-12	As-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-07-12	As-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-07-12	Ba-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-07-12	Ba-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-07-12	B-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-07-12	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-07-12	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-07-12	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-07-12	Bi-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-07-12	B-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-07-12	Ca-D	mg/L	0.05	0.05	0.076	0.076	0.0	1.00
EB1	2021-07-12	Ca-T	mg/L	0.05	0.05	0.061	0.061	0.0	1.00
EB1	2021-07-12	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
EB1	2021-07-12	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
EB1	2021-07-12	Cl-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
EB1	2021-07-12	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB1	2021-07-12	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB1	2021-07-12	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-07-12	Cr-T	mg/L	0.001	0.001	0.0091	0.0091	0.0	1.00
EB1	2021-07-12	Cu-D	mg/L	0.0002	0.0002	0.00044	0.00044	0.0	1.00
EB1	2021-07-12	Cu-T	mg/L	0.0005	0.0005	0.00522	0.00522	0.0	1.00
EB1	2021-07-12	Fe-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-07-12	Fe-T	mg/L	0.01	0.01	0.034	0.034	0.0	1.00
EB1	2021-07-12	Hard-D	mg/L	0.5	0.5	<0.50	<0.50	0.0	1.00
EB1	2021-07-12	Hardness (as CaCO3)	mg/L	0.5	0.5	<0.50	<0.50	0.0	1.00
EB1	2021-07-12	K-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-07-12	K-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-07-12	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
EB1	2021-07-12	Mg-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-07-12	Mg-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-07-12	Mn-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-07-12	Mn-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-07-12	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-07-12	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-07-12	Na-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-07-12	Na-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-07-12	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-07-12	Ni-T	mg/L	0.001	0.001	0.0035	0.0035	0.0	1.00
EB1	2021-07-12	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB1	2021-07-12	Pb-T	mg/L	0.0002	0.0002	0.00038	0.00038	0.0	1.00
EB1	2021-07-12	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
EB1	2021-07-12	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
EB1	2021-07-12	S-D	mg/L	3	3	<3.0	<3.0	0.0	1.00
EB1	2021-07-12	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-07-12	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-07-12	Si-D	mg/L	0.1	0.1	<0.10	<0.10	0.0	1.00
EB1	2021-07-12	Si-T	mg/L	0.1	0.1	<0.10	<0.10	0.0	1.00
EB1	2021-07-12	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-07-12	SO4-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
EB1	2021-07-12	Sr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-07-12	Sr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-07-12	S-T	mg/L	3	3	<3.0	<3.0	0.0	1.00
EB1	2021-07-12	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-07-12	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-07-12	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
EB1	2021-07-12	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
EB1	2021-07-12	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-07-12	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-07-12	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-07-12	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-07-12	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-07-12	Zn-T	mg/L	0.005	0.005	0.0299	0.0299	0.0	1.00
EB1	2021-07-12	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-07-12	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-07-26	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
EB1	2021-07-26	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
EB1	2021-07-26	Al-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
EB1	2021-07-26	Al-T	mg/L	0.003	0.003	0.0031	0.0031	0.0	1.00
EB1	2021-07-26	As-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-07-26	As-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-07-26	Ba-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-07-26	Ba-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-07-26	B-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-07-26	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-07-26	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-07-26	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-07-26	Bi-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00

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Table 54 Blanks 20 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)									
Stn.Code 1	Date	Parameter Name	Units	MDL 1	MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
EB1	2021-07-26	B-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-07-26	Ca-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-07-26	Ca-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-07-26	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
EB1	2021-07-26	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
EB1	2021-07-26	Cl-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
EB1	2021-07-26	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB1	2021-07-26	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB1	2021-07-26	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-07-26	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-07-26	Cu-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB1	2021-07-26	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
EB1	2021-07-26	Fe-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-07-26	Fe-T	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
EB1	2021-07-26	Hard-D	mg/L	0.5	0.5	<0.50	<0.50	0.0	1.00
EB1	2021-07-26	Hardness (as CaCO3)	mg/L	0.5	0.5	<0.50	<0.50	0.0	1.00
EB1	2021-07-26	K-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-07-26	K-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-07-26	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
EB1	2021-07-26	Mg-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-07-26	Mg-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-07-26	Mn-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-07-26	Mn-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-07-26	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-07-26	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-07-26	Na-D	mg/L	0.05	0.05	0.341	0.341	0.0	1.00
EB1	2021-07-26	Na-T	mg/L	0.05	0.05	0.303	0.303	0.0	1.00
EB1	2021-07-26	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-07-26	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-07-26	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB1	2021-07-26	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB1	2021-07-26	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
EB1	2021-07-26	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
EB1	2021-07-26	S-D	mg/L	3	3	<3.0	<3.0	0.0	1.00
EB1	2021-07-26	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-07-26	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-07-26	Si-D	mg/L	0.1	0.1	<0.10	<0.10	0.0	1.00
EB1	2021-07-26	Si-T	mg/L	0.1	0.1	<0.10	<0.10	0.0	1.00
EB1	2021-07-26	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-07-26	SO4-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
EB1	2021-07-26	Sr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-07-26	Sr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-07-26	S-T	mg/L	3	3	<3.0	<3.0	0.0	1.00
EB1	2021-07-26	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-07-26	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-07-26	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
EB1	2021-07-26	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
EB1	2021-07-26	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-07-26	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-07-26	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-07-26	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-07-26	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-07-26	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-07-26	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-07-26	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-08-04	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
EB1	2021-08-04	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
EB1	2021-08-04	Al-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
EB1	2021-08-04	Al-T	mg/L	0.003	0.003	0.0034	0.0034	0.0	1.00
EB1	2021-08-04	As-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-08-04	As-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-08-04	Ba-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-08-04	Ba-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-08-04	B-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-08-04	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-08-04	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-08-04	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-08-04	Bi-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-08-04	B-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-08-04	Ca-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-08-04	Ca-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-08-04	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
EB1	2021-08-04	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
EB1	2021-08-04	Cl-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
EB1	2021-08-04	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB1	2021-08-04	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB1	2021-08-04	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-08-04	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-08-04	Cu-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB1	2021-08-04	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
EB1	2021-08-04	Fe-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 54 Blanks 20 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)									
Stn.Code 1	Date	Parameter Name	Units	MDL 1	MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
EB1	2021-08-04	Fe-T	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
EB1	2021-08-04	Hard-D	mg/L	0.5	0.5	<0.50	<0.50	0.0	1.00
EB1	2021-08-04	Hardness (as CaCO3)	mg/L	0.5	0.5	<0.50	<0.50	0.0	1.00
EB1	2021-08-04	K-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-08-04	K-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-08-04	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
EB1	2021-08-04	Mg-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-08-04	Mg-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-08-04	Mn-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-08-04	Mn-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-08-04	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-08-04	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-08-04	Na-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-08-04	Na-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-08-04	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-08-04	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-08-04	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB1	2021-08-04	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB1	2021-08-04	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
EB1	2021-08-04	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
EB1	2021-08-04	S-D	mg/L	3	3	<3.0	<3.0	0.0	1.00
EB1	2021-08-04	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-08-04	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-08-04	Si-D	mg/L	0.1	0.1	<0.10	<0.10	0.0	1.00
EB1	2021-08-04	Si-T	mg/L	0.1	0.1	<0.10	<0.10	0.0	1.00
EB1	2021-08-04	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-08-04	SO4-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
EB1	2021-08-04	Sr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-08-04	Sr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-08-04	S-T	mg/L	3	3	<3.0	<3.0	0.0	1.00
EB1	2021-08-04	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-08-04	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-08-04	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
EB1	2021-08-04	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
EB1	2021-08-04	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-08-04	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-08-04	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-08-04	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-08-04	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-08-04	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-08-04	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-08-04	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-08-10	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
EB1	2021-08-10	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
EB1	2021-08-10	Al-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
EB1	2021-08-10	Al-T	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
EB1	2021-08-10	As-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-08-10	As-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-08-10	Ba-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-08-10	Ba-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-08-10	B-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-08-10	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-08-10	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-08-10	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-08-10	Bi-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-08-10	B-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-08-10	Ca-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-08-10	Ca-T	mg/L	0.05	0.05	0.088	0.088	0.0	1.00
EB1	2021-08-10	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
EB1	2021-08-10	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
EB1	2021-08-10	Cl-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
EB1	2021-08-10	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB1	2021-08-10	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB1	2021-08-10	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-08-10	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-08-10	Cu-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB1	2021-08-10	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
EB1	2021-08-10	Fe-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-08-10	Fe-T	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
EB1	2021-08-10	Hard-D	mg/L	0.5	0.5	<0.50	<0.50	0.0	1.00
EB1	2021-08-10	Hardness (as CaCO3)	mg/L	0.5	0.5	<0.50	<0.50	0.0	1.00
EB1	2021-08-10	K-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-08-10	K-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-08-10	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
EB1	2021-08-10	Mg-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-08-10	Mg-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-08-10	Mn-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-08-10	Mn-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-08-10	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-08-10	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-08-10	Na-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 54 Blanks 20 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)									
Stn.Code 1	Date	Parameter Name	Units	MDL 1	MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
EB1	2021-08-10	Na-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-08-10	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-08-10	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-08-10	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB1	2021-08-10	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB1	2021-08-10	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
EB1	2021-08-10	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
EB1	2021-08-10	S-D	mg/L	3	3	<3.0	<3.0	0.0	1.00
EB1	2021-08-10	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-08-10	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-08-10	Si-D	mg/L	0.1	0.1	<0.10	<0.10	0.0	1.00
EB1	2021-08-10	Si-T	mg/L	0.1	0.1	<0.10	<0.10	0.0	1.00
EB1	2021-08-10	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-08-10	SO4-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
EB1	2021-08-10	Sr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-08-10	Sr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-08-10	S-T	mg/L	3	3	<3.0	<3.0	0.0	1.00
EB1	2021-08-10	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-08-10	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-08-10	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
EB1	2021-08-10	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
EB1	2021-08-10	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-08-10	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-08-10	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-08-10	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-08-10	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-08-10	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-08-10	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-08-10	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-10-06	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
EB1	2021-10-06	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
EB1	2021-10-06	Al-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
EB1	2021-10-06	Al-T	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
EB1	2021-10-06	As-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-10-06	As-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-10-06	Ba-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-10-06	Ba-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-10-06	B-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-10-06	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-10-06	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-10-06	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-10-06	Bi-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-10-06	B-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-10-06	Ca-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-10-06	Ca-T	mg/L	0.05	0.05	0.066	0.066	0.0	1.00
EB1	2021-10-06	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
EB1	2021-10-06	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
EB1	2021-10-06	Cl-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
EB1	2021-10-06	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB1	2021-10-06	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB1	2021-10-06	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-10-06	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-10-06	Cu-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB1	2021-10-06	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
EB1	2021-10-06	Fe-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-10-06	Fe-T	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
EB1	2021-10-06	Hard-D	mg/L	0.5	0.5	<0.50	<0.50	0.0	1.00
EB1	2021-10-06	Hardness (as CaCO3)	mg/L	0.5	0.5	<0.50	<0.50	0.0	1.00
EB1	2021-10-06	K-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-10-06	K-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-10-06	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
EB1	2021-10-06	Mg-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-10-06	Mg-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-10-06	Mn-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-10-06	Mn-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-10-06	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-10-06	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-10-06	Na-D	mg/L	0.05	0.05	0.088	0.088	0.0	1.00
EB1	2021-10-06	Na-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-10-06	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-10-06	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-10-06	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB1	2021-10-06	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB1	2021-10-06	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
EB1	2021-10-06	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
EB1	2021-10-06	S-D	mg/L	3	3	<3.0	<3.0	0.0	1.00
EB1	2021-10-06	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-10-06	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-10-06	Si-D	mg/L	0.1	0.1	<0.10	<0.10	0.0	1.00
EB1	2021-10-06	Si-T	mg/L	0.1	0.1	<0.10	<0.10	0.0	1.00
EB1	2021-10-06	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 54 Blanks 20 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)									
Stn.Code 1	Date	Parameter Name	Units	MDL 1	MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
EB1	2021-10-06	SO4-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
EB1	2021-10-06	Sr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-10-06	Sr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-10-06	S-T	mg/L	3	3	<3.0	<3.0	0.0	1.00
EB1	2021-10-06	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-10-06	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-10-06	TI-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
EB1	2021-10-06	TI-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
EB1	2021-10-06	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-10-06	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-10-06	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-10-06	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-10-06	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-10-06	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-10-06	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-10-06	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-10-13	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
EB1	2021-10-13	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
EB1	2021-10-13	Al-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
EB1	2021-10-13	Al-T	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
EB1	2021-10-13	As-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-10-13	As-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-10-13	Ba-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-10-13	Ba-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-10-13	B-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-10-13	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-10-13	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-10-13	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-10-13	Bi-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-10-13	B-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-10-13	Ca-D	mg/L	0.05	0.05	0.130	0.130	0.0	1.00
EB1	2021-10-13	Ca-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-10-13	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
EB1	2021-10-13	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
EB1	2021-10-13	Cl-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
EB1	2021-10-13	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB1	2021-10-13	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB1	2021-10-13	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-10-13	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-10-13	Cu-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB1	2021-10-13	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
EB1	2021-10-13	Fe-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-10-13	Fe-T	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
EB1	2021-10-13	Hard-D	mg/L	0.5	0.5	<0.50	<0.50	0.0	1.00
EB1	2021-10-13	Hardness (as CaCO3)	mg/L	0.5	0.5	<0.50	<0.50	0.0	1.00
EB1	2021-10-13	K-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-10-13	K-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-10-13	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
EB1	2021-10-13	Mg-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-10-13	Mg-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-10-13	Mn-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-10-13	Mn-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-10-13	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-10-13	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-10-13	Na-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-10-13	Na-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-10-13	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-10-13	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-10-13	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB1	2021-10-13	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB1	2021-10-13	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
EB1	2021-10-13	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
EB1	2021-10-13	S-D	mg/L	3	3	<3.0	<3.0	0.0	1.00
EB1	2021-10-13	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-10-13	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-10-13	Si-D	mg/L	0.1	0.1	<0.10	<0.10	0.0	1.00
EB1	2021-10-13	Si-T	mg/L	0.1	0.1	<0.10	<0.10	0.0	1.00
EB1	2021-10-13	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-10-13	SO4-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
EB1	2021-10-13	Sr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-10-13	Sr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-10-13	S-T	mg/L	3	3	<3.0	<3.0	0.0	1.00
EB1	2021-10-13	TI-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-10-13	TI-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-10-13	TI-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
EB1	2021-10-13	TI-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
EB1	2021-10-13	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-10-13	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-10-13	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-10-13	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-10-13	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00

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Table 54 Blanks 20 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)									
Stn.Code 1	Date	Parameter Name	Units	MDL 1	MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
EB1	2021-10-13	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-10-13	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-10-13	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-10-19	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
EB1	2021-10-19	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
EB1	2021-10-19	Al-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
EB1	2021-10-19	Al-T	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
EB1	2021-10-19	As-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-10-19	As-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-10-19	Ba-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-10-19	Ba-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-10-19	B-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-10-19	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-10-19	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-10-19	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-10-19	Bi-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-10-19	B-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-10-19	Ca-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-10-19	Ca-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-10-19	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
EB1	2021-10-19	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
EB1	2021-10-19	Cl-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
EB1	2021-10-19	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB1	2021-10-19	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB1	2021-10-19	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-10-19	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-10-19	Cu-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB1	2021-10-19	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
EB1	2021-10-19	Fe-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-10-19	Fe-T	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
EB1	2021-10-19	Hard-D	mg/L	0.5	0.5	<0.50	<0.50	0.0	1.00
EB1	2021-10-19	Hardness (as CaCO3)	mg/L	0.5	0.5	<0.50	<0.50	0.0	1.00
EB1	2021-10-19	K-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-10-19	K-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-10-19	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
EB1	2021-10-19	Mg-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-10-19	Mg-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-10-19	Mn-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-10-19	Mn-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-10-19	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-10-19	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-10-19	Na-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-10-19	Na-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-10-19	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-10-19	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-10-19	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB1	2021-10-19	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB1	2021-10-19	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
EB1	2021-10-19	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
EB1	2021-10-19	S-D	mg/L	3	3	<3.0	<3.0	0.0	1.00
EB1	2021-10-19	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-10-19	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-10-19	Si-D	mg/L	0.1	0.1	<0.10	<0.10	0.0	1.00
EB1	2021-10-19	Si-T	mg/L	0.1	0.1	<0.10	<0.10	0.0	1.00
EB1	2021-10-19	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-10-19	SO4-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
EB1	2021-10-19	Sr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-10-19	Sr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-10-19	S-T	mg/L	3	3	<3.0	<3.0	0.0	1.00
EB1	2021-10-19	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-10-19	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-10-19	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
EB1	2021-10-19	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
EB1	2021-10-19	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-10-19	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-10-19	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-10-19	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-10-19	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-10-19	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-10-19	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-10-19	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-11-02	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
EB1	2021-11-02	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
EB1	2021-11-02	Al-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
EB1	2021-11-02	Al-T	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
EB1	2021-11-02	As-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-11-02	As-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-11-02	Ba-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-11-02	Ba-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-11-02	B-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-11-02	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00

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Table 54 Blanks 20 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)									
Stn.Code 1	Date	Parameter Name	Units	MDL 1	MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
EB1	2021-11-02	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-11-02	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-11-02	Bi-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-11-02	B-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-11-02	Ca-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-11-02	Ca-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-11-02	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
EB1	2021-11-02	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
EB1	2021-11-02	Cl-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
EB1	2021-11-02	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB1	2021-11-02	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB1	2021-11-02	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-11-02	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-11-02	Cu-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB1	2021-11-02	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
EB1	2021-11-02	Fe-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-11-02	Fe-T	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
EB1	2021-11-02	Hard-D	mg/L	0.5	0.5	<0.50	<0.50	0.0	1.00
EB1	2021-11-02	Hardness (as CaCO3)	mg/L	0.5	0.5	<0.50	<0.50	0.0	1.00
EB1	2021-11-02	K-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-11-02	K-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-11-02	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
EB1	2021-11-02	Mg-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-11-02	Mg-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-11-02	Mn-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-11-02	Mn-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-11-02	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-11-02	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-11-02	Na-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-11-02	Na-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB1	2021-11-02	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-11-02	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-11-02	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB1	2021-11-02	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB1	2021-11-02	P-D	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
EB1	2021-11-02	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
EB1	2021-11-02	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
EB1	2021-11-02	S-D	mg/L	3	3	<3.0	<3.0	0.0	1.00
EB1	2021-11-02	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-11-02	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-11-02	Si-D	mg/L	0.1	0.1	<0.10	<0.10	0.0	1.00
EB1	2021-11-02	Si-T	mg/L	0.1	0.1	<0.10	<0.10	0.0	1.00
EB1	2021-11-02	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-11-02	SO4-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
EB1	2021-11-02	Sr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-11-02	Sr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB1	2021-11-02	S-T	mg/L	3	3	<3.0	<3.0	0.0	1.00
EB1	2021-11-02	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-11-02	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-11-02	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
EB1	2021-11-02	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
EB1	2021-11-02	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-11-02	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-11-02	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-11-02	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-11-02	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-11-02	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB1	2021-11-02	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB1	2021-11-02	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-07-12	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
EB2	2021-07-12	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
EB2	2021-07-12	Al-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
EB2	2021-07-12	Al-T	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
EB2	2021-07-12	As-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-07-12	As-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-07-12	Ba-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-07-12	Ba-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-07-12	B-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB2	2021-07-12	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-07-12	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-07-12	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-07-12	Bi-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-07-12	B-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB2	2021-07-12	Ca-D	mg/L	0.05	0.05	0.053	0.053	0.0	1.00
EB2	2021-07-12	Ca-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB2	2021-07-12	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
EB2	2021-07-12	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
EB2	2021-07-12	Cl-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
EB2	2021-07-12	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB2	2021-07-12	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB2	2021-07-12	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00

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Table 54 Blanks 20 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)									
Stn.Code 1	Date	Parameter Name	Units	MDL 1	MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
EB2	2021-07-12	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-07-12	Cu-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB2	2021-07-12	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
EB2	2021-07-12	Fe-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB2	2021-07-12	Fe-T	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
EB2	2021-07-12	Hard-D	mg/L	0.5	0.5	<0.50	<0.50	0.0	1.00
EB2	2021-07-12	Hardness (as CaCO3)	mg/L	0.5	0.5	<0.50	<0.50	0.0	1.00
EB2	2021-07-12	K-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB2	2021-07-12	K-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB2	2021-07-12	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
EB2	2021-07-12	Mg-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB2	2021-07-12	Mg-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB2	2021-07-12	Mn-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-07-12	Mn-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-07-12	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-07-12	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-07-12	Na-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB2	2021-07-12	Na-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB2	2021-07-12	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-07-12	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-07-12	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB2	2021-07-12	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB2	2021-07-12	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
EB2	2021-07-12	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
EB2	2021-07-12	S-D	mg/L	3	3	<3.0	<3.0	0.0	1.00
EB2	2021-07-12	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-07-12	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-07-12	Si-D	mg/L	0.1	0.1	<0.10	<0.10	0.0	1.00
EB2	2021-07-12	Si-T	mg/L	0.1	0.1	<0.10	<0.10	0.0	1.00
EB2	2021-07-12	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB2	2021-07-12	SO4-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
EB2	2021-07-12	Sr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-07-12	Sr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-07-12	S-T	mg/L	3	3	<3.0	<3.0	0.0	1.00
EB2	2021-07-12	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB2	2021-07-12	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB2	2021-07-12	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
EB2	2021-07-12	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
EB2	2021-07-12	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-07-12	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-07-12	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB2	2021-07-12	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB2	2021-07-12	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB2	2021-07-12	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB2	2021-07-12	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-07-12	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-08-04	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
EB2	2021-08-04	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
EB2	2021-08-04	Al-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
EB2	2021-08-04	Al-T	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
EB2	2021-08-04	As-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-08-04	As-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-08-04	Ba-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-08-04	Ba-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-08-04	B-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB2	2021-08-04	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-08-04	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-08-04	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-08-04	Bi-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-08-04	B-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB2	2021-08-04	Ca-D	mg/L	0.05	0.05	0.102	0.102	0.0	1.00
EB2	2021-08-04	Ca-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB2	2021-08-04	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
EB2	2021-08-04	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
EB2	2021-08-04	Cl-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
EB2	2021-08-04	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB2	2021-08-04	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB2	2021-08-04	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-08-04	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-08-04	Cu-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB2	2021-08-04	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
EB2	2021-08-04	Fe-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB2	2021-08-04	Fe-T	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
EB2	2021-08-04	Hard-D	mg/L	0.5	0.5	<0.50	<0.50	0.0	1.00
EB2	2021-08-04	Hardness (as CaCO3)	mg/L	0.5	0.5	<0.50	<0.50	0.0	1.00
EB2	2021-08-04	K-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB2	2021-08-04	K-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB2	2021-08-04	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
EB2	2021-08-04	Mg-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB2	2021-08-04	Mg-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB2	2021-08-04	Mn-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 54 Blanks 20 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)									
Stn.Code 1	Date	Parameter Name	Units	MDL 1	MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
EB2	2021-08-04	Mn-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-08-04	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-08-04	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-08-04	Na-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB2	2021-08-04	Na-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB2	2021-08-04	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-08-04	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-08-04	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB2	2021-08-04	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB2	2021-08-04	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
EB2	2021-08-04	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
EB2	2021-08-04	S-D	mg/L	3	3	<3.0	<3.0	0.0	1.00
EB2	2021-08-04	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-08-04	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-08-04	Si-D	mg/L	0.1	0.1	<0.10	<0.10	0.0	1.00
EB2	2021-08-04	Si-T	mg/L	0.1	0.1	<0.10	<0.10	0.0	1.00
EB2	2021-08-04	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB2	2021-08-04	SO4-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
EB2	2021-08-04	Sr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-08-04	Sr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-08-04	S-T	mg/L	3	3	<3.0	<3.0	0.0	1.00
EB2	2021-08-04	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB2	2021-08-04	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB2	2021-08-04	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
EB2	2021-08-04	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
EB2	2021-08-04	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-08-04	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-08-04	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB2	2021-08-04	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB2	2021-08-04	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB2	2021-08-04	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB2	2021-08-04	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-08-04	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-10-06	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
EB2	2021-10-06	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
EB2	2021-10-06	Al-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
EB2	2021-10-06	Al-T	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
EB2	2021-10-06	As-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-10-06	As-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-10-06	Ba-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-10-06	Ba-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-10-06	B-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB2	2021-10-06	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-10-06	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-10-06	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-10-06	Bi-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-10-06	B-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB2	2021-10-06	Ca-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB2	2021-10-06	Ca-T	mg/L	0.05	0.05	0.083	0.083	0.0	1.00
EB2	2021-10-06	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
EB2	2021-10-06	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
EB2	2021-10-06	Cl-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
EB2	2021-10-06	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB2	2021-10-06	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB2	2021-10-06	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-10-06	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-10-06	Cu-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB2	2021-10-06	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
EB2	2021-10-06	Fe-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB2	2021-10-06	Fe-T	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
EB2	2021-10-06	Hard-D	mg/L	0.5	0.5	<0.50	<0.50	0.0	1.00
EB2	2021-10-06	Hardness (as CaCO3)	mg/L	0.5	0.5	<0.50	<0.50	0.0	1.00
EB2	2021-10-06	K-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB2	2021-10-06	K-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB2	2021-10-06	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
EB2	2021-10-06	Mg-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB2	2021-10-06	Mg-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB2	2021-10-06	Mn-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-10-06	Mn-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-10-06	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-10-06	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-10-06	Na-D	mg/L	0.05	0.05	0.075	0.075	0.0	1.00
EB2	2021-10-06	Na-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB2	2021-10-06	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-10-06	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-10-06	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB2	2021-10-06	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB2	2021-10-06	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
EB2	2021-10-06	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
EB2	2021-10-06	S-D	mg/L	3	3	<3.0	<3.0	0.0	1.00
EB2	2021-10-06	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 54 Blanks 20 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)									
Stn.Code 1	Date	Parameter Name	Units	MDL 1	MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
EB2	2021-10-06	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-10-06	Si-D	mg/L	0.1	0.1	<0.10	<0.10	0.0	1.00
EB2	2021-10-06	Si-T	mg/L	0.1	0.1	<0.10	<0.10	0.0	1.00
EB2	2021-10-06	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB2	2021-10-06	SO4-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
EB2	2021-10-06	Sr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-10-06	Sr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-10-06	S-T	mg/L	3	3	<3.0	<3.0	0.0	1.00
EB2	2021-10-06	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB2	2021-10-06	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB2	2021-10-06	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
EB2	2021-10-06	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
EB2	2021-10-06	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-10-06	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-10-06	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB2	2021-10-06	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB2	2021-10-06	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB2	2021-10-06	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB2	2021-10-06	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-10-06	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-10-13	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
EB2	2021-10-13	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
EB2	2021-10-13	Al-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
EB2	2021-10-13	Al-T	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
EB2	2021-10-13	As-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-10-13	As-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-10-13	Ba-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-10-13	Ba-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-10-13	B-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB2	2021-10-13	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-10-13	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-10-13	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-10-13	Bi-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-10-13	B-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB2	2021-10-13	Ca-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB2	2021-10-13	Ca-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB2	2021-10-13	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
EB2	2021-10-13	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
EB2	2021-10-13	Cl-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
EB2	2021-10-13	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB2	2021-10-13	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB2	2021-10-13	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-10-13	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-10-13	Cu-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB2	2021-10-13	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
EB2	2021-10-13	Fe-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB2	2021-10-13	Fe-T	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
EB2	2021-10-13	Hard-D	mg/L	0.5	0.5	<0.50	<0.50	0.0	1.00
EB2	2021-10-13	Hardness (as CaCO3)	mg/L	0.5	0.5	<0.50	<0.50	0.0	1.00
EB2	2021-10-13	K-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB2	2021-10-13	K-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB2	2021-10-13	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
EB2	2021-10-13	Mg-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB2	2021-10-13	Mg-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB2	2021-10-13	Mn-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-10-13	Mn-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-10-13	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-10-13	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-10-13	Na-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB2	2021-10-13	Na-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB2	2021-10-13	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-10-13	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-10-13	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB2	2021-10-13	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB2	2021-10-13	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
EB2	2021-10-13	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
EB2	2021-10-13	S-D	mg/L	3	3	<3.0	<3.0	0.0	1.00
EB2	2021-10-13	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-10-13	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-10-13	Si-D	mg/L	0.1	0.1	<0.10	<0.10	0.0	1.00
EB2	2021-10-13	Si-T	mg/L	0.1	0.1	<0.10	<0.10	0.0	1.00
EB2	2021-10-13	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB2	2021-10-13	SO4-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
EB2	2021-10-13	Sr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-10-13	Sr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-10-13	S-T	mg/L	3	3	<3.0	<3.0	0.0	1.00
EB2	2021-10-13	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB2	2021-10-13	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB2	2021-10-13	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
EB2	2021-10-13	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
EB2	2021-10-13	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 54 Blanks 20 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)									
Stn.Code 1	Date	Parameter Name	Units	MDL 1	MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
EB2	2021-10-13	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-10-13	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB2	2021-10-13	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB2	2021-10-13	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB2	2021-10-13	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB2	2021-10-13	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-10-13	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-10-19	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
EB2	2021-10-19	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
EB2	2021-10-19	Al-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
EB2	2021-10-19	Al-T	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
EB2	2021-10-19	As-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-10-19	As-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-10-19	Ba-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-10-19	Ba-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-10-19	B-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB2	2021-10-19	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-10-19	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-10-19	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-10-19	Bi-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-10-19	B-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB2	2021-10-19	Ca-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB2	2021-10-19	Ca-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB2	2021-10-19	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
EB2	2021-10-19	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
EB2	2021-10-19	Cl-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
EB2	2021-10-19	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB2	2021-10-19	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB2	2021-10-19	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-10-19	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-10-19	Cu-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB2	2021-10-19	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
EB2	2021-10-19	Fe-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB2	2021-10-19	Fe-T	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
EB2	2021-10-19	Hard-D	mg/L	0.5	0.5	<0.50	<0.50	0.0	1.00
EB2	2021-10-19	Hardness (as CaCO3)	mg/L	0.5	0.5	<0.50	<0.50	0.0	1.00
EB2	2021-10-19	K-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB2	2021-10-19	K-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB2	2021-10-19	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
EB2	2021-10-19	Mg-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB2	2021-10-19	Mg-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB2	2021-10-19	Mn-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-10-19	Mn-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-10-19	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-10-19	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-10-19	Na-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB2	2021-10-19	Na-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB2	2021-10-19	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-10-19	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-10-19	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB2	2021-10-19	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB2	2021-10-19	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
EB2	2021-10-19	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
EB2	2021-10-19	S-D	mg/L	3	3	<3.0	<3.0	0.0	1.00
EB2	2021-10-19	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-10-19	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-10-19	Si-D	mg/L	0.1	0.1	<0.10	<0.10	0.0	1.00
EB2	2021-10-19	Si-T	mg/L	0.1	0.1	<0.10	<0.10	0.0	1.00
EB2	2021-10-19	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB2	2021-10-19	SO4-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
EB2	2021-10-19	Sr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-10-19	Sr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-10-19	S-T	mg/L	3	3	<3.0	<3.0	0.0	1.00
EB2	2021-10-19	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB2	2021-10-19	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB2	2021-10-19	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
EB2	2021-10-19	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
EB2	2021-10-19	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-10-19	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-10-19	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB2	2021-10-19	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB2	2021-10-19	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB2	2021-10-19	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB2	2021-10-19	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-10-19	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-10-27	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
EB2	2021-10-27	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
EB2	2021-10-27	Al-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
EB2	2021-10-27	Al-T	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
EB2	2021-10-27	As-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-10-27	As-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 54 Blanks 20 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)									
Stn.Code 1	Date	Parameter Name	Units	MDL 1	MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
EB2	2021-10-27	Ba-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-10-27	Ba-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-10-27	B-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB2	2021-10-27	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-10-27	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-10-27	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-10-27	Bi-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-10-27	B-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB2	2021-10-27	Ca-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB2	2021-10-27	Ca-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB2	2021-10-27	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
EB2	2021-10-27	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
EB2	2021-10-27	Cl-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
EB2	2021-10-27	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB2	2021-10-27	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB2	2021-10-27	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-10-27	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-10-27	Cu-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB2	2021-10-27	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
EB2	2021-10-27	Fe-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB2	2021-10-27	Fe-T	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
EB2	2021-10-27	Hard-D	mg/L	0.5	0.5	<0.50	<0.50	0.0	1.00
EB2	2021-10-27	Hardness (as CaCO3)	mg/L	0.5	0.5	<0.50	<0.50	0.0	1.00
EB2	2021-10-27	K-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB2	2021-10-27	K-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB2	2021-10-27	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
EB2	2021-10-27	Mg-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB2	2021-10-27	Mg-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB2	2021-10-27	Mn-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-10-27	Mn-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-10-27	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-10-27	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-10-27	Na-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB2	2021-10-27	Na-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
EB2	2021-10-27	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-10-27	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-10-27	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB2	2021-10-27	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
EB2	2021-10-27	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
EB2	2021-10-27	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
EB2	2021-10-27	S-D	mg/L	3	3	<3.0	<3.0	0.0	1.00
EB2	2021-10-27	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-10-27	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-10-27	Si-D	mg/L	0.1	0.1	<0.10	<0.10	0.0	1.00
EB2	2021-10-27	Si-T	mg/L	0.1	0.1	<0.10	<0.10	0.0	1.00
EB2	2021-10-27	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB2	2021-10-27	SO4-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
EB2	2021-10-27	Sr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-10-27	Sr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
EB2	2021-10-27	S-T	mg/L	3	3	<3.0	<3.0	0.0	1.00
EB2	2021-10-27	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB2	2021-10-27	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB2	2021-10-27	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
EB2	2021-10-27	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
EB2	2021-10-27	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-10-27	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-10-27	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB2	2021-10-27	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB2	2021-10-27	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB2	2021-10-27	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
EB2	2021-10-27	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
EB2	2021-10-27	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
FB	2021-08-19	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
FB	2021-08-19	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
FB	2021-08-19	Al-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
FB	2021-08-19	Al-T	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
FB	2021-08-19	As-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
FB	2021-08-19	As-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
FB	2021-08-19	Ba-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
FB	2021-08-19	Ba-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
FB	2021-08-19	B-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
FB	2021-08-19	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
FB	2021-08-19	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
FB	2021-08-19	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
FB	2021-08-19	Bi-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
FB	2021-08-19	B-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
FB	2021-08-19	Ca-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
FB	2021-08-19	Ca-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
FB	2021-08-19	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
FB	2021-08-19	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
FB	2021-08-19	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00

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Table 54 Blanks 20 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)									
Stn.Code 1	Date	Parameter Name	Units	MDL 1	MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
FB	2021-08-19	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
FB	2021-08-19	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
FB	2021-08-19	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
FB	2021-08-19	Cu-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
FB	2021-08-19	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
FB	2021-08-19	Fe-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
FB	2021-08-19	Fe-T	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
FB	2021-08-19	Hard-D	mg/L	0.5	0.5	<0.50	<0.50	0.0	1.00
FB	2021-08-19	Hardness (as CaCO3)	mg/L	0.5	0.5	<0.50	<0.50	0.0	1.00
FB	2021-08-19	K-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
FB	2021-08-19	K-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
FB	2021-08-19	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
FB	2021-08-19	Mg-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
FB	2021-08-19	Mg-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
FB	2021-08-19	Mn-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
FB	2021-08-19	Mn-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
FB	2021-08-19	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
FB	2021-08-19	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
FB	2021-08-19	Na-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
FB	2021-08-19	Na-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
FB	2021-08-19	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
FB	2021-08-19	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
FB	2021-08-19	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
FB	2021-08-19	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
FB	2021-08-19	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
FB	2021-08-19	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
FB	2021-08-19	S-D	mg/L	3	3	<3.0	<3.0	0.0	1.00
FB	2021-08-19	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
FB	2021-08-19	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
FB	2021-08-19	Si-D	mg/L	0.1	0.1	<0.10	<0.10	0.0	1.00
FB	2021-08-19	Si-T	mg/L	0.1	0.1	<0.10	<0.10	0.0	1.00
FB	2021-08-19	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
FB	2021-08-19	Sr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
FB	2021-08-19	Sr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
FB	2021-08-19	S-T	mg/L	3	3	<3.0	<3.0	0.0	1.00
FB	2021-08-19	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
FB	2021-08-19	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
FB	2021-08-19	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
FB	2021-08-19	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
FB	2021-08-19	Turb	NTU	0.1	0.1	<0.10	<0.10	0.0	1.00
FB	2021-08-19	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
FB	2021-08-19	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
FB	2021-08-19	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
FB	2021-08-19	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
FB	2021-08-19	Zn-D	mg/L	0.005	0.005	0.0070	0.0070	0.0	1.00
FB	2021-08-19	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
FB	2021-08-19	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
FB	2021-08-19	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
FB	2021-09-07	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
FB	2021-09-07	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
FB	2021-09-07	Al-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
FB	2021-09-07	Al-T	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
FB	2021-09-07	As-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
FB	2021-09-07	As-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
FB	2021-09-07	Ba-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
FB	2021-09-07	Ba-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
FB	2021-09-07	B-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
FB	2021-09-07	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
FB	2021-09-07	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
FB	2021-09-07	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
FB	2021-09-07	Bi-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
FB	2021-09-07	B-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
FB	2021-09-07	Ca-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
FB	2021-09-07	Ca-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
FB	2021-09-07	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
FB	2021-09-07	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
FB	2021-09-07	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
FB	2021-09-07	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
FB	2021-09-07	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
FB	2021-09-07	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
FB	2021-09-07	Cu-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
FB	2021-09-07	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
FB	2021-09-07	Fe-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
FB	2021-09-07	Fe-T	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
FB	2021-09-07	Hard-D	mg/L	0.5	0.5	<0.50	<0.50	0.0	1.00
FB	2021-09-07	Hardness (as CaCO3)	mg/L	0.5	0.5	<0.50	<0.50	0.0	1.00
FB	2021-09-07	K-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
FB	2021-09-07	K-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
FB	2021-09-07	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
FB	2021-09-07	Mg-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
FB	2021-09-07	Mg-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 54 Blanks 20 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)									
Stn.Code 1	Date	Parameter Name	Units	MDL 1	MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
FB	2021-09-07	Mn-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
FB	2021-09-07	Mn-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
FB	2021-09-07	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
FB	2021-09-07	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
FB	2021-09-07	Na-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
FB	2021-09-07	Na-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
FB	2021-09-07	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
FB	2021-09-07	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
FB	2021-09-07	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
FB	2021-09-07	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
FB	2021-09-07	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
FB	2021-09-07	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
FB	2021-09-07	S-D	mg/L	3	3	<3.0	<3.0	0.0	1.00
FB	2021-09-07	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
FB	2021-09-07	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
FB	2021-09-07	Si-D	mg/L	0.1	0.1	<0.10	<0.10	0.0	1.00
FB	2021-09-07	Si-T	mg/L	0.1	0.1	<0.10	<0.10	0.0	1.00
FB	2021-09-07	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
FB	2021-09-07	SO4-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
FB	2021-09-07	Sr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
FB	2021-09-07	Sr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
FB	2021-09-07	S-T	mg/L	3	3	<3.0	<3.0	0.0	1.00
FB	2021-09-07	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
FB	2021-09-07	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
FB	2021-09-07	TI-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
FB	2021-09-07	TI-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
FB	2021-09-07	Turb	NTU	0.1	0.1	<0.10	<0.10	0.0	1.00
FB	2021-09-07	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
FB	2021-09-07	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
FB	2021-09-07	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
FB	2021-09-07	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
FB	2021-09-07	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
FB	2021-09-07	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
FB	2021-09-07	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
FB	2021-09-07	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2021-05-13	Acidity 4.5	mg/L	1	1	<1.0	<1.0	0.0	1.00
TB	2021-05-13	Acidity 8.3	mg/L	1	1	<1.0	<1.0	0.0	1.00
TB	2021-05-13	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
TB	2021-05-13	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
TB	2021-05-13	Al-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
TB	2021-05-13	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
TB	2021-05-13	Alkalinity Total as CaCO3	mg/L	1	1	<1.0	<1.0	0.0	1.00
TB	2021-05-13	Al-T	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
TB	2021-05-13	As-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2021-05-13	As-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2021-05-13	Ba-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2021-05-13	Ba-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2021-05-13	B-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2021-05-13	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2021-05-13	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2021-05-13	Bicarbonate	mg/L	1	1	<1.0	<1.0	0.0	1.00
TB	2021-05-13	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2021-05-13	Bi-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2021-05-13	Bromide	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
TB	2021-05-13	B-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2021-05-13	Ca-D	mg/L	0.05	0.05	0.114	0.114	0.0	1.00
TB	2021-05-13	Carbonate	mg/L	1	1	<1.0	<1.0	0.0	1.00
TB	2021-05-13	Ca-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2021-05-13	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
TB	2021-05-13	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
TB	2021-05-13	Cl-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
TB	2021-05-13	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
TB	2021-05-13	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
TB	2021-05-13	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2021-05-13	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2021-05-13	Cu-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
TB	2021-05-13	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
TB	2021-05-13	Fluoride	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2021-05-13	Fe-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
TB	2021-05-13	Fe-T	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
TB	2021-05-13	Hard-D	mg/L	0.5	0.5	<0.50	<0.50	0.0	1.00
TB	2021-05-13	Hardness (as CaCO3)	mg/L	0.5	0.5	<0.50	<0.50	0.0	1.00
TB	2021-05-13	Hydroxide	mg/L	1	1	<1.0	<1.0	0.0	1.00
TB	2021-05-13	K-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2021-05-13	K-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2021-05-13	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
TB	2021-05-13	Mg-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2021-05-13	Mg-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2021-05-13	Mn-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2021-05-13	Mn-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2021-05-13	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 54 Blanks 20 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)									
Stn.Code 1	Date	Parameter Name	Units	MDL 1	MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
TB	2021-05-13	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2021-05-13	Na-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2021-05-13	Na-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2021-05-13	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2021-05-13	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2021-05-13	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
TB	2021-05-13	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
TB	2021-05-13	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
TB	2021-05-13	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
TB	2021-05-13	S-D	mg/L	3	3	<3.0	<3.0	0.0	1.00
TB	2021-05-13	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2021-05-13	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2021-05-13	Si-D	mg/L	0.1	0.1	<0.10	<0.10	0.0	1.00
TB	2021-05-13	Si-T	mg/L	0.1	0.1	<0.10	<0.10	0.0	1.00
TB	2021-05-13	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
TB	2021-05-13	SO4-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
TB	2021-05-13	Sr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2021-05-13	Sr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2021-05-13	S-T	mg/L	3	3	<3.0	<3.0	0.0	1.00
TB	2021-05-13	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
TB	2021-05-13	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
TB	2021-05-13	TI-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
TB	2021-05-13	TI-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
TB	2021-05-13	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2021-05-13	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2021-05-13	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
TB	2021-05-13	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
TB	2021-05-13	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
TB	2021-05-13	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
TB	2021-05-13	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2021-05-13	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2021-06-15	Acidity 4.5	mg/L	1	1	<1.0	<1.0	0.0	1.00
TB	2021-06-15	Acidity 8.3	mg/L	1	1	<1.0	<1.0	0.0	1.00
TB	2021-06-15	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
TB	2021-06-15	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
TB	2021-06-15	Al-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
TB	2021-06-15	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
TB	2021-06-15	Alkalinity Total as CaCO3	mg/L	1	1	<1.0	<1.0	0.0	1.00
TB	2021-06-15	Al-T	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
TB	2021-06-15	As-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2021-06-15	As-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2021-06-15	Ba-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2021-06-15	Ba-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2021-06-15	B-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2021-06-15	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2021-06-15	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2021-06-15	Bicarbonate	mg/L	1	1	<1.0	<1.0	0.0	1.00
TB	2021-06-15	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2021-06-15	Bi-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2021-06-15	B-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2021-06-15	Ca-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2021-06-15	Carbonate	mg/L	1	1	<1.0	<1.0	0.0	1.00
TB	2021-06-15	Ca-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2021-06-15	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
TB	2021-06-15	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
TB	2021-06-15	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
TB	2021-06-15	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
TB	2021-06-15	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2021-06-15	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2021-06-15	Cu-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
TB	2021-06-15	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
TB	2021-06-15	Fe-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
TB	2021-06-15	Fe-T	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
TB	2021-06-15	Hard-D	mg/L	0.5	0.5	<0.50	<0.50	0.0	1.00
TB	2021-06-15	Hardness (as CaCO3)	mg/L	0.5	0.5	<0.50	<0.50	0.0	1.00
TB	2021-06-15	Hydroxide	mg/L	1	1	<1.0	<1.0	0.0	1.00
TB	2021-06-15	K-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2021-06-15	K-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2021-06-15	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
TB	2021-06-15	Mg-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2021-06-15	Mg-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2021-06-15	Mn-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2021-06-15	Mn-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2021-06-15	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2021-06-15	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2021-06-15	Na-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2021-06-15	Na-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2021-06-15	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2021-06-15	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2021-06-15	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
TB	2021-06-15	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 54 Blanks 20 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)									
Stn.Code 1	Date	Parameter Name	Units	MDL 1	MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
TB	2021-06-15	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
TB	2021-06-15	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
TB	2021-06-15	S-D	mg/L	3	3	<3.0	<3.0	0.0	1.00
TB	2021-06-15	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2021-06-15	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2021-06-15	Si-D	mg/L	0.1	0.1	<0.10	<0.10	0.0	1.00
TB	2021-06-15	Si-T	mg/L	0.1	0.1	<0.10	<0.10	0.0	1.00
TB	2021-06-15	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
TB	2021-06-15	SO4-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
TB	2021-06-15	Sr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2021-06-15	Sr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2021-06-15	S-T	mg/L	3	3	<3.0	<3.0	0.0	1.00
TB	2021-06-15	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
TB	2021-06-15	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
TB	2021-06-15	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
TB	2021-06-15	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
TB	2021-06-15	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2021-06-15	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2021-06-15	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
TB	2021-06-15	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
TB	2021-06-15	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
TB	2021-06-15	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
TB	2021-06-15	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2021-06-15	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2021-09-07	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
TB	2021-09-07	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
TB	2021-09-07	Al-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
TB	2021-09-07	Al-T	mg/L	0.003	0.003	0.0114	0.0114	0.0	1.00
TB	2021-09-07	As-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2021-09-07	As-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2021-09-07	Ba-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2021-09-07	Ba-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2021-09-07	B-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2021-09-07	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2021-09-07	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2021-09-07	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2021-09-07	Bi-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2021-09-07	B-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2021-09-07	Ca-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2021-09-07	Ca-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2021-09-07	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
TB	2021-09-07	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
TB	2021-09-07	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
TB	2021-09-07	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
TB	2021-09-07	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2021-09-07	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2021-09-07	Cu-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
TB	2021-09-07	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
TB	2021-09-07	Fe-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
TB	2021-09-07	Fe-T	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
TB	2021-09-07	Hard-D	mg/L	0.5	0.5	<0.50	<0.50	0.0	1.00
TB	2021-09-07	Hardness (as CaCO3)	mg/L	0.5	0.5	<0.50	<0.50	0.0	1.00
TB	2021-09-07	K-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2021-09-07	K-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2021-09-07	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
TB	2021-09-07	Mg-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2021-09-07	Mg-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2021-09-07	Mn-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2021-09-07	Mn-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2021-09-07	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2021-09-07	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2021-09-07	Na-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2021-09-07	Na-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2021-09-07	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2021-09-07	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2021-09-07	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
TB	2021-09-07	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
TB	2021-09-07	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
TB	2021-09-07	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
TB	2021-09-07	S-D	mg/L	3	3	<3.0	<3.0	0.0	1.00
TB	2021-09-07	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2021-09-07	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2021-09-07	Si-D	mg/L	0.1	0.1	<0.10	<0.10	0.0	1.00
TB	2021-09-07	Si-T	mg/L	0.1	0.1	<0.10	<0.10	0.0	1.00
TB	2021-09-07	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
TB	2021-09-07	SO4-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
TB	2021-09-07	Sr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2021-09-07	Sr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2021-09-07	S-T	mg/L	3	3	<3.0	<3.0	0.0	1.00
TB	2021-09-07	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
TB	2021-09-07	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 54 Blanks 20 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)									
Stn.Code 1	Date	Parameter Name	Units	MDL 1	MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
TB	2021-09-07	TI-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2021-09-07	TI-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2021-09-07	Turb	NTU	0.1	0.1	<0.10	<0.10	0.0	1.00
TB	2021-09-07	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2021-09-07	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2021-09-07	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
TB	2021-09-07	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
TB	2021-09-07	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
TB	2021-09-07	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
TB	2021-09-07	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2021-09-07	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2021-10-05	Acidity 4.5	mg/L	1	1	<1.0	<1.0	0.0	1.00
TB	2021-10-05	Acidity 8.3	mg/L	1	1	<1.0	<1.0	0.0	1.00
TB	2021-10-05	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
TB	2021-10-05	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
TB	2021-10-05	Al-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
TB	2021-10-05	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
TB	2021-10-05	Alkalinity Total as CaCO3	mg/L	1	1	3.6	3.6	0.0	1.00
TB	2021-10-05	Al-T	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
TB	2021-10-05	As-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2021-10-05	As-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2021-10-05	Ba-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2021-10-05	Ba-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2021-10-05	B-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2021-10-05	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2021-10-05	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2021-10-05	Bicarbonate	mg/L	1	1	4.3	4.3	0.0	1.00
TB	2021-10-05	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2021-10-05	Bi-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2021-10-05	B-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2021-10-05	Ca-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2021-10-05	Carbonate	mg/L	1	1	<1.0	<1.0	0.0	1.00
TB	2021-10-05	Ca-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2021-10-05	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
TB	2021-10-05	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
TB	2021-10-05	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
TB	2021-10-05	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
TB	2021-10-05	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2021-10-05	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2021-10-05	Cu-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
TB	2021-10-05	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
TB	2021-10-05	Fe-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
TB	2021-10-05	Fe-T	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
TB	2021-10-05	Hard-D	mg/L	0.5	0.5	<0.50	<0.50	0.0	1.00
TB	2021-10-05	Hardness (as CaCO3)	mg/L	0.5	0.5	<0.50	<0.50	0.0	1.00
TB	2021-10-05	Hydroxide	mg/L	1	1	<1.0	<1.0	0.0	1.00
TB	2021-10-05	K-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2021-10-05	K-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2021-10-05	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
TB	2021-10-05	Mg-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2021-10-05	Mg-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2021-10-05	Mn-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2021-10-05	Mn-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2021-10-05	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2021-10-05	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2021-10-05	Na-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2021-10-05	Na-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2021-10-05	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2021-10-05	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2021-10-05	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
TB	2021-10-05	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
TB	2021-10-05	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
TB	2021-10-05	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
TB	2021-10-05	S-D	mg/L	3	3	<3.0	<3.0	0.0	1.00
TB	2021-10-05	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2021-10-05	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2021-10-05	Si-D	mg/L	0.1	0.1	<0.10	<0.10	0.0	1.00
TB	2021-10-05	Si-T	mg/L	0.1	0.1	<0.10	<0.10	0.0	1.00
TB	2021-10-05	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
TB	2021-10-05	SO4-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
TB	2021-10-05	Sr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2021-10-05	Sr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2021-10-05	S-T	mg/L	3	3	<3.0	<3.0	0.0	1.00
TB	2021-10-05	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
TB	2021-10-05	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
TB	2021-10-05	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
TB	2021-10-05	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
TB	2021-10-05	TSS	mg/L	1.3	1.3	<1.3	<1.3	0.0	1.00
TB	2021-10-05	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2021-10-05	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2021-10-05	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00

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Table 54 Blanks 20 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)									
Stn.Code 1	Date	Parameter Name	Units	MDL 1	MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
TB	2021-10-05	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
TB	2021-10-05	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
TB	2021-10-05	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
TB	2021-10-05	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2021-10-05	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2022-01-24	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
TB	2022-01-24	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
TB	2022-01-24	Al-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
TB	2022-01-24	Al-T	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
TB	2022-01-24	As-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2022-01-24	As-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2022-01-24	Ba-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2022-01-24	Ba-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2022-01-24	B-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2022-01-24	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2022-01-24	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2022-01-24	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2022-01-24	Bi-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2022-01-24	B-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2022-01-24	Ca-D	mg/L	0.05	0.05	0.111	0.111	0.0	1.00
TB	2022-01-24	Ca-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2022-01-24	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
TB	2022-01-24	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
TB	2022-01-24	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
TB	2022-01-24	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
TB	2022-01-24	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2022-01-24	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2022-01-24	Cu-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
TB	2022-01-24	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
TB	2022-01-24	Fe-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
TB	2022-01-24	Fe-T	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
TB	2022-01-24	Hard-D	mg/L	0.5	0.5	<0.50	<0.50	0.0	1.00
TB	2022-01-24	Hardness (as CaCO3)	mg/L	0.5	0.5	<0.50	<0.50	0.0	1.00
TB	2022-01-24	K-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2022-01-24	K-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2022-01-24	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
TB	2022-01-24	Mg-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2022-01-24	Mg-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2022-01-24	Mn-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2022-01-24	Mn-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2022-01-24	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2022-01-24	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2022-01-24	Na-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2022-01-24	Na-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2022-01-24	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2022-01-24	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2022-01-24	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
TB	2022-01-24	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
TB	2022-01-24	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
TB	2022-01-24	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
TB	2022-01-24	S-D	mg/L	3	3	<3.0	<3.0	0.0	1.00
TB	2022-01-24	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2022-01-24	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2022-01-24	Si-D	mg/L	0.1	0.1	<0.10	<0.10	0.0	1.00
TB	2022-01-24	Si-T	mg/L	0.1	0.1	<0.10	<0.10	0.0	1.00
TB	2022-01-24	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
TB	2022-01-24	SO4-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
TB	2022-01-24	Sr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2022-01-24	Sr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2022-01-24	S-T	mg/L	3	3	<3.0	<3.0	0.0	1.00
TB	2022-01-24	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
TB	2022-01-24	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
TB	2022-01-24	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
TB	2022-01-24	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
TB	2022-01-24	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2022-01-24	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2022-01-24	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
TB	2022-01-24	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
TB	2022-01-24	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
TB	2022-01-24	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
TB	2022-01-24	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2022-01-24	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2022-02-14	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
TB	2022-02-14	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
TB	2022-02-14	Al-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
TB	2022-02-14	Al-T	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
TB	2022-02-14	As-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2022-02-14	As-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2022-02-14	Ba-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2022-02-14	Ba-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2022-02-14	B-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00

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Table 54 Blanks 20 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)									
Stn.Code 1	Date	Parameter Name	Units	MDL 1	MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
TB	2022-02-14	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2022-02-14	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2022-02-14	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2022-02-14	Bi-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2022-02-14	B-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2022-02-14	Ca-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2022-02-14	Ca-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2022-02-14	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
TB	2022-02-14	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
TB	2022-02-14	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
TB	2022-02-14	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
TB	2022-02-14	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2022-02-14	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2022-02-14	Cu-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
TB	2022-02-14	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
TB	2022-02-14	Fe-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
TB	2022-02-14	Fe-T	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
TB	2022-02-14	Hard-D	mg/L	0.5	0.5	<0.50	<0.50	0.0	1.00
TB	2022-02-14	Hardness (as CaCO3)	mg/L	0.5	0.5	<0.50	<0.50	0.0	1.00
TB	2022-02-14	K-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2022-02-14	K-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2022-02-14	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
TB	2022-02-14	Mg-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2022-02-14	Mg-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2022-02-14	Mn-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2022-02-14	Mn-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2022-02-14	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2022-02-14	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2022-02-14	Na-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2022-02-14	Na-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2022-02-14	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2022-02-14	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2022-02-14	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
TB	2022-02-14	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
TB	2022-02-14	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
TB	2022-02-14	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
TB	2022-02-14	S-D	mg/L	3	3	<3.0	<3.0	0.0	1.00
TB	2022-02-14	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2022-02-14	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2022-02-14	Si-D	mg/L	0.1	0.1	<0.10	<0.10	0.0	1.00
TB	2022-02-14	Si-T	mg/L	0.1	0.1	<0.10	<0.10	0.0	1.00
TB	2022-02-14	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
TB	2022-02-14	SO4-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
TB	2022-02-14	Sr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2022-02-14	Sr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2022-02-14	S-T	mg/L	3	3	<3.0	<3.0	0.0	1.00
TB	2022-02-14	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
TB	2022-02-14	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
TB	2022-02-14	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
TB	2022-02-14	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
TB	2022-02-14	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2022-02-14	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2022-02-14	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
TB	2022-02-14	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
TB	2022-02-14	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
TB	2022-02-14	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
TB	2022-02-14	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2022-02-14	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2022-03-07	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
TB	2022-03-07	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
TB	2022-03-07	Al-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
TB	2022-03-07	Al-T	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
TB	2022-03-07	As-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2022-03-07	As-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2022-03-07	Ba-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2022-03-07	Ba-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2022-03-07	B-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2022-03-07	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2022-03-07	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2022-03-07	Bi-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2022-03-07	Bi-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2022-03-07	B-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2022-03-07	Ca-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2022-03-07	Ca-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2022-03-07	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
TB	2022-03-07	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
TB	2022-03-07	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
TB	2022-03-07	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
TB	2022-03-07	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2022-03-07	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2022-03-07	Cu-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00

Appendix 1 - Annual Water Quality Monitoring Report 2021 - 2022

Table 54 Blanks 20 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)									
Stn.Code 1	Date	Parameter Name	Units	MDL 1	MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
TB	2022-03-07	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
TB	2022-03-07	Fe-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
TB	2022-03-07	Fe-T	mg/L	0.01	0.01	<0.010	<0.010	0.0	1.00
TB	2022-03-07	Hard-D	mg/L	0.5	0.5	<0.50	<0.50	0.0	1.00
TB	2022-03-07	Hardness (as CaCO3)	mg/L	0.5	0.5	<0.50	<0.50	0.0	1.00
TB	2022-03-07	K-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2022-03-07	K-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2022-03-07	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
TB	2022-03-07	Mg-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2022-03-07	Mg-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2022-03-07	Mn-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2022-03-07	Mn-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2022-03-07	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2022-03-07	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2022-03-07	Na-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2022-03-07	Na-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
TB	2022-03-07	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2022-03-07	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2022-03-07	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
TB	2022-03-07	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
TB	2022-03-07	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
TB	2022-03-07	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
TB	2022-03-07	S-D	mg/L	3	3	<3.0	<3.0	0.0	1.00
TB	2022-03-07	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2022-03-07	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2022-03-07	Si-D	mg/L	0.1	0.1	<0.10	<0.10	0.0	1.00
TB	2022-03-07	Si-T	mg/L	0.1	0.1	<0.10	<0.10	0.0	1.00
TB	2022-03-07	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
TB	2022-03-07	SO4-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
TB	2022-03-07	Sr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2022-03-07	Sr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
TB	2022-03-07	S-T	mg/L	3	3	<3.0	<3.0	0.0	1.00
TB	2022-03-07	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
TB	2022-03-07	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
TB	2022-03-07	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
TB	2022-03-07	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
TB	2022-03-07	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2022-03-07	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2022-03-07	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
TB	2022-03-07	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
TB	2022-03-07	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
TB	2022-03-07	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
TB	2022-03-07	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
TB	2022-03-07	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
Notes:									
Sample classes included in query: B									
Factor applied to less-than results when calculating statistics: 0.5									
Factor applied to greater-than results when calculating statistics: 1.0									