

Appendix 1 - Tables

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Table 1 Description of Effluent, In-Mine Releases and 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
	Groundwater surfacing with potential mine influence near QU1109	S	GW / SW
	Artesian spring with potential mine influence near QU1105	S2A	GW / SW
	Groundwater surfacing with potential mine influence near QU1105	S2US and S2B	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 and 242 influence	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
Long Lake Seep Passive Treatment System			
N/A	Groundwater well (2-South Mine Pool) influent to the Passive Treatment System (PTS)	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			

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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 `
There were no non-compliance's in Q2. Areas, S and S2 are considered perched groundwater tables.

Receiving Environment - Water Quality Guideline Observations

British Columbia Water Quality Guideline (BC WQG) - Freshwater Aquatic Life (FWAL)	Sample ID	Bureau Veritas Sample ID	Bureau Veritas Job ID	Parameter	Result	Criteria	DL	Units
BC WQG - FWAL CHRONIC (LONG TERM)	LLM9	Summer - Average of Five Consecutive Weeks of Results		Cu-D	0.00037	0.0003	0.0002	mg/L
	LLMB			Cu-D	0.00036	0.0002	0.0002	mg/L
	MQLB			Cu-D	0.00051	0.0003	0.0002	mg/L
	LLEZ2			Cu-D	0.0004	0.0002	0.0002	mg/L
	IR8			As-T	0.0062	0.005	0.0001	mg/L
Water Quality Objective Hypolimnetic Dissolved Oxygen (D.O.)	LLM (18 to 20) meters	N/A	N/A	D.O.	2.47 to 2.89	>3.00 mg/L	0	mg/L
Individual Results Compared to BC Chronic WQG's FWAL. Chronic guidelines are an average of five consecutive weeks of results. Results displayed are individual monthly results NOT averages. Displayed for comparison purposes only.	LLM9-9JUL24-M	CQY428	C451646	Cu-D	0.00035	0.0003	0.0002	mg/L
	LLM9-16JUL24-M	CRK584	C453822	Cu-D	0.00038	0.0002	0.0002	mg/L
	LLM9-23JUL24-M	CRX848	C455954	Cu-D	0.00037	0.0003	0.0002	mg/L
	LLM9-30JUL24-M	CSL101	C458165	Cu-D	0.00036	0.0002	0.0002	mg/L
	LLM9-7AUG24-M	CSW349	C460425	Cu-D	0.00037	0.0002	0.0002	mg/L
	LLMB-9JUL24-M	CQY429	C451646	Cu-D	0.00034	0.0003	0.0002	mg/L
	LLMB-16JUL24-M	CRK585	C453822	Cu-D	0.00038	0.0002	0.0002	mg/L
	LLMB-23JUL24-M	CRX851	C455954	Cu-D	0.00037	0.0002	0.0002	mg/L
	LLMB-30JUL24-M	CSL102	C458165	Cu-D	0.00036	0.0002	0.0002	mg/L
	LLMB-7AUG24-M	CSW350	C460425	Cu-D	0.00037	0.0002	0.0002	mg/L
	MQLB-9JUL24-M	CQY515	C451660	Cu-D	0.00051	0.0004	0.0002	mg/L
	MQLB-16JUL24-M	CRK612	C453827	Cu-D	0.00049	0.0004	0.0002	mg/L
	MQLB-23JUL24-M	CRX918	C455965	Cu-D	0.00051	0.0004	0.0002	mg/L
	MQLB-30JUL24-M	CSL174	C458175	Cu-D	0.00046	0.0003	0.0002	mg/L
	MQLB-7AUG24-M	CSW341	C460421	Cu-D	0.00059	0.0002	0.0002	mg/L
	WA-8JUL24-M	CQY494	C451658	Cu-D	0.00054	0.0005	0.0002	mg/L
	WA-8JUL24-R	CQY495	C451658	Cu-D	0.00055	0.0005	0.0002	mg/L
	NNO-8JUL24-M	CQY500	C451658	Cu-D	0.00045	0.0003	0.0002	mg/L
	75QR-6AUG24-M	CSW324	C460418	Cu-D	0.00043	0.0004	0.0002	mg/L
	75S-2JUL24-M	CQM812	C449407	Cu-D	0.00028	0.0002	0.0002	mg/L
	IR8-15JUL24-M	CRK564	C453813	Total Arsenic (As)	0.00617	0.005	0.0001	mg/L
	IR8-22JUL24-M	CRX746	C455940	Total Arsenic (As)	0.00838	0.005	0.0001	mg/L
	IR8-29JUL24-M	CSL178	C458176	Total Arsenic (As)	0.00683	0.005	0.0001	mg/L
	IR8-6AUG24-M	CSW331	C460418	Total Arsenic (As)	0.0063	0.005	0.0001	mg/L

Bold italic (0.0002) indicates the calculated criteria 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 chemistry.

Wetland and Shallow Groundwater Entering Receiving Environment - Water Quality Guideline Observations								
British Columbia Water Quality Guideline (BC WQG) - Freshwater Aquatic Life (FWAL)	Sample ID	Bureau Veritas Sample ID	Bureau Veritas Job ID	Parameter	Result	Criteria	DL	Units
BC WQG - FWAL CHRONIC (LONG TERM)	LLE	Rolling averages from Jun. 24 to Oct. 1		Sulphate (SO4)	238 to 340	128	5	mg/L
BC WQG - FWAL ACUTE (SHORT TERM)	LLE-7AUG24-M	CSW377	C460434	Total Iron (Fe)	1.03	1	0.01	mg/L
BC WQG - FWAL ACUTE (SHORT TERM)	LLE-9SEP24-M	CVG590	C471702	Dissolved Iron (Fe)	0.563	0.35	0.005	mg/L
BC WQG - FWAL ACUTE (SHORT TERM)	S2A-12AUG24-M	CTG382	C462170	Dissolved Iron (Fe)	0.427	0.35	0.005	mg/L
Individual Results Compared to BC Chronic WQG's FWAL. Chronic guidelines are an average of five consecutive weeks of results. Results displayed are individual monthly results NOT averages. Displayed for comparison purposes only.	S2A-3JUL24-M	CQO418	C449798	Total Arsenic (As)	0.0226	0.005	0.0001	mg/L
	S-3JUL24-M	CQO420	C449798	Total Arsenic (As)	0.0664	0.005	0.0001	mg/L
	S-7AUG24-M	CSW379	C460434	Total Arsenic (As)	0.0804	0.005	0.0001	mg/L
	S2A-12AUG24-M	CTG382	C462170	Total Arsenic (As)	0.0516	0.005	0.0001	mg/L
	S-9SEP24-M	CVG588	C471702	Total Arsenic (As)	0.0724	0.005	0.0001	mg/L
	S2A-10SEP24-M	CVG589	C471702	Total Arsenic (As)	0.0344	0.005	0.0001	mg/L
	S-3JUL24-M	CQO420	C449798	Total Boron (B)	1.4	1.2	0.05	mg/L
	S-9SEP24-M	CVG588	C471702	Total Boron (B)	1.46	1.2	0.05	mg/L
	S-7AUG24-M	CSW379	C460434	Total Boron (B)	1.71	1.2	0.05	mg/L
	LLE-2JUL24-M	CQM809	C449407	Sulphate (SO4)	210	128	5	mg/L
	LLE-8JUL24-M	CQY484	C451655	Sulphate (SO4)	150	128	5	mg/L
	LLE15JUL24-M	CRK555	C453812	Sulphate (SO4)	220	128	5	mg/L
	LLE-22JUL24-M	CRX779	C455947	Sulphate (SO4)	350	128	5	mg/L
	LLE-29JUL24-M	CSL118	C458167	Sulphate (SO4)	290	128	5	mg/L
	LLE-7AUG24-M	CSW377	C460434	Sulphate (SO4)	400	128	5	mg/L
	LLE-12AUG24-M	CTG336	C462152	Sulphate (SO4)	380	128	5	mg/L
	LLE-19AUG24-M	CTS820	C464464	Sulphate (SO4)	390	128	5	mg/L
	LLE-26AUG24-M	CUF110	C466735	Sulphate (SO4)	330	128	5	mg/L
	LLE-3SEP24-M	CUP713	C468729	Sulphate (SO4)	360	128	5	mg/L
	LLE-9SEP24-M	CVG590	C471702	Sulphate (SO4)	400	128	5	mg/L
	LLE-16SEP24-M	CVV065	C474203	Sulphate (SO4)	370	128	5	mg/L
	LLE-23SEP24-M	CWK847	C476565	Sulphate (SO4)	290	128	5	mg/L
	LLE-23SEP24-R	CWK848	C476565	Sulphate (SO4)	290	128	5	mg/L
	PDSR-2JUL24-M	CQM799	C449407	Sulphate (SO4)	690	128	10	mg/L

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

Ex-Situ Groundwater and In-Situ Flooded Mine Void Results Above CSR-AW										
Criteria Name	Sample Number	Site Name	Date	Bureau Veritas Sample ID	Bureau Veritas Job ID	Parameter	Criteria	Result	DL	Units
BC CSR Aquatic Life - LOW	QU1109S-3JUL24-M	QU1109S	03-Jul-24	CQO378	C449786	Dissolved Arsenic (As)	0.05	0.096	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1109S-3JUL24-M	QU1109S	03-Jul-24	CQO378	C449786	Sulphide (as H2S)	0.02	1.4	0.01	mg/L
BC CSR Aquatic Life - LOW	S-3JUL24-M	S	03-Jul-24	CQO420	C449798	Total Arsenic (As)	0.05	0.0664	0.0001	mg/L
BC CSR Aquatic Life - LOW	S-3JUL24-M	S	03-Jul-24	CQO420	C449798	Dissolved Arsenic (As)	0.05	0.0697	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1009D-17JUL24-M	QU1009D	17-Jul-24	CRM278	C454187	Dissolved Arsenic (As)	0.05	0.111	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1009D-17JUL24-M	QU1009D	17-Jul-24	CRM278	C454187	Sulphide (as H2S)	0.02	0.096	0.002	mg/L
BC CSR Aquatic Life - LOW	QU1009S-17JUL24-M	QU1009S	17-Jul-24	CRM279	C454187	Dissolved Arsenic (As)	0.05	0.0837	0.0001	mg/L
BC CSR Aquatic Life - LOW	7SA5-24JUL24-M	7SA5	24-Jul-24	CRZ806	C456316	Total Arsenic (As)	0.05	0.0577	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1410-24JUL24-M	QU1410	24-Jul-24	CRZ816	C456320	Dissolved Arsenic (As)	0.05	0.0995	0.0005	mg/L
BC CSR Aquatic Life - LOW	QU1410-24JUL24-M	QU1410	24-Jul-24	CRZ816	C456320	Sulphate (SO4)	1280	1800	25	mg/L
BC CSR Aquatic Life - LOW	QU1105D-31JUL24-M	QU1105D	31-Jul-24	CSN800	C458723	Dissolved Selenium (Se)	0.02	0.024	0.0005	mg/L
BC CSR Aquatic Life - LOW	QU1105D-31JUL24-M	QU1105D	31-Jul-24	CSN800	C458723	Sulphide (as H2S)	0.02	110	0.77	mg/L
BC CSR Aquatic Life - LOW	QU1105S-31JUL24-M	QU1105S	31-Jul-24	CSN801	C458723	Dissolved Arsenic (As)	0.05	0.0536	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU1105S-31JUL24-M	QU1105S	31-Jul-24	CSN801	C458723	Sulphide (as H2S)	0.02	0.21	0.002	mg/L
BC CSR Aquatic Life - LOW	242MW-13AUG24-M	242MW	13-Aug-24	CTG326	C462149	Dissolved Arsenic (As)	0.05	0.106	0.0001	mg/L
BC CSR Aquatic Life - LOW	S2A-12AUG24-M	S2A	12-Aug-24	CTG382	C462170	Total Arsenic (As)	0.05	0.0516	0.0001	mg/L
BC CSR Aquatic Life - LOW	S2A-12AUG24-M	S2A	12-Aug-24	CTG382	C462170	Dissolved Arsenic (As)	0.05	0.0549	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU0821GD-14AUG24-M	QU0821GD	14-Aug-24	CTI951	C462709	Dissolved Arsenic (As)	0.05	0.145	0.0005	mg/L
BC CSR Aquatic Life - LOW	QU0821GD-14AUG24-M	QU0821GD	14-Aug-24	CTI951	C462709	Sulphide (as H2S)	0.02	0.17	0.002	mg/L
BC CSR Aquatic Life - LOW	QU0821GS-14AUG24-M	QU0821GS	14-Aug-24	CTI952	C462709	Dissolved Arsenic (As)	0.05	0.178	0.0002	mg/L
BC CSR Aquatic Life - LOW	QU0821GS-14AUG24-M	QU0821GS	14-Aug-24	CTI952	C462709	Sulphide (as H2S)	0.02	0.075	0.002	mg/L
BC CSR Aquatic Life - LOW	1M2N-19AUG24-M	1M2N	19-Aug-24	CTS783	C464457	Sulphide (as H2S)	0.02	0.18	0.002	mg/L
BC CSR Aquatic Life - LOW	QU0813A-20AUG24-M	QU0813A	20-Aug-24	CTS847	C464470	Dissolved Arsenic (As)	0.05	0.325	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU0813A-20AUG24-M	QU0813A	20-Aug-24	CTS847	C464470	Sulphide (as H2S)	0.02	0.27	0.002	mg/L
BC CSR Aquatic Life - LOW	QU0808A-27AUG24-M	QU0808A	27-Aug-24	CUF040	C466718	Dissolved Arsenic (As)	0.05	0.306	0.0001	mg/L
BC CSR Aquatic Life - LOW	1M2N-16SEP24-M	1M2N	16-Sep-24	CVV024	C474195	Sulphide (as H2S)	0.02	0.31	0.002	mg/L
BC CSR Aquatic Life - LOW	5M#2-16SEP24-M	5M#2	16-Sep-24	CVV026	C474195	Sulphide (as H2S)	0.02	0.039	0.002	mg/L
BC CSR Aquatic Life - LOW	QU0813A-18SEP24-M	QU0813A	18-Sep-24	CVV047	C474197	Dissolved Arsenic (As)	0.05	0.366	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU0813A-18SEP24-M	QU0813A	18-Sep-24	CVV047	C474197	Sulphide (as H2S)	0.02	0.3	0.002	mg/L
BC CSR Aquatic Life - LOW	QU0516W-18SEP24-M	QU0516W	18-Sep-24	CVV048	C474197	Sulphide (as H2S)	0.02	0.6	0.01	mg/L
BC CSR Aquatic Life - LOW	QU0813A-07NOV24-M	QU0813A	07-Nov-24	DAH657	C492861	Dissolved Arsenic (As)	0.05	0.357	0.0001	mg/L
BC CSR Aquatic Life - LOW	QU0813A-07NOV24-M	QU0813A	07-Nov-24	DAH657	C492861	Sulphide (as H2S)	0.02	0.21	0.002	mg/L

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Table 5 Settling Pond # 4 - Authorized Discharge Location for North Mine Water 1 Page(s)

EMS ID	E207409	Stn Std	PL-N																
Site Description Settling Pond # 4 - Authorized Discharge Location for North Mine Water																			
Site Name	WD	Std Val																	
Date		Max	Min	02-07-2024	08-07-2024	15-07-2024	22-07-2024	29-07-2024	01-08-2024	06-08-2024	07-08-2024	12-08-2024	13-08-2024	19-08-2024	26-08-2024	03-09-2024	09-09-2024	16-09-2024	23-09-2024
Wlevel	m			0.051	0.058	0.054	0.048	0.039	0.041	0.0118	0.018	0.016	0.018	0.104	0.108	0.085	0.072	0.101	0.078
pH-F	pH Units	8.5	6	7.66	7.66	7.64	7.62	7.68		7.77		7.45		7.48	7.72	7.17	7.61	7.54	7.72
Cond-F	uS/cm			1701	1900	2050	2030	1971		1852		1945		1639	1440	1395	1682	1512	1608
SO4-D	mg/L			580	700	750	760	740		790		760		290	260	310	300	280	300
TSS	mg/L	25	0	<1.0	7.6	11	11	4.0		10		3.6		1.2	4.8	5.6	<1.0	2.4	1.6
Alk-T	mg/L			320						190							500		
Acidity83	mg/L			1.5						<1.0							1.5		
Al-T	mg/L			0.0103													<0.0030		
As-T	mg/L			0.00081													0.00142		
Ba-T	mg/L			0.0230													0.0206		
B-T	mg/L			0.826													0.782		
Cd-T	mg/L			<0.000010													<0.000010		
Ca-T	mg/L			142													74.9		
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			423													224		
Fe-T	mg/L			0.114													0.295		
Pb-T	mg/L			<0.00020													<0.00020		
Mg-T	mg/L			16.4													9.06		
Mn-T	mg/L			0.0286													0.0214		
Mo-T	mg/L			<0.0010													<0.0010		
Ni-T	mg/L			<0.0010													<0.0010		
K-T	mg/L			2.93													3.15		
S-T	mg/L			199													97.4		
Se-T	mg/L			<0.00010													<0.00010		
Si-T	mg/L			2.64													2.79		
Ag-T	mg/L			<0.000020													<0.000020		
Na-T	mg/L			203													235		
Sr-T	mg/L			1.28													0.862		
Zn-T	mg/L			<0.0050													<0.0050		
Al-D	mg/L	0.5	0	<0.0030						<0.0030							<0.0030		
As-D	mg/L			0.00072						0.00106							0.00087		
Ba-D	mg/L			0.0236						0.0221							0.0216		
B-D	mg/L			0.868						0.877							0.957		
Be-D	mg/L			<0.00010						<0.00010							<0.00010		
Cd-D	mg/L			0.000025						<0.000010							<0.000010		
Ca-D	mg/L			161						195							81.9		
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	0.00042						0.00026							<0.00020		
Hard-D	mg/L			477						592							239		
Fe-D	mg/L	0.3	0	0.0260						0.0339							0.0291		
Pb-D	mg/L	0.05	0	<0.00020						<0.00020							<0.00020		
Mg-D	mg/L			18.3						25.3							8.35		
Mn-D	mg/L			0.0271						0.0281							0.0213		
Mo-D	mg/L			<0.0010						<0.0010							<0.0010		
Ni-D	mg/L			<0.0010						<0.0010							<0.0010		
K-D	mg/L			3.17						3.67							3.23		
S-D	mg/L			216						287							102		
Se-D	mg/L			<0.00010						<0.00010							<0.00010		
Si-D	mg/L			2.55						4.59							2.89		
Na-D	mg/L			227						223							249		
Sr-D	mg/L			1.35						1.85							0.880		
Zn-D	mg/L	0.1	0	<0.0050						<0.0050							<0.0050		
O&G	mg/L	5	0							<1.0									
N-NH3	mg/L	1.0	0							<0.015							0.026		
P-T	mg/L									<0.0030							0.0037		

Appendix 1 - Tables

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			
Date		02-07-2024	06-08-2024	09-09-2024
SG	m	2.5	1.6	1.75
pH-F	pH Units	7.78	7.92	7.9
Cond-F	uS/cm	1590	1675	1811
SO4-D	mg/L	470	530	620
TSS	mg/L	1.2	2.0	2.0
Alk-T	mg/L	330	250	250
Acidity83	mg/L	<1.0	<1.0	<1.0
Al-T	mg/L	0.0064	0.0161	0.0067
As-T	mg/L	0.00130	0.00074	0.00048
Ba-T	mg/L	0.0158	0.0129	0.0126
B-T	mg/L	1.03	0.968	0.738
Cd-T	mg/L	<0.000010	<0.000010	<0.000010
Ca-T	mg/L	101	51.0	107
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	0.00173	<0.00050
Hard-T	mg/L	308	185	347
Fe-T	mg/L	0.628	0.073	0.031
Pb-T	mg/L	<0.00020	<0.00020	<0.00020
Mg-T	mg/L	13.5	14.0	19.2
Mn-T	mg/L	0.0305	0.0127	0.0047
Mo-T	mg/L	<0.0010	<0.0010	<0.0010
Ni-T	mg/L	<0.0010	<0.0010	<0.0010
K-T	mg/L	3.76	3.99	3.31
S-T	mg/L	162	180	195
Se-T	mg/L	<0.00010	<0.00010	<0.00010
Si-T	mg/L	2.64	0.92	2.04
Ag-T	mg/L	<0.000020	<0.000020	<0.000020
Na-T	mg/L	224	258	204
Sr-T	mg/L	1.02	0.936	1.24
Zn-T	mg/L	<0.0050	<0.0050	<0.0050
Al-D	mg/L	<0.0030	0.0043	0.0052
As-D	mg/L	0.00083	0.00068	0.00046
Ba-D	mg/L	0.0163	0.0142	0.0134
B-D	mg/L	1.03	1.11	0.907
Be-D	mg/L	<0.00010	<0.00010	<0.00010
Cd-D	mg/L	<0.000010	<0.000010	<0.000010
Ca-D	mg/L	106	53.2	118
Cr-D	mg/L	<0.0010	<0.0010	<0.0010
Co-D	mg/L	<0.00020	<0.00020	<0.00020
Cu-D	mg/L	0.00038	0.00162	0.00028
Hard-D	mg/L	327	195	371
Fe-D	mg/L	0.250	0.0247	0.0058
Pb-D	mg/L	<0.00020	<0.00020	<0.00020
Mg-D	mg/L	15.2	15.2	18.4
Mn-D	mg/L	0.0123	0.0110	0.0013
Mo-D	mg/L	<0.0010	<0.0010	<0.0010
Ni-D	mg/L	<0.0010	<0.0010	<0.0010
K-D	mg/L	4.04	4.29	3.50
S-D	mg/L	176	194	210
Se-D	mg/L	<0.00010	<0.00010	<0.00010
Si-D	mg/L	2.48	0.84	2.17
Na-D	mg/L	255	275	222
Sr-D	mg/L	1.08	1.09	1.30
Zn-D	mg/L	<0.0050	<0.0050	<0.0050

Appendix 1 - Tables

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

EMS ID		E283433		
Site Description		2-North Portal Sump Effluent		
Site Name		2NPS		
Date		02-07-2024	06-08-2024	09-09-2024
pH-F	pH Units	7.49	7.41	7.58
Cond-F	uS/cm	2000	2010	2032
SO4-D	mg/L	880	840	820
Alk-T	mg/L	290	320	320
Acidity83	mg/L	2.8	4.3	3.2
Al-T	mg/L	0.0405	0.0173	0.0297
As-T	mg/L	0.00058	0.00055	0.00065
Ba-T	mg/L	0.0119	0.0115	0.0113
B-T	mg/L	0.942	0.854	0.721
Cd-T	mg/L	0.000015	<0.000010	<0.000010
Ca-T	mg/L	230	239	208
Cr-T	mg/L	<0.0010	<0.0010	<0.0010
Co-T	mg/L	0.00078	0.00035	0.00058
Cu-T	mg/L	0.00089	0.00058	0.00074
Hard-T	mg/L	677	703	631
Fe-T	mg/L	0.215	0.212	0.260
Pb-T	mg/L	<0.00020	<0.00020	<0.00020
Mg-T	mg/L	24.9	25.5	27.1
Mn-T	mg/L	0.121	0.0791	0.110
Mo-T	mg/L	<0.0010	<0.0010	<0.0010
Ni-T	mg/L	0.0031	0.0017	0.0024
K-T	mg/L	3.43	3.35	3.29
S-T	mg/L	279	287	264
Se-T	mg/L	<0.00010	<0.00010	<0.00010
Si-T	mg/L	3.12	3.06	2.89
Ag-T	mg/L	<0.000020	<0.000020	<0.000020
Na-T	mg/L	175	194	185
Sr-T	mg/L	1.71	1.69	1.74
Zn-T	mg/L	<0.0050	<0.0050	<0.0050
Al-D	mg/L	0.0178	0.0081	0.0168
As-D	mg/L	0.00037	0.00038	0.00040
Ba-D	mg/L	0.0127	0.0126	0.0114
B-D	mg/L	0.92	1.05	0.95
Be-D	mg/L	<0.00020	<0.00020	<0.00020
Cd-D	mg/L	<0.000020	<0.000020	<0.000020
Ca-D	mg/L	262	249	234
Cr-D	mg/L	<0.0020	<0.0020	<0.0020
Co-D	mg/L	0.00083	<0.00040	0.00062
Cu-D	mg/L	0.00048	<0.00040	0.00047
Hard-D	mg/L	769	737	689
Fe-D	mg/L	0.014	0.025	0.014
Pb-D	mg/L	<0.00040	<0.00040	<0.00040
Mg-D	mg/L	28.0	27.6	25.3
Mn-D	mg/L	0.131	0.0837	0.121
Mo-D	mg/L	<0.0020	<0.0020	<0.0020
Ni-D	mg/L	0.0034	<0.0020	0.0028
K-D	mg/L	3.76	3.81	3.42
S-D	mg/L	310	307	263
Se-D	mg/L	<0.00020	<0.00020	<0.00020
Si-D	mg/L	3.37	3.23	2.99
Na-D	mg/L	202	206	201
Sr-D	mg/L	1.82	2.00	1.71
Zn-D	mg/L	<0.010	<0.010	<0.010

Appendix 1 - Tables

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

EMS ID		N/A
Site Description		Road Side Ditch Draining into MQL
Site Name		PDSR
Date		02-07-2024
pH-F	pH Units	7.43
Cond-F	uS/cm	1545
SO4-D	mg/L	690
TSS	mg/L	1.2
Al-T	mg/L	0.0079
Al-T (Chronic WQG)	mg/L	0.022
As-T	mg/L	0.00011
Ba-T	mg/L	0.0253
B-T	mg/L	0.503
Cd-T	mg/L	<0.000010
Ca-T	mg/L	237
Cr-T	mg/L	<0.0010
Co-T	mg/L	<0.00020
Cu-T	mg/L	0.00057
Hard-T	mg/L	753
Fe-T	mg/L	<0.010
Pb-T	mg/L	<0.00020
Mg-T	mg/L	38.9
Mn-T	mg/L	0.0014
Mo-T	mg/L	<0.0010
Ni-T	mg/L	<0.0010
K-T	mg/L	1.73
S-T	mg/L	235
Se-T	mg/L	<0.00010
Si-T	mg/L	4.73
Ag-T	mg/L	<0.000020
Na-T	mg/L	48.2
Sr-T	mg/L	1.56
Zn-T	mg/L	<0.0050
Al-D	mg/L	0.0078
As-D	mg/L	<0.00020
Ba-D	mg/L	0.0260
B-D	mg/L	0.55
Be-D	mg/L	<0.00020
Cd-D	mg/L	<0.000020
Ca-D	mg/L	263
Cr-D	mg/L	<0.0020
Co-D	mg/L	<0.00040
Cu-D	mg/L	0.00047
Hard-D	mg/L	828
Fe-D	mg/L	<0.010
Pb-D	mg/L	<0.00040
Mg-D	mg/L	41.4
Mn-D	mg/L	<0.0020
Mo-D	mg/L	<0.0020
Ni-D	mg/L	<0.0020
K-D	mg/L	1.71
S-D	mg/L	246
Se-D	mg/L	<0.00020
Si-D	mg/L	4.60
Na-D	mg/L	51.3
Sr-D	mg/L	1.55
Zn-D	mg/L	<0.010

Appendix 1 - Tables

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			
Date		02-07-2024	02-07-2024	06-08-2024	09-09-2024
pH-F	pH Units	8.28	8.28	7.84	8.26
Cond-F	uS/cm	1256	1256	1660	1388
SO4-D	mg/L	330	320	610	310
TSS	mg/L	<1.0	<1.0	<1.0	<1.0
Al-T	mg/L	0.0039	0.0035		0.0047
As-T	mg/L	0.00052	0.00056		0.00063
Ba-T	mg/L	0.0150	0.0149		0.0142
B-T	mg/L	0.696	0.751		0.786
Cd-T	mg/L	<0.000010	<0.000010		<0.000010
Ca-T	mg/L	69.1	69.6		56.0
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	210	210		179
Fe-T	mg/L	0.031	0.030		0.042
Pb-T	mg/L	<0.00020	<0.00020		<0.00020
Mg-T	mg/L	9.15	8.89		9.48
Mn-T	mg/L	0.0156	0.0155		0.0105
Mo-T	mg/L	<0.0010	<0.0010		<0.0010
Ni-T	mg/L	<0.0010	<0.0010		<0.0010
K-T	mg/L	2.57	2.59		3.16
S-T	mg/L	106	105		100
Se-T	mg/L	<0.00010	<0.00010		<0.00010
Si-T	mg/L	3.49	3.53		3.06
Ag-T	mg/L	<0.000020	<0.000020		<0.000020
Na-T	mg/L	175	170		237
Sr-T	mg/L	0.788	0.782		0.795
Zn-T	mg/L	<0.0050	<0.0050		<0.0050
Al-D	mg/L	0.0030	0.0036		<0.0030
As-D	mg/L	0.00050	0.00052		0.00062
Ba-D	mg/L	0.0160	0.0160		0.0149
B-D	mg/L	0.817	0.862		0.986
Be-D	mg/L	<0.00010	<0.00010		<0.00010
Cd-D	mg/L	<0.000010	<0.000010		<0.000010
Ca-D	mg/L	79.0	78.2		62.6
Cr-D	mg/L	<0.0010	<0.0010		<0.0010
Co-D	mg/L	<0.00020	<0.00020		<0.00020
Cu-D	mg/L	0.00025	0.00027		<0.00020
Hard-D	mg/L	241	239		192
Fe-D	mg/L	0.0211	0.0227		0.0136
Pb-D	mg/L	<0.00020	<0.00020		<0.00020
Mg-D	mg/L	10.7	10.5		8.70
Mn-D	mg/L	0.0163	0.0164		0.0107
Mo-D	mg/L	<0.0010	<0.0010		<0.0010
Ni-D	mg/L	<0.0010	<0.0010		<0.0010
K-D	mg/L	2.85	2.79		3.21
S-D	mg/L	118	116		103
Se-D	mg/L	<0.00010	<0.00010		<0.00010
Si-D	mg/L	3.60	3.56		3.36
Na-D	mg/L	203	200		248
Sr-D	mg/L	0.843	0.871		0.817
Zn-D	mg/L	<0.0050	<0.0050		<0.0050

Appendix 1 - Tables

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

EMS ID	E218582	Stn Std PL-S															
Site Description																	
Settling Pond #1 - Authorized Discharge Location for South Mine Water																	
Site Name	SPD	Std Val															
Date		Max	Min	02-07-2024	03-07-2024	08-07-2024	15-07-2024	22-07-2024	29-07-2024	07-08-2024	12-08-2024	19-08-2024	26-08-2024	03-09-2024	09-09-2024	16-09-2024	23-09-2024
Wievel	m			0.023	0.09	0.002	0	-0.04	0	0.0009	-0.02	0.02	0.017	0	-0.01	0.000129	0.06
pH-F	pH Units	8.5	6	7.57		7.54	7.59	7.49	7.69	7.75	7.63	7.51	7.66	7.27	7.73	7.69	7.73
Cond-F	uS/cm			943		943	962	963	907	933	941	949	934	971	1116	993	1111
SO4-D	mg/L			380		360	350	360	350	370	360	380	360	400	380	370	430
TSS	mg/L	25		1.6		3.2	1.2	1.6	<1.0	<1.0	1.2	1.6	3.6	1.6	1.2	1.2	1.6
Alk-T	mg/L			110						120					120		
Acidity83	mg/L			1.1						<1.0					<1.0		
Al-T	mg/L			0.0111											0.0154		
As-T	mg/L			0.00194											0.00309		
Ba-T	mg/L			0.0127											0.0147		
B-T	mg/L			0.346											0.324		
Cd-T	mg/L			<0.000010											<0.000010		
Ca-T	mg/L			130											128		
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			382											398		
Fe-T	mg/L			0.126											0.182		
Pb-T	mg/L			<0.00020											<0.00020		
Mg-T	mg/L			14.3											18.9		
Mn-T	mg/L			0.0392											0.0676		
Mo-T	mg/L			<0.0010											<0.0010		
Ni-T	mg/L			<0.0010											<0.0010		
K-T	mg/L			1.42											1.72		
S-T	mg/L			127											132		
Se-T	mg/L			<0.00010											<0.00010		
Si-T	mg/L			2.18											4.29		
Ag-T	mg/L			<0.000020											<0.000020		
Na-T	mg/L			38.8											40.2		
Sr-T	mg/L			0.975											1.05		
Zn-T	mg/L			0.0100											0.0055		
Al-D	mg/L	0.5		0.0098						<0.0030					<0.0030		
As-D	mg/L			0.00181						0.00359					0.00284		
Ba-D	mg/L			0.0134						0.0165					0.0146		
B-D	mg/L			0.349						0.399					0.345		
Be-D	mg/L			<0.00010						<0.00010					<0.00010		
Cd-D	mg/L			<0.000010						<0.000010					<0.000010		
Ca-D	mg/L			138						137					139		
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		0.00028						<0.00020					<0.00020		
Hard-D	mg/L			412						412					420		
Fe-D	mg/L	0.5		0.0848						0.177					0.0895		
Pb-D	mg/L	0.05		<0.00020						<0.00020					<0.00020		
Mg-D	mg/L			16.1						17.2					17.9		
Mn-D	mg/L			0.0534						0.0723					0.0675		
Mo-D	mg/L			<0.0010						<0.0010					<0.0010		
Ni-D	mg/L			<0.0010						<0.0010					<0.0010		
K-D	mg/L			1.45						1.79					1.74		
S-D	mg/L			140						140					129		
Se-D	mg/L			<0.00010						<0.00010					<0.00010		
Si-D	mg/L			2.26						3.78					4.36		
Na-D	mg/L			44.4						44.3					43.4		
Sr-D	mg/L			1.04						1.14					1.04		
Zn-D	mg/L	0.2		0.0218						<0.0050					<0.0050		
O&G	mg/L	2								<1.0							
N-NH3	mg/L	1.0								0.029					0.059		
P-T	mg/L									0.011					0.0083		

Appendix 1 - Tables

Table 11 Passive Treatment System (PTS) Influent from 2-S Mine Pool 1 Page(s)

Site Description		Passive Treatment System (PTS) Influent from 2-S Mine Pool																
Site Name	INF																	
Date		02-07-2024	08-07-2024	11-07-2024	15-07-2024	22-07-2024	25-07-2024	29-07-2024	07-08-2024	12-08-2024	12-08-2024	19-08-2024	26-08-2024	03-09-2024	03-09-2024	09-09-2024	16-09-2024	23-09-2024
Flow	m3/s		0.0078	0.0043	0.0043	0.0042	0.0041	0.0041	0.0041	0.0041	0.0041	0.004		0.002	0.002	0.002	7	0.0041
pH-F	pH Units	7.07	6.99		6.99	7.01		7.07	7	7.11	7.11	7.08	7.1	6.56	6.56	6.98	7	7.02
Cond-F	uS/cm	1579	1686		1723	1670		1552	1605	1613	1613	1633	1540	1622	1622	1807	1629	1649
H2S	mg/L	0.016	<0.0020		<0.0020	<0.0020		<0.0020	0.0051	0.0068	<0.0020	0.0068	0.0041	0.0046	<0.0020	0.0041	0.0046	0.0035
SO4-D	mg/L	610	620		570	610		570	600	590	590	600	590	620	610	600	530	590
TSS	mg/L	8.8							6.4							6.4		
Alk-T	mg/L	250							270							270		
Acidity83	mg/L	7.4							<1.0							4.8		
Al-T	mg/L	0.0046							<0.0030							<0.0030		
As-T	mg/L	0.00568							0.00370							0.00405		
Ba-T	mg/L	0.0191							0.0177							0.0178		
B-T	mg/L	0.801							0.670							0.595		
Cd-T	mg/L	0.000018							<0.000010							<0.000010		
Ca-T	mg/L	231							228							215		
Cr-T	mg/L	<0.0010							<0.0010							<0.0010		
Co-T	mg/L	0.00055							0.00048							0.00045		
Cu-T	mg/L	<0.00050							<0.00050							<0.00050		
Hard-T	mg/L	644							632							605		
Fe-T	mg/L	5.27							2.91							2.88		
Pb-T	mg/L	<0.00020							<0.00020							<0.00020		
Mg-T	mg/L	16.1							15.5							16.8		
Mn-T	mg/L	0.394							0.350							0.350		
Mo-T	mg/L	<0.0010							<0.0010							<0.0010		
Ni-T	mg/L	<0.0010							<0.0010							<0.0010		
K-T	mg/L	2.02							1.78							1.82		
S-T	mg/L	213							208							204		
Se-T	mg/L	<0.00010							<0.00010							<0.00010		
Si-T	mg/L	3.49							3.08							2.99		
Ag-T	mg/L	<0.000020							<0.000020							<0.000020		
Na-T	mg/L	99.4							100							98.0		
Sr-T	mg/L	2.21							2.03							2.17		
Zn-T	mg/L	<0.0050							<0.0050							<0.0050		
Al-D	mg/L	<0.0030							<0.0060							0.0610		
As-D	mg/L	0.00447							0.00392							0.00390		
Ba-D	mg/L	0.0194							0.0204							0.0188		
B-D	mg/L	0.836							0.84							0.75		
Be-D	mg/L	<0.00010							<0.00020							<0.00020		
Cd-D	mg/L	<0.000010							<0.000020							<0.000020		
Ca-D	mg/L	239							243							230		
Cr-D	mg/L	<0.0010							<0.0020							<0.0020		
Co-D	mg/L	0.00057							0.00049							0.00049		
Cu-D	mg/L	<0.00020							<0.00040							<0.00040		
Hard-D	mg/L	666							678							640		
Fe-D	mg/L	4.94							3.21							3.07		
Pb-D	mg/L	<0.00020							<0.00040							<0.00040		
Mg-D	mg/L	16.7							17.3							16.0		
Mn-D	mg/L	0.396							0.440							0.359		
Mo-D	mg/L	<0.0010							<0.0020							<0.0020		
Ni-D	mg/L	<0.0010							<0.0020							<0.0020		
K-D	mg/L	2.01							2.07							1.76		
S-D	mg/L	220							235							207		
Se-D	mg/L	0.00040							0.00045							<0.00020		
Si-D	mg/L	3.49							3.37							2.94		
Na-D	mg/L	105							110							103		
Sr-D	mg/L	2.24							2.49							2.06		
Zn-D	mg/L	<0.0050							<0.010							<0.010		

Appendix 1 - Tables

Table 12 PTS Biochemical Reactor Cell 1 Page(s)

Passive Treatment System Biochemical Reactor Cell																
Site Description																
Site Name		BCR														
Date		02-07-2024	08-07-2024	15-07-2024	18-07-2024	22-07-2024	29-07-2024	07-08-2024	12-08-2024	19-08-2024	26-08-2024	26-08-2024	03-09-2024	09-09-2024	16-09-2024	23-09-2024
Flow	m ³ /s				0.0043	0.0043	0.0043	0.0041	0.0041	0.004	0.0038	0.0038	4.1		0.0041	0.0041
pH-F	pH Units	7.06	7.02	6.99		6.99	7.07	7.02	7.04	7.03	7.06	7.06	6.52	7.04	7.06	7.05
Cond-F	uS/cm	1568	1612	1566		1556	1461	1527	1540	1521	1488	1488	1506	1597	1546	1546
H2S	mg/L	20	9.3	37		34	28	43	27	35	23	22	28	39	43	29
SO4-D	mg/L	560	540	500		520	510	500	500	530	540	540	550	490	480	510
TSS	mg/L	1.2						1.6						3.6		
Alk-T	mg/L	270						330						340		
Acidity83	mg/L	5.6						<1.0						5.8		
Al-T	mg/L	0.0046						0.0097					0.0097	0.0052		
As-T	mg/L	<0.00010						<0.00010						0.00017		
Ba-T	mg/L	0.0252						0.0237						0.0240		
B-T	mg/L	0.770						0.710						0.611		
Cd-T	mg/L	<0.000010						<0.000010						<0.000010		
Ca-T	mg/L	220						212						204		
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						578		
Fe-T	mg/L	<0.010						<0.010						<0.010		
Pb-T	mg/L	<0.00020						<0.00020						<0.00020		
Mg-T	mg/L	15.6						15.1						17.0		
Mn-T	mg/L	0.177						0.189						0.227		
Mo-T	mg/L	<0.0010						<0.0010						<0.0010		
Ni-T	mg/L	<0.0010						<0.0010						<0.0010		
K-T	mg/L	1.88						1.80						1.89		
S-T	mg/L	194						179						169		
Se-T	mg/L	<0.00010						<0.00010						<0.00010		
Si-T	mg/L	3.53						3.68						3.86		
Ag-T	mg/L	<0.000020						<0.000020						<0.000020		
Na-T	mg/L	96.0						97.9						98.4		
Sr-T	mg/L	2.14						1.94						2.15		
Zn-T	mg/L	<0.0050						<0.0050						<0.0050		
Al-D	mg/L	0.0040						0.0108						0.0069		
As-D	mg/L	<0.00010						<0.00020						<0.00020		
Ba-D	mg/L	0.0259						0.0279						0.0255		
B-D	mg/L	0.774						0.89						0.72		
Be-D	mg/L	<0.00010						<0.00020						<0.00020		
Cd-D	mg/L	<0.000010						<0.000020						<0.000020		
Ca-D	mg/L	230						220						219		
Cr-D	mg/L	<0.0010						<0.0020						<0.0020		
Co-D	mg/L	<0.00020						<0.00040						<0.00040		
Cu-D	mg/L	<0.00020						<0.00040						<0.00040		
Hard-D	mg/L	647						615						613		
Fe-D	mg/L	0.0063						<0.010						<0.010		
Pb-D	mg/L	<0.00020						<0.00040						<0.00040		
Mg-D	mg/L	17.3						15.8						16.0		
Mn-D	mg/L	0.193						0.219						0.232		
Mo-D	mg/L	<0.0010						<0.0020						<0.0020		
Ni-D	mg/L	<0.0010						<0.0020						<0.0020		
K-D	mg/L	1.99						1.98						1.87		
S-D	mg/L	467						433						183		
Se-D	mg/L	0.0183						0.0639						0.00483		
Si-D	mg/L	3.67						4.08						3.81		
Na-D	mg/L	98.9						101						104		
Sr-D	mg/L	2.24						2.47						2.05		
Zn-D	mg/L	<0.0050						<0.010						<0.010		

Appendix 1 - Tables

Table 13 2 South Pit Inflow 1 Page(s)

Site Description		2 South Pit Inflow												
Site Name	2SI													
Date		02-07-2024	08-07-2024	15-07-2024	22-07-2024	29-07-2024	12-08-2024	19-08-2024	26-08-2024	03-09-2024	09-09-2024	16-09-2024	16-09-2024	23-09-2024
pH-F	pH Units	7.55	7.75	7.76	7.85	7.84	7.87	7.85	7.83	7.36	7.89	7.88	7.88	7.89
Cond-F	uS/cm	1048	1497	1488	1536	1410	1489	1526	1442	1520	1685	1493	1493	1496
H2S	mg/L	0.078	0.047	0.0051	0.013	0.054	0.0094	0.020	0.016	0.012	0.019	0.016	0.021	0.022
SO4-D	mg/L	460	540	500	530	510	520	530	520	560	510	480	490	520
TSS	mg/L										2.4			
Alk-T	mg/L	190									300			
Acidity83	mg/L	1.2									<1.0			
Al-T	mg/L	0.0078									0.0036			
As-T	mg/L	0.00045									0.00068			
Ba-T	mg/L	0.0203									0.0269			
B-T	mg/L	0.635									0.568			
Cd-T	mg/L	<0.000010									<0.000010			
Ca-T	mg/L	170									196			
Cr-T	mg/L	<0.0010									<0.0010			
Co-T	mg/L	0.00024									0.00044			
Cu-T	mg/L	<0.00050									<0.00050			
Hard-T	mg/L	477									557			
Fe-T	mg/L	0.271									0.321			
Pb-T	mg/L	<0.00020									<0.00020			
Mg-T	mg/L	12.6									16.8			
Mn-T	mg/L	0.259									0.375			
Mo-T	mg/L	<0.0010									<0.0010			
Ni-T	mg/L	<0.0010									<0.0010			
K-T	mg/L	1.30									1.75			
S-T	mg/L	153									176			
Se-T	mg/L	<0.00010									<0.00010			
Si-T	mg/L	4.07									4.03			
Ag-T	mg/L	<0.000020									<0.000020			
Na-T	mg/L	70.9									96.8			
Sr-T	mg/L	1.56									2.01			
Zn-T	mg/L	<0.0050									<0.0050			
Al-D	mg/L	0.0115									<0.0030			
As-D	mg/L	0.00026									0.00058			
Ba-D	mg/L	0.0167									0.0286			
B-D	mg/L	0.519									0.70			
Be-D	mg/L	<0.00010									<0.00020			
Cd-D	mg/L	<0.000010									<0.000020			
Ca-D	mg/L	145									212			
Cr-D	mg/L	<0.0010									0.0020			
Co-D	mg/L	0.00021									0.00048			
Cu-D	mg/L	0.00023									<0.00040			
Hard-D	mg/L	406									596			
Fe-D	mg/L	0.0888									0.100			
Pb-D	mg/L	<0.00020									<0.00040			
Mg-D	mg/L	10.9									16.5			
Mn-D	mg/L	0.207									0.400			
Mo-D	mg/L	<0.0010									<0.0020			
Ni-D	mg/L	<0.0010									<0.0020			
K-D	mg/L	1.04									1.68			
S-D	mg/L	128									178			
Se-D	mg/L	<0.00010									<0.00020			
Si-D	mg/L	4.42									4.08			
Na-D	mg/L	59.4									104			
Sr-D	mg/L	1.22									1.89			
Zn-D	mg/L	<0.0050									<0.010			

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Table 14 PTS Sulphide Polishing Cell 1 Page(s)

Site Description											
Passive Treatment System Sulphide Polishing Cell											
Site Name		SPCEFF									
Date		02-07-2024	15-07-2024	22-07-2024	07-08-2024	12-08-2024	19-08-2024	26-08-2024	03-09-2024	09-09-2024	23-09-2024
pH-F	pH Units	7.66	7.43	7.47	7.57	7.56	7.45	7.56	7.07	7.56	7.68
Cond-F	uS/cm	1313	1530	1554	1369	1348	1399	1321	1337	1398	1386
H2S	mg/L	0.0052	0.21	0.039	<0.0020	0.0030	0.011	0.0057	0.0030	0.0057	0.0062
SO4-D	mg/L	430	480	500	460	440	440	420	440	410	390
TSS	mg/L	5.2			1.2					6.0	
Alk-T	mg/L	290			300					310	
Acidity83	mg/L	1.9			2.0					3.0	
Al-T	mg/L	0.0098			0.0098					0.0193	
As-T	mg/L	0.00135			0.00122					0.00146	
Ba-T	mg/L	0.0161			0.0258					0.0194	
B-T	mg/L	0.770			0.760					0.648	
Cd-T	mg/L	<0.000010			<0.000010					<0.000010	
Ca-T	mg/L	176			183					163	
Cr-T	mg/L	<0.0010			<0.0010					<0.0010	
Co-T	mg/L	0.00024			<0.00020					<0.00020	
Cu-T	mg/L	0.00436			0.00251					0.0102	
Hard-T	mg/L	499			522					474	
Fe-T	mg/L	0.261			0.224					0.387	
Pb-T	mg/L	<0.00020			<0.00020					<0.00020	
Mg-T	mg/L	14.4			15.7					16.1	
Mn-T	mg/L	0.0215			0.0142					0.0269	
Mo-T	mg/L	<0.0010			<0.0010					<0.0010	
Ni-T	mg/L	<0.0010			<0.0010					<0.0010	
K-T	mg/L	1.23			1.74					1.70	
S-T	mg/L	147			168					144	
Se-T	mg/L	<0.00010			<0.00010					<0.00010	
Si-T	mg/L	2.86			2.35					2.91	
Ag-T	mg/L	<0.000020			<0.000020					<0.000020	
Na-T	mg/L	90.3			102					97.4	
Sr-T	mg/L	1.95			2.00					1.99	
Zn-T	mg/L	<0.0050			<0.0050					0.0107	
Al-D	mg/L	0.0082			0.0091					0.0079	
As-D	mg/L	0.00116			0.00109					0.00119	
Ba-D	mg/L	0.0159			0.0280					0.0193	
B-D	mg/L	0.840			0.872					0.734	
Be-D	mg/L	<0.00010			<0.00010					<0.00010	
Cd-D	mg/L	<0.000010			<0.000010					<0.000010	
Ca-D	mg/L	188			196					176	
Cr-D	mg/L	<0.0010			<0.0010					<0.0010	
Co-D	mg/L	0.00022			<0.00020					<0.00020	
Cu-D	mg/L	0.00213			0.00157					0.00113	
Hard-D	mg/L	533			558					500	
Fe-D	mg/L	0.113			0.0520					0.155	
Pb-D	mg/L	<0.00020			<0.00020					<0.00020	
Mg-D	mg/L	15.6			16.7					15.1	
Mn-D	mg/L	0.0154			0.0105					0.0197	
Mo-D	mg/L	<0.0010			<0.0010					<0.0010	
Ni-D	mg/L	<0.0010			<0.0010					<0.0010	
K-D	mg/L	1.30			1.99					1.66	
S-D	mg/L	156			178					142	
Se-D	mg/L	0.00075			0.00029					<0.00010	
Si-D	mg/L	3.02			2.49					2.99	
Na-D	mg/L	99.5			109					101	
Sr-D	mg/L	2.08			2.38					1.95	
Zn-D	mg/L	<0.0050			<0.0050					<0.0050	

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

EMS ID		E292127			
Site Description		2-South Pit in Pit Water Cover Over PAG-CCR			
Site Name		2S			
Date		02-07-2024	07-08-2024	09-09-2024	09-09-2024
pH-F	pH Units	8.11	8.02	7.45	7.45
Cond-F	uS/cm	1120	1206	1350	1350
SO4-D	mg/L	460	490	530	540
Alk-T	mg/L	140	140	160	160
Acidity83	mg/L	<1.0	<1.0	<1.0	<1.0
Al-T	mg/L	0.0078	<0.0030	0.0044	0.0046
As-T	mg/L	0.00029	0.00064	0.00558	0.00569
Ba-T	mg/L	0.0171	0.0180	0.0168	0.0177
B-T	mg/L	0.525	0.611	0.496	0.495
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010
Ca-T	mg/L	147	158	168	169
Cr-T	mg/L	0.0076	<0.0010	<0.0010	<0.0010
Co-T	mg/L	<0.00020	<0.00020	0.00121	0.00121
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050
Hard-T	mg/L	420	456	505	509
Fe-T	mg/L	0.093	0.073	0.352	0.446
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	0.00066
Mg-T	mg/L	12.5	14.9	20.8	21.0
Mn-T	mg/L	0.0131	0.0198	0.214	0.218
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010
Ni-T	mg/L	0.0014	<0.0010	0.0011	0.0012
K-T	mg/L	1.24	1.47	2.02	1.99
S-T	mg/L	155	178	179	181
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010
Si-T	mg/L	3.48	4.32	3.22	3.24
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020
Na-T	mg/L	70.1	87.6	72.0	72.1
Sr-T	mg/L	1.49	1.69	1.44	1.46
Zn-T	mg/L	<0.0050	<0.0050	0.0084	0.0082
Al-D	mg/L	<0.0030	<0.0030	<0.0030	<0.0030
As-D	mg/L	0.00027	0.00064	0.00457	0.00440
Ba-D	mg/L	0.0177	0.0194	0.0175	0.0169
B-D	mg/L	0.622	0.661	0.565	0.563
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	163	160	180	184
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010
Co-D	mg/L	<0.00020	<0.00020	0.00130	0.00128
Cu-D	mg/L	0.00022	<0.00020	<0.00020	<0.00020
Hard-D	mg/L	462	462	529	538
Fe-D	mg/L	0.0224	0.0371	0.0594	0.0695
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020
Mg-D	mg/L	13.5	15.2	19.6	19.4
Mn-D	mg/L	0.0108	0.0147	0.217	0.215
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010
Ni-D	mg/L	<0.0010	<0.0010	0.0011	0.0012
K-D	mg/L	1.34	1.65	1.96	1.96
S-D	mg/L	168	185	184	177
Se-D	mg/L	<0.00010	0.00012	<0.00010	<0.00010
Si-D	mg/L	3.53	4.28	3.26	3.26
Na-D	mg/L	77.4	89.3	76.2	76.3
Sr-D	mg/L	1.58	1.92	1.44	1.42
Zn-D	mg/L	<0.0050	<0.0050	0.0063	0.0071

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

EMS ID				
Site Description 2-South Outflow Culvert into 3-South Pit				
Site Name 2SC				
Date		02-07-2024	07-08-2024	09-09-2024
pH-F	pH Units	7.81	7.87	7.98
Cond-F	uS/cm	1471	1468	1612
SO4-D	mg/L	610	610	670
Alk-T	mg/L	200	210	200
Acidity83	mg/L	<1.0	<1.0	<1.0
Al-T	mg/L	<0.0030	<0.0060	<0.0060
As-T	mg/L	0.00023	0.00029	0.00032
Ba-T	mg/L	0.0140	0.0148	0.0146
B-T	mg/L	0.471	0.48	0.46
Cd-T	mg/L	<0.000010	<0.000020	<0.000020
Ca-T	mg/L	238	251	245
Cr-T	mg/L	<0.0010	<0.0020	<0.0020
Co-T	mg/L	<0.00020	<0.00040	<0.00040
Cu-T	mg/L	0.00057	<0.0010	<0.0010
Hard-T	mg/L	703	741	744
Fe-T	mg/L	0.010	<0.020	<0.020
Pb-T	mg/L	<0.00020	<0.00040	<0.00040
Mg-T	mg/L	26.4	27.8	32.0
Mn-T	mg/L	0.0039	0.0062	0.0031
Mo-T	mg/L	<0.0010	<0.0020	<0.0020
Ni-T	mg/L	<0.0010	<0.0020	<0.0020
K-T	mg/L	2.10	2.14	2.46
S-T	mg/L	210	223	232
Se-T	mg/L	0.00026	0.00026	0.00022
Si-T	mg/L	3.05	2.79	2.65
Ag-T	mg/L	<0.000020	<0.000040	<0.000040
Na-T	mg/L	40.9	52.5	55.5
Sr-T	mg/L	1.42	1.50	1.61
Zn-T	mg/L	<0.0050	<0.010	<0.010
Al-D	mg/L	<0.0060	<0.0060	<0.015
As-D	mg/L	0.00022	0.00026	<0.00050
Ba-D	mg/L	0.0147	0.0163	0.0149
B-D	mg/L	0.53	0.41	0.46
Be-D	mg/L	<0.00020	<0.00020	<0.00050
Cd-D	mg/L	<0.000020	<0.000020	<0.000050
Ca-D	mg/L	267	260	249
Cr-D	mg/L	<0.0020	<0.0020	<0.0050
Co-D	mg/L	<0.00040	<0.00040	<0.0010
Cu-D	mg/L	<0.00040	<0.00040	<0.0010
Hard-D	mg/L	788	771	743
Fe-D	mg/L	<0.010	<0.010	<0.025
Pb-D	mg/L	<0.00040	<0.00040	<0.0010
Mg-D	mg/L	29.6	29.4	29.4
Mn-D	mg/L	0.0037	0.0057	<0.0050
Mo-D	mg/L	<0.0020	<0.0020	<0.0050
Ni-D	mg/L	<0.0020	<0.0020	<0.0050
K-D	mg/L	2.10	2.34	2.41
S-D	mg/L	227	221	237
Se-D	mg/L	0.00031	0.00029	<0.00050
Si-D	mg/L	3.15	2.58	2.68
Na-D	mg/L	46.5	53.5	54.4
Sr-D	mg/L	1.51	1.50	1.42
Zn-D	mg/L	<0.010	<0.010	<0.025

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		
Date		02-07-2024	07-08-2024	09-09-2024
pH-F	pH Units	7.95	7.91	7.93
Cond-F	uS/cm	1362	1469	1528
SO4-D	mg/L	590	660	630
Alk-T	mg/L	170	210	170
Acidity83	mg/L	<1.0	<1.0	<1.0
Al-T	mg/L	0.0047		0.0112
As-T	mg/L	0.00026		0.00041
Ba-T	mg/L	0.0119		0.0139
B-T	mg/L	0.381		0.406
Cd-T	mg/L	<0.000010		<0.000010
Ca-T	mg/L	190		221
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	567		673
Fe-T	mg/L	0.017		0.032
Pb-T	mg/L	<0.00020		<0.00020
Mg-T	mg/L	22.2		29.5
Mn-T	mg/L	0.0148		0.0067
Mo-T	mg/L	<0.0010		<0.0010
Ni-T	mg/L	<0.0010		<0.0010
K-T	mg/L	1.84		2.36
S-T	mg/L	176		220
Se-T	mg/L	0.00018		0.00016
Si-T	mg/L	2.12		2.80
Ag-T	mg/L	<0.000020		<0.000020
Na-T	mg/L	39.6		52.9
Sr-T	mg/L	1.24		1.58
Zn-T	mg/L	<0.0050		<0.0050
Al-D	mg/L	<0.0030		<0.0060
As-D	mg/L	0.00028		0.00033
Ba-D	mg/L	0.0144		0.0142
B-D	mg/L	0.379		0.50
Be-D	mg/L	<0.00010		<0.00020
Cd-D	mg/L	<0.000010		<0.000020
Ca-D	mg/L	240		237
Cr-D	mg/L	<0.0010		<0.0020
Co-D	mg/L	<0.00020		<0.00040
Cu-D	mg/L	0.00021		<0.00040
Hard-D	mg/L	712		707
Fe-D	mg/L	0.0097		<0.010
Pb-D	mg/L	<0.00020		<0.00040
Mg-D	mg/L	27.2		27.8
Mn-D	mg/L	0.0058		0.0035
Mo-D	mg/L	<0.0010		<0.0020
Ni-D	mg/L	<0.0010		<0.0020
K-D	mg/L	2.20		2.28
S-D	mg/L	219		211
Se-D	mg/L	0.00021		<0.00020
Si-D	mg/L	2.56		2.77
Na-D	mg/L	48.1		55.2
Sr-D	mg/L	1.48		1.45
Zn-D	mg/L	<0.0050		<0.010

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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	
Date	02-07-2024	
pH-F	pH Units	7.86
Cond-F	uS/cm	541
SO4-D	mg/L	210
TSS	mg/L	<1.0
Alk-T	mg/L	61
Acidity83	mg/L	<1.0
Al-T	mg/L	0.0583
As-T	mg/L	0.00062
Ba-T	mg/L	0.0139
B-T	mg/L	0.223
Cd-T	mg/L	<0.000010
Ca-T	mg/L	72.0
Cr-T	mg/L	<0.0010
Co-T	mg/L	<0.00020
Cu-T	mg/L	<0.00050
Hard-T	mg/L	216
Fe-T	mg/L	0.139
Pb-T	mg/L	<0.00020
Mg-T	mg/L	8.73
Mn-T	mg/L	0.0025
Mo-T	mg/L	<0.0010
Ni-T	mg/L	<0.0010
K-T	mg/L	0.671
S-T	mg/L	66.8
Se-T	mg/L	<0.00010
Si-T	mg/L	3.64
Ag-T	mg/L	<0.000020
Na-T	mg/L	18.4
Sr-T	mg/L	0.497
Zn-T	mg/L	<0.0050
Al-D	mg/L	0.0564
As-D	mg/L	0.00059
Ba-D	mg/L	0.0141
B-D	mg/L	0.166
Be-D	mg/L	<0.00010
Cd-D	mg/L	<0.000010
Ca-D	mg/L	75.0
Cr-D	mg/L	<0.0010
Co-D	mg/L	<0.00020
Cu-D	mg/L	0.00055
Hard-D	mg/L	227
Fe-D	mg/L	0.106
Pb-D	mg/L	<0.00020
Mg-D	mg/L	9.72
Mn-D	mg/L	0.0017
Mo-D	mg/L	<0.0010
Ni-D	mg/L	<0.0010
K-D	mg/L	0.698
S-D	mg/L	71.3
Se-D	mg/L	<0.00010
Si-D	mg/L	3.68
Na-D	mg/L	20.2
Sr-D	mg/L	0.522
Zn-D	mg/L	<0.0050

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Table 19 South End Mine Water Entering Long Lake Near the Outlet 1 Page(s)

EMS ID	E292130																
Site Description	South End Mine Water Entering Long Lake Near the Outlet																
Site Name	LLE	Std Val															
Date		Max	02-07-2024	08-07-2024	15-07-2024	22-07-2024	29-07-2024	01-08-2024	07-08-2024	12-08-2024	19-08-2024	26-08-2024	03-09-2024	09-09-2024	16-09-2024	23-09-2024	23-09-2024
Flow	m3/s		0.0366	0.00274	0.00057	0.00072	0.00072	0	0.00046	0.00072	0.00052	0.00151	0.00072	0.00072	0.00319	0.03662	0.03662
pH-F	pH Units		7.47	7.17	7.54	7.24	7.39		7.35	7.55	7.43	7.32	6.92	7.48	7.44	7.55	7.55
Cond-F	uS/cm		439	472	650	953	806		1095	1055	1101	998	1013	1260	1039	836	836
SO4-D	mg/L		210	150	220	350	290		400	380	390	330	360	400	370	290	290
TSS	mg/L		<1.0						3.2					<1.0			
DOC	mg/L		6.3						6.4					5.9			
Alk-T	mg/L		60						180					190			
Acidity83	mg/L		<1.0						<1.0					<1.0			
N-NH3	mg/L	12.9	<0.015						0.024					0.034			
N-NO23	mg/L		<0.020						<0.020					<0.020			
P-T	mg/L		0.0058						0.0090					0.0055			
Al-T	mg/L		0.0537						0.0058					0.0059			
Al-T (Chronic WQG)	mg/L		0.340						0.360					0.350			
As-T	mg/L		0.00090						0.00151					0.00125			
Ba-T	mg/L		0.0205						0.0340					0.0300			
B-T	mg/L		0.205						0.462					0.455			
Cd-T	mg/L		<0.000010						<0.000010					<0.000010			
Ca-T	mg/L		69.0						152					148			
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		0.00052						<0.00050					<0.00050			
Hard-T	mg/L		208						470					472			
Fe-T	mg/L	1.0	0.218						1.03					0.700			
Pb-T	mg/L	0.0176	<0.00020						<0.00020					<0.00020			
Mg-T	mg/L		8.73						21.8					24.9			
Mn-T	mg/L	0.8706	0.0231						0.215					0.0738			
Mo-T	mg/L	46.0	<0.0010						<0.0010					<0.0010			
Ni-T	mg/L		<0.0010						<0.0010					<0.0010			
K-T	mg/L		0.689						1.48					1.59			
S-T	mg/L		64.2						147					142			
Se-T	mg/L		<0.00010						<0.00010					<0.00010			
Si-T	mg/L		3.47						6.18					5.92			
Ag-T	mg/L	0.0001	<0.000020						<0.000020					<0.000020			
Na-T	mg/L		17.9						49.6					51.2			
Sr-T	mg/L		0.480						0.957					1.03			
Zn-T	mg/L	0.033	<0.0050						0.0077					<0.0050			
Al-D	mg/L		0.0308						<0.0030					<0.0030			
As-D	mg/L		0.00086						0.00134					0.00115			
Ba-D	mg/L		0.0227						0.0352					0.0305			
B-D	mg/L		0.171						0.427					0.516			
Be-D	mg/L		<0.00010						<0.00010					<0.00010			
Cd-D	mg/L	0.00017	0.000024						<0.000010					<0.000010			
Ca-D	mg/L		74.5						153					153			
Cr-D	mg/L		<0.0010						<0.0010					<0.0010			
Co-D	mg/L		<0.00020						<0.00020					<0.00020			
Cu-D	mg/L		0.00061						<0.00020					<0.00020			
Hard-D	mg/L		224						478					476			
Fe-D	mg/L	0.35	0.141						0.338					0.563			
Pb-D	mg/L		<0.00020						<0.00020					<0.00020			
Mg-D	mg/L		9.28						23.0					22.9			
Mn-D	mg/L		0.0242						0.217					0.0742			
Mo-D	mg/L		<0.0010						<0.0010					<0.0010			
Ni-D	mg/L		<0.0010						<0.0010					<0.0010			
K-D	mg/L		0.763						1.55					1.56			
S-D	mg/L		70.9						140					134			
Se-D	mg/L		<0.00010						<0.00010					<0.00010			
Si-D	mg/L		3.74						5.27					6.27			
Na-D	mg/L		19.3						51.5					53.5			
Sr-D	mg/L		0.528						0.936					1.03			
Zn-D	mg/L	0.033	<0.0050						0.0088					<0.0050			

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Table 20 Seep into Long Lake 1 Page(s)

EMS ID	E292131	Stn Std	Max-WQG
Site Description	Seep into Long Lake		
Site Name	LLS	Std Val	
Date	Max	04-07-2024	15-07-2024 25-07-2024 01-08-2024 19-08-2024 09-09-2024 23-09-2024
Flow	m3/s		
pH-F	pH Units		
Cond-F	uS/cm		
SO4-D	mg/L		
TSS	mg/L		
Alk-T	mg/L		
Acidity83	mg/L		
Al-T	mg/L	0.130	
As-T	mg/L		
Ba-T	mg/L		
B-T	mg/L		
Cd-T	mg/L		
Ca-T	mg/L		
Cr-T	mg/L		
Co-T	mg/L	0.11	
Cu-T	mg/L		
Hard-T	mg/L		
Fe-T	mg/L	1.0	
Pb-T	mg/L	0.0176	
Mg-T	mg/L		
Mn-T	mg/L	0.8706	
Mo-T	mg/L	46.0	
Ni-T	mg/L		
K-T	mg/L		
S-T	mg/L		
Se-T	mg/L		
Si-T	mg/L		
Ag-T	mg/L	0.0001	
Na-T	mg/L		
Sr-T	mg/L		
Zn-T	mg/L	0.033	
Al-D	mg/L		
As-D	mg/L		
Ba-D	mg/L		
B-D	mg/L		
Be-D	mg/L		
Cd-D	mg/L	0.00017	
Ca-D	mg/L		
Cr-D	mg/L		
Co-D	mg/L		
Cu-D	mg/L	0.0043	
Hard-D	mg/L		
Fe-D	mg/L	0.35	
Pb-D	mg/L		
Mg-D	mg/L		
Mn-D	mg/L		
Mo-D	mg/L		
Ni-D	mg/L		
K-D	mg/L		
S-D	mg/L		
Se-D	mg/L		
Si-D	mg/L		
Na-D	mg/L		
Sr-D	mg/L		
Zn-D	mg/L	0.033	

Water was very low flow.
Not flowing over the weir or
reaching the lake. Water
level to low to collect a
sample.

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Table 21 Long Lake Middle Seep 1 Page(s)

EMS ID	E292131	Max-WQG	
Site Description	Long Lake Middle Seep		
Site Name	LLSM	Std Val	
Date	Max	04-07-2024	
Wlevel	m		Water level to low to collect a sample in July. Very slight seep from bank. Dry by mid-July and all quarter. No flow through H-Flume or to the lake.
pH-F	pH Units		
Cond-F	uS/cm		
SO4-D	mg/L		
TSS	mg/L		
Alk-T	mg/L		
Acidity83	mg/L		
Al-T	mg/L	0.150	
As-T	mg/L		
Ba-T	mg/L		
B-T	mg/L		
Cd-T	mg/L		
Ca-T	mg/L		
Cr-T	mg/L		
Co-T	mg/L	0.11	
Cu-T	mg/L		
Hard-T	mg/L		
Fe-T	mg/L	1.0	
Pb-T	mg/L	0.0176	
Mg-T	mg/L		
Mn-T	mg/L	0.8706	
Mo-T	mg/L	46.0	
Ni-T	mg/L		
K-T	mg/L		
S-T	mg/L		
Se-T	mg/L		
Si-T	mg/L		
Ag-T	mg/L	0.0001	
Na-T	mg/L		
Sr-T	mg/L		
Zn-T	mg/L	0.033	
Al-D	mg/L		
As-D	mg/L		
Ba-D	mg/L		
B-D	mg/L		
Be-D	mg/L		
Cd-D	mg/L	0.00017	
Ca-D	mg/L		
Cr-D	mg/L		
Co-D	mg/L		
Cu-D	mg/L	0.0043	
Hard-D	mg/L		
Fe-D	mg/L	0.35	
Pb-D	mg/L		
Mg-D	mg/L		
Mn-D	mg/L		
Mo-D	mg/L		
Ni-D	mg/L		
K-D	mg/L		
S-D	mg/L		
Se-D	mg/L		
Si-D	mg/L		
Na-D	mg/L		
Sr-D	mg/L		
Zn-D	mg/L	0.033	

Notes: LLSM water low flow and was not reaching the H-Flume or lake by May.

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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
Date	Max	02-07-2024
pH-F	pH Units	6.00 - 8.00
Cond-F	uS/cm	361
SO4-D	mg/L	500
TSS	mg/L	25
Alk-T	mg/L	170
Acidity83	mg/L	<1.0
DOC	mg/L	3.3
Al-T	mg/L	0.0084
As-T	mg/L	0.00152
Ba-T	mg/L	0.0097
B-T	mg/L	0.063
Cd-T	mg/L	<0.000010
Ca-T	mg/L	48.0
Cr-T	mg/L	<0.0010
Co-T	mg/L	<0.00020
Cu-T	mg/L	0.00083
Hard-T	mg/L	165
Fe-T	mg/L	0.265
Pb-T	mg/L	<0.00020
Mg-T	mg/L	11.0
Mn-T	mg/L	0.414
Mo-T	mg/L	<0.0010
Ni-T	mg/L	<0.0010
K-T	mg/L	0.306
S-T	mg/L	3.4
Se-T	mg/L	<0.00010
Si-T	mg/L	6.12
Ag-T	mg/L	<0.000020
Na-T	mg/L	5.91
Sr-T	mg/L	0.166
Zn-T	mg/L	<0.0050
Al-D	mg/L	0.1
As-D	mg/L	0.00149
Ba-D	mg/L	0.0105
B-D	mg/L	0.053
Be-D	mg/L	<0.00010
Cd-D	mg/L	0.000045
Ca-D	mg/L	50.3
Cr-D	mg/L	<0.0010
Co-D	mg/L	<0.00020
Cu-D	mg/L	0.014
Hard-D	mg/L	172
Fe-D	mg/L	0.0960
Pb-D	mg/L	<0.00020
Mg-D	mg/L	11.2
Mn-D	mg/L	0.417
Mo-D	mg/L	<0.0010
Ni-D	mg/L	<0.0010
K-D	mg/L	0.333
S-D	mg/L	3.9
Se-D	mg/L	0.016
Si-D	mg/L	6.40
Na-D	mg/L	5.97
Sr-D	mg/L	0.178
Zn-D	mg/L	<0.0050

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Table 23 7 South Portal Sump 1 Page(s)

EMS ID		E292110		
Site Description		7 South Portal Sump		
Site Name		7SPS		
Date		02-07-2024	06-08-2024	09-09-2024
pH-F	pH Units	6.85	7.47	7.68
Cond-F	uS/cm	666	864	822
SO4-D	mg/L	260	340	290
TSS	mg/L	8.4	3.6	4.0
Alk-T	mg/L	77	120	99
Acidity83	mg/L	1.4	<1.0	<1.0
Al-T	mg/L	0.0922	0.0549	0.0474
As-T	mg/L	0.00072	0.00063	0.00054
Ba-T	mg/L	0.0162	0.0203	0.0214
B-T	mg/L	0.151	0.128	0.125
Cd-T	mg/L	0.000028	0.000011	0.000013
Ca-T	mg/L	88.5	128	112
Cr-T	mg/L	<0.0010	<0.0010	<0.0010
Co-T	mg/L	0.00525	0.00152	0.00100
Cu-T	mg/L	0.00223	0.00120	0.00154
Hard-T	mg/L	304	437	378
Fe-T	mg/L	3.45	2.17	1.35
Pb-T	mg/L	<0.00020	<0.00020	<0.00020
Mg-T	mg/L	20.0	28.2	23.7
Mn-T	mg/L	0.283	0.266	0.0791
Mo-T	mg/L	<0.0010	<0.0010	<0.0010
Ni-T	mg/L	0.0103	0.0055	0.0040
K-T	mg/L	0.800	1.28	1.42
S-T	mg/L	83.5	124	102
Se-T	mg/L	<0.00010	0.00011	0.00012
Si-T	mg/L	5.78	5.56	5.26
Ag-T	mg/L	<0.000020	<0.000020	<0.000020
Na-T	mg/L	5.98	12.9	10.9
Sr-T	mg/L	0.337	0.488	0.439
Zn-T	mg/L	0.0151	0.0051	<0.0050
Al-D	mg/L	0.0034	0.0034	0.0631
As-D	mg/L	0.00036	0.00029	0.00044
Ba-D	mg/L	0.0180	0.0201	0.0204
B-D	mg/L	0.125	0.112	0.107
Be-D	mg/L	<0.00010	<0.00010	<0.00010
Cd-D	mg/L	0.000026	<0.000010	0.000010
Ca-D	mg/L	96.7	132	108
Cr-D	mg/L	<0.0010	<0.0010	<0.0010
Co-D	mg/L	0.00553	0.00078	0.00105
Cu-D	mg/L	0.00092	0.00070	0.00154
Hard-D	mg/L	328	451	362
Fe-D	mg/L	0.272	0.0880	1.29
Pb-D	mg/L	<0.00020	<0.00020	<0.00020
Mg-D	mg/L	21.0	29.7	22.1
Mn-D	mg/L	0.296	0.112	0.0790
Mo-D	mg/L	<0.0010	<0.0010	<0.0010
Ni-D	mg/L	0.0111	0.0051	0.0040
K-D	mg/L	0.871	1.32	1.34
S-D	mg/L	90.7	119	104
Se-D	mg/L	0.00011	0.00011	0.00012
Si-D	mg/L	6.23	4.83	5.28
Na-D	mg/L	6.15	13.0	10.7
Sr-D	mg/L	0.370	0.475	0.378
Zn-D	mg/L	0.0108	<0.0050	<0.0050

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

EMS ID	E292109	Stn	Std	Max-WQG			
Site Description	Road Side Crossing Bridge on Stream 1 above the Lower Wetland						
Site Name	7S	Std Val					
Date		Max	Min	02-07-2024	25-07-2024	06-08-2024	09-09-2024
SG	m			0.178	0	0	0
pH-F	pH Units			6.94			
Cond-F	uS/cm			55.3			
SO4-D	mg/L			2.8			
TSS	mg/L			<1.0			
Alk-T	mg/L			170			
Acidity83	mg/L			<1.0			
DOC	mg/L			1.7			
Al-T	mg/L			0.0191			
Al-T (Chronic WQG)	mg-L			0.057			
As-T	mg/L			<0.00010			
Ba-T	mg/L			0.0017			
B-T	mg/L			<0.050			
Cd-T	mg/L			<0.000010			
Ca-T	mg/L			5.43			
Cr-T	mg/L			<0.0010			
Co-T	mg/L	0.11	0	<0.00020			
Cu-T	mg/L			<0.00050			
Hard-T	mg/L			18.7			
Fe-T	mg/L	1.0	0	<0.010			
Pb-T	mg/L	0.0176	0	<0.00020			
Mg-T	mg/L			1.25			
Mn-T	mg/L	0.8706	0	<0.0010			
Mo-T	mg/L	46.0	0	<0.0010			
Ni-T	mg/L			<0.0010			
K-T	mg/L			0.061			
S-T	mg/L			<3.0			
Se-T	mg/L			<0.00010			
Si-T	mg/L			5.31			
Ag-T	mg/L	0.0001	0	<0.000020			
Na-T	mg/L			1.85			
Sr-T	mg/L			0.0223			
Zn-T	mg/L	0.033	0	<0.0050			
Al-D	mg/L			0.0188			
As-D	mg/L			<0.00010			
Ba-D	mg/L			0.0020			
B-D	mg/L			<0.050			
Be-D	mg/L			<0.00010			
Cd-D	mg/L	0.00017	0	<0.000010			
Ca-D	mg/L			5.80			
Cr-D	mg/L			<0.0010			
Co-D	mg/L			<0.00020			
Cu-D	mg/L		0	0.00028			
Cu-D (Acute-WQG)	mg/L			0.0026			
Hard-D	mg/L			20.0			
Fe-D	mg/L	0.35	0	<0.0050			
Pb-D	mg/L			<0.00020			
Mg-D	mg/L			1.33			
Mn-D	mg/L			<0.0010			
Mo-D	mg/L			<0.0010			
Ni-D	mg/L			<0.0010			
K-D	mg/L			0.071			
S-D	mg/L			<3.0			
Se-D	mg/L			<0.00010			
Si-D	mg/L			5.73			
Na-D	mg/L			1.96			
Sr-D	mg/L			0.0250			
Zn-D	mg/L	0.033	0	<0.0050			

Stream was dry July 11 through to September 14th. Water level too low to collect a sample.

Appendix 1 - Tables

Table 25 Discharge From Settling Pond #4 1 Page(s)

EMS ID E207409 Discharge From Settling Pond #4 (SP4/WD)												
Date	April Max. (m ³ /s)	April Daily (m ³ /s)	May Max. (m ³ /s)	May Daily (m ³ /s)	June Max. (m ³ /s)	June Daily (m ³ /s)	July Max. (m ³ /s)	July Daily (m ³ /s)	August Max. (m ³ /s)	August Daily (m ³ /s)	September Max. (m ³ /s)	September Daily (m ³ /s)
1	0.1310	0.1230	0.1300	0.0900	0.0880	0.0810	0.062	0.051	0.0450	0.0300	0.0740	0.0640
2	0.1310	0.1230	0.0860	0.0720	0.0870	0.0830	0.061	0.046	0.0430	0.0320	0.0740	0.0660
3	0.1310	0.1140	0.0930	0.0760	0.1040	0.0900	0.057	0.043	0.0390	0.0290	0.0730	0.0670
4	0.1230	0.1050	0.1000	0.0800	0.1170	0.0950	0.06	0.042	0.0370	0.0280	0.0730	0.0630
5	0.1160	0.0940	0.1120	0.0980	0.1000	0.0870	0.057	0.042	0.0380	0.0280	0.0730	0.0620
6	0.1200	0.0980	0.1210	0.0980	0.0970	0.0850	0.059	0.047	0.0360	0.0250	0.0730	0.0640
7	0.1170	0.1000	0.1150	0.0830	0.0930	0.0810	0.061	0.047	0.0340	0.0170	0.0720	0.0630
8	0.1090	0.0950	0.0930	0.0780	0.0980	0.0840	0.068	0.055	0.0140	0.0080	0.0710	0.0660
9	0.1150	0.1000	0.1100	0.0920	0.0950	0.0850	0.071	0.059	0.0150	0.0080	0.0710	0.0630
10	0.1010	0.0870	0.1170	0.0950	0.1000	0.0840	0.069	0.05	0.0140	0.0080	0.0700	0.0630
11	0.1030	0.0810	0.1170	0.0950	0.1030	0.0870	0.049	0.038	0.0140	0.0090	0.0700	0.0660
12	0.0690	0.0620	0.1100	0.0920	0.0950	0.0830	0.049	0.037	0.0140	0.0090	0.0700	0.0620
13	0.0690	0.0560	0.1140	0.0990	0.1080	0.0860	0.048	0.037	0.0560	0.0150	0.0700	0.0680
14	0.0690	0.0550	0.1010	0.0930	0.1090	0.0940	0.047	0.035	0.0780	0.0690	0.0720	0.0660
15	0.0690	0.0540	0.1150	0.0970	0.1070	0.0930	0.062	0.046	0.0780	0.0710	0.0700	0.0600
16	0.0870	0.0690	0.1070	0.0790	0.1010	0.0890	0.063	0.052	0.0770	0.0730	0.0840	0.0710
17	0.0900	0.0790	PNC	PNC	0.1270	0.1000	0.062	0.051	0.0760	0.0700	0.0850	0.0830
18	0.0880	0.0780	PNC	PNC	0.1000	0.0850	0.063	0.053	0.0770	0.0750	0.0810	0.0670
19	0.0890	0.0770	PNC	PNC	0.1090	0.0890	0.063	0.052	0.0750	0.0730	0.0690	0.0610
20	0.1250	0.0910	PNC	PNC	0.1200	0.0920	0.064	0.05	0.0750	0.0720	0.0720	0.0590
21	0.1310	0.1180	0.0950	0.0950	0.0960	0.0780	0.063	0.057	0.0840	0.0760	0.0760	0.0710
22	0.1300	0.1180	PNC	PNC	0.0740	0.0660	0.062	0.036	0.0810	0.0690	0.0760	0.0740
23	0.1300	0.1150	PNC	PNC	0.0720	0.0660	0.03	0.023	0.0770	0.0730	0.0760	0.0600
24	0.1300	0.1160	PNC	PNC	0.0740	0.0600	0.033	0.028	0.0750	0.0670	0.0540	0.0510
25	0.1300	0.1210	PNC	PNC	0.0740	0.0570	0.032	0.021	0.0750	0.0700	0.0570	0.0540
26	0.1400	0.1320	PNC	PNC	0.0710	0.0570	0.025	0.017	0.0790	0.0750	0.0650	0.0530
27	0.1380	0.1220	0.1310	0.1310	0.0780	0.0650	0.026	0.017	0.0790	0.0690	0.0550	0.0360
28	0.1390	0.1340	PNC	PNC	0.0620	0.0560	0.029	0.02	0.0740	0.0650	0.0590	0.0540
29	0.1310	0.1130	0.1640	0.1640	0.0640	0.0600	0.032	0.027	0.0740	0.0660	0.0550	0.0450
30	0.1080	0.0810	0.1120	0.1100	0.0630	0.0550	0.03	0.025	0.0740	0.0670	0.0530	0.0490
31			0.0880	0.0800			0.029	0.021	0.0740	0.0650		
Monthly Max	0.1400		0.1640		0.1270		0.0710		0.0840		0.0850	
Monthly Avg		0.0970		0.0951		0.0791		0.0395		0.0487		0.0617
TSS is required weekly when max daily flow > 0.054 m ³ /s							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							NF= No Flow PNC= Permit Non-compliance All flow data is subject to review					

TSS is required weekly when daily Max flow is >0.054 m³/s.

All flow is subject to review.

No Flow =NF

Permit Non-compliance = PNC

Appendix 1 - Tables

Table 26 Discharge From Settling Pond #1 1 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	PNC	PNC	0.0341	0.0160	0.0443	0.0250	0.0639	0.0311	0.0091	0.0034	0.0120	0.0120
2	0.1970	0.0250	0.0341	0.0091	0.0443	0.0160	0.1816	0.0396	0.0160	0.0029	0.0091	0.0055
3	PNC	PNC	0.0250	0.0091	0.0443	0.0091	0.0877	0.0229	0.0091	0.0030	0.0034	0.0091
4	0.0160	0.0091	0.0160	0.0091	0.0341	0.0160	0.0341	0.0148	0.1970	0.0037	0.0034	0.0000
5	PNC	PNC	0.0443	0.0250	0.0250	0.0091	0.0160	0.0076	0.0000	0.0021	0.0082	0.0000
6	PNC	PNC	0.0443	0.0091	0.0341	0.0160	0.0160	0.0067	0.0000	0.0014	0.0160	0.0005
7	PNC	PNC	0.0534	0.0250	0.0250	0.0091	0.0160	0.0052	0.0091	0.0029	0.0091	0.0003
8	PNC	PNC	0.0250	0.0091	0.0639	0.0091	0.0000	0.0000	0.0091	0.0016	0.1970	0.0182
9	0.0534	0.0534	0.0160	0.0032	0.0341	0.0091	0.0160	0.0034	0.0005	0.0005	NF	NF
10	0.0160	0.0000	0.0160	0.0032	0.0341	0.0091	0.0091	0.0038	NF	NF	NF	NF
11	0.1970	0.1970	0.0160	0.0032	0.0341	0.0091	0.0022	0.0022	NF	NF	NF	NF
12	PNC	PNC	0.0091	0.0032	0.0341	0.0160	0.0091	0.0012	NF	NF	NF	NF
13	PNC	PNC	0.0091	0.0032	0.0160	0.0032	NF	NF	NF	NF	0.0091	0.0003
14	0.1970	PNC	0.0091	0.0032	0.0443	0.0160	NF	NF	NF	NF	0.0160	0.0143
15	0.0091	0.0032	0.0091	0.0032	0.0341	0.0091	NF	NF	NF	NF	0.0091	0.0054
16	0.1970	0.1970	0.0091	0.0032	0.0250	0.0091	NF	NF	NF	NF	0.0091	0.0020
17	0.1970	0.1970	0.0091	0.0000	0.0341	0.0091	NF	NF	NF	NF	0.0091	0.0011
18	0.1970	0.1279	0.0091	0.0032	0.0341	0.0091	NF	NF	NF	NF	0.0341	0.0008
19	0.0250	PNC	0.0091	0.0000	0.0250	0.0091	NF	NF	NF	NF	0.0443	0.0014
20	0.0443	PNC	0.0091	0.0000	0.0250	0.0091	NF	NF	NF	NF	0.0534	0.0142
21	0.0639	PNC	0.0160	0.0032	0.0250	0.0032	NF	NF	0.0160	0.0103	0.0639	0.0080
22	0.0764	PNC	0.0091	0.0000	0.0250	0.0091	NF	NF	0.0160	0.0099	0.0534	0.0035
23	0.1970	0.1970	0.0091	0.0000	0.0160	0.0032	NF	NF	0.0160	0.0082	0.0534	0.0017
24	0.1970	0.1970	0.0160	0.0091	0.0250	0.0032	NF	NF	0.0160	0.0043	0.0443	0.0014
25	0.1970	0.0443	0.0341	0.0091	0.0341	0.0160	NF	NF	0.1522	0.0080	0.0341	0.0048
26	0.1382	0.0639	0.0443	0.0160	0.0764	0.0250	NF	NF	0.0160	0.0097	0.0183	0.0160
27	0.1522	PNC	0.0160	0.0091	0.0877	0.0639	NF	NF	0.0160	0.0143	0.0523	0.0341
28	0.1667	PNC	0.1970	0.0032	0.0877	0.0443	NF	NF	0.0160	0.0049	0.0543	0.0443
29	0.1970	PNC	0.0443	0.0160	0.0989	0.0443	NF	NF	0.0160	0.0054	0.0877	0.0335
30	0.0534	0.0341	0.1970	0.0250	0.0989	0.0341	0.0006	0.0006	0.0091	0.0055	0.0160	0.0065
31			0.0443	0.0160			0.0005	0.0005	0.0443	0.0036		
Monthly Max	0.1970		0.1970		0.0989		0.1816		0.1970		0.1970	
Monthly Avg		0.0961		0.0080		0.0157		0.0100		0.0053		0.0092
PNC = Permit Non-compliance							Beavers were active at the site, causing some data anomalies. There is a cage around the decant riser that the beavers cannot access.					
TSS is required weekly when maximum daily flow > 0.046m ³ /s							TSS is required weekly when maximum daily flow > 0.046m ³ /s					
NF= No Flow All flow data is subject to review							NF= No Flow All flow data is subject to review					

TSS is required weekly when daily Max flow is > 0.046 m³/s.

All flow is subject to review.

No Flow =NF

Permit Non-compliance = PNC

Appendix 1 - Tables

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

EMS ID E292069						
Discharge From 7 South Surface Decant Pond (7SSD)						
	April	May	June	July	August	September
	Daily Average L/S			Daily Average L/S		
Date						
1	NF	NF	NF	NF	NF	NF
2	NF	NF	NF	NF	NF	NF
3	NF	NF	NF	NF	NF	NF
4	NF	NF	NF	NF	NF	NF
5	NF	NF	NF	NF	NF	NF
6	NF	NF	NF	NF	NF	NF
7	NF	NF	NF	NF	NF	NF
8	NF	NF	NF	NF	NF	NF
9	NF	NF	NF	NF	NF	NF
10	NF	NF	NF	NF	NF	NF
11	NF	NF	NF	NF	NF	NF
12	NF	NF	NF	NF	NF	NF
13	NF	NF	NF	NF	NF	NF
14	NF	NF	NF	NF	NF	NF
15	NF	NF	NF	NF	NF	NF
16	NF	NF	NF	NF	NF	NF
17	NF	NF	NF	NF	NF	NF
18	NF	NF	NF	NF	NF	NF
19	NF	NF	NF	NF	NF	NF
20	NF	NF	NF	NF	NF	NF
21	NF	NF	NF	NF	NF	NF
22	NF	NF	NF	NF	NF	NF
23	NF	NF	NF	NF	NF	NF
24	NF	NF	NF	NF	NF	NF
25	NF	NF	NF	NF	NF	NF
26	NF	NF	NF	NF	NF	NF
27	NF	NF	NF	NF	NF	NF
28	NF	NF	NF	NF	NF	NF
29	NF	NF	NF	NF	NF	NF
30	NF	NF	NF	NF	NF	NF
31	NF	NF	NF	NF	NF	
Monthly Avg	0.000	0.000	0.000	0.000	0.000	0.000
Annual Avg	0.000					
Cummulative Daily Totalizer Value						
For Maximum Decant Flow (5.00 L/s)						
No Flow = NF						

Appendix 1 - Tables

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

EMS ID: E292127 2-South Pit Inflow							EMS ID: E292127 2-South Pit 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)	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)
1	12.895	13.726	4.95	0.54	0.00	0.01	1	6.374	3.846	10.762	6.90	4.123	5.33
2	14.952	13.275	2.43	0.27	0.00	0.01	2	6.538	4.274	10.629	6.73	3.460	4.91
3	17.281	10.881	2.39	0.00	0.00	0.01	3	6.605	3.854	10.834	6.63	2.982	4.81
4	16.758	10.805	1.84	0.08	0.02	0.01	4	6.211	3.987	9.842	6.52	2.873	4.90
5	17.178	10.488	2.58	0.04	0.02	0.01	5	5.820	3.990	9.739	6.35	2.811	5.00
6	17.321	10.144	2.43	0.01	0.02	0.01	6	5.601	4.063	10.184	6.22	2.972	5.67
7	16.506	9.588	2.22	0.01	0.02	0.01	7	5.986	3.963	9.025	6.08	3.013	5.49
8	16.164	9.571	2.21	0.00	0.02	0.01	8	5.734	3.671	8.387	6.05	3.623	5.30
9	15.266	9.484	2.11	0.00	0.02	0.01	9	5.879	3.557	8.042	5.97	5.976	5.17
10	14.061	9.465	2.10	0.00	0.02	0.00	10	5.311	3.463	7.890	6.00	6.674	5.59
11	14.742	9.643	2.25	0.00	0.02	0.01	11	5.311	3.489	9.615	5.93	6.112	5.88
12	14.814	9.786	2.03	0.00	0.01	0.01	12	5.387	3.493	8.476	5.69	5.667	6.82
13	14.356	9.958	1.95	0.00	0.00	0.00	13	4.878	3.774	7.729	5.48	5.278	6.16
14	14.058	9.988	2.22	0.00	0.01	0.00	14	4.584	3.516	8.384	5.25	5.221	5.63
15	11.960	10.029	2.17	0.00	0.01	0.00	15	4.741	3.645	9.703	5.13	4.848	5.40
16	9.695	10.232	2.08	0.01	0.01	0.00	16	4.708	3.530	9.116	5.10	4.386	5.50
17	9.493	10.221	0.76	0.02	0.01	0.01	17	4.375	3.665	8.129	4.84	4.298	5.60
18	7.331	10.807	0.07	0.02	0.02	0.00	18	4.249	3.585	7.739	3.82	4.308	5.41
19	8.620	10.688	0.06	0.02	0.01	0.00	19	4.191	3.633	7.641	3.20	4.000	6.20
20	8.675	10.323	0.08	0.02	0.01	0.00	20	4.255	3.392	7.104	3.09	4.278	6.50
21	8.654	12.600	0.08	0.02	0.03	0.00	21	4.399	3.787	6.819	3.03	4.415	5.20
22	8.457	11.725	0.08	0.02	0.00	0.00	22	4.021	4.150	6.901	3.19	4.565	5.03
23	8.765	11.124	0.08	0.01	0.00	0.00	23	4.072	3.416	7.170	3.30	5.428	5.56
24	8.896	14.978	0.06	0.01	0.00	0.00	24	4.153	3.997	7.242	3.38	5.151	6.08
25	8.976	14.850	0.05	0.00	0.01	0.02	25	4.408	4.456	7.035	3.30	5.047	9.45
26	10.920	14.663	1.11	0.00	0.02	0.01	26	4.671	4.067	8.226	3.00	4.762	8.17
27	10.438	14.452	3.01	0.01	0.00	0.01	27	4.391	4.190	17.025	2.95	4.653	3.93
28	10.305	13.867	1.85	0.02	0.00	0.00	28	4.339	4.065	10.640	2.98	4.859	3.33
29	8.011	13.975	1.37	0.03	0.00	0.00	29	3.949	7.500	5.388	3.16	5.701	3.07
30	13.042	12.980	0.99	0.02	0.01	0.00	30	4.036	10.603	4.778	3.72	5.877	3.01
31		12.43		0.00	0.01		31		10.249		4.56	6.458	

Appendix 1 - Tables

Table 29 Flow Requirements 7 Page(s)

Water Level				
EMS ID:		E292131		
Site		LLS		
Weeks	Level (m)	Comments	Weeks	Level
1	0.009	Not reaching the lake. The wier is almost dry. Still visibly percolating from the ground.	32	NF
2	NF		33	
3	NF		34	
4	NF		35	
5	NF		36	
6	NF		37	
7	NF		38	
8	NF		39	
9	NF		40	
10	NF		41	
11	NF		42	
12	NF		43	
13	NF		44	
14	NF		45	
15	NF	Slight percolation at source. No flow, damp ground on the other side of the weir.	46	
16	NF		47	
17	NF		48	
18	NF		49	
19	NF		50	
20	NF		51	
21	NF		52	
22	NF			
23	NF			
24	NF			
25	NF			
26	NF			
27	NF			
28	NF			
29	NF			
30	NF			
31	NF			

Notes: No flow = NF.

Appendix 1 - Tables

Table 29 Flow Requirements 7 Page(s)

Weekly Flow Requirements (L/s)						
EMS ID: E292131						
Site LLSM						
Flow (L/s)						
Date	Apr	May	June	July	Aug	Sep
1	1.376	NF	NF	NF	NF	NF
2	1.946	NF	NF	NF	NF	NF
3	1.946	NF	NF	NF	NF	NF
4	1.946	NF	NF	NF	NF	NF
5	1.376	NF	NF	NF	NF	NF
6	1.376	NF	NF	NF	NF	NF
7	1.376	NF	NF	NF	NF	NF
8	0.909	NF	NF	NF	NF	NF
9	0.909	NF	NF	NF	NF	NF
10	0.539	NF	NF	NF	NF	NF
11	0.263	NF	NF	NF	NF	NF
12	0.078	NF	NF	NF	NF	NF
13	NF	NF	NF	NF	NF	NF
14	NF	NF	NF	NF	NF	NF
15	NF	NF	NF	NF	NF	NF
16	NF	NF	NF	NF	NF	NF
17	NF	NF	NF	NF	NF	NF
18	NF	NF	NF	NF	NF	NF
19	NF	NF	NF	NF	NF	NF
20	NF	NF	NF	NF	NF	NF
21	NF	NF	NF	NF	NF	NF
22	NF	NF	NF	NF	NF	NF
23	NF	NF	NF	NF	NF	NF
24	NF	NF	NF	NF	NF	NF
25	NF	NF	NF	NF	NF	NF
26	NF	NF	NF	NF	NF	NF
27	NF	NF	NF	NF	NF	NF
28	NF	NF	NF	NF	NF	NF
29	NF	NF	NF	NF	NF	NF
30	NF	NF	NF	NF	NF	NF
31				NF	NF	
Notes: No flow = NF						

Appendix 1 - Tables

Table 29 Flow Requirements 7 Page(s)

Continuous Flow Requirements (L/s)						
EMS ID: E292109						
Site 75						
Flow (L/S)	Estimated Flow					
Date	Apr	May	June	July	Aug	Sep
1	2.43	0.44	0.20	0.41	NF	NF
2	1.87	0.37	0.21	0.35	NF	NF
3	1.58	0.34	0.22	0.13	NF	NF
4	1.26	0.24	0.11	0.25	NF	NF
5	0.97	0.24	0.26	0.19	NF	NF
6	0.85	0.26	0.22	0.16	NF	NF
7	0.84	0.26	0.18	0.12	NF	NF
8	0.74	0.23	0.12	0.07	NF	NF
9	0.66	0.18	0.08	0.03	NF	NF
10	0.71	0.15	0.06	0.01	NF	NF
11	0.71	0.11	0.12	0.01	NF	NF
12	0.67	0.08	0.12	NF	NF	NF
13	0.59	0.05	0.07	NF	NF	NF
14	0.54	0.03	0.09	NF	NF	0.03
15	0.50	0.02	0.18	NF	NF	0.50
16	0.52	0.02	0.17	NF	NF	0.32
17	0.50	0.01	0.11	NF	NF	0.24
18	0.23	0.01	0.05	NF	NF	0.14
19	0.37	0.01	0.02	NF	NF	0.08
20	0.34	0.00	0.01	NF	NF	0.02
21	0.30	0.06	0.01	NF	NF	0.01
22	0.32	0.20	0.00	NF	NF	0.03
23	0.25	0.17	0.00	NF	NF	0.05
24	0.24	0.21	0.00	NF	NF	0.05
25	0.28	0.26	0.00	NF	NF	0.11
26	0.47	0.27	0.08	NF	NF	0.31
27	0.59	0.25	2.40	NF	NF	0.27
28	0.53	0.22	1.01	NF	NF	0.35
29	0.35	0.24	0.64	NF	NF	0.21
30	0.45	0.24	0.50	NF	NF	0.32
31		0.21			NF	
Notes: No flow = NF						

Appendix 1 - Tables

Table 29 Flow Requirements 7 Page(s)

5 in 30 Flow Requirements						
EMS ID: 126402						
Site WA						
Flow (m ³ /s)						
Date	Apr	May	June	July	Aug	Sep
1	2.30	1.81	1.00	1.10	0.83	0.92
2	2.30	1.41	1.00	1.09	0.81	0.88
3	2.30	1.34	1.02	1.08	0.85	0.91
4	2.30	1.15	1.04	1.08	0.81	0.92
5	2.30	1.15	1.03	1.07	0.80	0.88
6	2.29	1.15	1.01	1.07	0.80	0.89
7	2.29	1.15	1.04	1.06	0.80	0.89
8	2.29	1.15	1.10	1.05	0.83	0.89
9	2.30	1.10	1.10	1.05	0.77	0.89
10	2.30	1.02	1.09	1.05	0.78	0.89
11	2.31	1.02	1.30	1.05	0.79	0.89
12	2.33	1.02	1.29	1.05	0.78	0.89
13	2.33	1.02	1.28	1.04	0.77	0.89
14	2.33	1.02	1.27	1.04	0.78	0.89
15	2.33	1.02	1.25	1.03	0.79	0.89
16	2.33	1.02	1.25	0.97	0.78	0.89
17	2.34	1.02	1.24	1.03	0.79	0.88
18	2.34	1.03	1.24	1.00	0.79	0.89
19	2.33	1.02	1.18	1.01	0.79	0.88
20	2.35	1.02	1.10	1.03	0.79	0.85
21	2.35	1.06	1.09	1.01	0.78	0.80
22	2.36	1.06	1.08	1.01	0.81	0.78
23	2.35	1.05	1.08	0.98	0.89	0.75
24	2.36	1.08	1.08	0.94	0.90	0.81
25	2.36	1.08	1.07	0.83	0.91	0.90
26	2.36	1.08	1.11	0.79	0.91	0.92
27	2.36	1.07	1.13	0.86	0.93	1.08
28	2.36	1.00	1.13	0.82	0.92	1.09
29	2.36	1.01	1.13	0.85	0.91	1.13
30	2.37	1.01	1.12	0.85	0.91	1.15
31		1.01		0.79	0.90	

Appendix 1 - Tables

Table 29 Flow Requirements 7 Page(s)

5 in 30 Flow Requirements (Level)						
EMS ID: 900504						
Site WB						
Average Level (m)						
Date	Apr	May	June	July	Aug	Sep
1	0.593	0.563	0.472	0.495	0.429	0.439
2	0.593	0.532	0.476	0.488	0.428	0.435
3	0.589	0.520	0.466	0.461	0.430	0.435
4	0.587	0.501	0.458	0.477	0.423	0.436
5	0.579	0.491	0.471	0.475	0.420	0.436
6	0.574	0.484	0.474	0.470	0.418	0.435
7	0.577	0.481	0.473	0.464	0.422	0.436
8	0.577	0.482	0.470	0.462	0.421	0.433
9	0.571	0.483	0.471	0.456	0.416	0.433
10	0.580	0.477	0.471	0.451	0.416	0.435
11	0.579	0.468	0.478	0.452	0.416	0.430
12	0.574	0.463	0.485	0.451	0.413	0.430
13	0.572	0.460	0.487	0.449	0.406	0.435
14	0.570	0.461	0.488	0.446	0.413	0.435
15	0.567	0.463	0.487	0.445	0.415	0.437
16	0.567	0.459	0.488	0.443	0.419	0.438
17	0.569	0.456	0.482	0.442	0.423	0.432
18	0.560	0.458	0.482	0.443	0.418	0.434
19	0.567	0.455	0.480	0.443	0.421	0.431
20	0.564	0.456	0.476	0.447	0.421	0.422
21	0.561	0.468	0.473	0.445	0.428	0.424
22	0.569	0.464	0.468	0.442	0.445	0.420
23	0.564	0.465	0.461	0.444	0.441	0.419
24	0.565	0.472	0.461	0.437	0.433	0.432
25	0.564	0.472	0.462	0.429	0.439	0.433
26	0.570	0.473	0.478	0.431	0.445	0.447
27	0.573	0.478	0.504	0.426	0.447	0.456
28	0.569	0.475	0.505	0.424	0.445	0.462
29	0.554	0.471	0.502	0.433	0.444	0.458
30	0.568	0.473	0.499	0.432	0.441	0.466
31		0.474		0.431	0.441	
Notes: Flow curve is being developed.						

Appendix 1 - Tables

Table 29 Flow Requirements 7 Page(s)

5 in 30 Flow Requirements						
EMS ID: E219412						
Site LLO						
Average Level (m)						
Date	Apr	May	June	July	Aug	Sep
1	0.4282	0.2957	0.2813	0.3464	0.1754	0.1430
2	0.4162	0.2996	0.2833	0.3280	0.1710	0.1337
3	0.4013	0.3007	0.2727	0.2922	0.1671	0.1296
4	0.3895	0.2924	0.2603	0.2955	0.1575	0.1264
5	0.3715	0.2850	0.2716	0.2792	0.1493	0.1234
6	0.3564	0.2777	0.2731	0.2630	0.1421	0.1188
7	0.3536	0.2746	0.2708	0.2467	0.1396	0.1170
8	0.3568	0.2757	0.2601	0.2358	0.1330	0.1109
9	0.3552	0.2715	0.2516	0.2220	0.1256	0.1081
10	0.3591	0.2627	0.2478	0.2087	0.1212	0.1077
11	0.3525	0.2514	0.2477	0.1994	0.1171	0.0999
12	0.3414	0.2405	0.2461	0.1875	0.1105	0.0972
13	0.3326	0.2300	0.2426	0.1766	0.0999	0.0991
14	0.3229	0.2256	0.2438	0.1663	0.1038	0.1010
15	0.3134	0.2241	0.2449	0.1602	0.1019	0.1078
16	0.3095	0.2148	0.2441	0.1559	0.1000	0.1106
17	0.3092	0.2063	0.2335	0.1483	0.1003	0.1075
18	0.2944	0.2088	0.2260	0.1453	0.0943	0.1130
19	0.2938	0.2055	0.2195	0.1397	0.0948	0.1123
20	0.2827	0.2037	0.2144	0.1371	0.0925	0.1069
21	0.2743	0.2210	0.2100	0.1305	0.1048	0.1130
22	0.2759	0.2317	0.2029	0.1255	0.1403	0.1164
23	0.2722	0.2378	0.1934	0.1249	0.1400	0.1333
24	0.2717	0.2540	0.1904	0.1266	0.1339	0.1540
25	0.2693	0.2709	0.1881	0.1305	0.1365	0.1708
26	0.2880	0.2812	0.2296	0.1387	0.1451	0.1952
27	0.3009	0.2892	0.3564	0.1334	0.1641	0.1990
28	0.2977	0.2892	0.3899	0.1323	0.1630	0.2009
29	0.2739	0.2845	0.3791	0.1528	0.1584	0.1891
30	0.2941	0.2854	0.3631	0.1638	0.1524	0.1974
31		0.2850		0.1743	0.1484	
Notes: Flow curve is being developed.						

Appendix 1 - Tables

Table 29 Flow Requirements 7 Page(s)

5 in 30 Flow Requirements						
EMS ID: E297232						
Site IR8						
Average Level (m)						
Date	Apr	May	June	July	Aug	Sep
1	1.14	1.01	0.97	1.01	0.88	0.82
2	1.14	1.01	0.98	0.98	0.87	0.81
3	1.13	1.01	0.97	0.93	0.85	0.80
4	1.09	1.02	0.96	0.94	0.83	0.79
5	1.05	1.04	0.98	0.92	0.82	0.79
6	1.03	1.02	0.98	0.90	0.81	0.78
7	1.02	1.00	0.96	0.88	0.80	0.78
8	1.02	0.99	0.94	0.87	0.79	0.77
9	1.03	1.02	0.93	0.86	0.78	0.76
10	1.02	1.05	0.92	0.84	0.78	0.76
11	1.02	1.05	0.92	0.84	0.77	0.75
12	1.03	1.03	0.92	0.83	0.76	0.75
13	1.02	0.99	0.91	0.82	0.76	0.76
14	1.02	0.98	0.90	0.81	0.77	0.78
15	1.02	0.99	0.89	0.81	0.76	0.79
16	1.01	0.98	0.89	0.80	0.76	0.78
17	0.99	0.96	0.87	0.79	0.76	0.77
18	0.97	0.94	0.87	0.79	0.76	0.79
19	0.97	0.92	0.86	0.78	0.76	0.78
20	0.97	0.91	0.86	0.78	0.76	0.77
21	0.96	0.95	0.85	0.77	0.78	0.78
22	0.97	1.01	0.84	0.77	0.90	0.77
23	0.96	0.97	0.84	0.79	0.87	0.78
24	0.98	1.00	0.83	0.79	0.84	0.78
25	1.02	1.09	0.83	0.80	0.83	0.80
26	1.10	1.04	0.91	0.80	0.83	0.85
27	1.14	1.03	1.08	0.78	0.89	0.90
28	1.09	1.01	1.07	0.78	0.89	0.90
29	1.03	1.00	1.05	0.82	0.87	0.87
30	1.03	0.99	1.03	0.87	0.85	0.86
31		0.98		0.90	0.83	
Notes: Flow curve is being developed.						

Appendix 1 - Tables

Table 30 Daily Precipitation(mm) 1 Page(s)

Daily Precipitation (mm)						
DATE	APRIL	MAY	JUNE	JULY	AUG	SEPT
1	0.0	9.1	1.1	0.6	0.0	0.0
2	3.5	0.0	3.4	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	4.7	0.0	0.0	0.0
5	0.0	1.3	4.7	0.0	0.0	0.0
6	0.8	1.7	0.0	0.0	0.0	0.0
7	0.0	0.1	0.0	0.0	0.0	0.0
8	7.2	0.0	0.0	0.0	0.0	0.0
9	0.1	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	8.8	0.0	0.0	0.5
11	3.9	0.0	1.1	0.0	0.0	0.6
12	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	1.5	2.9
14	0.0	0.0	7.9	0.0	0.0	6.2
15	0.8	0.0	1.7	0.0	0.8	0.0
16	0.1	0.0	0.0	0.0	0.9	0.0
17	0.0	0.0	0.0	0.0	0.0	5.9
18	0.0	5.3	0.0	0.0	2.6	0.0
19	0.0	0.0	0.0	0.0	0.2	0.0
20	0.0	0.3	0.0	0.0	0.5	0.0
21	0.2	21.4	0.0	0.2	24.1	3.4
22	0.0	0.0	1.3	1.3	0.0	3.0
23	0.0	2.8	1.0	0.0	0.0	0.5
24	2.1	20.1	0.0	12.2	0.0	0.5
25	13.5	0.0	0.0	0.0	0.3	13.2
26	3.9	3.2	47.8	0.0	19.7	10.6
27	0.1	4.0	3.1	0.0	0.0	0.3
28	0.0	0.2	1.8	9.5	0.0	0.3
29	1.8	3.1	3.8	12.6	0.0	0.0
30	2.7	0.1	0.0	8.8	0.0	0.0
31		2.1		0.1	0.0	
Monthly Total (mm)	40.70	74.80	92.20	45.30	50.60	47.90
Quarterly Total (mm)	207.70				143.80	

Table 31 Groundwater Wells - Description 1 Page(s)

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 of 2 North workings
5-South Mine Void	QU05-16	In-situ	(1 Seam)	In a pillar of the flooded mine void
River Barrier Pillar (RBP)	QU11-05S	Ex-situ	Sandstone	Down gradient of u/g tailings disposal, measures water quality and hydraulic head, down gradient of 2-North workings
	QU11-05D	Ex-situ	Sandstone	Monitoring water quality and vertical gradients from of the RBP and 2-North mine.
	QU11-09S	Ex-situ	Sandstone	Monitoring 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	Monitoring water quality in the RBP and 2-North workings. Mine pool – CCR backfill in River Barrier Pillar, 87 Panel.
2-North Plant Site	MW-00-1S	Ex-situ	Till	Shallow groundwater below coal pad (well collapsed)
	MW-00-1D	Ex-situ	1-Seam	Deeper groundwater below the coal pad (well collapsed)
	MW-00-6D	Ex-situ	Till	Deeper groundwater below the coal pad
	MW-00-6S	Ex-situ	Till	Shallow groundwater below 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 Flooded Mine Void Water Chemistry
	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 Pit Shallow Groundwater
	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	1M7SA5	In-Situ	No. 4 Coal Seam	Underground sump collects water from 7SA5, 2Mains and 1Mains pumps to 5-South Mine
	2M7S	In-Situ	No. 4 Coal Seam	Flooded (PAG -CCR) 2-Mains area pumps intermittently to 1M7SA5
	3M7S	In-Situ	No. 4 Coal Seam	3-Mains Area Underground
	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	Downgradient of the CCR backfill towards QR
	QU08-13B	Ex-situ	Till & SST contact	Downgradient of the CCR backfill towards QR
	QU14-10	In-Situ	Mine Void	Flooded PAG-CCR, water cover in 2-Mains Area
7- South Area 5	7SA5	In-Situ	Sump	Underground sump collects water in 7SA5, pumps it to 1 Mains.
	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. 4 seam	Downgradient of 7SA5 and 242 Audit
	QU11-36S	Ex-situ	Sandstone below No. 5 seam	Downgradient of 7SA5 and 242 Audit
	242MW	In-situ	No. 4 Seam	Flooded mine void

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Table 32 Ex-situ and In-situ Groundwater 6 Page(s)

Description		2 / 3 N Ex-Situ				RBP Ex-Situ
Well ID		QU0821GS	QU0821GD	QU1105S	QU1105D	
*Station Type		GW	GW	GW	GW	
Surface Elevation (m asl)		215	215	229	229	
H2O Level (below top of casing) (m asl)		215	215	204	201	
Date		14-Aug-24	14-Aug-24	31-Jul-24	31-Jul-24	
Parameter	Units	CSR-AW				
SO4-D	mg/L	1280	<1.0	<10	33	110
H2SEquiv	mg/L	0.02	0.0744	0.170	0.213	106
Cond-F	uS/cm		1336.2	4520.1	275.1	4784.8
pH-F	pH Units		7.77	7.32	7.29	7.85
Temp-F	C		14.501	11.988	10.172	10.837
DO-F	mg/L		-0.24	-0.35	1.03	-0.54
ORP-F	mV		-164.3	-187.7	-176.8	-361.7
Turb	NTU		5.2	16	1.8	0.49
Alk-T	mg/L		190	210	110	430
Acidity83	mg/L		<1.0	1.3	1.7	<1.0
N-D	mg/L		0.433	0.878	0.108	0.747
DOC	mg/L		1.2	1.1	1.3	1.6
Hydrox	mg/L		<1.0	<1.0	<1.0	<1.0
Bicarb	mg/L		230	250	130	490
Carb	mg/L		<1.0	<1.0	<1.0	20
Cl-D	mg/L	1500	280	1300	1.3	1300
F-D	mg/L		1.6	0.68	0.14	<0.050
Flu-CSR	mg/L		3.00	3.00	3.00	3.00
Br-D	mg/L		0.415	1.73	<0.010	2.20
P-D	mg/L		0.091	0.15	0.018	0.50
Al-D	mg/L		<0.0060	<0.015	<0.0030	<0.015
Ag-D	mg/L		<0.000040	<0.00010	<0.000020	<0.00010
Ag-CSR	mg/L		0.0150	0.0150	0.000500	0.0150
As-D	mg/L	0.05	0.178	0.145	0.0536	0.00442
Ba-D	mg/L	10	0.792	2.81	0.0505	0.245
B-D	mg/L	12	1.89	2.98	0.297	0.49
Be-D	mg/L	0.053	<0.00020	<0.00050	<0.00010	<0.00050
Bi-D	mg/L		<0.0020	<0.0050	<0.0010	<0.0050
Cd-D	mg/L		<0.000020	<0.000050	<0.000010	<0.000050
Cd-CSR	mg/L		0.000500	0.000600	0.000300	0.000600
Ca-D	mg/L		34.1	137	20.5	134
Cr-D	mg/L	0.01	<0.0020	<0.0050	<0.0010	<0.0050
Co-D	mg/L	0.009	<0.00040	<0.0010	<0.00020	<0.0010
Cu-D	mg/L		<0.00040	<0.0010	<0.00020	<0.0010
Cu-CSR	mg/L		0.0500	0.0900	0.0300	0.0900
Fe-D	mg/L		0.613	1.85	0.758	<0.025
Hard-D	mg/L		112	410	66.0	354
Pb-D	mg/L		<0.00040	<0.0010	<0.00020	<0.0010
Pb-CSR	mg/L		0.0600	0.160	0.0500	0.160
Mg-D	mg/L		6.53	16.5	3.60	4.79
Mn-D	mg/L		0.0592	0.150	0.0710	0.110
Na-D	mg/L		207	713	31.8	887
Mo-D	mg/L	10	<0.0020	<0.0050	<0.0010	<0.0050
Ni-D	mg/L		<0.0020	<0.0050	<0.0010	<0.0050
Ni-CSR	mg/L		0.650	1.50	0.650	1.50
K-D	mg/L		5.13	9.86	1.44	4.90
S-D	mg/L		<6.0	<15	12.8	525
Sb-D	mg/L	0.2	<0.0010	<0.0025	<0.00050	<0.0025
Se-D	mg/L	0.01	<0.00020	<0.00050	0.00078	0.0240
Si-D	mg/L		3.48	5.02	2.19	4.45
Sr-D	mg/L		0.836	2.70	0.213	1.62
Tl-D	mg/L	0.003	<0.000020	<0.000050	<0.000010	<0.000050
Ti-D	mg/L	1	<0.010	<0.025	<0.0050	<0.025
U-D	mg/L	3	<0.00020	<0.00050	<0.00010	<0.00050
V-D	mg/L		<0.010	<0.025	<0.0050	<0.025
Zn-D	mg/L		<0.010	<0.025	<0.0050	<0.025

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AW

Bold indicates 1/2 detection limit was used.

Appendix 1 - Tables

Table 32 Ex-situ and In-situ Groundwater 6 Page(s)

Description			7-S Ex-Situ Groundwater		
Well ID			QU1109S	QU0813A	QU0813A
*Station Type			GW	GW	GW
Surface Elevation (m asl)			227	221	221
H2O Level (below top of casing) (m asl)			224	207	206
Date			3-Jul-24	20-Aug-24	18-Sep-24
Parameter	Units	CSR-AW			
SO4-D	mg/L	1280	100	47	48
H2SEquiv	mg/L	0.02	1.49	0.266	0.298
Cond-F	uS/cm		939	514.8	526
pH-F	pH Units		8.02	7.46	7.63
Temp-F	C		11.1	10.346	11.094
DO-F	mg/L		0.46	-0.45	-0.33
ORP-F	mV		-185.2	-208.6	-179.6
Turb	NTU		11	2.4	2.2
Alk-T	mg/L		370	210	210
Acidity83	mg/L		<1.0	<1.0	<1.0
N-D	mg/L		0.346	0.299	0.284
DOC	mg/L		1.1	0.62	0.57
Hydrox	mg/L		<1.0	<1.0	<1.0
Bicarb	mg/L		430	260	260
Carb	mg/L		9.4	<1.0	<1.0
Cl-D	mg/L	1500	16	13	12
F-D	mg/L		0.50	0.67	0.73
Flu-CSR	mg/L		2.00	3.00	3.00
Br-D	mg/L		0.029	0.024	0.025
P-D	mg/L		0.046	0.088	0.11
Al-D	mg/L		<0.0030	<0.0030	0.0034
Ag-D	mg/L		<0.000020	<0.000020	<0.000020
Ag-CSR	mg/L		0.000500	0.0150	0.0150
As-D	mg/L	0.05	0.0960	0.325	0.366
Ba-D	mg/L	10	0.0556	0.154	0.155
B-D	mg/L	12	1.49	0.830	0.743
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		<0.000010	<0.000010	<0.000010
Cd-CSR	mg/L		0.000300	0.000500	0.000500
Ca-D	mg/L		11.3	40.0	40.8
Cr-D	mg/L	0.01	<0.0010	<0.0010	<0.0010
Co-D	mg/L	0.009	<0.00020	<0.00020	<0.00020
Cu-D	mg/L		<0.00020	<0.00020	<0.00020
Cu-CSR	mg/L		0.0200	0.0600	0.0600
Fe-D	mg/L		0.0266	0.169	0.158
Hard-D	mg/L		39.4	142	141
Pb-D	mg/L		<0.00020	<0.00020	<0.00020
Pb-CSR	mg/L		0.0400	0.0600	0.0600
Mg-D	mg/L		2.72	10.2	9.53
Mn-D	mg/L		0.0195	0.0323	0.0302
Na-D	mg/L		210	60.6	56.2
Mo-D	mg/L	10	<0.0010	<0.0010	<0.0010
Ni-D	mg/L		<0.0010	<0.0010	<0.0010
Ni-CSR	mg/L		0.250	1.10	1.10
K-D	mg/L		3.11	2.42	2.33
S-D	mg/L		44.9	20.3	16.1
Sb-D	mg/L	0.2	<0.00050	<0.00050	<0.00050
Se-D	mg/L	0.01	0.00168	0.00267	0.00058
Si-D	mg/L		5.98	4.03	3.82
Sr-D	mg/L		0.234	0.606	0.552
Tl-D	mg/L	0.003	<0.000010	<0.000010	<0.000010
Ti-D	mg/L	1	<0.0050	<0.0050	<0.0050
U-D	mg/L	3	<0.00010	<0.00010	<0.00010
V-D	mg/L		<0.0050	<0.0050	<0.0050
Zn-D	mg/L		<0.0050	<0.0050	<0.0050

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AW

Bold indicates 1/2 detection limit was used.

Appendix 1 - Tables

Table 32 Ex-situ and In-situ Groundwater 6 Page(s)

Description			7-S / 5-South Ex-Situ	4-S Ex-Situ	
Well ID			QU0808A	QU1009S	QU1009D
*Station Type			GW	GW	GW
Surface Elevation (m asl)			288	304	304
H2O Level (below top of casing) (m asl)			247	303	299
Date			27-Aug-24	17-Jul-24	17-Jul-24
Parameter	Units	CSR-AW			
SO4-D	mg/L	1280	39	100	61
H2SEquiv	mg/L	0.02	0.00351	0.00946	0.0957
Cond-F	uS/cm		376.9	518.7	489.3
pH-F	pH Units		7.38	6.7	7.27
Temp-F	C		15.814	11.243	9.84
DO-F	mg/L		0.59	-0.31	-0.46
ORP-F	mV		70.7	-99.6	-181
Turb	NTU		27	51	4.8
Alk-T	mg/L		170	140	180
Acidity83	mg/L		<1.0	<1.0	<1.0
N-D	mg/L		0.284	0.078	0.129
DOC	mg/L		2.6	10	10
Hydrox	mg/L		<1.0	<1.0	<1.0
Bicarb	mg/L		200	170	220
Carb	mg/L		<1.0	<1.0	<1.0
Cl-D	mg/L	1500	<1.0	<1.0	1.2
F-D	mg/L		0.48	<0.050	0.21
Flu-CSR	mg/L		3.00	3.00	3.00
Br-D	mg/L		<0.010	0.021	0.011
P-D	mg/L		0.091	0.028	0.031
Al-D	mg/L		0.0050	<0.0030	<0.0030
Ag-D	mg/L		<0.000020	<0.000020	<0.000020
Ag-CSR	mg/L		0.0150	0.0150	0.0150
As-D	mg/L	0.05	0.306	0.0837	0.111
Ba-D	mg/L	10	0.112	0.127	0.111
B-D	mg/L	12	0.449	0.063	0.547
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		<0.000010	<0.000010	<0.000010
Cd-CSR	mg/L		0.000600	0.000600	0.000600
Ca-D	mg/L		45.4	70.7	46.7
Cr-D	mg/L	0.01	<0.0010	<0.0010	<0.0010
Co-D	mg/L	0.009	<0.00020	<0.00020	<0.00020
Cu-D	mg/L		0.00075	<0.00020	<0.00020
Cu-CSR	mg/L		0.0700	0.0900	0.0700
Fe-D	mg/L		0.0642	4.29	0.454
Hard-D	mg/L		154	220	157
Pb-D	mg/L		<0.00020	<0.00020	<0.00020
Pb-CSR	mg/L		0.0600	0.110	0.0600
Mg-D	mg/L		9.88	10.5	9.73
Mn-D	mg/L		0.127	0.352	0.0397
Na-D	mg/L		20.6	8.93	35.4
Mo-D	mg/L	10	<0.0010	<0.0010	<0.0010
Ni-D	mg/L		<0.0010	<0.0010	<0.0010
Ni-CSR	mg/L		1.10	1.50	1.10
K-D	mg/L		1.68	0.643	1.59
S-D	mg/L		14.4	36.1	20.4
Sb-D	mg/L	0.2	0.00110	<0.00050	<0.00050
Se-D	mg/L	0.01	<0.00010	<0.00010	<0.00010
Si-D	mg/L		4.20	8.75	9.13
Sr-D	mg/L		0.673	0.263	0.880
Tl-D	mg/L	0.003	<0.000010	<0.000010	<0.000010
Ti-D	mg/L	1	<0.0050	<0.0050	<0.0050
U-D	mg/L	3	<0.00010	<0.00010	<0.00010
V-D	mg/L		<0.0050	<0.0050	<0.0050
Zn-D	mg/L		<0.0050	<0.0050	<0.0050

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AW

Bold indicates 1/2 detection limit was used.

Appendix 1 - Tables

Table 32 Ex-situ and In-situ Groundwater 6 Page(s)

Description			2 / 3 S In-Situ	2 / 3 South In-Situ	
Well ID			MW002	MW002	MW004
*Station Type			MW	MW	MW
Surface Elevation (m asl)			325	325	348
H2O Level (below top of casing) (m asl)			322	322	303
Date			10-Jul-24	10-Jul-24	10-Jul-24
Parameter	Units	CSR-AW	Replicate		
SO4-D	mg/L	1280	1200	1200	380
H2SEquiv	mg/L	0.02	0.000957	0.00330	0.000957
Cond-F	uS/cm		2427.2	2427.2	990.1
pH-F	pH Units		6.44	6.44	6.63
Temp-F	C		11.253	11.253	13.165
DO-F	mg/L		-0.38	-0.38	0.86
ORP-F	mV		-5.5	-5.5	145.3
Turb	NTU		65	68	2.1
Alk-T	mg/L		280	270	130
Acidity83	mg/L		14.3	15.8	3.1
N-D	mg/L		0.270	0.297	0.219
DOC	mg/L		0.86	0.84	1.8
Hydrox	mg/L		<1.0	<1.0	<1.0
Bicarb	mg/L		340	330	160
Carb	mg/L		<1.0	<1.0	<1.0
Cl-D	mg/L	1500	<1.0	1.2	<1.0
F-D	mg/L		0.092	0.094	0.058
Flu-CSR	mg/L		3.000	3.000	3.00
Br-D	mg/L		<0.10	<0.10	<0.010
P-D	mg/L		0.0041	0.0040	<0.0030
Al-D	mg/L		<0.0030	<0.0030	0.0046
Ag-D	mg/L		<0.000020	<0.000020	<0.000020
Ag-CSR	mg/L		0.01500	0.01500	0.0150
As-D	mg/L	0.05	0.00201	0.00206	0.00055
Ba-D	mg/L	10	0.0136	0.0133	0.0253
B-D	mg/L	12	0.684	0.700	0.233
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		<0.000010	<0.000010	<0.000010
Cd-CSR	mg/L		0.0006000	0.0006000	0.000600
Ca-D	mg/L		486	474	145
Cr-D	mg/L	0.01	<0.0010	<0.0010	<0.0010
Co-D	mg/L	0.009	0.00288	0.00297	<0.00020
Cu-D	mg/L		<0.00020	<0.00020	0.00095
Cu-CSR	mg/L		0.09000	0.09000	0.0900
Fe-D	mg/L		5.23	5.06	<0.0050
Hard-D	mg/L		1410	1390	431
Pb-D	mg/L		<0.00020	<0.00020	<0.00020
Pb-CSR	mg/L		0.1600	0.1600	0.160
Mg-D	mg/L		48.6	49.7	17.0
Mn-D	mg/L		1.73	1.78	0.0072
Na-D	mg/L		44.1	45.2	32.6
Mo-D	mg/L	10	<0.0010	<0.0010	<0.0010
Ni-D	mg/L		0.0022	0.0021	<0.0010
Ni-CSR	mg/L		1.500	1.500	1.50
K-D	mg/L		5.56	5.46	1.46
S-D	mg/L		421	427	129
Sb-D	mg/L	0.2	<0.00050	<0.00050	<0.00050
Se-D	mg/L	0.01	0.00113	0.00071	<0.00010
Si-D	mg/L		3.74	3.62	2.98
Sr-D	mg/L		4.36	4.40	1.16
Tl-D	mg/L	0.003	<0.000010	<0.000010	<0.000010
Ti-D	mg/L	1	<0.0050	<0.0050	<0.0050
U-D	mg/L	3	0.00034	0.00032	<0.00010
V-D	mg/L		<0.0050	<0.0050	<0.0050
Zn-D	mg/L		<0.0050	<0.0050	<0.0050

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AW

Bold indicates 1/2 detection limit was used.

Table 32 Ex-situ and In-situ Groundwater 6 Page(s)

Description			5-S In-Situ	2-N In-Situ
Well ID			QU0516W	QU1013D
*Station Type			MW	MW
Surface Elevation (m asl)			309	271
H2O Level (below top of casing) (m asl)			237	193
Date			18-Sep-24	12-Aug-24
Parameter	Units	CSR-AW		
SO4-D	mg/L	1280	140	280
H2SEquiv	mg/L	0.02	0.606	0.000957
Cond-F	uS/cm		1030.8	1707.9
pH-F	pH Units		8.18	6.84
Temp-F	C		8.848	9.844
DO-F	mg/L		-0.23	-0.04
ORP-F	mV		-210.5	-112.2
Turb	NTU		0.29	24
Alk-T	mg/L		340	510
Acidity83	mg/L		<1.0	<1.0
N-D	mg/L		0.190	0.350
DOC	mg/L		0.62	1.1
Hydrox	mg/L		<1.0	<1.0
Bicarb	mg/L		400	620
Carb	mg/L		7.8	<1.0
Cl-D	mg/L	1500	36	21
F-D	mg/L		1.7	0.093
Flu-CSR	mg/L		2.00	3.00
Br-D	mg/L		0.060	<0.10
P-D	mg/L		0.13	0.0087
Al-D	mg/L		<0.0060	<0.0030
Ag-D	mg/L		<0.000040	<0.000020
Ag-CSR	mg/L		0.000500	0.0150
As-D	mg/L	0.05	0.0188	0.00112
Ba-D	mg/L	10	0.0558	0.0428
B-D	mg/L	12	3.15	1.04
Be-D	mg/L	0.053	<0.00020	<0.00010
Bi-D	mg/L		<0.0020	<0.0010
Cd-D	mg/L		<0.000020	<0.000010
Cd-CSR	mg/L		0.000100	0.000600
Ca-D	mg/L		9.25	71.6
Cr-D	mg/L	0.01	<0.0020	<0.0010
Co-D	mg/L	0.009	<0.00040	<0.00020
Cu-D	mg/L		<0.00040	<0.00020
Cu-CSR	mg/L		0.0200	0.0900
Fe-D	mg/L		0.039	1.86
Hard-D	mg/L		27.5	210
Pb-D	mg/L		<0.00040	<0.00020
Pb-CSR	mg/L		0.0400	0.110
Mg-D	mg/L		1.06	7.65
Mn-D	mg/L		0.0428	0.310
Na-D	mg/L		236	277
Mo-D	mg/L	10	0.0021	<0.0010
Ni-D	mg/L		<0.0020	<0.0010
Ni-CSR	mg/L		0.250	1.50
K-D	mg/L		1.65	3.74
S-D	mg/L		52.4	104
Sb-D	mg/L	0.2	<0.0010	<0.00050
Se-D	mg/L	0.01	0.00230	<0.00010
Si-D	mg/L		3.57	3.69
Sr-D	mg/L		0.176	0.759
Tl-D	mg/L	0.003	<0.000020	<0.000010
Ti-D	mg/L	1	<0.010	<0.0050
U-D	mg/L	3	<0.00020	<0.00010
V-D	mg/L		<0.010	<0.0050
Zn-D	mg/L		<0.010	<0.0050

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AW

Bold indicates 1/2 detection limit was used.

Appendix 1 - Tables

Table 32 Ex-situ and In-situ Groundwater 6 Page(s)

Description			RBP In-Situ	7S 2-Mains In-Situ	242 In-Situ
Well ID			QU1109M	QU1410	242MW
*Station Type			MW	MW	MW
Surface Elevation (m asl)			227	240	290
H2O Level (below top of casing) (m asl)			183	239	267
Date			3-Jul-24	24-Jul-24	13-Aug-24
Parameter	Units	CSR-AW			
SO4-D	mg/L	1280	470	1800	26
H2SEquiv	mg/L	0.02	0.0149	0.000957	0.000957
Cond-F	uS/cm		1843	3028.2	280.5
pH-F	pH Units		7.14	6.55	6.33
Temp-F	C		8.9	11.91	9.946
DO-F	mg/L		1.06	-0.25	-0.034
ORP-F	mV		-2.2	-73.9	-91.2
Turb	NTU		60	36	49
Alk-T	mg/L		470	330	98
Acidity83	mg/L		2.0	19.3	1.1
N-D	mg/L		0.348	0.250	0.172
DOC	mg/L		0.77	32	<0.50
Hydrox	mg/L		<1.0	<1.0	<1.0
Bicarb	mg/L		580	410	120
Carb	mg/L		<1.0	<1.0	<1.0
Cl-D	mg/L	1500	29	3.4	<1.0
F-D	mg/L		0.086	0.14	0.072
Flu-CSR	mg/L		3.00	3.000	3.00
Br-D	mg/L		<0.10	<0.10	<0.010
P-D	mg/L		<0.0030	0.013	0.013
Al-D	mg/L		<0.0030	<0.015	<0.0030
Ag-D	mg/L		<0.000020	<0.00010	<0.000020
Ag-CSR	mg/L		0.0150	0.01500	0.0150
As-D	mg/L	0.05	0.00329	0.0995	0.106
Ba-D	mg/L	10	0.0139	0.0145	0.0741
B-D	mg/L	12	0.993	0.97	0.071
Be-D	mg/L	0.053	<0.00010	<0.00050	<0.00010
Bi-D	mg/L		<0.0010	<0.0050	<0.0010
Cd-D	mg/L		<0.000010	<0.000050	<0.000010
Cd-CSR	mg/L		0.000600	0.0006000	0.000500
Ca-D	mg/L		90.8	518	42.0
Cr-D	mg/L	0.01	<0.0010	<0.0050	<0.0010
Co-D	mg/L	0.009	<0.00020	<0.0010	0.00044
Cu-D	mg/L		<0.00020	<0.0010	<0.00020
Cu-CSR	mg/L		0.0900	0.09000	0.0500
Fe-D	mg/L		5.60	2.34	13.3
Hard-D	mg/L		265	2030	119
Pb-D	mg/L		<0.00020	<0.0010	<0.00020
Pb-CSR	mg/L		0.110	0.1600	0.0600
Mg-D	mg/L		9.24	179	3.45
Mn-D	mg/L		0.210	1.41	0.485
Na-D	mg/L		331	50.5	2.37
Mo-D	mg/L	10	0.0026	<0.0050	<0.0010
Ni-D	mg/L		<0.0010	<0.0050	<0.0010
Ni-CSR	mg/L		1.50	1.500	0.650
K-D	mg/L		4.70	7.25	0.422
S-D	mg/L		160	620	9.5
Sb-D	mg/L	0.2	<0.00050	<0.0025	<0.00050
Se-D	mg/L	0.01	<0.00010	<0.00050	<0.00010
Si-D	mg/L		3.87	3.30	3.58
Sr-D	mg/L		1.09	4.64	0.0601
Tl-D	mg/L	0.003	<0.000010	<0.000050	<0.000010
Ti-D	mg/L	1	<0.0050	<0.025	<0.0050
U-D	mg/L	3	<0.00010	0.00083	<0.00010
V-D	mg/L		<0.0050	<0.025	<0.0050
Zn-D	mg/L		<0.0050	<0.025	<0.0050

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AW

Bold indicates 1/2 detection limit was used.

Appendix 1 - Tables

Table 33 In-situ Minewater 9 Page(s)

Description			2-North In-Situ	
Well ID			5M#2	5M#2
*Station Type			MW	MW
Surface Elevation (m asl)			268	268
H2O Level (below top of casing) (m asl)			197	268
Date			19-Aug-24	16-Sep-24
Parameter	Units	CSR-AW		
SO4-D	mg/L	1280	150	150
H2SEquiv	mg/L	0.02	0.0159	0.0393
Cond-F	uS/cm		1367	1376
pH-F	pH Units		7.49	7.19
Temp-F	C		10.9	12.2
DO-F	mg/L			
ORP-F	mV			
Turb	NTU		4.1	5.4
Alk-T	mg/L		560	580
Acidity83	mg/L		<1.0	<1.0
N-D	mg/L		0.419	0.187
DOC	mg/L		0.78	0.97
Hydrox	mg/L		<1.0	<1.0
Bicarb	mg/L		690	700
Carb	mg/L		<1.0	<1.0
Cl-D	mg/L	1500	9.8	10
F-D	mg/L		<0.050	<0.050
Flu-CSR	mg/L		3.00	3.00
Br-D	mg/L		0.017	0.018
P-D	mg/L		<0.0030	0.0032
Al-D	mg/L		<0.0030	<0.0030
Ag-D	mg/L		<0.000020	<0.000020
Ag-CSR	mg/L		0.0150	0.0150
As-D	mg/L	0.05	0.00730	0.00745
Ba-D	mg/L	10	0.0292	0.0297
B-D	mg/L	12	0.861	0.895
Be-D	mg/L	0.053	<0.00010	<0.00010
Bi-D	mg/L		<0.0010	<0.0010
Cd-D	mg/L		<0.000010	<0.000010
Cd-CSR	mg/L		0.000600	0.000600
Ca-D	mg/L		66.9	68.9
Cr-D	mg/L	0.01	<0.0010	<0.0010
Co-D	mg/L	0.009	<0.00020	<0.00020
Cu-D	mg/L		<0.00020	<0.00020
Cu-CSR	mg/L		0.0800	0.0800
Fe-D	mg/L		0.640	0.684
Hard-D	mg/L		190	195
Pb-D	mg/L		<0.00020	<0.00020
Pb-CSR	mg/L		0.0600	0.0600
Mg-D	mg/L		5.52	5.51
Mn-D	mg/L		0.138	0.137
Na-D	mg/L		231	228
Mo-D	mg/L	10	<0.0010	<0.0010
Ni-D	mg/L		<0.0010	<0.0010
Ni-CSR	mg/L		1.50	1.50
K-D	mg/L		2.55	2.56
S-D	mg/L		53.8	51.4
Sb-D	mg/L	0.2	<0.00050	<0.00050
Se-D	mg/L	0.01	<0.00010	<0.00010
Si-D	mg/L		3.45	3.56
Sr-D	mg/L		0.701	0.722
Tl-D	mg/L	0.003	<0.000010	<0.000010
Ti-D	mg/L	1	<0.0050	<0.0050
U-D	mg/L	3	<0.00010	<0.00010
V-D	mg/L		<0.0050	<0.0050
Zn-D	mg/L		<0.0050	<0.0050
Zn-CSR	mg/L		0.900	0.900
N-NH3	mg/L		0.099	0.10
NH3-CSR	mg/L		18.5	18.5

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AW

Bold number indicates 1/2 detection limit was used.

Appendix 1 - Tables

Table 33 In-situ Minewater 9 Page(s)

Description		2-North In-Situ		
Well ID		1M2N		1M2N
*Station Type		MW		MW
Surface Elevation (m asl)		262		262
H2O Level (below top of casing) (m asl)		192		262
Date		19-Aug-24		16-Sep-24
Parameter	Units	CSR-AW		
SO4-D	mg/L	1280	330	390
H2SEquiv	mg/L	0.02	0.181	0.308
Cond-F	uS/cm		1594	1743
pH-F	pH Units		7.23	7.2
Temp-F	C		10.8	11.3
DO-F	mg/L			
ORP-F	mV			
Turb	NTU		30	19
Alk-T	mg/L		480	510
Acidity83	mg/L		3.7	<1.0
N-D	mg/L		0.334	0.305
DOC	mg/L		0.71	0.73
Hydrox	mg/L		<1.0	<1.0
Bicarb	mg/L		590	620
Carb	mg/L		<1.0	<1.0
Cl-D	mg/L	1500	19	19
F-D	mg/L		0.14	0.12
Flu-CSR	mg/L		3.00	3.00
Br-D	mg/L		0.036	0.038
P-D	mg/L		<0.0030	<0.0030
Al-D	mg/L		<0.0030	<0.0030
Ag-D	mg/L		<0.000020	<0.000020
Ag-CSR	mg/L		0.0150	0.0150
As-D	mg/L	0.05	0.00649	0.00814
Ba-D	mg/L	10	0.0237	0.0255
B-D	mg/L	12	0.970	1.05
Be-D	mg/L	0.053	<0.00010	<0.00010
Bi-D	mg/L		<0.0010	<0.0010
Cd-D	mg/L		<0.000010	<0.000010
Cd-CSR	mg/L		0.000600	0.000600
Ca-D	mg/L		82.8	102
Cr-D	mg/L	0.01	<0.0010	<0.0010
Co-D	mg/L	0.009	<0.00020	<0.00020
Cu-D	mg/L		<0.00020	<0.00020
Cu-CSR	mg/L		0.0900	0.0900
Fe-D	mg/L		2.19	2.71
Hard-D	mg/L		244	301
Pb-D	mg/L		<0.00020	<0.00020
Pb-CSR	mg/L		0.110	0.160
Mg-D	mg/L		8.94	11.1
Mn-D	mg/L		0.259	0.331
Na-D	mg/L		249	282
Mo-D	mg/L	10	<0.0010	<0.0010
Ni-D	mg/L		<0.0010	<0.0010
Ni-CSR	mg/L		1.50	1.50
K-D	mg/L		3.83	4.47
S-D	mg/L		115	147
Sb-D	mg/L	0.2	<0.00050	<0.00050
Se-D	mg/L	0.01	<0.00010	<0.00010
Si-D	mg/L		3.45	3.70
Sr-D	mg/L		0.860	1.03
Tl-D	mg/L	0.003	<0.000010	<0.000010
Ti-D	mg/L	1	<0.0050	<0.0050
U-D	mg/L	3	<0.00010	<0.00010
V-D	mg/L		<0.0050	<0.0050
Zn-D	mg/L		<0.0050	<0.0050
Zn-CSR	mg/L		1.650	2.400
N-NH3	mg/L		0.21	0.22
NH3-CSR	mg/L		18.5	18

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AW

Bold number indicates 1/2 detection limit was used.

Appendix 1 - Tables

Table 33 In-situ Minewater 9 Page(s)

Description			2-North In-Situ		
Well ID			3M2N	3M2N	3M2N
*Station Type			MW	MW	MW
Surface Elevation (m asl)					
H2O Level (below top of casing) (m asl)					
Date			24-Jul-24	28-Aug-24	25-Sep-24
Parameter	Units	CSR-AW			
SO4-D	mg/L	1280	730	760	750
H2SEquiv	mg/L	0.02	0.000957	0.000957	0.000957
Cond-F	uS/cm		2090	2090	2220
pH-F	pH Units		7.23	7.27	7.2
Temp-F	C		12.5	11.5	12.7
DO-F	mg/L				
ORP-F	mV				
Turb	NTU		5.4	8.0	9.7
Alk-T	mg/L		390	390	390
Acidity83	mg/L		7.2	<1.0	2.2
N-D	mg/L		0.166	0.254	0.208
DOC	mg/L		21	<0.50	0.61
Hydrox	mg/L		<1.0	<1.0	<1.0
Bicarb	mg/L		470	480	480
Carb	mg/L		<1.0	<1.0	<1.0
Cl-D	mg/L	1500	2.8	2.5	3.0
F-D	mg/L		0.11	0.12	0.11
Flu-CSR	mg/L		3.00	3.00	3.00
Br-D	mg/L		<0.10	<0.10	<0.010
P-D	mg/L		<0.0030	<0.0030	<0.0030
Al-D	mg/L		<0.0030	<0.0030	0.0110
Ag-D	mg/L		<0.000020	<0.000020	<0.000020
Ag-CSR	mg/L		0.0150	0.0150	0.0150
As-D	mg/L	0.05	0.00029	0.00019	0.00024
Ba-D	mg/L	10	0.0140	0.0136	0.0145
B-D	mg/L	12	0.795	0.748	0.840
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		<0.000010	0.000011	0.000010
Cd-CSR	mg/L		0.000600	0.000600	0.000600
Ca-D	mg/L		145	145	150
Cr-D	mg/L	0.01	<0.0010	<0.0010	<0.0010
Co-D	mg/L	0.009	0.00068	0.00144	0.00222
Cu-D	mg/L		<0.00020	0.00027	0.00138
Cu-CSR	mg/L		0.0900	0.0900	0.0900
Fe-D	mg/L		0.134	0.0475	0.0881
Hard-D	mg/L		444	441	460
Pb-D	mg/L		<0.00020	<0.00020	<0.00020
Pb-CSR	mg/L		0.160	0.160	0.160
Mg-D	mg/L		20.2	19.2	20.7
Mn-D	mg/L		0.169	0.179	0.183
Na-D	mg/L		332	305	321
Mo-D	mg/L	10	<0.0010	<0.0010	<0.0010
Ni-D	mg/L		0.0014	0.0025	0.0035
Ni-CSR	mg/L		1.50	1.50	1.50
K-D	mg/L		3.69	3.33	3.62
S-D	mg/L		271	253	269
Sb-D	mg/L	0.2	<0.00050	<0.00050	0.00064
Se-D	mg/L	0.01	<0.00010	<0.00010	<0.00010
Si-D	mg/L		3.25	3.11	3.32
Sr-D	mg/L		1.61	1.41	1.51
Tl-D	mg/L	0.003	<0.000010	<0.000010	<0.000010
Ti-D	mg/L	1	<0.0050	<0.0050	<0.0050
U-D	mg/L	3	<0.00010	<0.00010	0.00012
V-D	mg/L		<0.0050	<0.0050	<0.0050
Zn-D	mg/L		<0.0050	<0.0050	<0.0050
Zn-CSR	mg/L		2.400	2.400	2.400
N-NH3	mg/L		0.11	0.12	0.13
NH3-CSR	mg/L		18.5	18.5	18

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AW

Bold number indicates 1/2 detection limit was used.

Appendix 1 - Tables

Table 33 In-situ Minewater 9 Page(s)

Description		2 / 3 South In-Situ			
Well ID			INF	INF	INF
*Station Type			MW	MW	MW
Surface Elevation (m asl)			354	354	354
H2O Level (below top of casing) (m asl)			354	343	343
Date			2-Jul-24	7-Aug-24	9-Sep-24
Parameter	Units	CSR-AW			
SO4-D	mg/L	1280	610	600	600
H2SEquiv	mg/L	0.02	0.0159	0.00510	0.00404
Cond-F	uS/cm		1579	1605	1807
pH-F	pH Units		7.07	7	6.98
Temp-F	C		15.7	10.7	9.6
DO-F	mg/L				
ORP-F	mV				
Turb	NTU		62	46	38
Alk-T	mg/L		250	270	270
Acidity83	mg/L		7.4	<1.0	4.8
N-D	mg/L				
DOC	mg/L				
Hydrox	mg/L		<1.0	<1.0	<1.0
Bicarb	mg/L		300	330	330
Carb	mg/L		<1.0	<1.0	<1.0
Cl-D	mg/L	1500	<1.0		
F-D	mg/L		0.13		
Flu-CSR	mg/L		3.00	3.00	3.00
Br-D	mg/L		<0.10		
P-D	mg/L				
Al-D	mg/L		<0.0030	<0.0060	0.0610
Ag-D	mg/L		<0.000020	<0.000040	<0.000040
Ag-CSR	mg/L		0.0150	0.0150	0.0150
As-D	mg/L	0.05	0.00447	0.00392	0.00390
Ba-D	mg/L	10	0.0194	0.0204	0.0188
B-D	mg/L	12	0.836	0.84	0.75
Be-D	mg/L	0.053	<0.00010	<0.00020	<0.00020
Bi-D	mg/L		<0.0010	<0.0020	<0.0020
Cd-D	mg/L		<0.000010	<0.000020	<0.000020
Cd-CSR	mg/L		0.000600	0.000600	0.000600
Ca-D	mg/L		239	243	230
Cr-D	mg/L	0.01	<0.0010	<0.0020	<0.0020
Co-D	mg/L	0.009	0.00057	0.00049	0.00049
Cu-D	mg/L		<0.00020	<0.00040	<0.00040
Cu-CSR	mg/L		0.0900	0.0900	0.0900
Fe-D	mg/L		4.94	3.21	3.07
Hard-D	mg/L		666	678	640
Pb-D	mg/L		<0.00020	<0.00040	<0.00040
Pb-CSR	mg/L		0.160	0.160	0.160
Mg-D	mg/L		16.7	17.3	16.0
Mn-D	mg/L		0.396	0.440	0.359
Na-D	mg/L		105	110	103
Mo-D	mg/L	10	<0.0010	<0.0020	<0.0020
Ni-D	mg/L		<0.0010	<0.0020	<0.0020
Ni-CSR	mg/L		1.50	1.50	1.50
K-D	mg/L		2.01	2.07	1.76
S-D	mg/L		220	235	207
Sb-D	mg/L	0.2	<0.00050	<0.0010	<0.0010
Se-D	mg/L	0.01	0.00040	0.00045	<0.00020
Si-D	mg/L		3.49	3.37	2.94
Sr-D	mg/L		2.24	2.49	2.06
Tl-D	mg/L	0.003	<0.000010	<0.000020	<0.000020
Ti-D	mg/L	1	<0.0050	<0.010	<0.010
U-D	mg/L	3	<0.00010	<0.00020	<0.00020
V-D	mg/L		<0.0050	<0.010	<0.010
Zn-D	mg/L		<0.0050	<0.010	<0.010
Zn-CSR	mg/L		2.400	2.400	2.400
N-NH3	mg/L		0.047		0.063
NH3-CSR	mg/L		18.5	20	18.4

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AW

Bold number indicates 1/2 detection limit was used.

Appendix 1 - Tables

Table 33 In-situ Minewater 9 Page(s)

Description			7-South Potal Sump In-Situ		
Well ID			7SPS	7SPS	7SPS
*Station Type			MW	MW	MW
Surface Elevation (m asl)					
H2O Level (below top of casing) (m asl)					
Date			2-Jul-24	6-Aug-24	9-Sep-24
Parameter	Units	CSR-AW			
SO4-D	mg/L	1280	260	340	290
H2SEquiv	mg/L	0.02			
Cond-F	uS/cm		666	864	822
pH-F	pH Units		6.85	7.47	7.68
Temp-F	C		23.3	26.2	21.8
DO-F	mg/L				
ORP-F	mV				
Turb	NTU				
Alk-T	mg/L		77	120	99
Acidity83	mg/L		1.4	<1.0	<1.0
N-D	mg/L				
DOC	mg/L			3.3	
Hydrox	mg/L		<1.0	<1.0	<1.0
Bicarb	mg/L		94	150	120
Carb	mg/L		<1.0	<1.0	<1.0
Cl-D	mg/L	1500			
F-D	mg/L				
Flu-CSR	mg/L		3.00	3.00	3.00
Br-D	mg/L				
P-D	mg/L				
Al-D	mg/L		0.0034	0.0034	0.0631
Ag-D	mg/L		<0.000020	<0.000020	<0.000020
Ag-CSR	mg/L		0.0150	0.0150	0.0150
As-D	mg/L	0.05	0.00036	0.00029	0.00044
Ba-D	mg/L	10	0.0180	0.0201	0.0204
B-D	mg/L	12	0.125	0.112	0.107
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		0.000026	<0.000010	0.000010
Cd-CSR	mg/L		0.000600	0.000600	0.000600
Ca-D	mg/L		96.7	132	108
Cr-D	mg/L	0.01	<0.0010	<0.0010	<0.0010
Co-D	mg/L	0.009	0.00553	0.00078	0.00105
Cu-D	mg/L		0.00092	0.00070	0.00154
Cu-CSR	mg/L		0.0900	0.0900	0.0900
Fe-D	mg/L		0.272	0.0880	1.29
Hard-D	mg/L		328	451	362
Pb-D	mg/L		<0.00020	<0.00020	<0.00020
Pb-CSR	mg/L		0.160	0.160	0.160
Mg-D	mg/L		21.0	29.7	22.1
Mn-D	mg/L		0.296	0.112	0.0790
Na-D	mg/L		6.15	13.0	10.7
Mo-D	mg/L	10	<0.0010	<0.0010	<0.0010
Ni-D	mg/L		0.0111	0.0051	0.0040
Ni-CSR	mg/L		1.50	1.50	1.50
K-D	mg/L		0.871	1.32	1.34
S-D	mg/L		90.7	119	104
Sb-D	mg/L	0.2	<0.00050	<0.00050	<0.00050
Se-D	mg/L	0.01	0.00011	0.00011	0.00012
Si-D	mg/L		6.23	4.83	5.28
Sr-D	mg/L		0.370	0.475	0.378
Tl-D	mg/L	0.003	<0.000010	<0.000010	<0.000010
Ti-D	mg/L	1	<0.0050	<0.0050	<0.0050
U-D	mg/L	3	0.00018	0.00026	0.00022
V-D	mg/L		<0.0050	<0.0050	<0.0050
Zn-D	mg/L		0.0108	<0.0050	<0.0050
Zn-CSR	mg/L		2.400	2.400	2.400
N-NH3	mg/L				
NH3-CSR	mg/L		18.4	18.5	11.3

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AW

Bold number indicates 1/2 detection limit was used.

Appendix 1 - Tables

Table 33 In-situ Minewater 9 Page(s)

Description			In-situ 7-South Underground Sump		
Well ID			1M7SA5	1M7SA5	1M7SA5
*Station Type			MW	MW	MW
Surface Elevation (m asl)					
H2O Level (below top of casing) (m asl)					
Date			24-Jul-24	28-Aug-24	25-Sep-24
Parameter	Units	CSR-AW			
SO4-D	mg/L	1280	150	180	200
H2SEquiv	mg/L	0.02	0.000957	0.00298	0.000957
Cond-F	uS/cm		544	578	663
pH-F	pH Units		7.11	7.68	7.66
Temp-F	C		9.4	10	10.7
DO-F	mg/L				
ORP-F	mV				
Turb	NTU		1.7	1.1	2.0
Alk-T	mg/L		130	120	130
Acidity83	mg/L		1.5	<1.0	2.8
N-D	mg/L		0.215	0.195	0.221
DOC	mg/L		5.0	0.81	0.92
Hydrox	mg/L		<1.0	<1.0	<1.0
Bicarb	mg/L		150	140	150
Carb	mg/L		<1.0	<1.0	<1.0
Cl-D	mg/L	1500	<1.0	<1.0	<1.0
F-D	mg/L		0.33	0.35	0.34
Flu-CSR	mg/L		3.00	3.00	3.00
Br-D	mg/L		<0.010	0.012	0.012
P-D	mg/L		<0.0030	<0.0030	<0.0030
Al-D	mg/L		0.0088	0.0049	0.0092
Ag-D	mg/L		<0.000020	<0.000020	<0.000020
Ag-CSR	mg/L		0.0150	0.0150	0.0150
As-D	mg/L	0.05	0.00554	0.00128	0.00264
Ba-D	mg/L	10	0.0930	0.0786	0.101
B-D	mg/L	12	0.438	0.403	0.517
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		<0.000010	0.000012	0.000014
Cd-CSR	mg/L		0.000600	0.000600	0.000600
Ca-D	mg/L		73.7	73.0	81.3
Cr-D	mg/L	0.01	<0.0010	0.0036	<0.0010
Co-D	mg/L	0.009	0.00116	0.00170	0.00253
Cu-D	mg/L		0.00044	0.00037	0.00040
Cu-CSR	mg/L		0.0900	0.0900	0.0900
Fe-D	mg/L		0.199	0.139	0.0995
Hard-D	mg/L		255	253	289
Pb-D	mg/L		<0.00020	<0.00020	<0.00020
Pb-CSR	mg/L		0.110	0.110	0.110
Mg-D	mg/L		17.1	17.2	20.8
Mn-D	mg/L		0.0691	0.0921	0.105
Na-D	mg/L		17.3	16.3	17.5
Mo-D	mg/L	10	<0.0010	<0.0010	<0.0010
Ni-D	mg/L		0.0034	0.0042	0.0054
Ni-CSR	mg/L		1.50	1.50	1.50
K-D	mg/L		1.76	1.73	1.98
S-D	mg/L		56.0	57.1	70.2
Sb-D	mg/L	0.2	<0.00050	<0.00050	<0.00050
Se-D	mg/L	0.01	<0.00010	<0.00010	<0.00010
Si-D	mg/L		3.95	3.38	4.05
Sr-D	mg/L		0.591	0.547	0.625
Tl-D	mg/L	0.003	0.000020	0.000040	0.000028
Ti-D	mg/L	1	<0.0050	<0.0050	<0.0050
U-D	mg/L	3	<0.00010	<0.00010	<0.00010
V-D	mg/L		<0.0050	<0.0050	<0.0050
Zn-D	mg/L		<0.0050	<0.0050	0.0063
Zn-CSR	mg/L		1.650	1.650	1.650
N-NH3	mg/L		0.027	0.020	<0.015
NH3-CSR	mg/L		18.5	11.3	11.3

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AW

Bold number indicates 1/2 detection limit was used.

Appendix 1 - Tables

Table 33 In-situ Minewater 9 Page(s)

Description			In-situ 7-South Underground Sump		
Well ID			7SA5	7SA5	7SA5
*Station Type			MW	MW	MW
Surface Elevation (m asl)					
H2O Level (below top of casing) (m asl)					
Date			24-Jul-24	28-Aug-24	25-Sep-24
Parameter	Units	CSR-AW			
SO4-D	mg/L	1280	71	79	74
H2SEquiv	mg/L	0.02	0.000957	0.000957	0.000957
Cond-F	uS/cm		459	441	471
pH-F	pH Units		7.8	7.52	7.7
Temp-F	C		9.7	10	10.4
DO-F	mg/L				
ORP-F	mV				
Turb	NTU		4.2	4.4	2.1
Alk-T	mg/L		150	150	160
Acidity83	mg/L		1.1	<1.0	1.2
N-D	mg/L		0.284	0.330	0.285
DOC	mg/L		7.8	1.0	1.1
Hydrox	mg/L		<1.0	<1.0	<1.0
Bicarb	mg/L		190	180	190
Carb	mg/L		<1.0	<1.0	<1.0
Cl-D	mg/L	1500	<1.0	<1.0	<1.0
F-D	mg/L		0.36	0.39	0.39
Flu-CSR	mg/L		3.00	3.00	3.00
Br-D	mg/L		<0.010	<0.010	<0.010
P-D	mg/L		0.020	<0.0030	0.0031
Al-D	mg/L		0.0078	<0.0030	0.0059
Ag-D	mg/L		<0.000020	<0.000020	<0.000020
Ag-CSR	mg/L		0.0150	0.0150	0.0150
As-D	mg/L	0.05	0.0230	0.00211	0.0146
Ba-D	mg/L	10	0.318	0.281	0.277
B-D	mg/L	12	0.492	0.455	0.488
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		<0.000010	0.000016	<0.000010
Cd-CSR	mg/L		0.000600	0.000600	0.000600
Ca-D	mg/L		56.4	52.1	52.8
Cr-D	mg/L	0.01	<0.0010	<0.0010	<0.0010
Co-D	mg/L	0.009	0.00171	0.00321	0.00188
Cu-D	mg/L		0.00101	0.00081	0.00077
Cu-CSR	mg/L		0.0800	0.0800	0.0800
Fe-D	mg/L		0.184	0.0989	0.0837
Hard-D	mg/L		191	177	180
Pb-D	mg/L		<0.00020	<0.00020	<0.00020
Pb-CSR	mg/L		0.0600	0.0600	0.0600
Mg-D	mg/L		12.2	11.3	11.8
Mn-D	mg/L		0.0677	0.103	0.0671
Na-D	mg/L		20.2	19.0	20.6
Mo-D	mg/L	10	<0.0010	<0.0010	<0.0010
Ni-D	mg/L		0.0039	0.0064	0.0040
Ni-CSR	mg/L		1.50	1.10	1.50
K-D	mg/L		2.15	1.99	2.13
S-D	mg/L		28.0	24.4	24.7
Sb-D	mg/L	0.2	<0.00050	<0.00050	<0.00050
Se-D	mg/L	0.01	<0.00010	<0.00010	<0.00010
Si-D	mg/L		4.59	4.07	4.78
Sr-D	mg/L		0.557	0.486	0.517
Tl-D	mg/L	0.003	<0.000010	<0.000010	<0.000010
Ti-D	mg/L	1	<0.0050	<0.0050	<0.0050
U-D	mg/L	3	<0.00010	<0.00010	<0.00010
V-D	mg/L		<0.0050	<0.0050	<0.0050
Zn-D	mg/L		<0.0050	0.0060	<0.0050
Zn-CSR	mg/L		0.900	0.900	0.900
N-NH3	mg/L		0.055	0.031	<0.015
NH3-CSR	mg/L		11	11.3	11

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AW

Bold number indicates 1/2 detection limit was used.

Appendix 1 - Tables

Table 33 In-situ Minewater 9 Page(s)

Description			In-situ 7-South Underground Sump		
Well ID			2M7S	2M7S	2M7S
*Station Type			MW	MW	MW
Surface Elevation (m asl)					
H2O Level (below top of casing) (m asl)					
Date			24-Jul-24	28-Aug-24	25-Sep-24
Parameter	Units	CSR-AW			
SO4-D	mg/L	1280	240	250	280
H2SEquiv	mg/L	0.02	0.000957	0.000957	0.000957
Cond-F	uS/cm		613	664	745
pH-F	pH Units		7.21	7.7	7.67
Temp-F	C		8.7	6.3	10.1
DO-F	mg/L				
ORP-F	mV				
Turb	NTU		5.6	0.78	1.8
Alk-T	mg/L		76	73	79
Acidity83	mg/L		1.9	<1.0	2.5
N-D	mg/L		0.155	0.182	0.252
DOC	mg/L		4.6	1.1	1.1
Hydrox	mg/L		<1.0	<1.0	<1.0
Bicarb	mg/L		93	89	96
Carb	mg/L		<1.0	<1.0	<1.0
Cl-D	mg/L	1500	<1.0	<1.0	<1.0
F-D	mg/L		0.12	0.12	0.15
Flu-CSR	mg/L		3.00	3.00	3.00
Br-D	mg/L		<0.010	0.014	0.016
P-D	mg/L		<0.0030	<0.0030	<0.0030
Al-D	mg/L		<0.0030	<0.0030	0.0037
Ag-D	mg/L		<0.000020	<0.000020	<0.000020
Ag-CSR	mg/L		0.0150	0.0150	0.0150
As-D	mg/L	0.05	0.00036	0.00018	0.00034
Ba-D	mg/L	10	0.0313	0.0256	0.0328
B-D	mg/L	12	0.214	0.188	0.280
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		0.000012	0.000011	0.000020
Cd-CSR	mg/L		0.000600	0.000600	0.000600
Ca-D	mg/L		97.8	93.3	109
Cr-D	mg/L	0.01	<0.0010	<0.0010	<0.0010
Co-D	mg/L	0.009	0.00249	0.00209	0.00470
Cu-D	mg/L		0.00030	<0.00020	0.00027
Cu-CSR	mg/L		0.0900	0.0900	0.0900
Fe-D	mg/L		0.105	0.0575	0.0589
Hard-D	mg/L		317	303	356
Pb-D	mg/L		<0.00020	<0.00020	<0.00020
Pb-CSR	mg/L		0.160	0.160	0.160
Mg-D	mg/L		17.7	16.9	20.3
Mn-D	mg/L		0.125	0.103	0.167
Na-D	mg/L		7.65	7.10	9.48
Mo-D	mg/L	10	<0.0010	<0.0010	<0.0010
Ni-D	mg/L		0.0063	0.0060	0.0090
Ni-CSR	mg/L		1.50	1.50	1.50
K-D	mg/L		1.09	1.02	1.34
S-D	mg/L		88.7	77.5	99.4
Sb-D	mg/L	0.2	<0.00050	<0.00050	<0.00050
Se-D	mg/L	0.01	0.00012	0.00012	0.00012
Si-D	mg/L		3.06	2.81	3.05
Sr-D	mg/L		0.519	0.452	0.547
Tl-D	mg/L	0.003	0.000089	0.000071	0.000065
Ti-D	mg/L	1	<0.0050	<0.0050	<0.0050
U-D	mg/L	3	<0.00010	<0.00010	<0.00010
V-D	mg/L		<0.0050	<0.0050	<0.0050
Zn-D	mg/L		0.0100	0.0120	0.0088
Zn-CSR	mg/L		2.400	2.400	2.400
N-NH3	mg/L		<0.015	<0.015	<0.015
NH3-CSR	mg/L		18.5	11	11.3

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AW

Bold number indicates 1/2 detection limit was used.

Appendix 1 - Tables

Table 33 In-situ Minewater 9 Page(s)

Description			In-situ 7-South Underground Sump		
Well ID			3M7S	3M7S	3M7S
*Station Type			MW	MW	MW
Surface Elevation (m asl)					
H2O Level (below top of casing) (m asl)					
Date			24-Jul-24	28-Aug-24	25-Sep-24
Parameter	Units	CSR-AW			
SO4-D	mg/L	1280	850	840	840
H2SEquiv	mg/L	0.02	0.000957	0.000957	0.000957
Cond-F	uS/cm		1627	1663	1728
pH-F	pH Units		7.06	7.24	6.98
Temp-F	C		7.3	7.7	8.1
DO-F	mg/L				
ORP-F	mV				
Turb	NTU		2.2	2.4	2.8
Alk-T	mg/L		97	98	72
Acidity83	mg/L		4.8	1.5	4.6
N-D	mg/L		0.085	0.616	0.101
DOC	mg/L		4.9	<0.50	0.51
Hydrox	mg/L		<1.0	<1.0	<1.0
Bicarb	mg/L		120	120	87
Carb	mg/L		<1.0	<1.0	<1.0
Cl-D	mg/L	1500	1.6	1.1	1.0
F-D	mg/L		0.26	0.24	0.21
Flu-CSR	mg/L		3.00	3.00	3.00
Br-D	mg/L		<0.10	<0.10	<0.010
P-D	mg/L		<0.0030	<0.0030	<0.0030
Al-D	mg/L		<0.0060	<0.0060	<0.0060
Ag-D	mg/L		<0.000040	<0.000040	<0.000040
Ag-CSR	mg/L		0.0150	0.0150	0.0150
As-D	mg/L	0.05	<0.00020	<0.00020	<0.00020
Ba-D	mg/L	10	0.0221	0.0201	0.0217
B-D	mg/L	12	0.95	0.82	0.88
Be-D	mg/L	0.053	<0.00020	<0.00020	<0.00020
Bi-D	mg/L		<0.0020	<0.0020	<0.0020
Cd-D	mg/L		0.000022	0.000026	0.000048
Cd-CSR	mg/L		0.000600	0.000600	0.000600
Ca-D	mg/L		280	272	273
Cr-D	mg/L	0.01	<0.0020	<0.0020	<0.0020
Co-D	mg/L	0.009	0.00458	0.00290	0.0130
Cu-D	mg/L		<0.00040	<0.00040	<0.00040
Cu-CSR	mg/L		0.0900	0.0900	0.0900
Fe-D	mg/L		0.145	0.028	0.096
Hard-D	mg/L		978	930	952
Pb-D	mg/L		<0.00040	<0.00040	<0.00040
Pb-CSR	mg/L		0.160	0.160	0.160
Mg-D	mg/L		67.6	61.0	65.6
Mn-D	mg/L		0.145	0.117	0.296
Na-D	mg/L		30.7	26.9	26.8
Mo-D	mg/L	10	<0.0020	<0.0020	<0.0020
Ni-D	mg/L		0.0166	0.0145	0.0244
Ni-CSR	mg/L		1.50	1.50	1.50
K-D	mg/L		4.62	4.20	4.07
S-D	mg/L		328	286	308
Sb-D	mg/L	0.2	<0.0010	<0.0010	<0.0010
Se-D	mg/L	0.01	<0.00020	<0.00020	<0.00020
Si-D	mg/L		3.18	2.88	2.97
Sr-D	mg/L		2.97	2.37	2.43
Tl-D	mg/L	0.003	<0.000020	<0.000020	0.000023
Ti-D	mg/L	1	<0.010	<0.010	<0.010
U-D	mg/L	3	<0.00020	<0.00020	<0.00020
V-D	mg/L		<0.010	<0.010	<0.010
Zn-D	mg/L		0.013	<0.010	0.021
Zn-CSR	mg/L		2.400	2.400	2.400
N-NH3	mg/L		0.024	<0.015	0.017
NH3-CSR	mg/L		18.5	18.5	18.4

Notes:

Station Type: Mine Water (MW) and Groundwater (GW).

** Calculated Parameters

Bold Red results above CSR - AW

Bold number indicates 1/2 detection limit was used.

Appendix 1 - Tables

Table 34 Seepage Near QU1109 (S) 1 Page(s)

EMS ID	Stn Std			Max-WQG		
Site Description	Seepage near QU1109					
Site Name	S	Std Val				
Date		Acute	Chronic	03-07-2024	07-08-2024	09-09-2024
Flow	m3/s			0.000175	0.000031	0.00075
pH-F	pH Units		6.5 - 9.0	8.02	7.92	8.24
Cond-F	uS/cm			1082	1448	1318
SO4-D	mg/L		≤ 309	130	140	130
Turb	NTU				0.71	0.44
Alk-T	mg/L			360	480	490
Acidity83	mg/L			<1.0	<1.0	<1.0
Cl-D	mg/L	≤ 600	≤ 150	36	47	46
DOC	mg/L			2.2	2.7	2.0
F-D	mg/L	≤ 1.29		0.49	0.62	0.67
Al-T	mg/L			0.0079	0.0102	0.0099
Al-T (Chronic-WQG)	mg/L			0.2200	0.2400	0.2500
As-T	mg/L		≤ 0.005	0.0664	0.0804	0.0724
Ba-T	mg/L			0.0471	0.0446	0.0389
B-T	mg/L		≤ 1.2	1.40	1.71	1.46
Cd-T	mg/L			<0.000010	<0.000010	<0.000010
Ca-T	mg/L			23.0	23.2	21.4
Cr-T	mg/L			<0.0010	<0.0010	<0.0010
Co-T	mg/L	≤ 0.11	≤ 0.004	<0.00020	<0.00020	<0.00020
Cu-T	mg/L			<0.00050	<0.00050	<0.00050
Hard-T	mg/L			81.3	82.0	78.0
Fe-T	mg/L	≤ 1		0.100	0.143	0.137
Pb-T	mg/L	≤ 0.01763	≤ 0.0039978	<0.00020	<0.00020	<0.00020
Mg-T	mg/L			5.82	5.87	6.00
Mn-T	mg/L	≤0.8706	≤0.737	0.0148	0.0239	0.0225
Mo-T	mg/L	≤ 2		<0.0010	<0.0010	<0.0010
Ni-T	mg/L			<0.0010	<0.0010	<0.0010
K-T	mg/L			2.89	3.48	3.36
S-T	mg/L			45.2	49.5	43.9
Se-T	mg/L			<0.00010	<0.00010	<0.00010
Si-T	mg/L			4.74	4.87	4.34
Ag-T	mg/L	≤ 0.0001		<0.000020	<0.000020	<0.000020
Na-T	mg/L			181	252	245
Sr-T	mg/L			0.348	0.349	0.358
Zn-T	mg/L	≤ 0.033	≤ 0.0075	<0.0050	<0.0050	<0.0050
Al-D	mg/L		≤ 0.442	0.0065	0.0063	0.0075
As-D	mg/L			0.0697	0.0822	0.0748
Ba-D	mg/L			0.0491	0.0460	0.0416
B-D	mg/L			1.67	1.50	1.65
Be-D	mg/L			<0.00010	<0.00010	<0.00010
Cd-D	mg/L	≤ 0.00017	≤ 0.000087	<0.000010	<0.000010	<0.000010
Ca-D	mg/L			24.2	24.0	22.7
Cr-D	mg/L			<0.0010	<0.0010	<0.0010
Co-D	mg/L			<0.00020	<0.00020	<0.00020
Cu-D	mg/L	≤0.0002	≤0.0002	0.00026	<0.00020	<0.00020
Hard-D	mg/L			87.5	85.7	80.5
Fe-D	mg/L	≤ 0.35		0.0822	0.103	0.101
Pb-D	mg/L			<0.00020	<0.00020	<0.00020
Mg-D	mg/L			6.56	6.28	5.81
Mn-D	mg/L			0.0147	0.0139	0.0164
Mo-D	mg/L			<0.0010	<0.0010	<0.0010
Ni-D	mg/L			<0.0010	<0.0010	<0.0010
K-D	mg/L			3.36	3.82	3.31
S-D	mg/L			46.3	45.0	43.8
Se-D	mg/L		≤0.002	<0.00010	<0.00010	<0.00010
Si-D	mg/L			5.59	4.33	4.74
Na-D	mg/L			211	262	246
Sr-D	mg/L			0.383	0.358	0.339
Zn-D	mg/L	≤ 0.033	≤ 0.0075	<0.0050	<0.0050	<0.0050

Appendix 1 - Tables

Table 35 Seepage Near QU1105 (S2A) 1 Page(s)

EMS ID	Stn Std			Max-WQG		
Site Description	Potential Seepage (S2A) near QU1105 entering river					
3						
Site Name	S2A	Std Val	WQG			
Date	Acute		Chronic	03-07-2024	12-08-2024	10-09-2024
Flow	m3/s			0.000533		0.0002
pH-F	pH Units		6.5 - 9.0	7.35	7.46	7.33
Cond-F	uS/cm			730	762	740
SO4-D	mg/L		≤ 309	120	140	120
Turb	NTU				0.97	1.2
Alk-T	mg/L			230	230	200
Acidity83	mg/L			<1.0	<1.0	<1.0
Cl-D	mg/L	≤ 600	≤ 150	8.6	11	10
DOC	mg/L			2.0	1.4	1.3
F-D	mg/L	≤ 1.29		0.26	0.32	0.33
Al-T	mg/L			0.0064	0.0047	0.0143
Al-T (WQG-Chronic)	mg/L			0.1500	0.1100	0.1300
As-T	mg/L		≤ 0.005	0.0226	0.0516	0.0344
Ba-T	mg/L			0.0582	0.0526	0.0306
B-T	mg/L		≤ 1.2	0.522	0.529	0.350
Cd-T	mg/L			<0.000010	<0.000010	<0.000010
Ca-T	mg/L			39.9	35.8	25.0
Cr-T	mg/L			<0.0010	<0.0010	<0.0010
Co-T	mg/L	≤ 0.11	≤ 0.004	<0.00020	<0.00020	<0.00020
Cu-T	mg/L			<0.00050	<0.00050	<0.00050
Hard-T	mg/L			135	123	84.5
Fe-T	mg/L	≤ 1		0.168	0.407	0.500
Pb-T	mg/L			<0.00020	<0.00020	<0.00020
Mg-T	mg/L			8.70	8.18	5.37
Mn-T	mg/L	≤0.8706	≤0.737	0.0640	0.253	0.131
Mo-T	mg/L	≤ 2		<0.0010	<0.0010	<0.0010
Ni-T	mg/L			<0.0010	<0.0010	<0.0010
K-T	mg/L			2.62	2.76	1.70
S-T	mg/L			39.4	43.6	26.1
Se-T	mg/L			<0.00010	<0.00010	<0.00010
Si-T	mg/L			3.22	3.07	3.03
Ag-T	mg/L	≤ 0.0001		<0.000020	<0.000020	<0.000020
Na-T	mg/L			84.8	96.2	57.7
Sr-T	mg/L			0.642	0.541	0.338
Zn-T	mg/L	≤ 0.033	≤ 0.0075	<0.0050	<0.0050	<0.0050
Al-D	mg/L	≤ 0.1	≤ 0.0075	0.0031	0.0045	<0.0030
As-D	mg/L			0.0208	0.0549	0.0328
Ba-D	mg/L			0.0610	0.0580	0.0396
B-D	mg/L			0.636	0.583	0.442
Be-D	mg/L			<0.00010	<0.00010	<0.00010
Cd-D	mg/L	≤ 0.00017	≤ 0.000087	<0.000010	<0.000010	<0.000010
Ca-D	mg/L			42.8	41.1	29.3
Cr-D	mg/L			<0.0010	<0.0010	<0.0010
Co-D	mg/L			<0.00020	<0.00020	<0.00020
Cu-D	mg/L	≤0.0002	≤0.0002	0.00022	<0.00020	<0.00020
Hard-D	mg/L			147	142	99.5
Fe-D	mg/L	≤ 0.35		0.116	0.427	0.222
Pb-D	mg/L		0.00286	<0.00020	<0.00020	<0.00020
Mg-D	mg/L			9.66	9.46	6.42
Mn-D	mg/L			0.0659	0.299	0.186
Mo-D	mg/L			<0.0010	<0.0010	<0.0010
Ni-D	mg/L			<0.0010	<0.0010	<0.0010
K-D	mg/L			3.10	3.12	2.08
S-D	mg/L			41.8	49.5	34.2
Se-D	mg/L		≤0.002	0.00011	<0.00010	<0.00010
Si-D	mg/L			4.08	3.37	3.11
Na-D	mg/L			99.0	114	76.1
Sr-D	mg/L			0.662	0.576	0.391

Appendix 1 - Tables

Table 36 Long Lake Depth Profile 1 Page(s)

LONG LAKE DEPTH PROFILING SUMMER																														
Sample Date	09-Jul						16-Jul						23-Jul						30-Jul						07-Aug					
Parameter	Temp.	pH	Cond	Sat.	D.O.	ORP	Temp.	pH	Cond	Sat.	D.O.	ORP	Temp.	pH	Cond	Sat.	D.O.	ORP	Temp.	pH	Cond	Sat.	D.O.	ORP	Temp.	pH	Cond	Sat.	D.O.	ORP
Sample Depth (m)	Celcius		µS/cm	%	mg/L	mV	Celcius		µS/cm	%	mg/L	mV	Celcius		µS/cm	%	mg/L	mV	Celcius		µS/cm	%	mg/L	mV	Celcius		µS/cm	%	mg/L	mV
1	23.1	7.38	165.0	80.4	6.96	227.6	23.682	7.15	165.4	98.3	8.32	167.9	22.7	7.08	181.2	94.8	8.17	172.6	21.2	7.12	173.4	94.9	8.42	164.7	23.2	7.17	176.9	97.3	8.32	175.6
2	21.2	7.26	154.8	73.0	6.61	228.7	23.4	7.14	166.2	97.1	8.26	167	22.7	7.09	181.2	94.6	8.16	170.4	21.2	7.12	173.3	94.7	8.41	164.7	23.0	7.17	176.8	97.1	8.30	174.3
3	19.3	7.23	244.5	80.9	7.60	229.8	20.677	7.02	239.7	98.9	8.91	171.5	22.5	7.09	181.2	94.0	8.12	169.9	21.2	7.12	173.8	94.4	8.80	164.4	22.1	7.09	173.9	96.0	8.35	173.9
4	15.7	7.17	226.2	83.7	8.65	232.0	17.102	7.01	238.2	93	9.05	170.5	16.6	6.80	227.2	92.7	9.00	174.5	18.4	6.97	216.9	96.6	9.04	167.3	19.2	6.88	222.3	100.6	9.27	176.3
5	11.3	6.80	255.8	91.0	9.84	237.3	12.17	6.86	252.6	84.4	8.98	172.5	12.2	6.62	250.5	82.3	8.80	177.1	13.4	6.73	229.4	87.3	9.12	167.3	13.4	6.78	237.7	87.0	9.07	174.6
6	9.1	6.68	266.0	91.0	10.53	234.5	8.788	6.72	270.6	69.8	8.09	176.1	9.4	6.52	267.0	70.1	8.01	181.2	9.5	6.59	249.3	70.0	7.99	170.8	10.0	6.63	254.1	72.9	8.22	174.5
7	7.1	6.65	272.6	84.9	9.80	224.0	7.272	6.56	275.7	64.5	7.71	181.4	7.3	6.40	271.6	57.9	6.99	184.2	7.3	6.50	255.1	62.3	7.41	172.2	7.7	6.52	258.1	58.7	7.18	175.9
8	5.9	6.64	274.2	51.3	6.37	186.5	6.34	6.52	277	56.6	6.97	185.5	6.3	6.39	274.5	54.2	6.62	183.3	6.3	6.45	255.9	55.0	6.85	174.1	6.6	6.50	259.4	52.0	6.35	176.3
9	5.7	6.65	274.5	51.0	6.40	182.0	5.909	6.44	286.5	52.2	6.49	187.2	6.0	6.39	275.0	50.3	6.26	182.7	5.9	6.43	256.2	50.3	6.28	174.5	6.0	6.52	259.9	49.5	6.17	175.1
10	5.6	6.65	275.0	51.6	6.47	180.2	5.622	6.43	276.9	49.6	6.19	187.9	5.8	6.38	275.3	48.8	6.10	182.5	5.7	6.40	256.6	48.4	6.07	176.2	5.7	6.51	260.3	47.4	5.92	174.8
11	5.4	6.65	276.0	45.8	5.77	181.0	5.492	6.4	277.2	46.2	5.81	188.4	5.5	6.37	276.2	45.7	5.72	182.8	5.5	6.39	257.2	45.7	5.73	176.4	5.6	6.49	261.5	44.3	5.61	175.2
12	5.3	6.66	276.0	45.9	5.78	183.8	5.415	6.38	277.6	44.8	5.64	188.9	5.5	6.36	276.2	44.0	5.53	182.8	5.4	6.38	257.7	42.6	5.36	176.7	5.5	6.46	261.4	40.3	5.09	176.4
13	5.3	6.68	276.0	44.4	6.60	185.4	5.332	6.37	277.9	42.4	5.36	189.1	5.4	6.34	276.6	41.3	5.21	182.2	5.3	6.37	257.8	40.7	5.13	176.6	5.4	6.45	261.4	38.5	4.90	177.1
14	5.2	6.68	276.0	44.5	6.63	186.7	5.229	6.36	277.6	41.2	5.22	183.6	5.3	6.33	276.6	39.8	5.03	181.8	5.3	6.36	257.7	38.7	4.90	176.9	5.3	6.43	261.6	36.0	4.55	178.3
15	5.1	6.68	276.0	42.4	5.57	187.3	5.126	6.34	277.9	37.9	4.81	180.1	5.2	6.32	276.8	37.7	4.77	181.8	5.2	6.35	257.6	37.5	4.75	177.0	5.2	6.41	261.8	33.0	4.21	178.8
16	5.0	6.68	276.2	40.4	5.12	188.3	5.083	6.33	278.2	35.6	4.57	177.5	5.1	6.31	277.2	34.4	4.35	181.6	5.2	6.34	258.0	35.9	4.52	177.0	5.1	6.40	262.4	29.3	3.67	179.9
17	5.0	6.67	276.7	35.1	4.48	189.7	5.057	6.32	278.4	32.8	4.15	175.2	5.1	6.30	277.7	31.2	3.93	181.6	5.1	6.34	258.3	31.8	4.02	177.1	5.1	6.38	262.9	29.4	3.32	180.3
18	5.0	6.69	277.0	33.8	4.30	189.1	5.046	6.31	278.9	30.4	3.87	172.6	5.1	6.29	278.1	28.3	3.58	181.6	5.1	6.33	259.0	28.4	3.59	177.4	5.1	6.37	263.2	22.8	2.89	180.8
19	5.0	6.69	277.0	32.0	4.08	188.6	5.039	6.3	279	28.8	3.66	171.1	5.1	6.27	278.3	25.2	3.20	181.2	5.1	6.32	259.3	25.5	3.25	177.4	5.1	6.36	263.5	20.7	2.65	181.0
20	4.9	6.70	277.4	31.7	4.03	188.6							5.1	6.27	278.3	24.6	3.11	181.3	5.1	6.31	260.0	20.8	2.64	177.8	5.1	6.36	263.7	19.5	2.47	181.0
1m from Bottom (1MB)	1MB = 20.0m						1MB=19.0m						1MB=20.0m						1MB=20.0m						1MB=20.0m					

Appendix 1 - Tables

Table 37 MQL Depth Profile 1 Page(s)

EMS ID E206618																														
Site NAME: MIDDLE QUINSAM LAKE (MQL)																														
MIDDLE QUINSAM LAKE DEPTH PROFILING SUMMER																														
Sample Date	09-Jul						16-Jul						23-Jul						30-Jul						07-Aug					
Parameter	TEMP.	pH	COND.	% Sat.	D.O.	ORP	TEMP.	pH	COND.	% Sat.	D.O.	ORP	TEMP.	pH	COND.	% Sat.	D.O.	ORP	TEMP.	pH	COND.	% Sat.	D.O.	ORP	TEMP.	pH	COND.	% Sat.	D.O.	ORP
Sample Depth (m)	Celsius						Celsius						Celsius						Celsius						Celsius					
	µS/cm		mg/L		mV		µS/cm		mg/L		mV		µS/cm		mg/L		mV		µS/cm		mg/L		mV		µS/cm		mg/L		mV	
1	23.6	8.04	145.0	86.0	7.20	203.2	24.2	7.71	122.5	107.1	8.97	71.0	23.6	7.52	113.6	101.8	8.63	136.7	22.0	7.67	102.7	101.4	8.86	140.2	24.0	7.74	99.1	106.7	8.99	149.3
2	22.3	8.05	144.0	88.0	7.64	203.0	24.1	7.71	121.8	106.4	8.94	71.2	23.6	7.52	113.7	101.7	8.62	135.1	22.0	7.65	102.6	101.3	8.86	140.6	23.9	7.77	98.9	106.8	9.00	147.3
3	21.8	8.03	140.8	84.6	7.47	203.4	23.7	7.68	120.0	106.8	9.05	70.4	23.6	7.53	113.3	101.5	8.60	130.3	22.0	7.65	102.1	101.1	8.84	140.7	23.7	7.76	99.7	105.7	8.95	146.4
4	20.3	7.95	149.6	88.7	7.90	204.6	23.2	7.67	123.6	109.5	9.43	70.9	23.6	7.53	112.6	101.4	8.60	129.3	22.0	7.68	102.0	100.9	8.83	138.6	23.3	7.69	98.6	106.7	9.12	146.7
5	19.8	7.90	179.0	88.7	8.00	204.5	21.5	7.77	148.2	117.3	10.37	68.2	22.7	7.69	138.5	115.1	9.97	124.8	21.9	7.68	100.7	100.5	8.80	138.6	22.7	7.70	101.5	105.1	9.06	146.4
6	18.3	7.80	189.6	88.5	8.24	204.7	19.9	7.77	152.3	112.1	10.21	68.6	20.6	7.73	151.6	114.5	10.31	121.4	21.4	7.69	120.1	108.6	9.60	138.2	22.0	7.66	104.2	102.9	8.99	146.1
7	15.2	8.16	200.2	104.7	10.46	201.9	17.1	8.02	154.0	122.1	11.78	64.0	19.8	7.88	155.4	120.1	11.42	116.1	18.4	8.06	143.3	121.5	11.44	131.6	19.9	8.02	146.6	122.3	11.16	141.2
8	14.5	8.18	204.0	103.1	10.86	203.6	14.1	8.14	138.9	125.6	12.92	61.0	15.2	8.11	137.1	128.3	12.90	110.9	15.9	8.15	131.5	124.8	12.46	128.2	15.6	8.23	132.2	129.5	12.88	135.9
9	13.0	8.16	201.1	106.1	11.33	198.1	11.5	7.82	138.9	113.1	12.30	66.6	12.4	7.79	137.0	119.2	12.70	115.5	12.6	7.98	129.1	117.8	12.52	129.3	12.9	7.79	130.8	120.4	12.73	139.6
10	11.5	7.78	211.4	97.7	10.74	199.4	10.7	7.59	140.0	106.7	11.81	72.5	10.8	7.47	140.2	101.9	11.26	125.2	10.8	7.55	131.5	97.8	10.83	134.7	11.2	7.34	133.5	99.5	10.88	146.6
11	9.8	7.49	235.0	96.0	9.68	200.1	9.7	7.41	142.7	92.8	10.55	77.3	10.0	7.16	141.8	90.2	10.16	134.5	10.1	7.36	133.1	89.7	10.08	140.3	10.5	7.14	134.8	89.2	9.93	151.1
12	9.4	7.41	235.0	79.6	9.34	197.4	9.4	7.25	142.9	89.4	10.21	84.8	9.6	7.01	142.9	84.9	9.66	145.0	9.7	7.16	133.9	81.6	9.27	145.0	9.8	6.98	136.5	77.4	8.76	155.1
13	9.2	7.34	233.6	79.4	9.14	198.8	9.3	7.12	143.1	86.5	9.92	92.5	9.4	6.91	143.7	80.8	9.23	148.2	9.6	7.00	134.8	73.4	8.38	149.0	9.6	6.78	137.8	68.7	7.82	161.9
1m from Bottom (BS)	BS=13.0m						BS=13.0m						BS=13.0m						BS=13.0m						BS=13.0m					

Appendix 1 - Tables

Table 38 Lakes 9 Page(s)

StnName		Long Lake Middle 1 M										Water Quality Guidelines		90th	results	% of results
StnCode		LLM1					Count	Max	5 in 30 Ave	Chronic	Acute	Percentile	exceeding	exceeding		
		9-Jul-24	16-Jul-24	23-Jul-24	30-Jul-24	7-Aug-24							standard	standard		
SO4-D	mg/L	42	43	51	50	52	5	52	47.6	128		51.6	0	0.0		
Turb	NTU	0.28	0.24	0.36	0.32	0.29	5	0.36	0.30			0.34	0	0.0		
Alk-T	mg/L	26	25	28	29	30	5	30	27.6			29.6	0	0.0		
Al-T	mg/L	0.0161	0.0154	0.0126	0.0120	0.0111	5	0.0161	0.0134	*		0.0158	0	0.0		
As-T	mg/L	0.00054	0.00061	0.00052	0.00060	0.00064	5	0.00064	0.00058	0.005		0.00063	0	0.0		
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	0.052	5	0.052	0.0304	1.2		0.0412	0	0.0		
Ba-T	mg/L	0.0049	0.0051	0.0050	0.0056	0.0060	5	0.0060	0.0053	1		0.0058	0	0.0		
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			0.000005	0	0.0		
Ca-T	mg/L	16.8	17.8	17.7	19.9	20.8	5	20.8	18.6			20.4	0	0.0		
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0		
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	0	0.0		
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	5	<0.00050	0.000250			0.00025	0	0.0		
Fe-T	mg/L	0.060	0.061	0.051	0.054	0.045	5	0.061	0.054		1	0.061	0	0.0		
Hard-T	mg/L	52.1	54.6	53.9	61.4	64.1	5	64.1	57.2			63	0	0.0		
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.0176	0.0001	0	0.0		
Mg-T	mg/L	2.47	2.44	2.39	2.83	2.94	5	2.94	2.61			2.9	0	0.0		
Mn-T	mg/L	0.0091	0.0093	0.0066	0.0068	0.0065	5	0.0093	0.0077	0.737	0.8706	0.0092	0	0.0		
P-T	mg/L	0.0041	0.0065	0.0038	0.0038	0.0036	5	0.0065	0.0044	0.007		0.0055	0	0.0		
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	0	0.0		
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005	0	0.0		
K-T	mg/L	0.192	0.183	0.179	0.217	0.215	5	0.217	0.197			0.216	0	0.0		
S-T	mg/L	12.6	15.7	13.1	16.1	16.9	5	16.9	14.9			16.6	0	0.0		
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		0.00005	0	0.0		
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	0.00001	0	0.0		
Na-T	mg/L	4.48	4.68	4.56	5.43	5.49	5	5.49	4.93			5.47	0	0.0		
Sr-T	mg/L	0.0990	0.102	0.102	0.122	0.143	5	0.143	0.1136			0.1346	0	0.0		
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0	0.0		
Al-D	mg/L	0.0151	0.0129	0.0125	0.0105	0.0097	5	0.0151	0.0121			0.0142	0	0.0		
As-D	mg/L	0.00054	0.00067	0.00061	0.00058	0.00064	5	0.00067	0.00061	0.005		0.00066	0	0.0		
Ba-D	mg/L	0.0052	0.0054	0.0060	0.0061	0.0062	5	0.0062	0.0058			0.0062	0	0.0		
B-D	mg/L	<0.050	<0.050	0.053	0.053	0.061	5	0.061	0.0434			0.0578	0	0.0		
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	0.000005	0	0.0		
Ca-D	mg/L	17.8	19.0	21.9	22.5	22.0	5	22.5	20.6			22.3	0	0.0		
Cl-D	mg/L		<1.0	<1.0	<1.0	<1.0	4	<1.0	0.50	150	600	0.5	0	0.0		
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0		
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0	0.0		
Cu-D	mg/L	0.00034	0.00038	0.00037	0.00037	0.00038	5	0.00038	0.00037	*	*	0.00038	5	0.0		
DOC	mg/L	3.6	3.9	5.3	3.8	4.1	5	5.3	4.1			4.8	0	0.0		
Hard-D	mg/L	55.2	58.3	67.2	69.1	67.6	5	69.1	63.5			68.5	0	0.0		
Fe-D	mg/L	0.0562	0.0575	0.0461	0.0416	0.0376	5	0.0575	0.0478		0.35	0.057	0	0.0		
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0	0.0		
Mg-D	mg/L	2.62	2.63	3.03	3.16	3.07	5	3.16	2.90			3.12	0	0.0		
Mn-D	mg/L	0.0082	0.0041	<0.0010	0.0016	0.0018	5	0.0082	0.00324			0.00656	0	0.0		
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0		
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0		
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100			0.00001	0	0.0		
K-D	mg/L	0.198	0.197	0.221	0.232	0.250	5	0.250	0.220			0.243	0	0.0		
S-D	mg/L	14.2	13.4	17.1	17.1	17.9	5	17.9	15.9			17.6	0	0.0		
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			0.000050	0	0.0		
Na-D	mg/L	4.93	4.89	5.71	6.09	5.82	5	6.09	5.49			5.98	0	0.0		
Sr-D	mg/L	0.106	0.108	0.126	0.125	0.147	5	0.147	0.122			0.139	0	0.0		
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0	0.0		
N-NO23	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	5	<0.020	0.0100			0.01	0	0.0		
Chlr-a	ug/L					0.66	1	0.66	0.66			0.66	0	0.0		
Notes: *Calculated guideline. Refer to Exceedance Tables.																
Bold indicates factor applied to less-than results when calculating statistics: 0.5																

Appendix 1 - Tables

Table 38 Lakes 9 Page(s)

EMS ID	E206619										Water Quality Guidelines		90th	Count of	% of results
StnName	Long Lake Middle 4 M										Chronic	Acute	Percentile	exceeding	exceeding
StnCode	LLM4													standard	standard
		9-Jul-24	16-Jul-24	23-Jul-24	30-Jul-24	7-Aug-24	Count	Max	5 in 30 Ave						
SO4-D	mg/L	65	62	67	66	66	5	67	65.2		128		66.6	0	0.0
Turb	NTU	0.23	0.32	0.60	0.56	0.60	5	0.60	0.46				0.6	0	0.0
Alk-T	mg/L	30	29	32	32	32	5	32	31.0				32	0	0.0
Al-T	mg/L	0.0186	0.0153	0.0139	0.0158	0.0127	5	0.0186	0.0153		*		0.0175	0	0.0
As-T	mg/L	0.00056	0.00053	0.00041	0.00048	0.00054	5	0.00056	0.00050		0.005		0.00055	0	0.0
B-T	mg/L	0.052	<0.050	<0.050	0.056	0.061	5	0.061	0.0438		1.2		0.059	0	0.0
Ba-T	mg/L	0.0067	0.0061	0.0060	0.0070	0.0069	5	0.0070	0.0065		1		0.007	0	0.0
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050				0.000005	0	0.0
Ca-T	mg/L	23.8	23.0	21.4	25.1	24.8	5	25.1	23.6				25	0	0.0
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050				0.0005	0	0.0
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		0.004	0.11	0.0001	0	0.0
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	5	<0.00050	0.000250				0.00025	0	0.0
Fe-T	mg/L	0.067	0.060	0.050	0.059	0.055	5	0.067	0.058		1		0.064	0	0.0
Hard-T	mg/L	73.1	69.4	65.2	75.6	75.8	5	75.8	71.8				75.7	0	0.0
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100		0.004	0.0176	0.0001	0	0.0
Mg-T	mg/L	3.34	2.93	2.87	3.15	3.38	5	3.38	3.13				3.36	0	0.0
Mn-T	mg/L	0.0101	0.0102	0.0110	0.0126	0.0111	5	0.0126	0.0110		0.737	0.8706	0.012	0	0.0
P-T	mg/L	0.0080	0.0045	0.0040	0.0051	0.0072	5	0.0080	0.0058		0.007		0.0077	0	0.0
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		7.6	46	0.0005	0	0.0
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050		0.025		0.0005	0	0.0
K-T	mg/L	0.260	0.238	0.226	0.274	0.254	5	0.274	0.250				0.268	0	0.0
S-T	mg/L	19.0	16.3	17.8	21.9	21.3	5	21.9	19.3				21.7	0	0.0
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050		0.002		0.00005	0	0.0
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100		0.00005	0.0001	0.00001	0	0.0
Na-T	mg/L	6.20	5.84	5.76	6.84	6.64	5	6.84	6.26				6.76	0	0.0
Sr-T	mg/L	0.144	0.141	0.135	0.165	0.176	5	0.176	0.152				0.172	0	0.0
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		0.0075	0.033	0.0025	0	0.0
Al-D	mg/L	0.0159	0.0148	0.0127	0.0108	0.0091	5	0.0159	0.0127				0.0155	0	0.0
As-D	mg/L	0.00054	0.00054	0.00049	0.00043	0.00055	5	0.00055	0.00051		0.005		0.00055	0	0.0
Ba-D	mg/L	0.0071	0.0068	0.0073	0.0072	0.0071	5	0.0073	0.0071				0.0073	0	0.0
B-D	mg/L	0.059	0.056	0.063	0.064	0.065	5	0.065	0.061				0.065	0	0.0
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050		0.000087	0.00017	0.00001	0	0.0
Ca-D	mg/L	25.0	24.4	27.3	28.9	26.1	5	28.9	26.3				28.3	0	0.0
Cl-D	mg/L		<1.0	<1.0	<1.0	<1.0	4	<1.0	0.50		150	600	0.5	0	0.0
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050				0.0005	0	0.0
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100				0.0001	0	0.0
Cu-D	mg/L	0.00038	0.00039	0.00037	0.00036	0.00038	5	0.00039	0.00038		*	*	0.00039	5	0.0
DOC	mg/L	3.6	3.9	5.6	4.0	4.0	5	5.6	4.2				5	0	0.0
Hard-D	mg/L	76.7	74.4	82.9	87.6	79.9	5	87.6	80.3				85.7	0	0.0
Fe-D	mg/L	0.0551	0.0500	0.0418	0.0332	0.0322	5	0.0551	0.0425			0.35	0.0531	0	0.0
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100				0.0001	0	0.0
Mg-D	mg/L	3.47	3.28	3.7	3.75	3.57	5	3.75	3.53				3.68	0	0.0
Mn-D	mg/L	0.0082	0.0050	0.0010	<0.0010	0.0015	5	0.0082	0.00324				0.00692	0	0.0
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050				0.0005	0	0.0
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050				0.0005	0	0.0
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100				0.00001	0	0.0
K-D	mg/L	0.277	0.259	0.272	0.289	0.267	5	0.289	0.273				0.284	0	0.0
S-D	mg/L	22.0	22.7	22.6	23.5	22.7	5	23.5	22.7				23.2	0	0.0
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050				0.00005	0	0.0
Na-D	mg/L	6.70	6.82	7.14	7.75	7.11	5	7.75	7.10				7.51	0	0.0
Sr-D	mg/L	0.153	0.151	0.165	0.183	0.181	5	0.183	0.167				0.182	0	0.0
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250		0.0075	0.033	0.0025	0	0.0
N-NO23	mg/L	<0.020	<0.020	<0.020	<0.020	0.023	5	0.023	0.0126				0.0178	0	0.0

Notes: *Calculated guideline. Refer to Exceedance Tables.

Bold indicates factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 38 Lakes 9 Page(s)

EMS ID	E206619												Count of	
StnName	Long Lake Middle 9 M												results	% of results
StnCode	LLM9												exceeding	exceeding
		9-Jul-24	16-Jul-24	23-Jul-24	30-Jul-24	7-Aug-24	Count	Max	5 in 30 Ave	Water Quality Guidelines	90th	Percentile	standard	standard
										Chronic	Acute			
SO4-D	mg/L	82	86	84	81	86	5	86	83.8	128		86	0	0.0
Turb	NTU	0.54	0.17	0.36	0.30	0.23	5	0.54	0.32			0.47	0	0.0
Alk-T	mg/L	33	34	36	34	34	5	36	34.2			35.2	0	0.0
Al-T	mg/L	0.0192	0.0172	0.0173	0.0175	0.0178	5	0.0192	0.0178	*		0.0186	0	0.0
As-T	mg/L	0.00034	0.00024	0.00022	0.00025	0.00021	5	0.00034	0.00025	0.005		0.0003	0	0.0
B-T	mg/L	0.064	0.060	0.063	0.064	0.070	5	0.070	0.064	1.2		0.068	0	0.0
Ba-T	mg/L	0.0062	0.0061	0.0057	0.0061	0.0059	5	0.0062	0.0060	1		0.0062	0	0.0
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			0.00001	0	0.0
Ca-T	mg/L	30.5	31.0	30.0	30.2	30.3	5	31.0	30.4			30.8	0	0.0
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	0	0.0
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	5	<0.00050	0.000250			0.00025	0	0.0
Fe-T	mg/L	0.034	0.025	0.023	0.025	0.027	5	0.034	0.027		1	0.031	0	0.0
Hard-T	mg/L	92.0	92.2	90.1	91.4	91.0	5	92.2	91.3			92.1	0	0.0
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.0176	0.0001	0	0.0
Mg-T	mg/L	3.88	3.62	3.71	3.92	3.74	5	3.92	3.77			3.9	0	0.0
Mn-T	mg/L	0.0138	0.0166	0.0140	0.0138	0.0156	5	0.0166	0.0148	0.737	0.8706	0.0162	0	0.0
P-T	mg/L	0.0049	0.0038	0.0040	0.0096	0.0032	5	0.0096	0.0051	0.007		0.0077	0	0.0
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	0	0.0
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005	0	0.0
K-T	mg/L	0.359	0.354	0.333	0.348	0.327	5	0.359	0.344			0.357	0	0.0
S-T	mg/L	26.1	27.3	25.2	27.0	27.0	5	27.3	26.5			27.2	0	0.0
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		0.00005	0	0.0
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	0.00001	0	0.0
Na-T	mg/L	8.70	8.87	8.79	8.90	8.80	5	8.90	8.81			8.89	0	0.0
Sr-T	mg/L	0.204	0.203	0.216	0.208	0.232	5	0.232	0.213			0.226	0	0.0
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0	0.0
Al-D	mg/L	0.0203	0.0161	0.0162	0.0161	0.0166	5	0.0203	0.0171			0.0188	0	0.0
As-D	mg/L	0.00026	0.00023	0.00022	0.00024	0.00023	5	0.00026	0.00024	0.005		0.00025	0	0.0
Ba-D	mg/L	0.0062	0.0061	0.0063	0.0061	0.0063	5	0.0063	0.0062			0.0063	0	0.0
B-D	mg/L	0.068	0.070	0.074	0.073	0.078	5	0.078	0.073			0.076	0	0.0
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	0.00001	0	0.0
Ca-D	mg/L	31.1	32.8	33.4	33.0	32.7	5	33.4	32.6			33.2	0	0.0
Cl-D	mg/L		<1.0	<1.0	<1.0	<1.0	4	<1.0	0.50	150	600	0.5	0	0.0
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0	0.0
Cu-D	mg/L	0.00035	0.00038	0.00037	0.00036	0.00037	5	0.00038	0.00037	*	*	0.00038	5	100.0
DOC	mg/L	3.2	3.4	5.2	3.7	3.4	5	5.2	3.8			4.6	0	0.0
Hard-D	mg/L	93.8	98.7	99.9	99.4	97.9	5	99.9	97.9			99.7	0	0.0
Fe-D	mg/L	0.0191	0.0180	0.0174	0.0182	0.0158	5	0.0191	0.0177		0.35	0.0187	0	0.0
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0	0.0
Mg-D	mg/L	3.92	4.08	3.98	4.10	3.93	5	4.10	4.00			4.09	0	0.0
Mn-D	mg/L	0.0082	0.0121	0.0097	0.0087	0.0101	5	0.0121	0.0098			0.0113	0	0.0
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100			0.00001	0	0.0
K-D	mg/L	0.360	0.389	0.361	0.365	0.353	5	0.389	0.366			0.379	0	0.0
S-D	mg/L	28.3	28.2	28.4	28.5	29.5	5	29.5	28.6			29.1	0	0.0
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			0.00005	0	0.0
Na-D	mg/L	9.17	9.92	9.48	10.0	9.48	5	10.0	9.61			9.97	0	0.0
Sr-D	mg/L	0.216	0.219	0.224	0.226	0.248	5	0.248	0.227			0.239	0	0.0
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0	0.0
N-NO23	mg/L	0.027	0.040	0.035	0.036	0.043	5	0.043	0.036			0.042	0	0.0

Notes: *Calculated guideline. Refer to Exceedance Tables.

Bold indicates factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 38 Lakes 9 Page(s)

EMS ID	E206619												Count of	
StnName	Long Lake Middle 1M From B												results	% of results
StnCode	LLMB												exceeding	exceeding
		9-Jul-24	16-Jul-24	23-Jul-24	30-Jul-24	7-Aug-24	Count	Max	5 in 30 Ave	Water Quality Guidelines	90th	Percentile	standard	standard
										Chronic	Acute			
SO4-D	mg/L	84	85	84	82	85	5	85	84.0	128		85	0	0.0
Turb	NTU	0.21	0.48	0.62	1.1	0.81	5	1.1	0.64			0.98	0	0.0
Alk-T	mg/L	37	35	37	38	38	5	38	37.0			38	0	0.0
Al-T	mg/L	0.0190	0.0204	0.0187	0.0178	0.0162	5	0.0204	0.0184	*		0.0198	0	0.0
As-T	mg/L	0.00036	0.00035	0.00038	0.00044	0.00037	5	0.00044	0.00038	0.005		0.00042	0	0.0
B-T	mg/L	0.063	0.062	0.068	0.068	0.067	5	0.068	0.066	1.2		0.068	0	0.0
Ba-T	mg/L	0.0090	0.0090	0.0095	0.0112	0.0098	5	0.0112	0.0097	1		0.0106	0	0.0
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			0.00001	0	0.0
Ca-T	mg/L	29.9	31.4	32.3	30.2	30.5	5	32.3	30.9			31.9	0	0.0
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	0	0.0
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	5	<0.00050	0.000250			0.00025	0	0.0
Fe-T	mg/L	0.088	0.081	0.101	0.141	0.108	5	0.141	0.104		1	0.128	0	0.0
Hard-T	mg/L	90.0	93.2	96.6	91.5	91.8	5	96.6	92.6			95.2	0	0.0
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.0176	0.0001	0	0.0
Mg-T	mg/L	3.72	3.61	3.89	3.92	3.79	5	3.92	3.79			3.91	0	0.0
Mn-T	mg/L	0.333	0.323	0.385	0.523	0.456	5	0.523	0.404	0.737	0.8706	0.496	0	0.0
P-T	mg/L	0.0051	<0.0030	0.0044	0.0042	<0.0030	5	0.0051	0.00334	0.007		0.00482	0	0.0
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	0	0.0
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005	0	0.0
K-T	mg/L	0.355	0.363	0.364	0.360	0.341	5	0.364	0.357			0.364	0	0.0
S-T	mg/L	25.8	26.3	27.6	27.3	27.2	5	27.6	26.8			27.5	0	0.0
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		0.00005	0	0.0
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	0.00001	0	0.0
Na-T	mg/L	8.70	9.00	9.46	9.21	9.02	5	9.46	9.08			9.36	0	0.0
Sr-T	mg/L	0.199	0.214	0.237	0.213	0.238	5	0.238	0.220			0.238	0	0.0
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0	0.0
Al-D	mg/L	0.0165	0.0130	0.0127	0.0123	0.0130	5	0.0165	0.0135			0.0151	0	0.0
As-D	mg/L	0.00029	0.00029	0.00029	0.00031	0.00030	5	0.00031	0.00030	0.005		0.00031	0	0.0
Ba-D	mg/L	0.0094	0.0093	0.0100	0.0115	0.0107	5	0.0115	0.0102			0.0112	0	0.0
B-D	mg/L	0.070	0.072	0.073	0.072	0.082	5	0.082	0.074			0.078	0	0.0
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	0.00001	0	0.0
Ca-D	mg/L	33.6	33.4	33.9	34.1	33.0	5	34.1	33.6			34	0	0.0
Cl-D	mg/L		<1.0	<1.0	<1.0	<1.0	4	<1.0	0.50	150	600	0.5	0	0.0
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0	0.0
Cu-D	mg/L	0.00034	0.00038	0.00037	0.00036	0.00037	5	0.00038	0.00036	*	*	0.00038	5	100.0
DOC	mg/L	3.0	3.6	5.0	3.2	3.2	5	5.0	3.6			4.4	0	0.0
Hard-D	mg/L	100	100	101	102	99.2	5	102	100.4			101.6	0	0.0
Fe-D	mg/L	0.0290	0.0303	0.0362	0.0597	0.0422	5	0.0597	0.0395		0.35	0.0527	0	0.0
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0	0.0
Mg-D	mg/L	4.02	4.06	4.07	4.13	4.05	5	4.13	4.07			4.11	0	0.0
Mn-D	mg/L	0.333	0.311	0.382	0.568	0.458	5	0.568	0.410			0.524	0	0.0
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100			0.00001	0	0.0
K-D	mg/L	0.382	0.388	0.377	0.386	0.371	5	0.388	0.381			0.387	0	0.0
S-D	mg/L	28.8	31.3	28.6	28.5	29.7	5	31.3	29.4			30.7	0	0.0
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			0.00005	0	0.0
Na-D	mg/L	9.54	10.0	9.81	10.1	9.80	5	10.1	9.85			10.06	0	0.0
Sr-D	mg/L	0.229	0.222	0.226	0.246	0.256	5	0.256	0.236			0.252	0	0.0
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0	0.0
N-NO23	mg/L	0.068	0.062	0.103	0.076	0.077	5	0.103	0.077			0.093	0	0.0

Notes: *Calculated guideline. Refer to Exceedance Tables.

Bold indicates factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 38 Lakes 9 Page(s)

EMS ID	E206618												Count of	% of results exceeding standard
StnName	Middle Quinsam Lake 1M												results	
StnCode	MQL1												exceeding	
	9-Jul-24	16-Jul-24	23-Jul-24	30-Jul-24	7-Aug-24	Count	Max	5 in 30 Ave	Water Quality Guidelines		90th	standard		
									Chronic	Acute	Percentile			
SO4-D	mg/L	21	17	16	15	14	5	21	16.6	128		19.4	0	0.0
Turb	NTU	0.24	0.21	0.21	0.22	0.24	5	0.24	0.22			0.24	0	0.0
Alk-T	mg/L	40	36	35	34	33	5	40	35.6			38.4	0	0.0
Al-T	mg/L	0.0137	0.0139	0.0132	0.0128	0.0127	5	0.0139	0.0133	*		0.0138	0	0.0
As-T	mg/L	0.00017	0.00017	0.00015	0.00016	0.00016	5	0.00017	0.00016	0.005		0.00017	0	0.0
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025	0	0.0
Ba-T	mg/L	0.0015	0.0013	0.0011	0.0011	0.0011	5	0.0015	0.0012	1		0.0014	0	0.0
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			0.00001	0	0.0
Ca-T	mg/L	10.4	10.0	8.59	8.62	9.00	5	10.4	9.32			10.24	0	0.0
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	0	0.0
Cu-T	mg/L	<0.00050	0.00053	<0.00050	<0.00050	<0.00050	5	0.00053	0.000306			0.000418	0	0.0
Fe-T	mg/L	0.031	0.033	0.031	0.030	0.030	5	0.033	0.031		1	0.032	0	0.0
Hard-T	mg/L	31.4	30.0	25.8	26.1	27.0	5	31.4	28.1			30.8	0	0.0
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.0176	0.0001	0	0.0
Mg-T	mg/L	1.30	1.22	1.05	1.11	1.09	5	1.30	1.15			1.27	0	0.0
Mn-T	mg/L	0.0056	0.0044	0.0050	0.0048	0.0050	5	0.0056	0.0050	0.737	0.8706	0.0054	0	0.0
P-T	mg/L	<0.0030	0.0042	<0.0030	0.0032	0.0041	5	0.0042	0.00290	0.006		0.00416	0	0.0
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	0	0.0
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005	0	0.0
K-T	mg/L	0.203	0.176	0.132	0.141	0.128	5	0.203	0.156			0.192	0	0.0
S-T	mg/L	6.8	6.6	4.5	4.6	4.5	5	6.8	5.4			6.7	0	0.0
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		0.00005	0	0.0
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	0.00001	0	0.0
Na-T	mg/L	11.9	9.87	7.72	7.58	7.00	5	11.9	8.81			11.09	0	0.0
Sr-T	mg/L	0.0540	0.0471	0.0393	0.0374	0.0397	5	0.0540	0.0435			0.0512	0	0.0
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0	0.0
Al-D	mg/L	0.0132	0.0140	0.0130	0.0127	0.0140	5	0.0140	0.0134			0.014	0	0.0
As-D	mg/L	0.00016	0.00018	0.00015	0.00016	0.00016	5	0.00018	0.00016	0.005		0.00017	0	0.0
Ba-D	mg/L	0.0016	0.0013	0.0013	0.0012	0.0013	5	0.0016	0.0013			0.0015	0	0.0
B-D	mg/L	0.058	<0.050	<0.050	<0.050	<0.050	5	0.058	0.0316			0.0448	0	0.0
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	0.00001	0	0.0
Ca-D	mg/L	11.3	10.5	9.96	10.4	9.92	5	11.3	10.42			10.98	0	0.0
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5	0	0.0
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0	0.0
Cu-D	mg/L	0.00052	0.00052	0.00051	0.00050	0.00060	5	0.00060	0.00053	*	*	0.00057	5	0.0
DOC	mg/L	2.3	2.4	3.8	2.3	2.3	5	3.8	2.6			3.2	0	0.0
Hard-D	mg/L	33.9	31.8	29.9	31.4	30.0	5	33.9	31.4			33.1	0	0.0
Fe-D	mg/L	0.0253	0.0264	0.0246	0.0230	0.0257	5	0.0264	0.0250		0.35	0.0261	0	0.0
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0	0.0
Mg-D	mg/L	1.40	1.33	1.23	1.31	1.26	5	1.40	1.31			1.37	0	0.0
Mn-D	mg/L	0.0025	<0.0010	0.0011	0.0011	<0.0010	5	0.0025	0.00114			0.00194	0	0.0
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100			0.00001	0	0.0
K-D	mg/L	0.212	0.176	0.160	0.160	0.170	5	0.212	0.170			0.198	0	0.0
S-D	mg/L	7.8	6.1	5.3	5.3	5.0	5	7.8	5.9			7.1	0	0.0
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			0.00005	0	0.0
Na-D	mg/L	12.9	10.7	8.80	9.08	7.71	5	12.9	9.84			12.02	0	0.0
Sr-D	mg/L	0.0572	0.0495	0.0462	0.0440	0.0434	5	0.0572	0.0481			0.0541	0	0.0
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0	0.0
N-NO23	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	5	<0.020	0.0100			0.01	0	0.0
Chlr-a	ug/L					<0.53	1	<0.53	0.265			<0.53	0	0.0
Notes: *Calculated guideline. Refer to Exceedance Tables.														
Bold indicates factor applied to less-than results when calculating statistics: 0.5														

Appendix 1 - Tables

Table 38 Lakes 9 Page(s)

EMS ID	E206618												Count of	
StnName	Middle Quinsam Lake 4M												results	% of results
StnCode	ML4												exceeding	exceeding
		9-Jul-24	16-Jul-24	23-Jul-24	30-Jul-24	7-Aug-24	Count	Max	5 in 30 Ave	Water Quality Guidelines	90th	Percentile	standard	standard
										Chronic	Acute			
SO4-D	mg/L	22	17	15	15	14	5	22	16.6	128		20	0	0.0
Turb	NTU	0.30	0.22	0.24	0.25	2.3	5	2.3	0.66			1.5	0	0.0
Alk-T	mg/L	41	35	35	35	33	5	41	35.8			38.6	0	0.0
Al-T	mg/L	0.0116	0.0142	0.0138	0.0125	0.0137	5	0.0142	0.0132	*		0.014	0	0.0
As-T	mg/L	0.00015	0.00018	0.00013	0.00016	0.00017	5	0.00018	0.00016	0.005		0.00018	0	0.0
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025	0	0.0
Ba-T	mg/L	0.0015	0.0014	0.0011	0.0011	0.0011	5	0.0015	0.0012	1		0.0015	0	0.0
Cd-T	mg/L	0.000014	<0.000010	<0.000010	<0.000010	<0.000010	5	0.000014	0.0000068			0.00001	0	0.0
Ca-T	mg/L	9.37	9.98	8.12	8.78	9.23	5	9.98	9.10			9.74	0	0.0
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	0	0.0
Cu-T	mg/L	0.00064	0.00051	0.00082	<0.00050	0.00052	5	0.00082	0.000548			0.000748	0	0.0
Fe-T	mg/L	0.031	0.037	0.034	0.031	0.032	5	0.037	0.033		1	0.036	0	0.0
Hard-T	mg/L	28.3	30.2	24.3	26.6	27.8	5	30.2	27.4			29.4	0	0.0
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.0176	0.0001	0	0.0
Mg-T	mg/L	1.18	1.27	0.987	1.12	1.15	5	1.27	1.141			1.234	0	0.0
Mn-T	mg/L	0.0062	0.0059	0.0054	0.0050	0.0058	5	0.0062	0.0057	0.737	0.8706	0.0061	0	0.0
P-T	mg/L	0.0042	0.0039	<0.0030	<0.0030	<0.0030	5	0.0042	0.00252	0.006		0.00408	0	0.0
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	0	0.0
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005	0	0.0
K-T	mg/L	0.191	0.175	0.131	0.141	0.133	5	0.191	0.154			0.185	0	0.0
S-T	mg/L	6.2	6.1	4.1	4.6	4.2	5	6.2	5.0			6.2	0	0.0
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		0.00005	0	0.0
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	0.00001	0	0.0
Na-T	mg/L	10.8	10.0	7.14	7.58	7.18	5	10.8	8.54			10.48	0	0.0
Sr-T	mg/L	0.0498	0.0488	0.0371	0.0376	0.0409	5	0.0498	0.0428			0.0494	0	0.0
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0	0.0
Al-D	mg/L	0.0114	0.0121	0.0135	0.0134	0.0131	5	0.0135	0.0127			0.0135	0	0.0
As-D	mg/L	0.00015	0.00017	0.00016	0.00017	0.00017	5	0.00017	0.00016	0.005		0.00017	0	0.0
Ba-D	mg/L	0.0016	0.0014	0.0014	0.0013	0.0012	5	0.0016	0.0014			0.0015	0	0.0
B-D	mg/L	0.057	<0.050	<0.050	<0.050	<0.050	5	0.057	0.0314			0.0442	0	0.0
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	0.00001	0	0.0
Ca-D	mg/L	11.2	10.4	9.98	10.5	9.81	5	11.2	10.38			10.92	0	0.0
Cl-D	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50	150	600	0.5	0	0.0
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0	0.0
Cu-D	mg/L	0.00049	0.00048	0.00053	0.00050	0.00051	5	0.00053	0.00050	*	*	0.00052	5	0.0
DOC	mg/L	2.0	2.3	4.0	2.3	2.3	5	4.0	2.6			3.3	0	0.0
Hard-D	mg/L	33.8	31.4	30.0	31.6	29.6	5	33.8	31.3			32.9	0	0.0
Fe-D	mg/L	0.0255	0.0266	0.0266	0.0252	0.0262	5	0.0266	0.0260		0.35	0.0266	0	0.0
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0	0.0
Mg-D	mg/L	1.41	1.35	1.22	1.30	1.23	5	1.41	1.30			1.39	0	0.0
Mn-D	mg/L	0.0015	<0.0010	0.0014	0.0014	<0.0010	5	0.0015	0.00106			0.00146	0	0.0
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100			0.00001	0	0.0
K-D	mg/L	0.212	0.173	0.162	0.161	0.147	5	0.212	0.171			0.196	0	0.0
S-D	mg/L	7.8	5.8	5.3	4.8	4.7	5	7.8	5.7			7	0	0.0
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			0.00005	0	0.0
Na-D	mg/L	13.0	10.4	8.69	8.77	7.68	5	13.0	9.71			11.96	0	0.0
Sr-D	mg/L	0.0565	0.0496	0.0461	0.0446	0.0433	5	0.0565	0.0480			0.0537	0	0.0
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0	0.0
N-NO23	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	5	<0.020	0.0100			0.01	0	0.0

Notes: *Calculated guideline. Refer to Exceedance Tables.

Bold indicates factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 38 Lakes 9 Page(s)

EMS ID	E206618												Count of	
StnName	Middle Quinsam Lake 9M												results	% of results
StnCode	SQL9												exceeding	exceeding
		9-Jul-24	16-Jul-24	23-Jul-24	30-Jul-24	7-Aug-24	Count	Max	5 in 30 Ave	Water Quality Guidelines	90th	Percentile	standard	standard
										Chronic	Acute			
SO4-D	mg/L	23	25	24	23	24	5	25	23.8	128		24.6	0	0.0
Turb	NTU	0.24	0.24	0.28	0.38	0.31	5	0.38	0.29			0.35	0	0.0
Alk-T	mg/L	37	36	37	38	37	5	38	37.0			37.6	0	0.0
Al-T	mg/L	0.0081	0.0078	0.0085	0.0087	0.0077	5	0.0087	0.0082	*		0.0086	0	0.0
As-T	mg/L	0.00012	0.00012	0.00010	0.00013	0.00012	5	0.00013	0.00012	0.005		0.00013	0	0.0
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	0.050	5	0.050	0.0300	1.2		0.04	0	0.0
Ba-T	mg/L	0.0014	0.0017	0.0015	0.0016	0.0016	5	0.0017	0.0016	1		0.0017	0	0.0
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			0.00001	0	0.0
Ca-T	mg/L	9.37	10.6	9.88	10.7	10.7	5	10.7	10.25			10.7	0	0.0
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	0	0.0
Cu-T	mg/L	<0.00050	0.00051	<0.00050	<0.00050	0.00053	5	0.00053	0.000358			0.000522	0	0.0
Fe-T	mg/L	0.018	0.017	0.020	0.021	0.022	5	0.022	0.020		1	0.022	0	0.0
Hard-T	mg/L	28.2	31.9	29.6	32.4	32.2	5	32.4	30.9			32.3	0	0.0
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.0176	0.0001	0	0.0
Mg-T	mg/L	1.16	1.33	1.20	1.36	1.35	5	1.36	1.28			1.36	0	0.0
Mn-T	mg/L	0.0049	0.0058	0.0050	0.0057	0.0075	5	0.0075	0.0058	0.737	0.8706	0.0068	0	0.0
P-T	mg/L	<0.0030	0.0035	0.0037	0.0037	0.0067	5	0.0067	0.00382	0.006		0.0055	0	0.0
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	0	0.0
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005	0	0.0
K-T	mg/L	0.147	0.151	0.128	0.156	0.146	5	0.156	0.146			0.154	0	0.0
S-T	mg/L	6.3	7.0	7.0	7.6	7.6	5	7.6	7.1			7.6	0	0.0
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		0.00005	0	0.0
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	0.00001	0	0.0
Na-T	mg/L	9.96	11.4	10.5	11.6	11.4	5	11.6	10.97			11.52	0	0.0
Sr-T	mg/L	0.0470	0.0520	0.0494	0.0502	0.0541	5	0.0541	0.0505			0.0533	0	0.0
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0	0.0
Al-D	mg/L	0.0079	0.0071	0.0068	0.0080	0.0073	5	0.0080	0.0074			0.008	0	0.0
As-D	mg/L	0.00012	0.00012	0.00011	0.00012	0.00013	5	0.00013	0.00012	0.005		0.00013	0	0.0
Ba-D	mg/L	0.0017	0.0017	0.0017	0.0016	0.0018	5	0.0018	0.0017			0.0018	0	0.0
B-D	mg/L	0.051	<0.050	<0.050	<0.050	0.057	5	0.057	0.0366			0.0546	0	0.0
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	0.00001	0	0.0
Ca-D	mg/L	11.5	11.5	11.0	11.9	11.5	5	11.9	11.5			11.7	0	0.0
Cl-D	mg/L	<1.0	1.0	<1.0	1.1	<1.0	5	1.1	0.72	150	600	1.06	0	0.0
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0	0.0
Cu-D	mg/L	0.00053	0.00049	0.00050	0.00054	0.00060	5	0.00060	0.00053	*	*	0.00058	5	0.0
DOC	mg/L	2.0	2.3	3.6	2.5	2.3	5	3.6	2.5			3.2	0	0.0
Hard-D	mg/L	34.4	34.9	33.3	35.8	34.5	5	35.8	34.6			35.4	0	0.0
Fe-D	mg/L	0.0114	0.0103	0.0098	0.0112	0.0109	5	0.0114	0.0107		0.35	0.0113	0	0.0
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0	0.0
Mg-D	mg/L	1.41	1.49	1.39	1.49	1.43	5	1.49	1.44			1.49	0	0.0
Mn-D	mg/L	0.0021	0.0016	<0.0010	<0.0010	<0.0010	5	0.0021	0.00104			0.0019	0	0.0
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100			0.00001	0	0.0
K-D	mg/L	0.173	0.157	0.151	0.167	0.160	5	0.173	0.162			0.171	0	0.0
S-D	mg/L	8.5	8.1	8.0	7.9	8.3	5	8.5	8.2			8.4	0	0.0
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			0.00005	0	0.0
Na-D	mg/L	12.4	12.3	11.6	12.7	12.3	5	12.7	12.3			12.6	0	0.0
Sr-D	mg/L	0.0559	0.0562	0.0566	0.0561	0.0587	5	0.0587	0.0567			0.0579	0	0.0
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0	0.0
N-NO23	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	5	<0.020	0.0100			0.01	0	0.0

Notes: *Calculated guideline. Refer to Exceedance Tables.

Bold indicates factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 38 Lakes 9 Page(s)

EMS ID	E206618												Count of	
StnName	Middle Quinsam Lake 1MB												results	% of results
StnCode	MLB												exceeding	exceeding
		9-Jul-24	16-Jul-24	23-Jul-24	30-Jul-24	7-Aug-24	Count	Max	5 in 30 Ave	Water Quality Guidelines	90th	Percentile	standard	standard
										Chronic	Acute			
SO4-D	mg/L	24	21	25	24	22	5	25	23.2	128		24.6	0	0.0
Turb	NTU	0.25	0.33	0.32	0.43	0.30	5	0.43	0.33			0.39	0	0.0
Alk-T	mg/L	38	35	37	37	37	5	38	36.8			37.6	0	0.0
Al-T	mg/L	0.0067	0.0113	0.0066	0.0072	0.0099	5	0.0113	0.0083	*		0.0107	0	0.0
As-T	mg/L	0.00011	0.00013	<0.00010	0.00011	0.00013	5	0.00013	0.000106	0.005		0.00013	0	0.0
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	0.050	5	0.050	0.0300	1.2		0.04	0	0.0
Ba-T	mg/L	0.0016	0.0015	0.0017	0.0019	0.0017	5	0.0019	0.0017	1		0.0018	0	0.0
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			0.00001	0	0.0
Ca-T	mg/L	9.65	10.1	9.76	10.9	10.6	5	10.9	10.20			10.78	0	0.0
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	0	0.0
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	0.00050	5	0.00050	0.000300			0.0004	0	0.0
Fe-T	mg/L	0.018	0.028	0.022	0.023	0.027	5	0.028	0.024		1	0.028	0	0.0
Hard-T	mg/L	29.0	30.5	29.5	33.1	32.3	5	33.1	30.9			32.8	0	0.0
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.0176	0.0001	0	0.0
Mg-T	mg/L	1.20	1.26	1.24	1.46	1.40	5	1.46	1.31			1.44	0	0.0
Mn-T	mg/L	0.0065	0.0062	0.0078	0.0084	0.0084	5	0.0084	0.0075	0.737	0.8706	0.0084	0	0.0
P-T	mg/L	0.0034	0.0032	0.0048	0.0049	0.0031	5	0.0049	0.0039	0.006		0.0049	0	0.0
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	0	0.0
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005	0	0.0
K-T	mg/L	0.164	0.156	0.151	0.180	0.172	5	0.180	0.165			0.177	0	0.0
S-T	mg/L	6.5	6.4	7.1	8.0	6.9	5	8.0	7.0			7.6	0	0.0
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		0.00005	0	0.0
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	0.00001	0	0.0
Na-T	mg/L	9.89	10.3	10.5	11.9	10.9	5	11.9	10.70			11.5	0	0.0
Sr-T	mg/L	0.0474	0.0491	0.0490	0.0513	0.0519	5	0.0519	0.0497			0.0517	0	0.0
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0	0.0
Al-D	mg/L	0.0064	0.0101	0.0051	0.0058	0.0087	5	0.0101	0.0072			0.0095	0	0.0
As-D	mg/L	<0.00010	0.00014	0.00011	<0.00010	0.00014	5	0.00014	0.000098	0.005		0.00014	0	0.0
Ba-D	mg/L	0.0019	0.0016	0.0019	0.0020	0.0018	5	0.0020	0.0018			0.002	0	0.0
B-D	mg/L	0.053	<0.050	0.051	<0.050	0.054	5	0.054	0.0416			0.0536	0	0.0
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	0.00001	0	0.0
Ca-D	mg/L	11.7	11.0	11.6	12.5	11.2	5	12.5	11.6			12.2	0	0.0
Cl-D	mg/L	1.3	1.0	1.0	1.2	<1.0	5	1.3	1.00	150	600	1.26	0	0.0
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0	0.0
Cu-D	mg/L	0.00051	0.00049	0.00051	0.00046	0.00059	5	0.00059	0.00051	*	*	0.00056	5	90.0
DOC	mg/L	2.1	2.4	4.1	2.2	2.3	5	4.1	2.6			3.4	0	0.0
Hard-D	mg/L	35.3	33.6	35.3	37.7	34.0	5	37.7	35.2			36.7	0	0.0
Fe-D	mg/L	0.0128	0.0190	0.0142	0.0139	0.0164	5	0.0190	0.0153		0.35	0.018	0	0.0
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0	0.0
Mg-D	mg/L	1.49	1.48	1.53	1.59	1.46	5	1.59	1.51			1.57	0	0.0
Mn-D	mg/L	0.0055	0.0028	0.0046	0.0037	0.0023	5	0.0055	0.0038			0.0051	0	0.0
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100			0.00001	0	0.0
K-D	mg/L	0.191	0.179	0.180	0.195	0.183	5	0.195	0.186			0.193	0	0.0
S-D	mg/L	8.9	7.4	8.1	8.2	7.6	5	8.9	8.0			8.6	0	0.0
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			0.00005	0	0.0
Na-D	mg/L	12.4	12.0	12.8	13.1	11.4	5	13.1	12.3			13	0	0.0
Sr-D	mg/L	0.0569	0.0544	0.0556	0.0575	0.0554	5	0.0575	0.0560			0.0573	0	0.0
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0	0.0
N-NO23	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	5	<0.020	0.0100			0.01	0	0.0

Notes: *Calculated guideline. Refer to Exceedance Tables.

Bold indicates factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 38 Lakes 9 Page(s)

EMS ID	StnName	LLE Zone of Dilution 2								Water Quality Guidelines		90th	Count of	% of results
StnCode		LLEZ2					Count	Max	5 in 30 Ave	Chronic	Acute	Percentile	results	exceeding
		9-Jul-24	16-Jul-24	23-Jul-24	30-Jul-24	7-Aug-24							standard	standard
SO4-D	mg/L	44	44	49	50	52	5	52	47.8	128		51.2	0	0.0
Turb	NTU	0.23	0.28	0.36	0.39	0.36	5	0.39	0.32			0.38	0	0.0
Alk-T	mg/L	27	26	28	29	29	5	29	27.8			29	0	0.0
Al-T	mg/L	0.0173	0.0144	0.0131	0.0123	0.0107	5	0.0173	0.0136	*		0.0161	0	0.0
As-T	mg/L	0.00057	0.00052	0.00061	0.00060	0.00061	5	0.00061	0.00058	0.005		0.00061	0	0.0
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	0.055	5	0.055	0.0310	1.2		0.043	0	0.0
Ba-T	mg/L	0.0058	0.0052	0.0057	0.0058	0.0058	5	0.0058	0.0057	1		0.0058	0	0.0
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			0.00001	0	0.0
Ca-T	mg/L	17.6	17.2	20.1	19.9	20.3	5	20.3	19.0			20.2	0	0.0
Cr-T	mg/L	0.0076	<0.0010	<0.0010	<0.0010	<0.0010	5	0.0076	0.00192			0.00476	0	0.0
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	0	0.0
Cu-T	mg/L	0.00109	<0.00050	<0.00050	<0.00050	0.00076	5	0.00109	0.000520			0.000958	0	0.0
Fe-T	mg/L	0.100	0.065	0.064	0.055	0.054	5	0.100	0.068		1	0.086	0	0.0
Hard-T	mg/L	54.6	52.3	61.8	60.9	62.7	5	62.7	58.5			62.3	0	0.0
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.0176	0.0001	0	0.0
Mg-T	mg/L	2.57	2.28	2.82	2.74	2.88	5	2.88	2.66			2.86	0	0.0
Mn-T	mg/L	0.0105	0.0102	0.0095	0.0076	0.0067	5	0.0105	0.0089	0.737	0.8706	0.0104	0	0.0
P-T	mg/L	0.0040	0.0047	0.0037	0.0044	0.0030	5	0.0047	0.0040	0.006		0.0046	0	0.0
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	0	0.0
Ni-T	mg/L	0.0021	<0.0010	<0.0010	<0.0010	<0.0010	5	0.0021	0.00082	0.025		0.00146	0	0.0
K-T	mg/L	0.207	0.185	0.212	0.219	0.208	5	0.219	0.206			0.216	0	0.0
S-T	mg/L	14.8	12.9	15.1	16.3	16.4	5	16.4	15.1			16.4	0	0.0
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		0.00005	0	0.0
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	0.00001	0	0.0
Na-T	mg/L	4.78	4.56	5.30	5.42	5.43	5	5.43	5.10			5.43	0	0.0
Sr-T	mg/L	0.105	0.100	0.117	0.126	0.139	5	0.139	0.117			0.134	0	0.0
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0	0.0
Al-D	mg/L	0.0149	0.0192	0.0124	0.0124	0.0090	5	0.0192	0.0136			0.0175	0	0.0
As-D	mg/L	0.00055	0.00066	0.00060	0.00057	0.00061	5	0.00066	0.00060	0.005		0.00064	0	0.0
Ba-D	mg/L	0.0053	0.0057	0.0059	0.0059	0.0061	5	0.0061	0.0058			0.006	0	0.0
B-D	mg/L	<0.050	<0.050	0.052	0.055	0.055	5	0.055	0.0424			0.055	0	0.0
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	0.00001	0	0.0
Ca-D	mg/L	18.8	19.3	21.1	22.3	21.5	5	22.3	20.6			22	0	0.0
Cl-D	mg/L		<1.0	<1.0	<1.0	<1.0	4	<1.0	0.50	150	600	0.5	0	0.0
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0	0.0
Cu-D	mg/L	0.00046	0.00044	0.00040	0.00035	0.00037	5	0.00046	0.00040	*	*	0.00045	5	10.0
DOC	mg/L	3.7	4.0	5.4	3.9	3.9	5	5.4	4.2			4.8	0	0.0
Hard-D	mg/L	57.9	59.1	64.9	68.6	66.4	5	68.6	63.4			67.7	0	0.0
Fe-D	mg/L	0.0618	0.0569	0.0498	0.0415	0.0353	5	0.0618	0.0491		0.35	0.0598	0	0.0
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0	0.0
Mg-D	mg/L	2.68	2.68	2.96	3.13	3.05	5	3.13	2.90			3.1	0	0.0
Mn-D	mg/L	0.0090	0.0059	0.0013	0.0020	0.0020	5	0.0090	0.0040			0.0078	0	0.0
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0
Ag-D	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100			0.00001	0	0.0
K-D	mg/L	0.208	0.207	0.221	0.231	0.221	5	0.231	0.218			0.227	0	0.0
S-D	mg/L	16.2	12.6	16.4	17.1	17.9	5	17.9	16.0			17.6	0	0.0
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			0.00005	0	0.0

Appendix 1 - Tables

Table 39 Rivers 9 Page(s)

EMS ID	E217017	Water Quality Guidelines												
StnName	No Name Lake Outlet													
StnCode	NNO													
Date	Unit	8-Jul-24	15-Jul-24	22-Jul-24	29-Jul-24	6-Aug-24	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile	Count of results	Percent of results exceeding standard
pH-F	pH Units	6.85	7.38	7.31	7.79	7.45	5	7.79	7.36			7.65	0	0.0
Cond-F	uS/cm	39.4	38.8	42.7	37.1	41	5	42.7	39.8			42	0	0.0
SO4-D	mg/L	1.4	1.0	1.4	1.2	1.5	5	1.5	1.3	128		1.5	0	0.0
TSS	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50			0.5	0	0.0
Alk-T	mg/L	14	15	16	21	17	5	21	16.6			19.4	0	0.0
Al-T	mg/L	0.0220	0.0225	0.0157	0.0190	0.0165	5	0.0225	0.0191	*		0.0223	0	0.0
As-T	mg/L	0.00033	0.00037	0.00035	0.00041	0.00040	5	0.00041	0.00037	0.005		0.00041	0	0.0
Ba-T	mg/L	0.0011	0.0012	0.0011	0.0012	0.0012	5	0.0012	0.0012	1		0.0012	0	0.0
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025	0	0.0
Bicarb	mg/L	17	19	19	25	21	5	25	20.2			23.4	0	0.0
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			5.00E-06	0	0.0
Ca-T	mg/L	3.91	4.29	3.98	4.45	4.42	5	4.45	4.21			4.44	0	0.0
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	0	0.0
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	5	<0.00050	0.000250			0.00025	0	0.0
Hard-T	mg/L	13.3	14.5	13.4	15.4	14.7	5	15.4	14.3			15.1	0	0.0
Fe-T	mg/L	0.069	0.091	0.082	0.093	0.097	5	0.097	0.086		1	0.095	0	0.0
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.0176	0.0001	0	0.0
Mg-T	mg/L	0.854	0.926	0.836	1.04	0.888	5	1.04	0.909			0.994	0	0.0
Mn-T	mg/L	0.0062	0.0115	0.0114	0.0095	0.0101	5	0.0115	0.0097	0.737	0.8706	0.0115	0	0.0
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	0	0.0
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005	0	0.0
K-T	mg/L	0.058	0.052	<0.050	0.076	<0.050	5	0.076	0.0472			0.0688	0	0.0
S-T	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50			1.5	0	0.0
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05	0	0.0
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05	0	0.0
Na-T	mg/L	1.09	1.17	1.05	1.23	1.19	5	1.23	1.15			1.21	0	0.0
Sr-T	mg/L	0.0127	0.0137	0.0128	0.0137	0.0143	5	0.0143	0.0134			0.0141	0	0.0
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0	0.0
Al-D	mg/L	0.0219	0.0197	0.0162	0.0177	0.0158	5	0.0219	0.0183			0.021	0	0.0
As-D	mg/L	0.00034	0.00038	0.00039	0.00040	0.00041	5	0.00041	0.00038	0.005		0.00041	0	0.0
Ba-D	mg/L	0.0012	0.0012	0.0012	0.0013	0.0013	5	0.0013	0.0012			0.0013	0	0.0
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250			0.025	0	0.0
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	5.00E-06	0	0.0
Ca-D	mg/L	4.65	4.70	4.68	5.08	4.88	5	5.08	4.80			5	0	0.0
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0	0.0
Cu-D	mg/L	0.00045	0.00046	0.00045	0.00050	0.00039	5	0.00050	0.00045	*	*	0.00048	5	0.0
Hard-D	mg/L	15.7	15.9	15.7	17.0	16.4	5	17.0	16.1			16.8	0	0.0
DOC	mg/L	3.6	4.0	4.5	3.6	3.7	5	4.5	3.9			4.3	0	0.0
Fe-D	mg/L	0.0636	0.0795	0.0825	0.0883	0.0910	5	0.0910	0.0810		0.35	0.0899	0	0.0
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0	0.0
Mg-D	mg/L	0.987	1.01	0.986	1.06	1.02	5	1.06	1.013			1.044	0	0.0
Mn-D	mg/L	0.0037	0.0077	0.0094	0.0072	0.0074	5	0.0094	0.0071			0.0087	0	0.0
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0
K-D	mg/L	0.058	0.055	0.057	0.060	0.051	5	0.060	0.056			0.059	0	0.0
S-D	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50			1.5	0	0.0
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			5.00E-05	0	0.0
Na-D	mg/L	1.24	1.30	1.26	1.36	1.33	5	1.36	1.30			1.35	0	0.0
Sr-D	mg/L	0.0144	0.0146	0.0154	0.0153	0.0146	5	0.0154	0.0149			0.0154	0	0.0
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0	0.0

Notes: * Calculated guideline. See Exceedance Table.

Bold indicates factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 39 Rivers 9 Page(s)

EMS ID	E219412	Water Quality Guidelines												
StnName	Long Lake Outlet													
StnCode	LLO													
Date	Unit	8-Jul-24	15-Jul-24	22-Jul-24	29-Jul-24	6-Aug-24	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile	Count of results exceeding standard	Percent of results exceeding standard
pH-F	pH Units	7.6	7.59	7.46	7.61	7.5	5	7.61	7.55			7.61	0	0.0
Cond-F	uS/cm	154	159.6	177.1	165.2	182.5	5	182.5	167.7			180.3	0	0.0
SO4-D	mg/L	43	45	44	49	50	5	50	46.2	128		49.6	0	0.0
TSS	mg/L	1.2	<1.0	<1.0	<1.0	1.6	5	1.6	0.86			1.44	0	0.0
Alk-T	mg/L	27	28	30	30	29	5	30	28.8			30	0	0.0
Al-T	mg/L	0.0155	0.0142	0.0096	0.0118	0.0141	5	0.0155	0.0130	*		0.015	0	0.0
As-T	mg/L	0.00048	0.00049	0.00046	0.00053	0.00052	5	0.00053	0.00050	0.005		0.00053	0	0.0
Ba-T	mg/L	0.0048	0.0053	0.0051	0.0063	0.0059	5	0.0063	0.0055	1		0.0061	0	0.0
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	0.057	5	0.057	0.0314	1.2		0.0442	0	0.0
Bicarb	mg/L	33	34	36	36	35	5	36	34.8			36	0	0.0
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			5.00E-06	0	0.0
Ca-T	mg/L	15.7	17.8	17.8	20.4	20.1	5	20.4	18.4			20.3	0	0.0
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	0	0.0
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	5	<0.00050	0.000250			0.00025	0	0.0
Hard-T	mg/L	48.7	54.7	55.0	63.0	61.8	5	63.0	56.6			62.5	0	0.0
Fe-T	mg/L	0.063	0.064	0.055	0.048	0.043	5	0.064	0.055		1	0.064	0	0.0
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.0176	0.0001	0	0.0
Mg-T	mg/L	2.30	2.55	2.55	2.92	2.80	5	2.92	2.61			2.87	0	0.0
Mn-T	mg/L	0.0072	0.0077	0.0053	0.0071	0.0076	5	0.0077	0.0070	0.737	0.8706	0.0077	0	0.0
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	0	0.0
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005	0	0.0
K-T	mg/L	0.180	0.215	0.195	0.245	0.214	5	0.245	0.210			0.233	0	0.0
S-T	mg/L	12.0	14.2	12.3	17.4	16.2	5	17.4	14.4			16.9	0	0.0
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05	0	0.0
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05	0	0.0
Na-T	mg/L	4.22	4.91	4.65	5.73	5.34	5	5.73	4.97			5.57	0	0.0
Sr-T	mg/L	0.0934	0.104	0.105	0.136	0.137	5	0.137	0.1151			0.1366	0	0.0
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0	0.0
Al-D	mg/L	0.0129	0.0102	0.0070	0.0073	0.0075	5	0.0129	0.0090			0.0118	0	0.0
As-D	mg/L	0.00050	0.00056	0.00048	0.00048	0.00052	5	0.00056	0.00051	0.005		0.00054	0	0.0
Ba-D	mg/L	0.0054	0.0056	0.0058	0.0059	0.0063	5	0.0063	0.0058			0.0061	0	0.0
B-D	mg/L	<0.050	0.051	<0.050	0.050	0.053	5	0.053	0.0408			0.0522	0	0.0
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	5.00E-06	0	0.0
Ca-D	mg/L	18.4	19.9	19.8	23.0	22.4	5	23.0	20.7			22.8	0	0.0
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0	0.0
Cu-D	mg/L	0.00038	0.00037	0.00036	0.00033	0.00032	5	0.00038	0.00035	*	*	0.00038	5	0.0
Hard-D	mg/L	57.2	61.3	60.8	70.6	68.7	5	70.6	63.7			69.8	0	0.0
DOC	mg/L	3.3	3.7	4.6	3.6	3.8	5	4.6	3.8			4.3	0	0.0
Fe-D	mg/L	0.0565	0.0561	0.0434	0.0359	0.0297	5	0.0565	0.0443		0.35	0.0563	0	0.0
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0	0.0
Mg-D	mg/L	2.70	2.81	2.78	3.18	3.09	5	3.18	2.91			3.14	0	0.0
Mn-D	mg/L	0.0039	0.0019	0.0018	0.0021	0.0022	5	0.0039	0.0024			0.0032	0	0.0
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0
K-D	mg/L	0.201	0.216	0.220	0.243	0.235	5	0.243	0.223			0.24	0	0.0
S-D	mg/L	14.2	14.8	15.0	17.3	17.1	5	17.3	15.7			17.2	0	0.0
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			5.00E-05	0	0.0
Na-D	mg/L	4.93	5.48	5.25	6.05	5.85	5	6.05	5.51			5.97	0	0.0
Sr-D	mg/L	0.108	0.113	0.118	0.126	0.134	5	0.134	0.120			0.131	0	0.0
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0	0.0

Notes: *Calculated guideline. See Exceedance Table.
 Bold indicates factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 39 Rivers 9 Page(s)

EMS ID	E0126402											Water Quality Guideline:			
StnName	Quinsam River at Argonaut Road														
StnCode	WA														
													Count of results exceeding standard	Percent of results exceeding standard	
Date	Unit	8-Jul-24	15-Jul-24	22-Jul-24	29-Jul-24	6-Aug-24	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile			
pH-F	pH Units	7.67	7.78	7.78	7.96	7.73	5	7.96	7.78			7.89	0	0.0	
Cond-F	uS/cm	49.7	46.2	47.2	44.2	48.9	5	49.7	47.2			49.4	0	0.0	
SO4-D	mg/L	1.3	<1.0	1.2	1.2	1.5	5	1.5	1.14	128		1.42	0	0.0	
TSS	mg/L	1.6	<1.0	<1.0	<1.0	<1.0	5	1.6	0.72			1.16	0	0.0	
Alk-T	mg/L	22	23	22	23	22	5	23	22.4			23	0	0.0	
Al-T	mg/L	0.0188	0.0188	0.0152	0.0159	0.0176	5	0.0188	0.0173	*		0.0188	0	0.0	
As-T	mg/L	0.00013	0.00012	0.0001	0.00012	0.00014	5	0.00014	0.00012	0.005		0.00014	0	0.0	
Ba-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	1		0.0005	0	0.0	
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025	0	0.0	
Bicarb	mg/L	27	28	27	28	27	5	28	27.4			28	0	0.0	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			5.00E-06	0	0.0	
Ca-T	mg/L	5.87	6.68	5.82	6.6	6.62	5	6.68	6.32			6.66	0	0.0	
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0	
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	0	0.0	
Cu-T	mg/L	0.00054	0.00055	<0.00050	0.00054	0.00055	5	0.00055	0.00049			0.00055	0	0.0	
Hard-T	mg/L	17.2	19.6	17.1	19.6	19.3	5	19.6	18.6			19.6	0	0.0	
Fe-T	mg/L	0.018	0.019	0.016	0.016	0.018	5	0.019	0.017		1	0.019	0	0.0	
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.0176	0.0001	0	0.0	
Mg-T	mg/L	0.625	0.71	0.619	0.768	0.682	5	0.768	0.681			0.745	0	0.0	
Mn-T	mg/L	0.0021	0.0021	0.0016	0.0016	0.0016	5	0.0021	0.0018	0.737	0.8706	0.0021	0	0.0	
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	0	0.0	
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005	0	0.0	
K-T	mg/L	0.058	<0.050	<0.050	0.057	<0.050	5	0.058	0.038			0.0576	0	0.0	
S-T	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50			1.5	0	0.0	
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05	0	0.0	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05	0	0.0	
Na-T	mg/L	0.543	0.601	0.502	0.594	0.606	5	0.606	0.569			0.604	0	0.0	
Sr-T	mg/L	0.0097	0.0112	0.0098	0.0107	0.0113	5	0.0113	0.0105			0.0113	0	0.0	
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0	0.0	
Al-D	mg/L	0.0152	0.0156	0.0146	0.0151	0.016	5	0.016	0.0153			0.0158	0	0.0	
As-D	mg/L	0.00013	0.00012	0.00011	0.00011	0.00013	5	0.00013	0.000120	0.005		1.30E-04	0	0.0	
Ba-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.0005			0.0005	0	0.0	
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250			0.025	0	0.0	
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	5.00E-06	0	0.0	
Ca-D	mg/L	6.92	7.06	6.95	7.5	7.27	5	7.5	7.14			7.41	0	0.0	
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0	
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0	0.0	
Cu-D	mg/L	0.00054	0.00054	0.00053	0.00054	0.00049	5	0.00054	0.00053	*	*	0.00054	5	0.0	
Hard-D	mg/L	20.3	20.8	20.4	22	21.3	5	22	21			21.7	0	0.0	
DOC	mg/L	1.9	2.2	2.8	2.2	1.7	5	2.8	2.2			2.6	0	0.0	
Fe-D	mg/L	0.011	0.0129	0.0123	0.0147	0.0138	5	0.0147	0.0129		0.35	0.0143	0	0.0	
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0	0.0	
Mg-D	mg/L	0.737	0.77	0.729	0.786	0.767	5	0.786	0.758			0.78	0	0.0	
Mn-D	mg/L	0.0013	0.0011	<0.0010	0.001	<0.0010	5	0.0013	0.00088			0.00122	0	0.0	
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0	
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0	
K-D	mg/L	0.057	0.054	0.055	0.064	0.051	5	0.064	0.056			0.061	0	0.0	
S-D	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50			1.5	0	0.0	
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			5.00E-05	0	0.0	
Na-D	mg/L	0.613	0.667	0.652	0.704	0.669	5	0.704	0.661			0.69	0	0.0	
Sr-D	mg/L	0.0117	0.0115	0.0119	0.012	0.0113	5	0.012	0.0117			0.012	0	0.0	
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0	0.0	

Notes: *Calculated guideline. See Exceedance Table.

Bold indicates factor applied to less-than results when calculating statistics: 0.5

Notes: * Calculated guideline. See Exceedance Table.

Bold indicates factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 39 Rivers 9 Page(s)

EMS ID		E0900504						Water Quality Guidelines						
StnName		Middle Quinsam Lake Outlet												
StnCode		WB												
Date	Unit	8-Jul-24	15-Jul-24	22-Jul-24	29-Jul-24	6-Aug-24	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile	Count of results exceeding standard	Percent of results exceeding standard
pH-F	pH Units	7.98	7.92	7.95	7.95	8.16	5	8.16	7.99			8.09	0	0.0
Cond-F	uS/cm	163.9	121.5	112.7	100.5	99.8	5	163.9	119.7			146.9	0	0.0
SO4-D	mg/L	22	19	17	15	14	5	22	17.4	128		20.8	0	0.0
TSS	mg/L	<1.0	<1.0	<1.0	1.6	1.6	5	1.6	0.94			1.6	0	0.0
Alk-T	mg/L	40	37	37	35	33	5	40	36.4			38.8	0	0.0
Al-T	mg/L	0.0124	0.0157	0.0129	0.0130	0.0119	5	0.0157	0.0132	*		0.0146	0	0.0
As-T	mg/L	0.00015	0.00020	0.00016	0.00018	0.00018	5	0.00020	0.00017	0.005		0.00019	0	0.0
Ba-T	mg/L	0.0014	0.0014	0.0011	0.0013	0.0012	5	0.0014	0.0013	1		0.0014	0	0.0
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025	0	0.0
Bicarb	mg/L	49	45	45	42	41	5	49	44.4			47.4	0	0.0
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			5.00E-06	0	0.0
Ca-T	mg/L	9.35	10.1	8.92	9.42	9.38	5	10.1	9.43			9.83	0	0.0
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	0	0.0
Cu-T	mg/L	0.00058	<0.00050	0.00050	0.00147	<0.00050	5	0.00147	0.000610			0.001114	0	0.0
Hard-T	mg/L	28.4	30.6	26.7	28.7	28.4	5	30.6	28.6			29.8	0	0.0
Fe-T	mg/L	0.030	0.038	0.031	0.036	0.034	5	0.038	0.034		1	0.037	0	0.0
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.0176	0.0001	0	0.0
Mg-T	mg/L	1.23	1.30	1.08	1.25	1.20	5	1.30	1.21			1.28	0	0.0
Mn-T	mg/L	0.0066	0.0102	0.0075	0.0081	0.0081	5	0.0102	0.0081	0.737	0.8706	0.0094	0	0.0
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	0	0.0
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005	0	0.0
K-T	mg/L	0.185	0.179	0.150	0.152	0.131	5	0.185	0.159			0.183	0	0.0
S-T	mg/L	6.3	5.3	4.9	5.0	4.8	5	6.3	5.3			5.9	0	0.0
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05	0	0.0
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05	0	0.0
Na-T	mg/L	10.9	10.0	7.91	8.10	7.15	5	10.9	8.81			10.54	0	0.0
Sr-T	mg/L	0.0505	0.0501	0.0410	0.0419	0.0422	5	0.0505	0.0451			0.0503	0	0.0
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0	0.0
Al-D	mg/L	0.0124	0.0133	0.0128	0.0129	0.0120	5	0.0133	0.0127			0.0131	0	0.0
As-D	mg/L	0.00017	0.00020	0.00017	0.00016	0.00019	5	0.00020	0.00018	0.005		0.0002	0	0.0
Ba-D	mg/L	0.0017	0.0016	0.0014	0.0013	0.0014	5	0.0017	0.0015			0.0017	0	0.0
B-D	mg/L	0.055	0.052	<0.050	<0.050	<0.050	5	0.055	0.0364			0.0538	0	0.0
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	5.00E-06	0	0.0
Ca-D	mg/L	11.4	11.0	10.2	10.6	10.6	5	11.4	10.8			11.2	0	0.0
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0	0.0
Cu-D	mg/L	0.00052	0.00050	0.00050	0.00048	0.00046	5	0.00052	0.00049	*	*	0.00051	5	0.0
Hard-D	mg/L	34.4	33.4	30.9	32.1	31.9	5	34.4	32.5			34	0	0.0
DOC	mg/L	2.3	2.5	4.1	2.4	2.4	5	4.1	2.7			3.5	0	0.0
Fe-D	mg/L	0.0284	0.0310	0.0255	0.0259	0.0283	5	0.0310	0.0278		0.35	0.03	0	0.0
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0	0.0
Mg-D	mg/L	1.45	1.43	1.28	1.34	1.33	5	1.45	1.37			1.44	0	0.0
Mn-D	mg/L	0.0041	0.0041	0.0026	0.0035	0.0024	5	0.0041	0.0033			0.0041	0	0.0
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0
K-D	mg/L	0.216	0.183	0.166	0.165	0.147	5	0.216	0.175			0.203	0	0.0
S-D	mg/L	8.9	6.7	5.7	5.1	5.2	5	8.9	6.3			8	0	0.0
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			5.00E-05	0	0.0
Na-D	mg/L	13.2	11.2	9.14	9.13	8.05	5	13.2	10.14			12.4	0	0.0
Sr-D	mg/L	0.0595	0.0542	0.0492	0.0462	0.0438	5	0.0595	0.0506			0.0574	0	0.0
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0	0.0

Notes: * Calculated guideline. See Exceedance Table.

Bold indicates factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 39 Rivers 9 Page(s)

EMS ID		E286930						Water Quality Guidelines						
StnName		Quinsam River Downstream 1												
StnCode		QRDS1												
Date	Unit	8-Jul-24	15-Jul-24	22-Jul-24	29-Jul-24	6-Aug-24	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile	Count of results exceeding standard	Percent of results exceeding standard
pH-F	pH Units	8.08	8.16	8.13	8.22	8.19	5	8.22	8.16			8.21	0	0.0
Cond-F	uS/cm	147.7	130.5	122.4	109.3	108.5	5	147.7	123.7			140.8	0	0.0
SO4-D	mg/L	24	20	18	16	15	5	24	18.6	128		22.4	0	0.0
TSS	mg/L	3.2	1.2	2.0	<1.0	2.0	5	3.2	1.78			2.72	0	0.0
Alk-T	mg/L	43	39	38	38	37	5	43	39.2			41.4	0	0.0
Al-T	mg/L	0.0164	0.0134	0.0183	0.0185	0.0468	5	0.0468	0.0227	*		0.0355	0	0.0
As-T	mg/L	0.00064	0.00065	0.00061	0.00069	0.00068	5	0.00069	0.00065	0.005		0.00069	0	0.0
Ba-T	mg/L	0.0024	0.0022	0.0019	0.0021	0.0022	5	0.0024	0.0022	1		0.0023	0	0.0
B-T	mg/L	<0.050	0.051	<0.050	<0.050	0.050	5	0.051	0.0352	1.2		0.0506	0	0.0
Bicarb	mg/L	52	48	47	47	45	5	52	47.8			50.4	0	0.0
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			5.00E-06	0	0.0
Ca-T	mg/L	9.81	10.1	8.91	9.65	9.91	5	10.1	9.68			10.02	0	0.0
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	0	0.0
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	0.00079	5	0.00079	0.000358			0.000574	0	0.0
Hard-T	mg/L	29.9	30.9	26.7	29.4	30.0	5	30.9	29.4			30.5	0	0.0
Fe-T	mg/L	0.040	0.039	0.041	0.046	0.084	5	0.084	0.050		1	0.069	0	0.0
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.0176	0.0001	0	0.0
Mg-T	mg/L	1.32	1.36	1.09	1.28	1.27	5	1.36	1.26			1.34	0	0.0
Mn-T	mg/L	0.0055	0.0056	0.0050	0.0061	0.0074	5	0.0074	0.0059	0.737	0.8706	0.0069	0	0.0
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	0	0.0
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005	0	0.0
K-T	mg/L	0.217	0.209	0.167	0.184	0.170	5	0.217	0.189			0.214	0	0.0
S-T	mg/L	6.7	5.2	5.0	5.4	5.6	5	6.7	5.6			6.3	0	0.0
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05	0	0.0
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05	0	0.0
Na-T	mg/L	12.1	11.7	9.11	9.69	8.96	5	12.1	10.31			11.94	0	0.0
Sr-T	mg/L	0.0560	0.0531	0.0447	0.0447	0.0478	5	0.0560	0.0493			0.0548	0	0.0
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0	0.0
Al-D	mg/L	0.0104	0.0102	0.0121	0.0111	0.0098	5	0.0121	0.0107			0.0117	0	0.0
As-D	mg/L	0.00063	0.00067	0.00065	0.00060	0.00061	5	0.00067	0.00063	0.005		0.00066	0	0.0
Ba-D	mg/L	0.0029	0.0024	0.0024	0.0020	0.0021	5	0.0029	0.0024			0.0027	0	0.0
B-D	mg/L	0.062	0.058	<0.050	<0.050	<0.050	5	0.062	0.0390			0.0604	0	0.0
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	5.00E-06	0	0.0
Ca-D	mg/L	11.8	11.2	10.6	11.1	10.8	5	11.8	11.1			11.6	0	0.0
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0	0.0
Cu-D	mg/L	0.00054	0.00045	0.00051	0.00045	0.00044	5	0.00054	0.00048	*	*	0.00053	5	0.0
Hard-D	mg/L	35.8	34.1	31.9	33.5	32.6	5	35.8	33.6			35.1	0	0.0
DOC	mg/L	2.0	2.2	3.8	2.1	2.1	5	3.8	2.4			3.2	0	0.0
Fe-D	mg/L	0.0264	0.0257	0.0264	0.0245	0.0262	5	0.0264	0.0258		0.35	0.0264	0	0.0
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0	0.0
Mg-D	mg/L	1.56	1.51	1.35	1.41	1.39	5	1.56	1.44			1.54	0	0.0
Mn-D	mg/L	0.0018	0.0017	0.0019	0.0016	0.0016	5	0.0019	0.0017			0.0019	0	0.0
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0
K-D	mg/L	0.248	0.219	0.206	0.196	0.179	5	0.248	0.210			0.236	0	0.0
S-D	mg/L	8.4	6.9	6.2	5.8	5.5	5	8.4	6.6			7.8	0	0.0
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			5.00E-05	0	0.0
Na-D	mg/L	14.5	12.7	10.8	10.8	9.86	5	14.5	11.73			13.78	0	0.0
Sr-D	mg/L	0.0648	0.0576	0.0541	0.0502	0.0474	5	0.0648	0.0548			0.0619	0	0.0
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0	0.0

Notes: * Calculated guideline. See Exceedance Table.
Bold indicates factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 39 Rivers 9 Page(s)

EMS ID	E292113						Water Quality Guideline:							
StnName	7 South Quinsam River													
StnCode	75QR													
													Count of results exceeding standard	Percent of results exceeding standard
Date	Unit	8-Jul-24	15-Jul-24	22-Jul-24	29-Jul-24	6-Aug-24	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile		
pH-F	pH Units	7.43	7.59	7.7	7.65	7.19	5	7.7	7.51			7.68	0	0.0
Cond-F	uS/cm	151.8	131.1	121.6	109.9	115	5	151.8	125.9			143.5	0	0.0
SO4-D	mg/L	23	19	18	15	15	5	23	18.0	128		21.4	0	0.0
TSS	mg/L	<1.0	<1.0	2.0	1.2	<1.0	5	2.0	0.94			1.68	0	0.0
Alk-T	mg/L	44	41	40	39	38	5	44	40.4			42.8	0	0.0
Al-T	mg/L	0.0209	0.0231	0.0148	0.0167	0.0185	5	0.0231	0.0188	*		0.0222	0	0.0
As-T	mg/L	0.00086	0.00084	0.00068	0.00077	0.00075	5	0.00086	0.00078	0.005		0.00085	0	0.0
Ba-T	mg/L	0.0032	0.0027	0.0021	0.0023	0.0024	5	0.0032	0.0025	1		0.003	0	0.0
B-T	mg/L	0.063	0.054	<0.050	<0.050	0.055	5	0.063	0.0444	1.2		0.0598	0	0.0
Bicarb	mg/L	53	50	49	47	46	5	53	49.0			51.8	0	0.0
Cd-T	mg/L	<0.000010	<0.000010	0.000011	<0.000010	<0.000010	5	0.000011	0.0000062			8.60E-06	0	0.0
Ca-T	mg/L	12.3	10.5	9.22	9.11	9.59	5	12.3	10.14			11.58	0	0.0
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	0	0.0
Cu-T	mg/L	0.00064	<0.00050	0.00082	<0.00050	<0.00050	5	0.00082	0.000442			0.000748	0	0.0
Hard-T	mg/L	37.3	31.9	28.0	28.0	29.2	5	37.3	30.9			35.1	0	0.0
Fe-T	mg/L	0.117	0.106	0.079	0.093	0.102	5	0.117	0.099		1	0.113	0	0.0
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.0176	0.0001	0	0.0
Mg-T	mg/L	1.62	1.37	1.21	1.28	1.27	5	1.62	1.35			1.52	0	0.0
Mn-T	mg/L	0.0083	0.0075	0.0063	0.0057	0.0071	5	0.0083	0.0070	0.737	0.8706	0.008	0	0.0
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	0	0.0
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005	0	0.0
K-T	mg/L	0.259	0.207	0.185	0.204	0.170	5	0.259	0.205			0.238	0	0.0
S-T	mg/L	8.2	6.6	5.2	5.1	5.0	5	8.2	6.0			7.6	0	0.0
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05	0	0.0
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05	0	0.0
Na-T	mg/L	14.0	11.6	9.48	9.50	8.75	5	14.0	10.67			13.04	0	0.0
Sr-T	mg/L	0.0682	0.0565	0.0475	0.0458	0.0473	5	0.0682	0.0531			0.0635	0	0.0
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0	0.0
Al-D	mg/L	0.0106	0.0114	0.0097	0.0107	0.0107	5	0.0114	0.0106			0.0111	0	0.0
As-D	mg/L	0.00073	0.00078	0.00072	0.00069	0.00073	5	0.00078	0.00073	0.005		0.00076	0	0.0
Ba-D	mg/L	0.0030	0.0027	0.0026	0.0024	0.0026	5	0.0030	0.0027			0.0029	0	0.0
B-D	mg/L	0.064	0.064	0.051	<0.050	0.051	5	0.064	0.0510			0.064	0	0.0
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	5.00E-06	0	0.0
Ca-D	mg/L	11.8	11.2	10.6	11.0	10.7	5	11.8	11.1			11.6	0	0.0
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0	0.0
Cu-D	mg/L	0.00046	0.00047	0.00049	0.00044	0.00043	5	0.00049	0.00046	*	*	0.00048	5	0.0
Hard-D	mg/L	35.9	34.3	32.2	33.3	32.6	5	35.9	33.7			35.3	0	0.0
DOC	mg/L	1.9	2.5	3.8	2.5	2.4	5	3.8	2.6			3.3	0	0.0
Fe-D	mg/L	0.0723	0.0717	0.0651	0.0784	0.0700	5	0.0784	0.0715		0.35	0.076	0	0.0
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0	0.0
Mg-D	mg/L	1.57	1.53	1.39	1.42	1.42	5	1.57	1.47			1.55	0	0.0
Mn-D	mg/L	0.0065	0.0065	0.0056	0.0055	0.0067	5	0.0067	0.0062			0.0066	0	0.0
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0
K-D	mg/L	0.243	0.227	0.225	0.222	0.192	5	0.243	0.222			0.237	0	0.0
S-D	mg/L	8.5	7.3	6.6	5.5	5.8	5	8.5	6.7			8	0	0.0
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			5.00E-05	0	0.0
Na-D	mg/L	13.9	12.8	10.8	10.9	9.73	5	13.9	11.63			13.46	0	0.0
Sr-D	mg/L	0.0660	0.0594	0.0540	0.0512	0.0485	5	0.0660	0.0558			0.0634	0	0.0
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0	0.0
Notes: *Calculated guideline. See Exceedance Table.														
Bold indicates factor applied to less-than results when calculating statistics: 0.5														

Notes: * Calculated guideline. See Exceedance Table.

Bold indicates factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 39 Rivers 9 Page(s)

EMS ID	E299256											Water Quality Guideline:		
StnName	Iron River & Quinsam River											Count of results exceeding standard	Percent of results exceeding standard	
StnCode	IRQR													
Date	Unit	8-Jul-24	15-Jul-24	22-Jul-24	29-Jul-24	6-Aug-24	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile		
pH-F	pH Units	7.55	7.74	7.71	7.69	7.56	5	7.74	7.65			7.73	0	0.0
Cond-F	uS/cm	142.2	132.6	123.5	110.9	109.6	5	142.2	123.8			138.4	0	0.0
SO4-D	mg/L	20	18	17	15	14	5	20	16.8	128		19.2	0	0.0
TSS	mg/L	1.2	<1.0	<1.0	<1.0	2.8	5	2.8	1.10			2.16	0	0.0
Alk-T	mg/L	42	40	40	40	39	5	42	40.2			41.2	0	0.0
Al-T	mg/L	0.0202	0.0291	0.0152	0.0141	0.0179	5	0.0291	0.0193	*		0.0255	0	0.0
As-T	mg/L	0.00091	0.00080	0.00066	0.00072	0.00078	5	0.00091	0.00077	0.005		0.00087	0	0.0
Ba-T	mg/L	0.0037	0.0029	0.0023	0.0026	0.0030	5	0.0037	0.0029	1		0.0034	0	0.0
B-T	mg/L	0.050	0.050	<0.050	<0.050	0.054	5	0.054	0.0408	1.2		0.0524	0	0.0
Bicarb	mg/L	51	49	49	49	47	5	51	49.0			50.2	0	0.0
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			5.00E-06	0	0.0
Ca-T	mg/L	11.7	10.7	9.27	9.31	10.4	5	11.7	10.28			11.3	0	0.0
Cr-T	mg/L	0.0020	<0.0010	<0.0010	<0.0010	<0.0010	5	0.0020	0.00080			0.0014	0	0.0
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	0	0.0
Cu-T	mg/L	0.00071	0.00051	<0.00050	<0.00050	<0.00050	5	0.00071	0.000394			0.00063	0	0.0
Hard-T	mg/L	35.2	32.6	27.9	28.3	31.5	5	35.2	31.1			34.2	0	0.0
Fe-T	mg/L	0.105	0.098	0.075	0.083	0.097	5	0.105	0.092		1	0.102	0	0.0
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.0176	0.0001	0	0.0
Mg-T	mg/L	1.45	1.41	1.16	1.23	1.32	5	1.45	1.31			1.43	0	0.0
Mn-T	mg/L	0.0070	0.0075	0.0055	0.0051	0.0070	5	0.0075	0.0064	0.737	0.8706	0.0073	0	0.0
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	0	0.0
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005	0	0.0
K-T	mg/L	0.238	0.220	0.172	0.193	0.181	5	0.238	0.201			0.231	0	0.0
S-T	mg/L	5.9	5.9	5.2	4.3	4.8	5	5.9	5.2			5.9	0	0.0
Se-T	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050	0.002		5.00E-05	0	0.0
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05	0	0.0
Na-T	mg/L	10.7	11.3	8.81	8.12	8.15	5	11.3	9.42			11.06	0	0.0
Sr-T	mg/L	0.0602	0.0548	0.0456	0.0440	0.0491	5	0.0602	0.0507			0.058	0	0.0
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0	0.0
Al-D	mg/L	0.0115	0.0107	0.0099	0.0099	0.0103	5	0.0115	0.0105			0.0112	0	0.0
As-D	mg/L	0.00085	0.00081	0.00076	0.00073	0.00077	5	0.00085	0.00078	0.005		0.00083	0	0.0
Ba-D	mg/L	0.0037	0.0031	0.0028	0.0031	0.0033	5	0.0037	0.0032			0.0035	0	0.0
B-D	mg/L	0.055	0.061	0.050	<0.050	<0.050	5	0.061	0.0432			0.0586	0	0.0
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	5.00E-06	0	0.0
Ca-D	mg/L	12.0	11.6	11.0	11.9	11.6	5	12.0	11.6			12	0	0.0
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0	0.0
Cu-D	mg/L	0.00049	0.00048	0.00046	0.00050	0.00046	5	0.00050	0.00048	*	*	0.0005	5	0.0
Hard-D	mg/L	36.0	35.2	33.0	35.8	34.7	5	36.0	34.9			35.9	0	0.0
DOC	mg/L	2.1	2.2	3.6	2.2	2.1	5	3.6	2.4			3	0	0.0
Fe-D	mg/L	0.0623	0.0683	0.0599	0.0733	0.0694	5	0.0733	0.0666		0.35	0.0717	0	0.0
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0	0.0
Mg-D	mg/L	1.48	1.53	1.37	1.45	1.40	5	1.53	1.45			1.51	0	0.0
Mn-D	mg/L	0.0059	0.0062	0.0054	0.0052	0.0063	5	0.0063	0.0058			0.0063	0	0.0
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0
K-D	mg/L	0.235	0.224	0.206	0.229	0.196	5	0.235	0.218			0.233	0	0.0
S-D	mg/L	7.1	6.6	5.7	4.9	4.9	5	7.1	5.8			6.9	0	0.0
Se-D	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	5	<0.00010	0.000050			5.00E-05	0	0.0
Na-D	mg/L	11.1	12.0	10.3	9.94	8.80	5	12.0	10.43			11.64	0	0.0
Sr-D	mg/L	0.0615	0.0588	0.0552	0.0527	0.0499	5	0.0615	0.0556			0.0604	0	0.0
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0	0.0

Notes: *Calculated guideline. See Exceedance Table.
Bold indicates factor applied to less-than results when calculating statistics: 0.5

Notes: * Calculated guideline. See Exceedance Table.

Bold indicates factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 39 Rivers 9 Page(s)

EMS ID	E297231											Water Quality Guideline:		
StnName	Iron River Upstream Site 6											Count of results exceeding standard	Percent of results exceeding standard	
StnCode	IR6													
Date	Unit	8-Jul-24	15-Jul-24	22-Jul-24	29-Jul-24	6-Aug-24	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile		
pH-F	pH Units	7.86	7.84	8.16	8.05	7.94	5	8.16	7.97			8.12	0	0.0
Cond-F	uS/cm	94.4	120.4	143	132.4	118.5	5	143	121.7			138.8	0	0.0
SO4-D	mg/L	4.4	5.8	8.0	8.2	6.4	5	8.2	6.6	128		8.1	0	0.0
TSS	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	5	<1.0	0.50			0.5	0	0.0
Alk-T	mg/L	37	46	56	55	50	5	56	48.8			55.6	0	0.0
Al-T	mg/L	0.0227	0.0170	0.0174	0.0168	0.0178	5	0.0227	0.0183	*		0.0207	0	0.0
As-T	mg/L	0.00136	0.00241	0.00345	0.00231	0.00250	5	0.00345	0.00241	0.005		0.00307	0	0.0
Ba-T	mg/L	0.0051	0.0074	0.0085	0.0073	0.0074	5	0.0085	0.0071	1		0.0081	0	0.0
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025	0	0.0
Bicarb	mg/L	46	56	68	67	61	5	68	59.6			67.6	0	0.0
Cd-T	mg/L	<0.000010	0.000013	<0.000010	0.000011	0.000010	5	0.000013	0.0000088			1.22E-05	0	0.0
Ca-T	mg/L	11.2	16.1	18.0	17.3	17.0	5	18.0	15.9			17.7	0	0.0
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	0	0.0
Cu-T	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	0.00057	5	0.00057	0.000314			0.000442	0	0.0
Hard-T	mg/L	31.6	45.5	50.7	48.6	47.5	5	50.7	44.8			49.9	0	0.0
Fe-T	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	5	<0.010	0.0050		1	0.005	0	0.0
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.0176	0.0001	0	0.0
Mg-T	mg/L	0.905	1.30	1.37	1.28	1.23	5	1.37	1.217			1.342	0	0.0
Mn-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.737	0.8706	0.0005	0	0.0
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	0	0.0
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005	0	0.0
K-T	mg/L	0.155	0.193	0.197	0.204	0.186	5	0.204	0.187			0.201	0	0.0
S-T	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50			1.5	0	0.0
Se-T	mg/L	0.00020	0.00026	0.00022	0.00027	0.00027	5	0.00027	0.00024	0.002		0.00027	0	0.0
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05	0	0.0
Na-T	mg/L	1.23	1.71	1.94	1.86	1.75	5	1.94	1.70			1.91	0	0.0
Sr-T	mg/L	0.0396	0.0582	0.0639	0.0590	0.0594	5	0.0639	0.0560			0.0621	0	0.0
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0	0.0
Al-D	mg/L	0.0239	0.0185	0.0183	0.0181	0.0175	5	0.0239	0.0193			0.0217	0	0.0
As-D	mg/L	0.00157	0.00271	0.00416	0.00271	0.00262	5	0.00416	0.00275	0.005		0.00358	0	0.0
Ba-D	mg/L	0.0062	0.0079	0.0100	0.0090	0.0081	5	0.0100	0.0082			0.0096	0	0.0
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250			0.025	0	0.0
Cd-D	mg/L	0.000013	<0.000010	<0.000010	<0.000010	0.000010	5	0.000013	0.0000076	0.000087	0.00017	1.18E-05	0	0.0
Ca-D	mg/L	13.9	17.9	20.6	21.6	18.6	5	21.6	18.5			21.2	0	0.0
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0	0.0
Cu-D	mg/L	0.00057	0.00046	0.00046	0.00050	0.00055	5	0.00057	0.00051	*	*	0.00056	5	0.0
Hard-D	mg/L	39.1	50.7	58.1	60.5	52.2	5	60.5	52.1			59.5	0	0.0
DOC	mg/L	2.2	2.2	4.0	2.1	2.2	5	4.0	2.5			3.3	0	0.0
Fe-D	mg/L	0.0058	<0.0050	<0.0050	0.0061	<0.0050	5	0.0061	0.00388		0.35	0.00598	0	0.0
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0	0.0
Mg-D	mg/L	1.09	1.46	1.60	1.63	1.39	5	1.63	1.43			1.62	0	0.0
Mn-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0
K-D	mg/L	0.181	0.203	0.234	0.248	0.204	5	0.248	0.214			0.242	0	0.0
S-D	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50			1.5	0	0.0
Se-D	mg/L	0.00023	0.00026	0.00028	0.00033	0.00028	5	0.00033	0.00028			0.00031	0	0.0
Na-D	mg/L	1.49	1.94	2.22	2.33	1.92	5	2.33	1.98			2.29	0	0.0
Sr-D	mg/L	0.0470	0.0616	0.0738	0.0711	0.0600	5	0.0738	0.0627			0.0727	0	0.0
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0	0.0

Notes: *Calculated guideline. See Exceedance Table.
Bold indicates factor applied to less-than results when calculating statistics: 0.5

Notes: * Calculated guideline. See Exceedance Table.

Bold indicates factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 39 Rivers 9 Page(s)

EMS ID	E297232											Water Quality Guideline:			
StnName	Iron River Downstream Site 8														
StnCode	IR8														
													Count of results exceeding standard	Percent of results exceeding standard	
Date	Unit	8-Jul-24	15-Jul-24	22-Jul-24	29-Jul-24	6-Aug-24	Count	Max	5 in 30 Av	Chronic	Acute	90th Percentile			
pH-F	pH Units	7.99	7.85	8.16	8.04	7.96	5	8.16	8.00			8.11	0	0.0	
Cond-F	uS/cm	90.9	122.8	146.7	133.4	121.7	5	146.7	123.1			141.4	0	0.0	
SO4-D	mg/L	4.2	5.7	7.7	7.9	6.4	5	7.9	6.4	128		7.8	0	0.0	
TSS	mg/L	<1.0	2.0	<1.0	1.2	<1.0	5	2.0	0.94			1.68	0	0.0	
Alk-T	mg/L	38	49	57	56	51	5	57	50.2			56.6	0	0.0	
Al-T	mg/L	0.0211	0.0180	0.0170	0.0182	0.0175	5	0.0211	0.0184	*		0.0199	0	0.0	
As-T	mg/L	0.00331	0.00617	0.00838	0.00683	0.00630	5	0.00838	0.00620	0.005		0.00776	4	80.0	
Ba-T	mg/L	0.0065	0.0081	0.0087	0.0094	0.0085	5	0.0094	0.0082	1		0.0091	0	0.0	
B-T	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250	1.2		0.025	0	0.0	
Bicarb	mg/L	46	60	70	68	63	5	70	61.4			69.2	0	0.0	
Cd-T	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050			5.00E-06	0	0.0	
Ca-T	mg/L	11.6	15.8	17.1	18.7	17.3	5	18.7	16.1			18.1	0	0.0	
Cr-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0	
Co-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.11	0.0001	0	0.0	
Cu-T	mg/L	0.00053	0.00051	<0.00050	0.00076	0.00061	5	0.00076	0.000532			0.0007	0	0.0	
Hard-T	mg/L	33.1	45.0	48.7	53.3	48.7	5	53.3	45.8			51.5	0	0.0	
Fe-T	mg/L	<0.010	<0.010	<0.010	0.012	<0.010	5	0.012	0.0064		1	0.0092	0	0.0	
Pb-T	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100	0.004	0.0176	0.0001	0	0.0	
Mg-T	mg/L	1.01	1.33	1.43	1.58	1.34	5	1.58	1.34			1.52	0	0.0	
Mn-T	mg/L	<0.0010	<0.0010	<0.0010	0.0013	<0.0010	5	0.0013	0.00066	0.737	0.8706	0.00098	0	0.0	
Mo-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	7.6	46	0.0005	0	0.0	
Ni-T	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050	0.025		0.0005	0	0.0	
K-T	mg/L	0.167	0.195	0.199	0.239	0.194	5	0.239	0.199			0.223	0	0.0	
S-T	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50			1.5	0	0.0	
Se-T	mg/L	0.00017	0.00020	0.00017	0.00024	0.00026	5	0.00026	0.00021	0.002		0.00025	0	0.0	
Ag-T	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	5	<0.000020	0.0000100	0.00005	0.0001	1.00E-05	0	0.0	
Na-T	mg/L	1.53	2.25	2.57	2.47	2.20	5	2.57	2.20			2.53	0	0.0	
Sr-T	mg/L	0.0414	0.0561	0.0617	0.0615	0.0614	5	0.0617	0.0564			0.0616	0	0.0	
Zn-T	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0	0.0	
Al-D	mg/L	0.0222	0.0174	0.0179	0.0179	0.0180	5	0.0222	0.0187			0.0205	0	0.0	
As-D	mg/L	0.00370	0.00684	0.0103	0.00708	0.00667	5	0.0103	0.00692	0.005		0.00901	4	80.0	
Ba-D	mg/L	0.0069	0.0089	0.0108	0.0105	0.0092	5	0.0108	0.0093			0.0107	0	0.0	
B-D	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	5	<0.050	0.0250			0.025	0	0.0	
Cd-D	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	5	<0.000010	0.0000050	0.000087	0.00017	5.00E-06	0	0.0	
Ca-D	mg/L	14.0	17.7	20.7	21.7	19.0	5	21.7	18.6			21.3	0	0.0	
Cr-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0	
Co-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0	0.0	
Cu-D	mg/L	0.00061	0.00051	0.00056	0.00064	0.00061	5	0.00064	0.00059	*	*	0.00063	5	0.0	
Hard-D	mg/L	39.9	50.5	58.8	61.4	53.6	5	61.4	52.8			60.4	0	0.0	
DOC	mg/L	2.1	2.1	3.8	2.0	2.4	5	3.8	2.5			3.2	0	0.0	
Fe-D	mg/L	0.0077	0.0070	0.0072	0.0083	0.0073	5	0.0083	0.0075		0.35	0.0081	0	0.0	
Pb-D	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	5	<0.00020	0.000100			0.0001	0	0.0	
Mg-D	mg/L	1.18	1.53	1.74	1.78	1.50	5	1.78	1.55			1.76	0	0.0	
Mn-D	mg/L	<0.0010	<0.0010	<0.0010	0.0011	<0.0010	5	0.0011	0.00062			0.00086	0	0.0	
Mo-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0	
Ni-D	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	5	<0.0010	0.00050			0.0005	0	0.0	
K-D	mg/L	0.185	0.209	0.247	0.261	0.216	5	0.261	0.224			0.255	0	0.0	
S-D	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	5	<3.0	1.50			1.5	0	0.0	
Se-D	mg/L	0.00021	0.00022	0.00022	0.00027	0.00026	5	0.00027	0.00024			0.00027	0	0.0	
Na-D	mg/L	1.75	2.48	3.07	2.87	2.46	5	3.07	2.53			2.99	0	0.0	
Sr-D	mg/L	0.0478	0.0630	0.0739	0.0721	0.0629	5	0.0739	0.0639			0.0732	0	0.0	
Zn-D	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	5	<0.0050	0.00250	0.0075	0.033	0.0025	0	0.0	

Notes: *Calculated guideline. See Exceedance Table.

Bold indicates factor applied to less-than results when calculating statistics: 0.5

Notes: * Calculated guideline. See Exceedance Table.

Bold indicates factor applied to less-than results when calculating statistics: 0.5

Appendix 1 - Tables

Table 40 Relative Percent Difference 19 Page(s)

Stn.Code 1	Collect Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio
2S	9-Sep-24	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
2S	9-Sep-24	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
2S	9-Sep-24	Al-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
2S	9-Sep-24	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
2S	9-Sep-24	Alk-T	mg/L	1	1	160	160	0.0	1.00
2S	9-Sep-24	Al-T	mg/L	0.003	0.003	0.0044	0.0046	4.4	0.96
2S	9-Sep-24	As-D	mg/L	0.0001	0.0001	0.00457	0.00440	3.8	1.04
2S	9-Sep-24	As-T	mg/L	0.0001	0.0001	0.00558	0.00569	2.0	0.98
2S	9-Sep-24	Ba-D	mg/L	0.001	0.001	0.0175	0.0169	3.5	1.04
2S	9-Sep-24	Ba-T	mg/L	0.001	0.001	0.0168	0.0177	5.2	0.95
2S	9-Sep-24	B-D	mg/L	0.05	0.05	0.565	0.563	0.4	1.00
2S	9-Sep-24	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
2S	9-Sep-24	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
2S	9-Sep-24	B-T	mg/L	0.05	0.05	0.496	0.495	0.2	1.00
2S	9-Sep-24	Ca-D	mg/L	0.05	0.05	180	184	2.2	0.98
2S	9-Sep-24	Ca-T	mg/L	0.05	0.05	168	169	0.6	0.99
2S	9-Sep-24	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
2S	9-Sep-24	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
2S	9-Sep-24	Co-D	mg/L	0.0002	0.0002	0.00130	0.00128	1.6	1.02
2S	9-Sep-24	Co-T	mg/L	0.0002	0.0002	0.00121	0.00121	0.0	1.00
2S	9-Sep-24	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
2S	9-Sep-24	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
2S	9-Sep-24	Cu-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
2S	9-Sep-24	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
2S	9-Sep-24	Fe-D	mg/L	0.005	0.005	0.0594	0.0695	15.7	0.85
2S	9-Sep-24	Fe-T	mg/L	0.01	0.01	0.352	0.446	23.6	0.79
2S	9-Sep-24	Hard-D	mg/L	0.5	0.5	529	538	1.7	0.98
2S	9-Sep-24	Hard-T	mg/L	0.5	0.5	505	509	0.8	0.99
2S	9-Sep-24	K-D	mg/L	0.05	0.05	1.96	1.96	0.0	1.00
2S	9-Sep-24	K-T	mg/L	0.05	0.05	2.02	1.99	1.5	1.02
2S	9-Sep-24	Li-D	mg/L	0.002	0.002	0.0139	0.0136	2.2	1.02
2S	9-Sep-24	Li-T	mg/L	0.002	0.002	0.0139	0.0140	0.7	0.99
2S	9-Sep-24	Mg-D	mg/L	0.05	0.05	19.6	19.4	1.0	1.01
2S	9-Sep-24	Mg-T	mg/L	0.05	0.05	20.8	21.0	1.0	0.99
2S	9-Sep-24	Mn-D	mg/L	0.001	0.001	0.217	0.215	0.9	1.01
2S	9-Sep-24	Mn-T	mg/L	0.001	0.001	0.214	0.218	1.9	0.98
2S	9-Sep-24	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
2S	9-Sep-24	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
2S	9-Sep-24	Na-D	mg/L	0.05	0.05	76.2	76.3	0.1	1.00
2S	9-Sep-24	Na-T	mg/L	0.05	0.05	72.0	72.1	0.1	1.00
2S	9-Sep-24	Ni-D	mg/L	0.001	0.001	0.0011	0.0012	8.7	0.92
2S	9-Sep-24	Ni-T	mg/L	0.001	0.001	0.0011	0.0012	8.7	0.92
2S	9-Sep-24	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
2S	9-Sep-24	Pb-T	mg/L	0.0002	0.0002	<0.00020	0.00066	107.0	0.30
2S	9-Sep-24	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
2S	9-Sep-24	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
2S	9-Sep-24	S-D	mg/L	3	3	184	177	3.9	1.04
2S	9-Sep-24	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
2S	9-Sep-24	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
2S	9-Sep-24	Si-D	mg/L	0.1	0.1	3.26	3.26	0.0	1.00
2S	9-Sep-24	Si-T	mg/L	0.1	0.1	3.22	3.24	0.6	0.99
2S	9-Sep-24	Sn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
2S	9-Sep-24	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
2S	9-Sep-24	SO4-D	mg/L	5	5	530	540	1.9	0.98
2S	9-Sep-24	Sr-D	mg/L	0.001	0.001	1.44	1.42	1.4	1.01

Appendix 1 - Tables

Table 40 Relative Percent Difference 19 Page(s)

2S	9-Sep-24	Sr-T	mg/L	0.001	0.001	1.44	1.46	1.4	0.99
2S	9-Sep-24	S-T	mg/L	3	3	179	181	1.1	0.99
2S	9-Sep-24	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
2S	9-Sep-24	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
2S	9-Sep-24	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
2S	9-Sep-24	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
2S	9-Sep-24	U-D	mg/L	0.0001	0.0001	0.00011	0.00011	0.0	1.00
2S	9-Sep-24	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
2S	9-Sep-24	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
2S	9-Sep-24	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
2S	9-Sep-24	Zn-D	mg/L	0.005	0.005	0.0063	0.0071	11.9	0.89
2S	9-Sep-24	Zn-T	mg/L	0.005	0.005	0.0084	0.0082	2.4	1.02
2S	9-Sep-24	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
2S	9-Sep-24	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
2SI	16-Sep-24	H2S	mg/L	0.002	0.002	0.016	0.021	27.0	0.76
2SI	16-Sep-24	S2-T	mg/L	0.0018	0.0018	0.015	0.020	28.6	0.75
2SI	16-Sep-24	SO4-D	mg/L	5	5	480	490	2.1	0.98
BCR	26-Aug-24	H2S	mg/L	0.19	0.19	23	22	4.4	1.05
BCR	26-Aug-24	S2-T	mg/L	0.18	0.18	22	21	4.7	1.05
BCR	26-Aug-24	SO4-D	mg/L	5	5	540	540	0.0	1.00
INF	12-Aug-24	H2S	mg/L	0.002	0.002	<0.0020	0.0068	109.1	0.29
INF	12-Aug-24	S2-T	mg/L	0.0018	0.0018	<0.0018	0.0063	111.1	0.29
INF	12-Aug-24	SO4-D	mg/L	5	5	590	590	0.0	1.00
INF	3-Sep-24	H2S	mg/L	0.002	0.002	<0.0020	0.0046	78.8	0.43
INF	3-Sep-24	S2-T	mg/L	0.0018	0.0018	<0.0018	0.0043	82.0	0.42
INF	3-Sep-24	SO4-D	mg/L	10	10	610	620	1.6	0.98
LLE	23-Sep-24	SO4-D	mg/L	5	5	290	290	0.0	1.00
LLM1	9-Jul-24	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
LLM1	9-Jul-24	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
LLM1	9-Jul-24	Al-D	mg/L	0.003	0.003	0.0156	0.0151	3.3	1.03
LLM1	9-Jul-24	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
LLM1	9-Jul-24	Alk-T	mg/L	1	1	27	26	3.8	1.04
LLM1	9-Jul-24	Al-T	mg/L	0.003	0.003	0.0165	0.0161	2.5	1.02
LLM1	9-Jul-24	As-D	mg/L	0.0001	0.0001	0.00054	0.00054	0.0	1.00
LLM1	9-Jul-24	As-T	mg/L	0.0001	0.0001	0.00076	0.00054	33.8	1.41
LLM1	9-Jul-24	Ba-D	mg/L	0.001	0.001	0.0052	0.0052	0.0	1.00
LLM1	9-Jul-24	Ba-T	mg/L	0.001	0.001	0.0050	0.0049	2.0	1.02
LLM1	9-Jul-24	B-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
LLM1	9-Jul-24	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM1	9-Jul-24	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM1	9-Jul-24	B-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
LLM1	9-Jul-24	Ca-D	mg/L	0.05	0.05	18.6	17.8	4.4	1.04
LLM1	9-Jul-24	Ca-T	mg/L	0.05	0.05	17.8	16.8	5.8	1.06
LLM1	9-Jul-24	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
LLM1	9-Jul-24	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
LLM1	9-Jul-24	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
LLM1	9-Jul-24	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
LLM1	9-Jul-24	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM1	9-Jul-24	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM1	9-Jul-24	Cu-D	mg/L	0.0002	0.0002	0.00039	0.00034	13.7	1.15
LLM1	9-Jul-24	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
LLM1	9-Jul-24	DOC	mg/L	0.5	0.5	3.5	3.6	2.8	0.97
LLM1	9-Jul-24	Fe-D	mg/L	0.005	0.005	0.0584	0.0562	3.8	1.04
LLM1	9-Jul-24	Fe-T	mg/L	0.01	0.01	0.064	0.060	6.5	1.07
LLM1	9-Jul-24	Hard-D	mg/L	0.5	0.5	57.6	55.2	4.3	1.04
LLM1	9-Jul-24	Hard-T	mg/L	0.5	0.5	54.8	52.1	5.1	1.05
LLM1	9-Jul-24	K-D	mg/L	0.05	0.05	0.207	0.198	4.4	1.05

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LLM1	9-Jul-24	K-T	mg/L	0.05	0.05	0.197	0.192	2.6	1.03
LLM1	9-Jul-24	Li-D	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
LLM1	9-Jul-24	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
LLM1	9-Jul-24	Mg-D	mg/L	0.05	0.05	2.69	2.62	2.6	1.03
LLM1	9-Jul-24	Mg-T	mg/L	0.05	0.05	2.52	2.47	2.0	1.02
LLM1	9-Jul-24	Mn-D	mg/L	0.001	0.001	0.0085	0.0082	3.6	1.04
LLM1	9-Jul-24	Mn-T	mg/L	0.001	0.001	0.0092	0.0091	1.1	1.01
LLM1	9-Jul-24	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM1	9-Jul-24	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM1	9-Jul-24	Na-D	mg/L	0.05	0.05	5.00	4.93	1.4	1.01
LLM1	9-Jul-24	Na-T	mg/L	0.05	0.05	4.53	4.48	1.1	1.01
LLM1	9-Jul-24	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM1	9-Jul-24	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM1	9-Jul-24	N-NO23	mg/L	0.02	0.02	<0.020	<0.020	0.0	1.00
LLM1	9-Jul-24	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
LLM1	9-Jul-24	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
LLM1	9-Jul-24	P-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
LLM1	9-Jul-24	P-T	mg/L	0.003	0.003	0.0043	0.0041	4.8	1.05
LLM1	9-Jul-24	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
LLM1	9-Jul-24	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
LLM1	9-Jul-24	S-D	mg/L	3	3	14.7	14.2	3.5	1.04
LLM1	9-Jul-24	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM1	9-Jul-24	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM1	9-Jul-24	Si-D	mg/L	0.1	0.1	2.90	2.80	3.5	1.04
LLM1	9-Jul-24	Si-T	mg/L	0.1	0.1	2.80	2.70	3.6	1.04
LLM1	9-Jul-24	Sn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM1	9-Jul-24	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM1	9-Jul-24	SO4-D	mg/L	1	1	43	42	2.4	1.02
LLM1	9-Jul-24	Sr-D	mg/L	0.001	0.001	0.104	0.106	1.9	0.98
LLM1	9-Jul-24	Sr-T	mg/L	0.001	0.001	0.0991	0.0990	0.1	1.00
LLM1	9-Jul-24	S-T	mg/L	3	3	12.7	12.6	0.8	1.01
LLM1	9-Jul-24	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM1	9-Jul-24	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM1	9-Jul-24	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
LLM1	9-Jul-24	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
LLM1	9-Jul-24	Turb	NTU	0.1	0.1	0.22	0.28	24.0	0.79
LLM1	9-Jul-24	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM1	9-Jul-24	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM1	9-Jul-24	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM1	9-Jul-24	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM1	9-Jul-24	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM1	9-Jul-24	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM1	9-Jul-24	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM1	9-Jul-24	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM1	7-Aug-24	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
LLM1	7-Aug-24	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
LLM1	7-Aug-24	Al-D	mg/L	0.003	0.003	0.0104	0.0097	7.0	1.07
LLM1	7-Aug-24	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
LLM1	7-Aug-24	Alk-T	mg/L	1	1	30	30	0.0	1.00
LLM1	7-Aug-24	Al-T	mg/L	0.003	0.003	0.0109	0.0111	1.8	0.98
LLM1	7-Aug-24	As-D	mg/L	0.0001	0.0001	0.00067	0.00064	4.6	1.05
LLM1	7-Aug-24	As-T	mg/L	0.0001	0.0001	0.00062	0.00064	3.2	0.97
LLM1	7-Aug-24	Ba-D	mg/L	0.001	0.001	0.0062	0.0062	0.0	1.00
LLM1	7-Aug-24	Ba-T	mg/L	0.001	0.001	0.0059	0.0060	1.7	0.98
LLM1	7-Aug-24	B-D	mg/L	0.05	0.05	0.059	0.061	3.3	0.97
LLM1	7-Aug-24	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM1	7-Aug-24	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00

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Table 40 Relative Percent Difference 19 Page(s)

LLM1	7-Aug-24	B-T	mg/L	0.05	0.05	0.054	0.052	3.8	1.04
LLM1	7-Aug-24	Ca-D	mg/L	0.05	0.05	21.9	22.0	0.5	1.00
LLM1	7-Aug-24	Ca-T	mg/L	0.05	0.05	20.7	20.8	0.5	1.00
LLM1	7-Aug-24	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
LLM1	7-Aug-24	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
LLM1	7-Aug-24	Cl-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
LLM1	7-Aug-24	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
LLM1	7-Aug-24	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
LLM1	7-Aug-24	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM1	7-Aug-24	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM1	7-Aug-24	Cu-D	mg/L	0.0002	0.0002	0.00038	0.00038	0.0	1.00
LLM1	7-Aug-24	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
LLM1	7-Aug-24	DOC	mg/L	0.5	0.5	4.1	4.1	0.0	1.00
LLM1	7-Aug-24	Fe-D	mg/L	0.005	0.005	0.0358	0.0376	4.9	0.95
LLM1	7-Aug-24	Fe-T	mg/L	0.01	0.01	0.045	0.045	0.0	1.00
LLM1	7-Aug-24	Hard-D	mg/L	0.5	0.5	67.3	67.6	0.4	1.00
LLM1	7-Aug-24	Hard-T	mg/L	0.5	0.5	63.7	64.1	0.6	0.99
LLM1	7-Aug-24	K-D	mg/L	0.05	0.05	0.225	0.250	10.5	0.90
LLM1	7-Aug-24	K-T	mg/L	0.05	0.05	0.211	0.215	1.9	0.98
LLM1	7-Aug-24	Li-D	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
LLM1	7-Aug-24	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
LLM1	7-Aug-24	Mg-D	mg/L	0.05	0.05	3.05	3.07	0.7	0.99
LLM1	7-Aug-24	Mg-T	mg/L	0.05	0.05	2.90	2.94	1.4	0.99
LLM1	7-Aug-24	Mn-D	mg/L	0.001	0.001	0.0018	0.0018	0.0	1.00
LLM1	7-Aug-24	Mn-T	mg/L	0.001	0.001	0.0065	0.0065	0.0	1.00
LLM1	7-Aug-24	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM1	7-Aug-24	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM1	7-Aug-24	Na-D	mg/L	0.05	0.05	5.78	5.82	0.7	0.99
LLM1	7-Aug-24	Na-T	mg/L	0.05	0.05	5.47	5.49	0.4	1.00
LLM1	7-Aug-24	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM1	7-Aug-24	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM1	7-Aug-24	N-NO23	mg/L	0.02	0.02	<0.020	<0.020	0.0	1.00
LLM1	7-Aug-24	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
LLM1	7-Aug-24	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
LLM1	7-Aug-24	P-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
LLM1	7-Aug-24	P-T	mg/L	0.003	0.003	0.0059	0.0036	48.4	1.64
LLM1	7-Aug-24	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
LLM1	7-Aug-24	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
LLM1	7-Aug-24	S-D	mg/L	3	3	17.7	17.9	1.1	0.99
LLM1	7-Aug-24	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM1	7-Aug-24	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM1	7-Aug-24	Si-D	mg/L	0.1	0.1	2.58	2.56	0.8	1.01
LLM1	7-Aug-24	Si-T	mg/L	0.1	0.1	2.42	2.44	0.8	0.99
LLM1	7-Aug-24	Sn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM1	7-Aug-24	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM1	7-Aug-24	SO4-D	mg/L	1	1	52	52	0.0	1.00
LLM1	7-Aug-24	Sr-D	mg/L	0.001	0.001	0.145	0.147	1.4	0.99
LLM1	7-Aug-24	Sr-T	mg/L	0.001	0.001	0.141	0.143	1.4	0.99
LLM1	7-Aug-24	S-T	mg/L	3	3	16.9	16.9	0.0	1.00
LLM1	7-Aug-24	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM1	7-Aug-24	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM1	7-Aug-24	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
LLM1	7-Aug-24	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
LLM1	7-Aug-24	Turb	NTU	0.1	0.1	0.32	0.29	9.8	1.10
LLM1	7-Aug-24	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM1	7-Aug-24	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM1	7-Aug-24	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00

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LLM1	7-Aug-24	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM1	7-Aug-24	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM1	7-Aug-24	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM1	7-Aug-24	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM1	7-Aug-24	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM4	16-Jul-24	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
LLM4	16-Jul-24	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
LLM4	16-Jul-24	Al-D	mg/L	0.003	0.003	0.0135	0.0148	9.2	0.91
LLM4	16-Jul-24	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
LLM4	16-Jul-24	Alk-T	mg/L	1	1	30	29	3.4	1.03
LLM4	16-Jul-24	Al-T	mg/L	0.003	0.003	0.0177	0.0153	14.5	1.16
LLM4	16-Jul-24	As-D	mg/L	0.0001	0.0001	0.00052	0.00054	3.8	0.96
LLM4	16-Jul-24	As-T	mg/L	0.0001	0.0001	0.00054	0.00053	1.9	1.02
LLM4	16-Jul-24	Ba-D	mg/L	0.001	0.001	0.0075	0.0068	9.8	1.10
LLM4	16-Jul-24	Ba-T	mg/L	0.001	0.001	0.0073	0.0061	17.9	1.20
LLM4	16-Jul-24	B-D	mg/L	0.05	0.05	0.060	0.056	6.9	1.07
LLM4	16-Jul-24	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM4	16-Jul-24	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM4	16-Jul-24	B-T	mg/L	0.05	0.05	0.053	<0.050	5.8	1.06
LLM4	16-Jul-24	Ca-D	mg/L	0.05	0.05	27.0	24.4	10.1	1.11
LLM4	16-Jul-24	Ca-T	mg/L	0.05	0.05	25.3	23.0	9.5	1.10
LLM4	16-Jul-24	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
LLM4	16-Jul-24	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
LLM4	16-Jul-24	Cl-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
LLM4	16-Jul-24	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
LLM4	16-Jul-24	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
LLM4	16-Jul-24	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM4	16-Jul-24	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM4	16-Jul-24	Cu-D	mg/L	0.0002	0.0002	0.00039	0.00039	0.0	1.00
LLM4	16-Jul-24	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
LLM4	16-Jul-24	DOC	mg/L	0.5	0.5	4.1	3.9	5.0	1.05
LLM4	16-Jul-24	Fe-D	mg/L	0.005	0.005	0.0501	0.0500	0.2	1.00
LLM4	16-Jul-24	Fe-T	mg/L	0.01	0.01	0.058	0.060	3.4	0.97
LLM4	16-Jul-24	Hard-D	mg/L	0.5	0.5	81.9	74.4	9.6	1.10
LLM4	16-Jul-24	Hard-T	mg/L	0.5	0.5	76.7	69.4	10.0	1.11
LLM4	16-Jul-24	K-D	mg/L	0.05	0.05	0.287	0.259	10.3	1.11
LLM4	16-Jul-24	K-T	mg/L	0.05	0.05	0.292	0.238	20.4	1.23
LLM4	16-Jul-24	Li-D	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
LLM4	16-Jul-24	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
LLM4	16-Jul-24	Mg-D	mg/L	0.05	0.05	3.53	3.28	7.3	1.08
LLM4	16-Jul-24	Mg-T	mg/L	0.05	0.05	3.30	2.93	11.9	1.13
LLM4	16-Jul-24	Mn-D	mg/L	0.001	0.001	0.0048	0.0050	4.1	0.96
LLM4	16-Jul-24	Mn-T	mg/L	0.001	0.001	0.0117	0.0102	13.7	1.15
LLM4	16-Jul-24	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM4	16-Jul-24	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM4	16-Jul-24	Na-D	mg/L	0.05	0.05	7.10	6.82	4.0	1.04
LLM4	16-Jul-24	Na-T	mg/L	0.05	0.05	6.67	5.84	13.3	1.14
LLM4	16-Jul-24	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM4	16-Jul-24	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLM4	16-Jul-24	N-NO23	mg/L	0.02	0.02	<0.020	<0.020	0.0	1.00
LLM4	16-Jul-24	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
LLM4	16-Jul-24	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
LLM4	16-Jul-24	P-D	mg/L	0.003	0.003	0.0032	0.0037	14.5	0.86
LLM4	16-Jul-24	P-T	mg/L	0.003	0.003	0.0044	0.0045	2.2	0.98
LLM4	16-Jul-24	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
LLM4	16-Jul-24	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
LLM4	16-Jul-24	S-D	mg/L	3	3	20.7	22.7	9.2	0.91

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Table 40 Relative Percent Difference 19 Page(s)

LLM4	16-Jul-24	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM4	16-Jul-24	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM4	16-Jul-24	Si-D	mg/L	0.1	0.1	2.74	2.71	1.1	1.01
LLM4	16-Jul-24	Si-T	mg/L	0.1	0.1	2.74	2.64	3.7	1.04
LLM4	16-Jul-24	Sn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM4	16-Jul-24	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM4	16-Jul-24	SO4-D	mg/L	1	1	68	62	9.2	1.10
LLM4	16-Jul-24	Sr-D	mg/L	0.001	0.001	0.162	0.151	7.0	1.07
LLM4	16-Jul-24	Sr-T	mg/L	0.001	0.001	0.161	0.141	13.2	1.14
LLM4	16-Jul-24	S-T	mg/L	3	3	21.2	16.3	26.1	1.30
LLM4	16-Jul-24	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM4	16-Jul-24	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM4	16-Jul-24	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
LLM4	16-Jul-24	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
LLM4	16-Jul-24	Turb	NTU	0.1	0.1	0.27	0.32	16.9	0.84
LLM4	16-Jul-24	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM4	16-Jul-24	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM4	16-Jul-24	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM4	16-Jul-24	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM4	16-Jul-24	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM4	16-Jul-24	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLM4	16-Jul-24	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLM4	16-Jul-24	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLO	29-Jul-24	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
LLO	29-Jul-24	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
LLO	29-Jul-24	Al-D	mg/L	0.003	0.003	0.0079	0.0073	7.9	1.08
LLO	29-Jul-24	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
LLO	29-Jul-24	Alk-T	mg/L	1	1	29	30	3.4	0.97
LLO	29-Jul-24	Al-T	mg/L	0.003	0.003	0.0110	0.0118	7.0	0.93
LLO	29-Jul-24	As-D	mg/L	0.0001	0.0001	0.00047	0.00048	2.1	0.98
LLO	29-Jul-24	As-T	mg/L	0.0001	0.0001	0.00050	0.00053	5.8	0.94
LLO	29-Jul-24	Ba-D	mg/L	0.001	0.001	0.0060	0.0059	1.7	1.02
LLO	29-Jul-24	Ba-T	mg/L	0.001	0.001	0.0057	0.0063	10.0	0.90
LLO	29-Jul-24	B-D	mg/L	0.05	0.05	0.050	0.050	0.0	1.00
LLO	29-Jul-24	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLO	29-Jul-24	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLO	29-Jul-24	B-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
LLO	29-Jul-24	Ca-D	mg/L	0.05	0.05	22.8	23.0	0.9	0.99
LLO	29-Jul-24	Ca-T	mg/L	0.05	0.05	19.6	20.4	4.0	0.96
LLO	29-Jul-24	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
LLO	29-Jul-24	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
LLO	29-Jul-24	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
LLO	29-Jul-24	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
LLO	29-Jul-24	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLO	29-Jul-24	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLO	29-Jul-24	Cu-D	mg/L	0.0002	0.0002	0.00037	0.00033	11.4	1.12
LLO	29-Jul-24	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
LLO	29-Jul-24	DOC	mg/L	0.5	0.5	3.9	3.6	8.0	1.08
LLO	29-Jul-24	Fe-D	mg/L	0.005	0.005	0.0368	0.0359	2.5	1.03
LLO	29-Jul-24	Fe-T	mg/L	0.01	0.01	0.047	0.048	2.1	0.98
LLO	29-Jul-24	Hard-D	mg/L	0.5	0.5	69.9	70.6	1.0	0.99
LLO	29-Jul-24	Hard-T	mg/L	0.5	0.5	60.6	63.0	3.9	0.96
LLO	29-Jul-24	K-D	mg/L	0.05	0.05	0.244	0.243	0.4	1.00
LLO	29-Jul-24	K-T	mg/L	0.05	0.05	0.224	0.245	9.0	0.91
LLO	29-Jul-24	Li-D	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
LLO	29-Jul-24	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
LLO	29-Jul-24	Mg-D	mg/L	0.05	0.05	3.13	3.18	1.6	0.98

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Table 40 Relative Percent Difference 19 Page(s)

LLO	29-Jul-24	Mg-T	mg/L	0.05	0.05	2.84	2.92	2.8	0.97
LLO	29-Jul-24	Mn-D	mg/L	0.001	0.001	0.0021	0.0021	0.0	1.00
LLO	29-Jul-24	Mn-T	mg/L	0.001	0.001	0.0065	0.0071	8.8	0.92
LLO	29-Jul-24	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLO	29-Jul-24	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLO	29-Jul-24	Na-D	mg/L	0.05	0.05	6.10	6.05	0.8	1.01
LLO	29-Jul-24	Na-T	mg/L	0.05	0.05	5.24	5.73	8.9	0.91
LLO	29-Jul-24	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLO	29-Jul-24	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
LLO	29-Jul-24	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
LLO	29-Jul-24	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
LLO	29-Jul-24	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
LLO	29-Jul-24	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
LLO	29-Jul-24	S-D	mg/L	3	3	17.1	17.3	1.2	0.99
LLO	29-Jul-24	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLO	29-Jul-24	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLO	29-Jul-24	Si-D	mg/L	0.1	0.1	2.69	2.70	0.4	1.00
LLO	29-Jul-24	Si-T	mg/L	0.1	0.1	2.29	2.41	5.1	0.95
LLO	29-Jul-24	Sn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLO	29-Jul-24	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLO	29-Jul-24	SO4-D	mg/L	1	1	49	49	0.0	1.00
LLO	29-Jul-24	Sr-D	mg/L	0.001	0.001	0.127	0.126	0.8	1.01
LLO	29-Jul-24	Sr-T	mg/L	0.001	0.001	0.127	0.136	6.8	0.93
LLO	29-Jul-24	S-T	mg/L	3	3	16.0	17.4	8.4	0.92
LLO	29-Jul-24	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLO	29-Jul-24	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLO	29-Jul-24	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
LLO	29-Jul-24	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
LLO	29-Jul-24	TSS	mg/L	1	1	1.2	<1.0	18.2	1.20
LLO	29-Jul-24	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLO	29-Jul-24	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLO	29-Jul-24	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLO	29-Jul-24	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLO	29-Jul-24	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLO	29-Jul-24	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
LLO	29-Jul-24	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
LLO	29-Jul-24	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL1	23-Jul-24	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
MQL1	23-Jul-24	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
MQL1	23-Jul-24	Al-D	mg/L	0.003	0.003	0.0128	0.0130	1.6	0.98
MQL1	23-Jul-24	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
MQL1	23-Jul-24	Alk-T	mg/L	1	1	35	35	0.0	1.00
MQL1	23-Jul-24	Al-T	mg/L	0.003	0.003	0.0140	0.0132	5.9	1.06
MQL1	23-Jul-24	As-D	mg/L	0.0001	0.0001	0.00017	0.00015	12.5	1.13
MQL1	23-Jul-24	As-T	mg/L	0.0001	0.0001	0.00015	0.00015	0.0	1.00
MQL1	23-Jul-24	Ba-D	mg/L	0.001	0.001	0.0013	0.0013	0.0	1.00
MQL1	23-Jul-24	Ba-T	mg/L	0.001	0.001	0.0011	0.0011	0.0	1.00
MQL1	23-Jul-24	B-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
MQL1	23-Jul-24	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL1	23-Jul-24	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL1	23-Jul-24	B-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
MQL1	23-Jul-24	Ca-D	mg/L	0.05	0.05	10.0	9.96	0.4	1.00
MQL1	23-Jul-24	Ca-T	mg/L	0.05	0.05	8.21	8.59	4.5	0.96
MQL1	23-Jul-24	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
MQL1	23-Jul-24	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
MQL1	23-Jul-24	Cl-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
MQL1	23-Jul-24	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00

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Table 40 Relative Percent Difference 19 Page(s)

MQL1	23-Jul-24	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
MQL1	23-Jul-24	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL1	23-Jul-24	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL1	23-Jul-24	Cu-D	mg/L	0.0002	0.0002	0.00053	0.00051	3.8	1.04
MQL1	23-Jul-24	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
MQL1	23-Jul-24	DOC	mg/L	0.5	0.5	3.6	3.8	5.4	0.95
MQL1	23-Jul-24	Fe-D	mg/L	0.005	0.005	0.0243	0.0246	1.2	0.99
MQL1	23-Jul-24	Fe-T	mg/L	0.01	0.01	0.028	0.031	10.2	0.90
MQL1	23-Jul-24	Hard-D	mg/L	0.5	0.5	30.2	29.9	1.0	1.01
MQL1	23-Jul-24	Hard-T	mg/L	0.5	0.5	24.6	25.8	4.8	0.95
MQL1	23-Jul-24	K-D	mg/L	0.05	0.05	0.160	0.160	0.0	1.00
MQL1	23-Jul-24	K-T	mg/L	0.05	0.05	0.129	0.132	2.3	0.98
MQL1	23-Jul-24	Li-D	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
MQL1	23-Jul-24	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
MQL1	23-Jul-24	Mg-D	mg/L	0.05	0.05	1.25	1.23	1.6	1.02
MQL1	23-Jul-24	Mg-T	mg/L	0.05	0.05	0.990	1.05	5.9	0.94
MQL1	23-Jul-24	Mn-D	mg/L	0.001	0.001	0.0010	0.0011	9.5	0.91
MQL1	23-Jul-24	Mn-T	mg/L	0.001	0.001	0.0047	0.0050	6.2	0.94
MQL1	23-Jul-24	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL1	23-Jul-24	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL1	23-Jul-24	Na-D	mg/L	0.05	0.05	8.82	8.80	0.2	1.00
MQL1	23-Jul-24	Na-T	mg/L	0.05	0.05	7.28	7.72	5.9	0.94
MQL1	23-Jul-24	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL1	23-Jul-24	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL1	23-Jul-24	N-NO23	mg/L	0.02	0.02	<0.020	<0.020	0.0	1.00
MQL1	23-Jul-24	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
MQL1	23-Jul-24	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
MQL1	23-Jul-24	P-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
MQL1	23-Jul-24	P-T	mg/L	0.003	0.003	0.0040	<0.0030	28.6	1.33
MQL1	23-Jul-24	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
MQL1	23-Jul-24	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
MQL1	23-Jul-24	S-D	mg/L	3	3	5.3	5.3	0.0	1.00
MQL1	23-Jul-24	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL1	23-Jul-24	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL1	23-Jul-24	Si-D	mg/L	0.1	0.1	1.78	1.80	1.1	0.99
MQL1	23-Jul-24	Si-T	mg/L	0.1	0.1	1.42	1.49	4.8	0.95
MQL1	23-Jul-24	Sn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL1	23-Jul-24	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL1	23-Jul-24	SO4-D	mg/L	1	1	16	16	0.0	1.00
MQL1	23-Jul-24	Sr-D	mg/L	0.001	0.001	0.0466	0.0462	0.9	1.01
MQL1	23-Jul-24	Sr-T	mg/L	0.001	0.001	0.0371	0.0393	5.8	0.94
MQL1	23-Jul-24	S-T	mg/L	3	3	4.0	4.5	11.8	0.89
MQL1	23-Jul-24	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL1	23-Jul-24	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL1	23-Jul-24	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
MQL1	23-Jul-24	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
MQL1	23-Jul-24	Turb	NTU	0.1	0.1	0.19	0.21	10.0	0.90
MQL1	23-Jul-24	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL1	23-Jul-24	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL1	23-Jul-24	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL1	23-Jul-24	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL1	23-Jul-24	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL1	23-Jul-24	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL1	23-Jul-24	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL1	23-Jul-24	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL4	30-Jul-24	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
MQL4	30-Jul-24	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00

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Table 40 Relative Percent Difference 19 Page(s)

MQL4	30-Jul-24	Al-D	mg/L	0.003	0.003	0.0128	0.0134	4.6	0.96
MQL4	30-Jul-24	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
MQL4	30-Jul-24	Alk-T	mg/L	1	1	34	35	2.9	0.97
MQL4	30-Jul-24	Al-T	mg/L	0.003	0.003	0.0131	0.0125	4.7	1.05
MQL4	30-Jul-24	As-D	mg/L	0.0001	0.0001	0.00016	0.00017	6.1	0.94
MQL4	30-Jul-24	As-T	mg/L	0.0001	0.0001	0.00017	0.00016	6.1	1.06
MQL4	30-Jul-24	Ba-D	mg/L	0.001	0.001	0.0012	0.0013	8.0	0.92
MQL4	30-Jul-24	Ba-T	mg/L	0.001	0.001	0.0012	0.0011	8.7	1.09
MQL4	30-Jul-24	B-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
MQL4	30-Jul-24	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL4	30-Jul-24	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL4	30-Jul-24	B-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
MQL4	30-Jul-24	Ca-D	mg/L	0.05	0.05	10.3	10.5	1.9	0.98
MQL4	30-Jul-24	Ca-T	mg/L	0.05	0.05	9.27	8.78	5.4	1.06
MQL4	30-Jul-24	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
MQL4	30-Jul-24	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
MQL4	30-Jul-24	Cl-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
MQL4	30-Jul-24	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
MQL4	30-Jul-24	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
MQL4	30-Jul-24	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL4	30-Jul-24	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL4	30-Jul-24	Cu-D	mg/L	0.0002	0.0002	0.00047	0.00050	6.2	0.94
MQL4	30-Jul-24	Cu-T	mg/L	0.0005	0.0005	0.00052	<0.00050	3.9	1.04
MQL4	30-Jul-24	DOC	mg/L	0.5	0.5	2.3	2.3	0.0	1.00
MQL4	30-Jul-24	Fe-D	mg/L	0.005	0.005	0.0236	0.0252	6.6	0.94
MQL4	30-Jul-24	Fe-T	mg/L	0.01	0.01	0.032	0.031	3.2	1.03
MQL4	30-Jul-24	Hard-D	mg/L	0.5	0.5	31.0	31.6	1.9	0.98
MQL4	30-Jul-24	Hard-T	mg/L	0.5	0.5	28.0	26.6	5.1	1.05
MQL4	30-Jul-24	K-D	mg/L	0.05	0.05	0.161	0.161	0.0	1.00
MQL4	30-Jul-24	K-T	mg/L	0.05	0.05	0.149	0.141	5.5	1.06
MQL4	30-Jul-24	Li-D	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
MQL4	30-Jul-24	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
MQL4	30-Jul-24	Mg-D	mg/L	0.05	0.05	1.27	1.30	2.3	0.98
MQL4	30-Jul-24	Mg-T	mg/L	0.05	0.05	1.17	1.12	4.4	1.04
MQL4	30-Jul-24	Mn-D	mg/L	0.001	0.001	0.0011	0.0014	24.0	0.79
MQL4	30-Jul-24	Mn-T	mg/L	0.001	0.001	0.0051	0.0050	2.0	1.02
MQL4	30-Jul-24	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL4	30-Jul-24	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL4	30-Jul-24	Na-D	mg/L	0.05	0.05	8.86	8.77	1.0	1.01
MQL4	30-Jul-24	Na-T	mg/L	0.05	0.05	8.19	7.58	7.7	1.08
MQL4	30-Jul-24	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL4	30-Jul-24	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL4	30-Jul-24	N-NO23	mg/L	0.02	0.02	<0.020	<0.020	0.0	1.00
MQL4	30-Jul-24	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
MQL4	30-Jul-24	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
MQL4	30-Jul-24	P-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
MQL4	30-Jul-24	P-T	mg/L	0.003	0.003	0.0031	<0.0030	3.3	1.03
MQL4	30-Jul-24	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
MQL4	30-Jul-24	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
MQL4	30-Jul-24	S-D	mg/L	3	3	5.0	4.8	4.1	1.04
MQL4	30-Jul-24	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL4	30-Jul-24	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL4	30-Jul-24	Si-D	mg/L	0.1	0.1	1.79	1.82	1.7	0.98
MQL4	30-Jul-24	Si-T	mg/L	0.1	0.1	1.50	1.44	4.1	1.04
MQL4	30-Jul-24	Sn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL4	30-Jul-24	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL4	30-Jul-24	SO4-D	mg/L	1	1	14	15	6.9	0.93

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Table 40 Relative Percent Difference 19 Page(s)

MQL4	30-Jul-24	Sr-D	mg/L	0.001	0.001	0.0438	0.0446	1.8	0.98
MQL4	30-Jul-24	Sr-T	mg/L	0.001	0.001	0.0400	0.0376	6.2	1.06
MQL4	30-Jul-24	S-T	mg/L	3	3	5.0	4.6	8.3	1.09
MQL4	30-Jul-24	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL4	30-Jul-24	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL4	30-Jul-24	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
MQL4	30-Jul-24	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
MQL4	30-Jul-24	Turb	NTU	0.1	0.1	0.22	0.25	12.8	0.88
MQL4	30-Jul-24	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL4	30-Jul-24	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL4	30-Jul-24	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL4	30-Jul-24	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL4	30-Jul-24	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL4	30-Jul-24	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL4	30-Jul-24	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL4	30-Jul-24	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL4	30-Jul-24	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
MQL4	30-Jul-24	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
MQL4	30-Jul-24	Al-D	mg/L	0.003	0.003	0.0128	0.0128	0.0	1.00
MQL4	30-Jul-24	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
MQL4	30-Jul-24	Alk-T	mg/L	1	1	34	34	0.0	1.00
MQL4	30-Jul-24	Al-T	mg/L	0.003	0.003	0.0131	0.0131	0.0	1.00
MQL4	30-Jul-24	As-D	mg/L	0.0001	0.0001	0.00016	0.00016	0.0	1.00
MQL4	30-Jul-24	As-T	mg/L	0.0001	0.0001	0.00017	0.00017	0.0	1.00
MQL4	30-Jul-24	Ba-D	mg/L	0.001	0.001	0.0012	0.0012	0.0	1.00
MQL4	30-Jul-24	Ba-T	mg/L	0.001	0.001	0.0012	0.0012	0.0	1.00
MQL4	30-Jul-24	B-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
MQL4	30-Jul-24	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL4	30-Jul-24	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL4	30-Jul-24	B-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
MQL4	30-Jul-24	Ca-D	mg/L	0.05	0.05	10.3	10.3	0.0	1.00
MQL4	30-Jul-24	Ca-T	mg/L	0.05	0.05	9.27	9.27	0.0	1.00
MQL4	30-Jul-24	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
MQL4	30-Jul-24	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
MQL4	30-Jul-24	Cl-D	mg/L	1	1	<1.0	<1.0	0.0	1.00
MQL4	30-Jul-24	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
MQL4	30-Jul-24	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
MQL4	30-Jul-24	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL4	30-Jul-24	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL4	30-Jul-24	Cu-D	mg/L	0.0002	0.0002	0.00047	0.00047	0.0	1.00
MQL4	30-Jul-24	Cu-T	mg/L	0.0005	0.0005	0.00052	0.00052	0.0	1.00
MQL4	30-Jul-24	DOC	mg/L	0.5	0.5	2.3	2.3	0.0	1.00
MQL4	30-Jul-24	Fe-D	mg/L	0.005	0.005	0.0236	0.0236	0.0	1.00
MQL4	30-Jul-24	Fe-T	mg/L	0.01	0.01	0.032	0.032	0.0	1.00
MQL4	30-Jul-24	Hard-D	mg/L	0.5	0.5	31.0	31.0	0.0	1.00
MQL4	30-Jul-24	Hard-T	mg/L	0.5	0.5	28.0	28.0	0.0	1.00
MQL4	30-Jul-24	K-D	mg/L	0.05	0.05	0.161	0.161	0.0	1.00
MQL4	30-Jul-24	K-T	mg/L	0.05	0.05	0.149	0.149	0.0	1.00
MQL4	30-Jul-24	Li-D	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
MQL4	30-Jul-24	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
MQL4	30-Jul-24	Mg-D	mg/L	0.05	0.05	1.27	1.27	0.0	1.00
MQL4	30-Jul-24	Mg-T	mg/L	0.05	0.05	1.17	1.17	0.0	1.00
MQL4	30-Jul-24	Mn-D	mg/L	0.001	0.001	0.0011	0.0011	0.0	1.00
MQL4	30-Jul-24	Mn-T	mg/L	0.001	0.001	0.0051	0.0051	0.0	1.00
MQL4	30-Jul-24	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL4	30-Jul-24	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL4	30-Jul-24	Na-D	mg/L	0.05	0.05	8.86	8.86	0.0	1.00

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Table 40 Relative Percent Difference 19 Page(s)

MQL4	30-Jul-24	Na-T	mg/L	0.05	0.05	8.19	8.19	0.0	1.00
MQL4	30-Jul-24	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL4	30-Jul-24	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
MQL4	30-Jul-24	N-NO23	mg/L	0.02	0.02	<0.020	<0.020	0.0	1.00
MQL4	30-Jul-24	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
MQL4	30-Jul-24	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
MQL4	30-Jul-24	P-D	mg/L	0.003	0.003	<0.0030	<0.0030	0.0	1.00
MQL4	30-Jul-24	P-T	mg/L	0.003	0.003	0.0031	0.0031	0.0	1.00
MQL4	30-Jul-24	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
MQL4	30-Jul-24	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
MQL4	30-Jul-24	S-D	mg/L	3	3	5.0	5.0	0.0	1.00
MQL4	30-Jul-24	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL4	30-Jul-24	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL4	30-Jul-24	Si-D	mg/L	0.1	0.1	1.79	1.79	0.0	1.00
MQL4	30-Jul-24	Si-T	mg/L	0.1	0.1	1.50	1.50	0.0	1.00
MQL4	30-Jul-24	Sn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL4	30-Jul-24	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL4	30-Jul-24	SO4-D	mg/L	1	1	14	14	0.0	1.00
MQL4	30-Jul-24	Sr-D	mg/L	0.001	0.001	0.0438	0.0438	0.0	1.00
MQL4	30-Jul-24	Sr-T	mg/L	0.001	0.001	0.0400	0.0400	0.0	1.00
MQL4	30-Jul-24	S-T	mg/L	3	3	5.0	5.0	0.0	1.00
MQL4	30-Jul-24	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL4	30-Jul-24	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL4	30-Jul-24	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
MQL4	30-Jul-24	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
MQL4	30-Jul-24	Turb	NTU	0.1	0.1	0.22	0.22	0.0	1.00
MQL4	30-Jul-24	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL4	30-Jul-24	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL4	30-Jul-24	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL4	30-Jul-24	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL4	30-Jul-24	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL4	30-Jul-24	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
MQL4	30-Jul-24	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
MQL4	30-Jul-24	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
NNO	15-Jul-24	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
NNO	15-Jul-24	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
NNO	15-Jul-24	Al-D	mg/L	0.003	0.003	0.0201	0.0197	2.0	1.02
NNO	15-Jul-24	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
NNO	15-Jul-24	Alk-T	mg/L	1	1	15	15	0.0	1.00
NNO	15-Jul-24	Al-T	mg/L	0.003	0.003	0.0229	0.0225	1.8	1.02
NNO	15-Jul-24	As-D	mg/L	0.0001	0.0001	0.00039	0.00038	2.6	1.03
NNO	15-Jul-24	As-T	mg/L	0.0001	0.0001	0.00040	0.00037	7.8	1.08
NNO	15-Jul-24	Ba-D	mg/L	0.001	0.001	0.0012	0.0012	0.0	1.00
NNO	15-Jul-24	Ba-T	mg/L	0.001	0.001	0.0012	0.0012	0.0	1.00
NNO	15-Jul-24	B-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
NNO	15-Jul-24	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
NNO	15-Jul-24	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
NNO	15-Jul-24	B-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
NNO	15-Jul-24	Ca-D	mg/L	0.05	0.05	4.58	4.70	2.6	0.97
NNO	15-Jul-24	Ca-T	mg/L	0.05	0.05	4.45	4.29	3.7	1.04
NNO	15-Jul-24	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
NNO	15-Jul-24	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
NNO	15-Jul-24	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
NNO	15-Jul-24	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
NNO	15-Jul-24	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
NNO	15-Jul-24	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
NNO	15-Jul-24	Cu-D	mg/L	0.0002	0.0002	0.00044	0.00046	4.4	0.96

Appendix 1 - Tables

Table 40 Relative Percent Difference 19 Page(s)

NNO	15-Jul-24	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
NNO	15-Jul-24	DOC	mg/L	0.5	0.5	4.0	4.0	0.0	1.00
NNO	15-Jul-24	Fe-D	mg/L	0.005	0.005	0.0783	0.0795	1.5	0.98
NNO	15-Jul-24	Fe-T	mg/L	0.01	0.01	0.095	0.091	4.3	1.04
NNO	15-Jul-24	Hard-D	mg/L	0.5	0.5	15.6	15.9	1.9	0.98
NNO	15-Jul-24	Hard-T	mg/L	0.5	0.5	15.1	14.5	4.1	1.04
NNO	15-Jul-24	K-D	mg/L	0.05	0.05	0.056	0.055	1.8	1.02
NNO	15-Jul-24	K-T	mg/L	0.05	0.05	0.051	0.052	1.9	0.98
NNO	15-Jul-24	Li-D	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
NNO	15-Jul-24	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
NNO	15-Jul-24	Mg-D	mg/L	0.05	0.05	1.00	1.01	1.0	0.99
NNO	15-Jul-24	Mg-T	mg/L	0.05	0.05	0.959	0.926	3.5	1.04
NNO	15-Jul-24	Mn-D	mg/L	0.001	0.001	0.0079	0.0077	2.6	1.03
NNO	15-Jul-24	Mn-T	mg/L	0.001	0.001	0.0116	0.0115	0.9	1.01
NNO	15-Jul-24	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
NNO	15-Jul-24	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
NNO	15-Jul-24	Na-D	mg/L	0.05	0.05	1.30	1.30	0.0	1.00
NNO	15-Jul-24	Na-T	mg/L	0.05	0.05	1.18	1.17	0.9	1.01
NNO	15-Jul-24	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
NNO	15-Jul-24	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
NNO	15-Jul-24	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
NNO	15-Jul-24	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
NNO	15-Jul-24	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
NNO	15-Jul-24	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
NNO	15-Jul-24	S-D	mg/L	3	3	<3.0	<3.0	0.0	1.00
NNO	15-Jul-24	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
NNO	15-Jul-24	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
NNO	15-Jul-24	Si-D	mg/L	0.1	0.1	2.61	2.67	2.3	0.98
NNO	15-Jul-24	Si-T	mg/L	0.1	0.1	2.55	2.48	2.8	1.03
NNO	15-Jul-24	Sn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
NNO	15-Jul-24	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
NNO	15-Jul-24	SO4-D	mg/L	1	1	<1.0	1.0	0.0	1.00
NNO	15-Jul-24	Sr-D	mg/L	0.001	0.001	0.0149	0.0146	2.0	1.02
NNO	15-Jul-24	Sr-T	mg/L	0.001	0.001	0.0144	0.0137	5.0	1.05
NNO	15-Jul-24	S-T	mg/L	3	3	<3.0	<3.0	0.0	1.00
NNO	15-Jul-24	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
NNO	15-Jul-24	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
NNO	15-Jul-24	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
NNO	15-Jul-24	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
NNO	15-Jul-24	TSS	mg/L	1	1	<1.0	<1.0	0.0	1.00
NNO	15-Jul-24	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
NNO	15-Jul-24	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
NNO	15-Jul-24	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
NNO	15-Jul-24	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
NNO	15-Jul-24	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
NNO	15-Jul-24	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
NNO	15-Jul-24	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
NNO	15-Jul-24	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
QRDS1	22-Jul-24	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
QRDS1	22-Jul-24	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
QRDS1	22-Jul-24	Al-D	mg/L	0.003	0.003	0.0111	0.0121	8.6	0.92
QRDS1	22-Jul-24	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
QRDS1	22-Jul-24	Alk-T	mg/L	1	1	39	39	0.0	1.00
QRDS1	22-Jul-24	Al-T	mg/L	0.003	0.003	0.0167	0.0183	9.1	0.91
QRDS1	22-Jul-24	As-D	mg/L	0.0001	0.0001	0.00063	0.00065	3.1	0.97
QRDS1	22-Jul-24	As-T	mg/L	0.0001	0.0001	0.00060	0.00061	1.7	0.98
QRDS1	22-Jul-24	Ba-D	mg/L	0.001	0.001	0.0023	0.0024	4.3	0.96

Appendix 1 - Tables

Table 40 Relative Percent Difference 19 Page(s)

QRDS1	22-Jul-24	Ba-T	mg/L	0.001	0.001	0.0019	0.0019	0.0	1.00
QRDS1	22-Jul-24	B-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
QRDS1	22-Jul-24	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
QRDS1	22-Jul-24	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
QRDS1	22-Jul-24	B-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
QRDS1	22-Jul-24	Ca-D	mg/L	0.05	0.05	10.4	10.6	1.9	0.98
QRDS1	22-Jul-24	Ca-T	mg/L	0.05	0.05	9.08	8.91	1.9	1.02
QRDS1	22-Jul-24	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
QRDS1	22-Jul-24	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
QRDS1	22-Jul-24	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
QRDS1	22-Jul-24	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
QRDS1	22-Jul-24	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QRDS1	22-Jul-24	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QRDS1	22-Jul-24	Cu-D	mg/L	0.0002	0.0002	0.00050	0.00051	2.0	0.98
QRDS1	22-Jul-24	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
QRDS1	22-Jul-24	DOC	mg/L	0.5	0.5	3.8	3.8	0.0	1.00
QRDS1	22-Jul-24	Fe-D	mg/L	0.005	0.005	0.0242	0.0264	8.7	0.92
QRDS1	22-Jul-24	Fe-T	mg/L	0.01	0.01	0.038	0.041	7.6	0.93
QRDS1	22-Jul-24	Hard-D	mg/L	0.5	0.5	31.6	31.9	0.9	0.99
QRDS1	22-Jul-24	Hard-T	mg/L	0.5	0.5	27.4	26.7	2.6	1.03
QRDS1	22-Jul-24	K-D	mg/L	0.05	0.05	0.206	0.206	0.0	1.00
QRDS1	22-Jul-24	K-T	mg/L	0.05	0.05	0.166	0.167	0.6	0.99
QRDS1	22-Jul-24	Li-D	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
QRDS1	22-Jul-24	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
QRDS1	22-Jul-24	Mg-D	mg/L	0.05	0.05	1.35	1.35	0.0	1.00
QRDS1	22-Jul-24	Mg-T	mg/L	0.05	0.05	1.13	1.09	3.6	1.04
QRDS1	22-Jul-24	Mn-D	mg/L	0.001	0.001	0.0017	0.0019	11.1	0.89
QRDS1	22-Jul-24	Mn-T	mg/L	0.001	0.001	0.0055	0.0050	9.5	1.10
QRDS1	22-Jul-24	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QRDS1	22-Jul-24	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QRDS1	22-Jul-24	Na-D	mg/L	0.05	0.05	10.9	10.8	0.9	1.01
QRDS1	22-Jul-24	Na-T	mg/L	0.05	0.05	9.20	9.11	1.0	1.01
QRDS1	22-Jul-24	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QRDS1	22-Jul-24	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
QRDS1	22-Jul-24	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
QRDS1	22-Jul-24	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
QRDS1	22-Jul-24	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
QRDS1	22-Jul-24	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
QRDS1	22-Jul-24	S-D	mg/L	3	3	6.0	6.2	3.3	0.97
QRDS1	22-Jul-24	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
QRDS1	22-Jul-24	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
QRDS1	22-Jul-24	Si-D	mg/L	0.1	0.1	1.84	1.88	2.2	0.98
QRDS1	22-Jul-24	Si-T	mg/L	0.1	0.1	1.56	1.62	3.8	0.96
QRDS1	22-Jul-24	Sn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QRDS1	22-Jul-24	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QRDS1	22-Jul-24	SO4-D	mg/L	1	1	18	18	0.0	1.00
QRDS1	22-Jul-24	Sr-D	mg/L	0.001	0.001	0.0535	0.0541	1.1	0.99
QRDS1	22-Jul-24	Sr-T	mg/L	0.001	0.001	0.0450	0.0447	0.7	1.01
QRDS1	22-Jul-24	S-T	mg/L	3	3	5.0	5.0	0.0	1.00
QRDS1	22-Jul-24	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QRDS1	22-Jul-24	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QRDS1	22-Jul-24	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
QRDS1	22-Jul-24	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
QRDS1	22-Jul-24	TSS	mg/L	1	1	<1.0	2.0	66.7	0.50
QRDS1	22-Jul-24	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
QRDS1	22-Jul-24	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
QRDS1	22-Jul-24	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00

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Table 40 Relative Percent Difference 19 Page(s)

QRDS1	22-Jul-24	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QRDS1	22-Jul-24	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QRDS1	22-Jul-24	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
QRDS1	22-Jul-24	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
QRDS1	22-Jul-24	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
SPCEFF	19-Aug-24	H2S	mg/L	0.002	0.002	0.011	0.0057	63.5	1.93
SPCEFF	19-Aug-24	S2-T	mg/L	0.0018	0.0018	0.0099	0.0053	60.5	1.87
SPCEFF	19-Aug-24	SO4-D	mg/L	5	5	440	440	0.0	1.00
WA	8-Jul-24	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
WA	8-Jul-24	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
WA	8-Jul-24	Al-D	mg/L	0.003	0.003	0.0145	0.0152	4.7	0.95
WA	8-Jul-24	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
WA	8-Jul-24	Alk-T	mg/L	1	1	22	22	0.0	1.00
WA	8-Jul-24	Al-T	mg/L	0.003	0.003	0.0188	0.0188	0.0	1.00
WA	8-Jul-24	As-D	mg/L	0.0001	0.0001	0.00012	0.00013	8.0	0.92
WA	8-Jul-24	As-T	mg/L	0.0001	0.0001	0.00012	0.00013	8.0	0.92
WA	8-Jul-24	Ba-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
WA	8-Jul-24	Ba-T	mg/L	0.001	0.001	0.0014	<0.0010	33.3	1.40
WA	8-Jul-24	B-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
WA	8-Jul-24	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
WA	8-Jul-24	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
WA	8-Jul-24	B-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
WA	8-Jul-24	Ca-D	mg/L	0.05	0.05	7.05	6.92	1.9	1.02
WA	8-Jul-24	Ca-T	mg/L	0.05	0.05	6.02	5.87	2.5	1.03
WA	8-Jul-24	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
WA	8-Jul-24	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
WA	8-Jul-24	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
WA	8-Jul-24	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
WA	8-Jul-24	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
WA	8-Jul-24	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
WA	8-Jul-24	Cu-D	mg/L	0.0002	0.0002	0.00055	0.00054	1.8	1.02
WA	8-Jul-24	Cu-T	mg/L	0.0005	0.0005	0.00053	0.00054	1.9	0.98
WA	8-Jul-24	DOC	mg/L	0.5	0.5	1.7	1.9	11.1	0.89
WA	8-Jul-24	Fe-D	mg/L	0.005	0.005	0.0135	0.0110	20.4	1.23
WA	8-Jul-24	Fe-T	mg/L	0.01	0.01	0.019	0.018	5.4	1.06
WA	8-Jul-24	Hard-D	mg/L	0.5	0.5	20.7	20.3	2.0	1.02
WA	8-Jul-24	Hard-T	mg/L	0.5	0.5	17.7	17.2	2.9	1.03
WA	8-Jul-24	K-D	mg/L	0.05	0.05	0.056	0.057	1.8	0.98
WA	8-Jul-24	K-T	mg/L	0.05	0.05	0.061	0.058	5.0	1.05
WA	8-Jul-24	Li-D	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
WA	8-Jul-24	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
WA	8-Jul-24	Mg-D	mg/L	0.05	0.05	0.741	0.737	0.5	1.01
WA	8-Jul-24	Mg-T	mg/L	0.05	0.05	0.656	0.625	4.8	1.05
WA	8-Jul-24	Mn-D	mg/L	0.001	0.001	0.0013	0.0013	0.0	1.00
WA	8-Jul-24	Mn-T	mg/L	0.001	0.001	0.0022	0.0021	4.7	1.05
WA	8-Jul-24	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
WA	8-Jul-24	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
WA	8-Jul-24	Na-D	mg/L	0.05	0.05	0.614	0.613	0.2	1.00
WA	8-Jul-24	Na-T	mg/L	0.05	0.05	0.556	0.543	2.4	1.02
WA	8-Jul-24	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
WA	8-Jul-24	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
WA	8-Jul-24	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
WA	8-Jul-24	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
WA	8-Jul-24	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
WA	8-Jul-24	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
WA	8-Jul-24	S-D	mg/L	3	3	<3.0	<3.0	0.0	1.00
WA	8-Jul-24	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00

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Table 40 Relative Percent Difference 19 Page(s)

WA	8-Jul-24	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
WA	8-Jul-24	Si-D	mg/L	0.1	0.1	1.93	1.91	1.0	1.01
WA	8-Jul-24	Si-T	mg/L	0.1	0.1	1.65	1.59	3.7	1.04
WA	8-Jul-24	Sn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
WA	8-Jul-24	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
WA	8-Jul-24	SO4-D	mg/L	1	1	1.2	1.3	8.0	0.92
WA	8-Jul-24	Sr-D	mg/L	0.001	0.001	0.0116	0.0117	0.9	0.99
WA	8-Jul-24	Sr-T	mg/L	0.001	0.001	0.0099	0.0097	2.0	1.02
WA	8-Jul-24	S-T	mg/L	3	3	<3.0	<3.0	0.0	1.00
WA	8-Jul-24	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
WA	8-Jul-24	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
WA	8-Jul-24	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
WA	8-Jul-24	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
WA	8-Jul-24	TSS	mg/L	1	1	<1.0	1.6	46.2	0.62
WA	8-Jul-24	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
WA	8-Jul-24	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
WA	8-Jul-24	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
WA	8-Jul-24	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
WA	8-Jul-24	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
WA	8-Jul-24	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
WA	8-Jul-24	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
WA	8-Jul-24	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
WB	6-Aug-24	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
WB	6-Aug-24	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
WB	6-Aug-24	Al-D	mg/L	0.003	0.003	0.0136	0.0120	12.5	1.13
WB	6-Aug-24	Alk-PP	mg/L	1	1	<1.0	<1.0	0.0	1.00
WB	6-Aug-24	Alk-T	mg/L	1	1	34	33	3.0	1.03
WB	6-Aug-24	Al-T	mg/L	0.003	0.003	0.0149	0.0119	22.4	1.25
WB	6-Aug-24	As-D	mg/L	0.0001	0.0001	0.00019	0.00019	0.0	1.00
WB	6-Aug-24	As-T	mg/L	0.0001	0.0001	0.00020	0.00018	10.5	1.11
WB	6-Aug-24	Ba-D	mg/L	0.001	0.001	0.0014	0.0014	0.0	1.00
WB	6-Aug-24	Ba-T	mg/L	0.001	0.001	0.0014	0.0012	15.4	1.17
WB	6-Aug-24	B-D	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
WB	6-Aug-24	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
WB	6-Aug-24	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
WB	6-Aug-24	B-T	mg/L	0.05	0.05	<0.050	<0.050	0.0	1.00
WB	6-Aug-24	Ca-D	mg/L	0.05	0.05	10.5	10.6	0.9	0.99
WB	6-Aug-24	Ca-T	mg/L	0.05	0.05	9.54	9.38	1.7	1.02
WB	6-Aug-24	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
WB	6-Aug-24	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
WB	6-Aug-24	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
WB	6-Aug-24	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
WB	6-Aug-24	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
WB	6-Aug-24	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
WB	6-Aug-24	Cu-D	mg/L	0.0002	0.0002	0.00045	0.00046	2.2	0.98
WB	6-Aug-24	Cu-T	mg/L	0.0005	0.0005	0.00080	<0.00050	46.2	1.60
WB	6-Aug-24	DOC	mg/L	0.5	0.5	2.7	2.4	11.8	1.12
WB	6-Aug-24	Fe-D	mg/L	0.005	0.005	0.0299	0.0283	5.5	1.06
WB	6-Aug-24	Fe-T	mg/L	0.01	0.01	0.039	0.034	13.7	1.15
WB	6-Aug-24	Hard-D	mg/L	0.5	0.5	31.7	31.9	0.6	0.99
WB	6-Aug-24	Hard-T	mg/L	0.5	0.5	28.9	28.4	1.7	1.02
WB	6-Aug-24	K-D	mg/L	0.05	0.05	0.146	0.147	0.7	0.99
WB	6-Aug-24	K-T	mg/L	0.05	0.05	0.137	0.131	4.5	1.05
WB	6-Aug-24	Li-D	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
WB	6-Aug-24	Li-T	mg/L	0.002	0.002	<0.0020	<0.0020	0.0	1.00
WB	6-Aug-24	Mg-D	mg/L	0.05	0.05	1.31	1.33	1.5	0.98
WB	6-Aug-24	Mg-T	mg/L	0.05	0.05	1.22	1.20	1.7	1.02

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WB	6-Aug-24	Mn-D	mg/L	0.001	0.001	0.0025	0.0024	4.1	1.04
WB	6-Aug-24	Mn-T	mg/L	0.001	0.001	0.0083	0.0081	2.4	1.02
WB	6-Aug-24	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
WB	6-Aug-24	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
WB	6-Aug-24	Na-D	mg/L	0.05	0.05	8.05	8.05	0.0	1.00
WB	6-Aug-24	Na-T	mg/L	0.05	0.05	7.41	7.15	3.6	1.04
WB	6-Aug-24	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
WB	6-Aug-24	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
WB	6-Aug-24	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
WB	6-Aug-24	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
WB	6-Aug-24	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
WB	6-Aug-24	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
WB	6-Aug-24	S-D	mg/L	3	3	5.2	5.2	0.0	1.00
WB	6-Aug-24	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
WB	6-Aug-24	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
WB	6-Aug-24	Si-D	mg/L	0.1	0.1	1.92	1.89	1.6	1.02
WB	6-Aug-24	Si-T	mg/L	0.1	0.1	1.76	1.75	0.6	1.01
WB	6-Aug-24	Sn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
WB	6-Aug-24	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
WB	6-Aug-24	SO4-D	mg/L	1	1	14	14	0.0	1.00
WB	6-Aug-24	Sr-D	mg/L	0.001	0.001	0.0442	0.0438	0.9	1.01
WB	6-Aug-24	Sr-T	mg/L	0.001	0.001	0.0439	0.0422	3.9	1.04
WB	6-Aug-24	S-T	mg/L	3	3	4.7	4.8	2.1	0.98
WB	6-Aug-24	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
WB	6-Aug-24	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
WB	6-Aug-24	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
WB	6-Aug-24	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
WB	6-Aug-24	TSS	mg/L	1	1	1.2	1.6	28.6	0.75
WB	6-Aug-24	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
WB	6-Aug-24	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
WB	6-Aug-24	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
WB	6-Aug-24	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
WB	6-Aug-24	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
WB	6-Aug-24	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
WB	6-Aug-24	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
WB	6-Aug-24	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
WC	2-Jul-24	Ag-D	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
WC	2-Jul-24	Ag-T	mg/L	0.00002	0.00002	<0.000020	<0.000020	0.0	1.00
WC	2-Jul-24	Al-D	mg/L	0.003	0.003	0.0036	0.0030	18.2	1.20
WC	2-Jul-24	Al-T	mg/L	0.003	0.003	0.0035	0.0039	10.8	0.90
WC	2-Jul-24	As-D	mg/L	0.0001	0.0001	0.00052	0.00050	3.9	1.04
WC	2-Jul-24	As-T	mg/L	0.0001	0.0001	0.00056	0.00052	7.4	1.08
WC	2-Jul-24	Ba-D	mg/L	0.001	0.001	0.0160	0.0160	0.0	1.00
WC	2-Jul-24	Ba-T	mg/L	0.001	0.001	0.0149	0.0150	0.7	0.99
WC	2-Jul-24	B-D	mg/L	0.05	0.05	0.862	0.817	5.4	1.06
WC	2-Jul-24	Be-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
WC	2-Jul-24	Be-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
WC	2-Jul-24	B-T	mg/L	0.05	0.05	0.751	0.696	7.6	1.08
WC	2-Jul-24	Ca-D	mg/L	0.05	0.05	78.2	79.0	1.0	0.99
WC	2-Jul-24	Ca-T	mg/L	0.05	0.05	69.6	69.1	0.7	1.01
WC	2-Jul-24	Cd-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
WC	2-Jul-24	Cd-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
WC	2-Jul-24	Co-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
WC	2-Jul-24	Co-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
WC	2-Jul-24	Cr-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
WC	2-Jul-24	Cr-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
WC	2-Jul-24	Cu-D	mg/L	0.0002	0.0002	0.00027	0.00025	7.7	1.08

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WC	2-Jul-24	Cu-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
WC	2-Jul-24	DOC	mg/L	0.5	0.5	80	81	1.2	0.99
WC	2-Jul-24	Fe-D	mg/L	0.005	0.005	0.0227	0.0211	7.3	1.08
WC	2-Jul-24	Fe-T	mg/L	0.01	0.01	0.030	0.031	3.3	0.97
WC	2-Jul-24	Hard-D	mg/L	0.5	0.5	239	241	0.8	0.99
WC	2-Jul-24	Hard-T	mg/L	0.5	0.5	210	210	0.0	1.00
WC	2-Jul-24	K-D	mg/L	0.05	0.05	2.79	2.85	2.1	0.98
WC	2-Jul-24	K-T	mg/L	0.05	0.05	2.59	2.57	0.8	1.01
WC	2-Jul-24	Li-D	mg/L	0.002	0.002	0.0072	0.0072	0.0	1.00
WC	2-Jul-24	Li-T	mg/L	0.002	0.002	0.0063	0.0063	0.0	1.00
WC	2-Jul-24	Mg-D	mg/L	0.05	0.05	10.5	10.7	1.9	0.98
WC	2-Jul-24	Mg-T	mg/L	0.05	0.05	8.89	9.15	2.9	0.97
WC	2-Jul-24	Mn-D	mg/L	0.001	0.001	0.0164	0.0163	0.6	1.01
WC	2-Jul-24	Mn-T	mg/L	0.001	0.001	0.0155	0.0156	0.6	0.99
WC	2-Jul-24	Mo-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
WC	2-Jul-24	Mo-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
WC	2-Jul-24	Na-D	mg/L	0.05	0.05	200	203	1.5	0.99
WC	2-Jul-24	Na-T	mg/L	0.05	0.05	170	175	2.9	0.97
WC	2-Jul-24	Ni-D	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
WC	2-Jul-24	Ni-T	mg/L	0.001	0.001	<0.0010	<0.0010	0.0	1.00
WC	2-Jul-24	Pb-D	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
WC	2-Jul-24	Pb-T	mg/L	0.0002	0.0002	<0.00020	<0.00020	0.0	1.00
WC	2-Jul-24	Sb-D	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
WC	2-Jul-24	Sb-T	mg/L	0.0005	0.0005	<0.00050	<0.00050	0.0	1.00
WC	2-Jul-24	S-D	mg/L	3	3	116	118	1.7	0.98
WC	2-Jul-24	Se-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
WC	2-Jul-24	Se-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
WC	2-Jul-24	Si-D	mg/L	0.1	0.1	3.56	3.60	1.1	0.99
WC	2-Jul-24	Si-T	mg/L	0.1	0.1	3.53	3.49	1.1	1.01
WC	2-Jul-24	Sn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
WC	2-Jul-24	Sn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
WC	2-Jul-24	SO4-D	mg/L	5	5	320	330	3.1	0.97
WC	2-Jul-24	Sr-D	mg/L	0.001	0.001	0.871	0.843	3.3	1.03
WC	2-Jul-24	Sr-T	mg/L	0.001	0.001	0.782	0.788	0.8	0.99
WC	2-Jul-24	S-T	mg/L	3	3	105	106	0.9	0.99
WC	2-Jul-24	Ti-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
WC	2-Jul-24	Ti-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
WC	2-Jul-24	Tl-D	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
WC	2-Jul-24	Tl-T	mg/L	0.00001	0.00001	<0.000010	<0.000010	0.0	1.00
WC	2-Jul-24	TSS	mg/L	1	1	<1.0	<1.0	0.0	1.00
WC	2-Jul-24	U-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
WC	2-Jul-24	U-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
WC	2-Jul-24	V-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
WC	2-Jul-24	V-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
WC	2-Jul-24	Zn-D	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
WC	2-Jul-24	Zn-T	mg/L	0.005	0.005	<0.0050	<0.0050	0.0	1.00
WC	2-Jul-24	Zr-D	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00
WC	2-Jul-24	Zr-T	mg/L	0.0001	0.0001	<0.00010	<0.00010	0.0	1.00

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Table 41 RPD Greater Than 20% 1 Page(s)

Relative Percent Difference (RPD) Greater than 20%										Are Lab MDL 1
Stn.Code	Date	Param.Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.	Ratio	and 2 Equal
2S	9-Sep-24	Pb-T	mg/L	0.0002	0.0002	<0.00020	0.00066	107.0	0.30	TRUE
2SI	16-Sep-24	H2S	mg/L	0.002	0.002	0.016	0.021	27.0	0.76	TRUE
2SI	16-Sep-24	S2-T	mg/L	0.0018	0.0018	0.015	0.020	28.6	0.75	TRUE
INF	12-Aug-24	H2S	mg/L	0.002	0.002	<0.0020	0.0068	109.1	0.29	TRUE
INF	12-Aug-24	S2-T	mg/L	0.0018	0.0018	<0.0018	0.0063	111.1	0.29	TRUE
INF	3-Sep-24	H2S	mg/L	0.002	0.002	<0.0020	0.0046	78.8	0.43	TRUE
INF	3-Sep-24	S2-T	mg/L	0.0018	0.0018	<0.0018	0.0043	82.0	0.42	TRUE
LLM1	9-Jul-24	As-T	mg/L	0.0001	0.0001	0.00076	0.00054	33.8	1.41	TRUE
LLM1	9-Jul-24	Turb	NTU	0.1	0.1	0.22	0.28	24.0	0.79	TRUE
LLM1	7-Aug-24	P-T	mg/L	0.003	0.003	0.0059	0.0036	48.4	1.64	TRUE
LLM4	16-Jul-24	K-T	mg/L	0.05	0.05	0.292	0.238	20.4	1.23	TRUE
LLM4	16-Jul-24	S-T	mg/L	3	3	21.2	16.3	26.1	1.30	TRUE
MQL1	23-Jul-24	P-T	mg/L	0.003	0.003	0.0040	<0.0030	28.6	1.33	TRUE
MQL4	30-Jul-24	Mn-D	mg/L	0.001	0.001	0.0011	0.0014	24.0	0.79	TRUE
QRDS1	22-Jul-24	TSS	mg/L	1	1	<1.0	2.0	66.7	0.50	TRUE
SPCEFF	19-Aug-24	H2S	mg/L	0.002	0.002	0.011	0.0057	63.5	1.93	TRUE
SPCEFF	19-Aug-24	S2-T	mg/L	0.0018	0.0018	0.0099	0.0053	60.5	1.87	TRUE
WA	8-Jul-24	Ba-T	mg/L	0.001	0.001	0.0014	<0.0010	33.3	1.40	TRUE
WA	8-Jul-24	Fe-D	mg/L	0.005	0.005	0.0135	0.0110	20.4	1.23	TRUE
WA	8-Jul-24	TSS	mg/L	1	1	<1.0	1.6	46.2	0.62	TRUE
WB	6-Aug-24	Al-T	mg/L	0.003	0.003	0.0149	0.0119	22.4	1.25	TRUE
WB	6-Aug-24	Cu-T	mg/L	0.0005	0.0005	0.00080	<0.00050	46.2	1.60	TRUE
WB	6-Aug-24	TSS	mg/L	1	1	1.2	1.6	28.6	0.75	TRUE

True RPD calculation: One or more of the results must be Five X's > than the Lab Mean Detection Limit (Lab MDL).

Results that are Not Calculated (NC) include unequal Lab MDL's or results that are less than 5X 's Lab MDL.

Appendix 1 - Tables

Table 42 Blanks 11 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)								
Stn.Code 1	Date	Parameter Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.
EB	16-Jul-24	Ag-T	mg/L	0.000020	0.000020	<0.000020	<0.000020	0.0
EB	16-Jul-24	Alk-PP	mg/L	1.0	1.0	<1.0	<1.0	0.0
EB	16-Jul-24	Alk-T	mg/L	1.0	1.0	<1.0	<1.0	0.0
EB	16-Jul-24	Al-T	mg/L	0.0030	0.0030	<0.0030	<0.0030	0.0
EB	16-Jul-24	As-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0
EB	16-Jul-24	Ba-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0
EB	16-Jul-24	Be-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0
EB	16-Jul-24	B-T	mg/L	0.050	0.050	<0.050	<0.050	0.0
EB	16-Jul-24	Ca-T	mg/L	0.050	0.050	<0.050	<0.050	0.0
EB	16-Jul-24	Cd-T	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0
EB	16-Jul-24	Cl-D	mg/L	1.0	1.0	<1.0	<1.0	0.0
EB	16-Jul-24	Co-T	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0
EB	16-Jul-24	Cr-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0
EB	16-Jul-24	Cu-T	mg/L	0.00050	0.00050	0.00129	0.00129	0.0
EB	16-Jul-24	Fe-T	mg/L	0.010	0.010	0.012	0.012	0.0
EB	16-Jul-24	Hard-T	mg/L	0.50	0.50	<0.50	<0.50	0.0
EB	16-Jul-24	K-T	mg/L	0.050	0.050	<0.050	<0.050	0.0
EB	16-Jul-24	Li-T	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0
EB	16-Jul-24	Mg-T	mg/L	0.050	0.050	<0.050	<0.050	0.0
EB	16-Jul-24	Mn-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0
EB	16-Jul-24	Mo-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0
EB	16-Jul-24	Na-T	mg/L	0.050	0.050	<0.050	<0.050	0.0
EB	16-Jul-24	Ni-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0
EB	16-Jul-24	Pb-T	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0
EB	16-Jul-24	Sb-T	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0
EB	16-Jul-24	Se-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0
EB	16-Jul-24	Si-T	mg/L	0.10	0.10	<0.10	<0.10	0.0
EB	16-Jul-24	Sn-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0
EB	16-Jul-24	SO4-D	mg/L	1.0	1.0	<1.0	<1.0	0.0
EB	16-Jul-24	Sr-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0
EB	16-Jul-24	S-T	mg/L	3.0	3.0	<3.0	<3.0	0.0
EB	16-Jul-24	Ti-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0
EB	16-Jul-24	Tl-T	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0
EB	16-Jul-24	Turb	NTU	0.10	0.10	<0.10	<0.10	0.0
EB	16-Jul-24	U-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0
EB	16-Jul-24	V-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0
EB	16-Jul-24	Zn-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0
EB	16-Jul-24	Zr-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0
EB2	9-Jul-24	Ag-T	mg/L	0.000020	0.000020	<0.000020	<0.000020	0.0
EB2	9-Jul-24	Alk-PP	mg/L	1.0	1.0	<1.0	<1.0	0.0
EB2	9-Jul-24	Alk-T	mg/L	1.0	1.0	<1.0	<1.0	0.0
EB2	9-Jul-24	Al-T	mg/L	0.0030	0.0030	<0.0030	<0.0030	0.0
EB2	9-Jul-24	As-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0
EB2	9-Jul-24	Ba-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0
EB2	9-Jul-24	Be-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0
EB2	9-Jul-24	B-T	mg/L	0.050	0.050	<0.050	<0.050	0.0
EB2	9-Jul-24	Ca-T	mg/L	0.050	0.050	<0.050	<0.050	0.0
EB2	9-Jul-24	Cd-T	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0
EB2	9-Jul-24	Co-T	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0
EB2	9-Jul-24	Cr-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0
EB2	9-Jul-24	Cu-T	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0
EB2	9-Jul-24	Fe-T	mg/L	0.010	0.010	<0.010	<0.010	0.0
EB2	9-Jul-24	Hard-T	mg/L	0.50	0.50	<0.50	<0.50	0.0
EB2	9-Jul-24	K-T	mg/L	0.050	0.050	<0.050	<0.050	0.0
EB2	9-Jul-24	Li-T	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0
EB2	9-Jul-24	Mg-T	mg/L	0.050	0.050	<0.050	<0.050	0.0
EB2	9-Jul-24	Mn-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0
EB2	9-Jul-24	Mo-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0
EB2	9-Jul-24	Na-T	mg/L	0.050	0.050	<0.050	<0.050	0.0
EB2	9-Jul-24	Ni-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0
EB2	9-Jul-24	Pb-T	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0

Appendix 1 - Tables

Table 42 Blanks 11 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)								
Stn.Code 1	Date	Parameter Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.
EB2	9-Jul-24	Sb-T	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0
EB2	9-Jul-24	Se-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0
EB2	9-Jul-24	Si-T	mg/L	0.10	0.10	<0.10	<0.10	0.0
EB2	9-Jul-24	Sn-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0
EB2	9-Jul-24	SO4-D	mg/L	1.0	1.0	<1.0	<1.0	0.0
EB2	9-Jul-24	Sr-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0
EB2	9-Jul-24	S-T	mg/L	3.0	3.0	<3.0	<3.0	0.0
EB2	9-Jul-24	Ti-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0
EB2	9-Jul-24	Tl-T	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0
EB2	9-Jul-24	Turb	NTU	0.10	0.10	<0.10	<0.10	0.0
EB2	9-Jul-24	U-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0
EB2	9-Jul-24	V-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0
EB2	9-Jul-24	Zn-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0
EB2	9-Jul-24	Zr-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0
EB2	23-Jul-24	Ag-T	mg/L	0.000020	0.000020	<0.000020	<0.000020	0.0
EB2	23-Jul-24	Alk-PP	mg/L	1.0	1.0	<1.0	<1.0	0.0
EB2	23-Jul-24	Alk-T	mg/L	1.0	1.0	<1.0	<1.0	0.0
EB2	23-Jul-24	Al-T	mg/L	0.0030	0.0030	<0.0030	<0.0030	0.0
EB2	23-Jul-24	As-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0
EB2	23-Jul-24	Ba-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0
EB2	23-Jul-24	Be-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0
EB2	23-Jul-24	B-T	mg/L	0.050	0.050	<0.050	<0.050	0.0
EB2	23-Jul-24	Ca-T	mg/L	0.050	0.050	<0.050	<0.050	0.0
EB2	23-Jul-24	Cd-T	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0
EB2	23-Jul-24	Cl-D	mg/L	1.0	1.0	<1.0	<1.0	0.0
EB2	23-Jul-24	Co-T	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0
EB2	23-Jul-24	Cr-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0
EB2	23-Jul-24	Cu-T	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0
EB2	23-Jul-24	Fe-T	mg/L	0.010	0.010	<0.010	<0.010	0.0
EB2	23-Jul-24	Hard-T	mg/L	0.50	0.50	<0.50	<0.50	0.0
EB2	23-Jul-24	K-T	mg/L	0.050	0.050	<0.050	<0.050	0.0
EB2	23-Jul-24	Li-T	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0
EB2	23-Jul-24	Mg-T	mg/L	0.050	0.050	<0.050	<0.050	0.0
EB2	23-Jul-24	Mn-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0
EB2	23-Jul-24	Mo-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0
EB2	23-Jul-24	Na-T	mg/L	0.050	0.050	<0.050	<0.050	0.0
EB2	23-Jul-24	Ni-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0
EB2	23-Jul-24	Pb-T	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0
EB2	23-Jul-24	Sb-T	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0
EB2	23-Jul-24	Se-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0
EB2	23-Jul-24	Si-T	mg/L	0.10	0.10	<0.10	<0.10	0.0
EB2	23-Jul-24	Sn-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0
EB2	23-Jul-24	SO4-D	mg/L	1.0	1.0	<1.0	<1.0	0.0
EB2	23-Jul-24	Sr-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0
EB2	23-Jul-24	S-T	mg/L	3.0	3.0	<3.0	<3.0	0.0
EB2	23-Jul-24	Ti-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0
EB2	23-Jul-24	Tl-T	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0
EB2	23-Jul-24	Turb	NTU	0.10	0.10	<0.10	<0.10	0.0
EB2	23-Jul-24	U-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0
EB2	23-Jul-24	V-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0
EB2	23-Jul-24	Zn-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0
EB2	23-Jul-24	Zr-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0
EB2	30-Jul-24	Ag-T	mg/L	0.000020	0.000020	<0.000020	<0.000020	0.0
EB2	30-Jul-24	Alk-PP	mg/L	1.0	1.0	<1.0	<1.0	0.0
EB2	30-Jul-24	Alk-T	mg/L	1.0	1.0	<1.0	<1.0	0.0
EB2	30-Jul-24	Al-T	mg/L	0.0030	0.0030	0.0060	0.0060	0.0
EB2	30-Jul-24	As-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0
EB2	30-Jul-24	Ba-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0
EB2	30-Jul-24	Be-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0
EB2	30-Jul-24	B-T	mg/L	0.050	0.050	<0.050	<0.050	0.0
EB2	30-Jul-24	Ca-T	mg/L	0.050	0.050	<0.050	<0.050	0.0

Appendix 1 - Tables

Table 42 Blanks 11 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)								
Stn.Code 1	Date	Parameter Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.
EB2	30-Jul-24	Cd-T	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0
EB2	30-Jul-24	Cl-D	mg/L	1.0	1.0	<1.0	<1.0	0.0
EB2	30-Jul-24	Co-T	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0
EB2	30-Jul-24	Cr-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0
EB2	30-Jul-24	Cu-T	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0
EB2	30-Jul-24	Fe-T	mg/L	0.010	0.010	<0.010	<0.010	0.0
EB2	30-Jul-24	Hard-T	mg/L	0.50	0.50	<0.50	<0.50	0.0
EB2	30-Jul-24	K-T	mg/L	0.050	0.050	<0.050	<0.050	0.0
EB2	30-Jul-24	Li-T	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0
EB2	30-Jul-24	Mg-T	mg/L	0.050	0.050	<0.050	<0.050	0.0
EB2	30-Jul-24	Mn-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0
EB2	30-Jul-24	Mo-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0
EB2	30-Jul-24	Na-T	mg/L	0.050	0.050	<0.050	<0.050	0.0
EB2	30-Jul-24	Ni-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0
EB2	30-Jul-24	Pb-T	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0
EB2	30-Jul-24	Sb-T	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0
EB2	30-Jul-24	Se-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0
EB2	30-Jul-24	Si-T	mg/L	0.10	0.10	<0.10	<0.10	0.0
EB2	30-Jul-24	Sn-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0
EB2	30-Jul-24	SO4-D	mg/L	1.0	1.0	<1.0	<1.0	0.0
EB2	30-Jul-24	Sr-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0
EB2	30-Jul-24	S-T	mg/L	3.0	3.0	<3.0	<3.0	0.0
EB2	30-Jul-24	Ti-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0
EB2	30-Jul-24	Tl-T	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0
EB2	30-Jul-24	Turb	NTU	0.10	0.10	0.16	0.16	0.0
EB2	30-Jul-24	U-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0
EB2	30-Jul-24	V-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0
EB2	30-Jul-24	Zn-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0
EB2	30-Jul-24	Zr-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0
EB2	7-Aug-24	Ag-T	mg/L	0.000020	0.000020	<0.000020	<0.000020	0.0
EB2	7-Aug-24	Alk-PP	mg/L	1.0	1.0	<1.0	<1.0	0.0
EB2	7-Aug-24	Alk-T	mg/L	1.0	1.0	<1.0	<1.0	0.0
EB2	7-Aug-24	Al-T	mg/L	0.0030	0.0030	<0.0030	<0.0030	0.0
EB2	7-Aug-24	As-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0
EB2	7-Aug-24	Ba-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0
EB2	7-Aug-24	Be-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0
EB2	7-Aug-24	B-T	mg/L	0.050	0.050	<0.050	<0.050	0.0
EB2	7-Aug-24	Ca-T	mg/L	0.050	0.050	<0.050	<0.050	0.0
EB2	7-Aug-24	Cd-T	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0
EB2	7-Aug-24	Cl-D	mg/L	1.0	1.0	<1.0	<1.0	0.0
EB2	7-Aug-24	Co-T	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0
EB2	7-Aug-24	Cr-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0
EB2	7-Aug-24	Cu-T	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0
EB2	7-Aug-24	Fe-T	mg/L	0.010	0.010	<0.010	<0.010	0.0
EB2	7-Aug-24	Hard-T	mg/L	0.50	0.50	<0.50	<0.50	0.0
EB2	7-Aug-24	K-T	mg/L	0.050	0.050	<0.050	<0.050	0.0
EB2	7-Aug-24	Li-T	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0
EB2	7-Aug-24	Mg-T	mg/L	0.050	0.050	<0.050	<0.050	0.0
EB2	7-Aug-24	Mn-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0
EB2	7-Aug-24	Mo-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0
EB2	7-Aug-24	Na-T	mg/L	0.050	0.050	<0.050	<0.050	0.0
EB2	7-Aug-24	Ni-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0
EB2	7-Aug-24	Pb-T	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0
EB2	7-Aug-24	Sb-T	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0
EB2	7-Aug-24	Se-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0
EB2	7-Aug-24	Si-T	mg/L	0.10	0.10	<0.10	<0.10	0.0
EB2	7-Aug-24	Sn-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0
EB2	7-Aug-24	SO4-D	mg/L	1.0	1.0	<1.0	<1.0	0.0
EB2	7-Aug-24	Sr-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0
EB2	7-Aug-24	S-T	mg/L	3.0	3.0	<3.0	<3.0	0.0
EB2	7-Aug-24	Ti-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0

Appendix 1 - Tables

Table 42 Blanks 11 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)								
Stn.Code 1	Date	Parameter Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.
EB2	7-Aug-24	TI-T	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0
EB2	7-Aug-24	Turb	NTU	0.10	0.10	<0.10	<0.10	0.0
EB2	7-Aug-24	U-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0
EB2	7-Aug-24	V-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0
EB2	7-Aug-24	Zn-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0
EB2	7-Aug-24	Zr-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0
EB3	9-Jul-24	Ag-T	mg/L	0.000020	0.000020	<0.000020	<0.000020	0.0
EB3	9-Jul-24	Alk-PP	mg/L	1.0	1.0	<1.0	<1.0	0.0
EB3	9-Jul-24	Alk-T	mg/L	1.0	1.0	<1.0	<1.0	0.0
EB3	9-Jul-24	Al-T	mg/L	0.0030	0.0030	<0.0030	<0.0030	0.0
EB3	9-Jul-24	As-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0
EB3	9-Jul-24	Ba-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0
EB3	9-Jul-24	Be-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0
EB3	9-Jul-24	B-T	mg/L	0.050	0.050	<0.050	<0.050	0.0
EB3	9-Jul-24	Ca-T	mg/L	0.050	0.050	0.086	0.086	0.0
EB3	9-Jul-24	Cd-T	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0
EB3	9-Jul-24	Cl-D	mg/L	1.0	1.0	<1.0	<1.0	0.0
EB3	9-Jul-24	Co-T	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0
EB3	9-Jul-24	Cr-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0
EB3	9-Jul-24	Cu-T	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0
EB3	9-Jul-24	Fe-T	mg/L	0.010	0.010	<0.010	<0.010	0.0
EB3	9-Jul-24	Hard-T	mg/L	0.50	0.50	<0.50	<0.50	0.0
EB3	9-Jul-24	K-T	mg/L	0.050	0.050	<0.050	<0.050	0.0
EB3	9-Jul-24	Li-T	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0
EB3	9-Jul-24	Mg-T	mg/L	0.050	0.050	<0.050	<0.050	0.0
EB3	9-Jul-24	Mn-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0
EB3	9-Jul-24	Mo-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0
EB3	9-Jul-24	Na-T	mg/L	0.050	0.050	<0.050	<0.050	0.0
EB3	9-Jul-24	Ni-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0
EB3	9-Jul-24	Pb-T	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0
EB3	9-Jul-24	Sb-T	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0
EB3	9-Jul-24	Se-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0
EB3	9-Jul-24	Si-T	mg/L	0.10	0.10	<0.10	<0.10	0.0
EB3	9-Jul-24	Sn-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0
EB3	9-Jul-24	SO4-D	mg/L	1.0	1.0	<1.0	<1.0	0.0
EB3	9-Jul-24	Sr-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0
EB3	9-Jul-24	S-T	mg/L	3.0	3.0	<3.0	<3.0	0.0
EB3	9-Jul-24	Ti-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0
EB3	9-Jul-24	TI-T	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0
EB3	9-Jul-24	Turb	NTU	0.10	0.10	<0.10	<0.10	0.0
EB3	9-Jul-24	U-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0
EB3	9-Jul-24	V-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0
EB3	9-Jul-24	Zn-T	mg/L	0.0050	0.0050	0.0094	0.0094	0.0
EB3	9-Jul-24	Zr-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0
EB3	23-Jul-24	Ag-T	mg/L	0.000020	0.000020	<0.000020	<0.000020	0.0
EB3	23-Jul-24	Alk-PP	mg/L	1.0	1.0	<1.0	<1.0	0.0
EB3	23-Jul-24	Alk-T	mg/L	1.0	1.0	<1.0	<1.0	0.0
EB3	23-Jul-24	Al-T	mg/L	0.0030	0.0030	<0.0030	<0.0030	0.0
EB3	23-Jul-24	As-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0
EB3	23-Jul-24	Ba-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0
EB3	23-Jul-24	Be-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0
EB3	23-Jul-24	B-T	mg/L	0.050	0.050	<0.050	<0.050	0.0
EB3	23-Jul-24	Ca-T	mg/L	0.050	0.050	<0.050	<0.050	0.0
EB3	23-Jul-24	Cd-T	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0
EB3	23-Jul-24	Cl-D	mg/L	1.0	1.0	<1.0	<1.0	0.0
EB3	23-Jul-24	Co-T	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0
EB3	23-Jul-24	Cr-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0
EB3	23-Jul-24	Cu-T	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0
EB3	23-Jul-24	Fe-T	mg/L	0.010	0.010	<0.010	<0.010	0.0
EB3	23-Jul-24	Hard-T	mg/L	0.50	0.50	<0.50	<0.50	0.0
EB3	23-Jul-24	K-T	mg/L	0.050	0.050	<0.050	<0.050	0.0

Appendix 1 - Tables

Table 42 Blanks 11 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)								
Stn.Code 1	Date	Parameter Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.
EB3	23-Jul-24	Li-T	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0
EB3	23-Jul-24	Mg-T	mg/L	0.050	0.050	<0.050	<0.050	0.0
EB3	23-Jul-24	Mn-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0
EB3	23-Jul-24	Mo-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0
EB3	23-Jul-24	Na-T	mg/L	0.050	0.050	<0.050	<0.050	0.0
EB3	23-Jul-24	Ni-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0
EB3	23-Jul-24	Pb-T	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0
EB3	23-Jul-24	Sb-T	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0
EB3	23-Jul-24	Se-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0
EB3	23-Jul-24	Si-T	mg/L	0.10	0.10	<0.10	<0.10	0.0
EB3	23-Jul-24	Sn-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0
EB3	23-Jul-24	SO4-D	mg/L	1.0	1.0	<1.0	<1.0	0.0
EB3	23-Jul-24	Sr-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0
EB3	23-Jul-24	S-T	mg/L	3.0	3.0	<3.0	<3.0	0.0
EB3	23-Jul-24	Ti-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0
EB3	23-Jul-24	Tl-T	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0
EB3	23-Jul-24	Turb	NTU	0.10	0.10	<0.10	<0.10	0.0
EB3	23-Jul-24	U-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0
EB3	23-Jul-24	V-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0
EB3	23-Jul-24	Zn-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0
EB3	23-Jul-24	Zr-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0
EB3	30-Jul-24	Ag-T	mg/L	0.000020	0.000020	<0.000020	<0.000020	0.0
EB3	30-Jul-24	Alk-PP	mg/L	1.0	1.0	<1.0	<1.0	0.0
EB3	30-Jul-24	Alk-T	mg/L	1.0	1.0	<1.0	<1.0	0.0
EB3	30-Jul-24	Al-T	mg/L	0.0030	0.0030	<0.0030	<0.0030	0.0
EB3	30-Jul-24	As-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0
EB3	30-Jul-24	Ba-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0
EB3	30-Jul-24	Be-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0
EB3	30-Jul-24	B-T	mg/L	0.050	0.050	<0.050	<0.050	0.0
EB3	30-Jul-24	Ca-T	mg/L	0.050	0.050	<0.050	<0.050	0.0
EB3	30-Jul-24	Cd-T	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0
EB3	30-Jul-24	Cl-D	mg/L	1.0	1.0	<1.0	<1.0	0.0
EB3	30-Jul-24	Co-T	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0
EB3	30-Jul-24	Cr-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0
EB3	30-Jul-24	Cu-T	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0
EB3	30-Jul-24	Fe-T	mg/L	0.010	0.010	<0.010	<0.010	0.0
EB3	30-Jul-24	Hard-T	mg/L	0.50	0.50	<0.50	<0.50	0.0
EB3	30-Jul-24	K-T	mg/L	0.050	0.050	<0.050	<0.050	0.0
EB3	30-Jul-24	Li-T	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0
EB3	30-Jul-24	Mg-T	mg/L	0.050	0.050	<0.050	<0.050	0.0
EB3	30-Jul-24	Mn-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0
EB3	30-Jul-24	Mo-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0
EB3	30-Jul-24	Na-T	mg/L	0.050	0.050	<0.050	<0.050	0.0
EB3	30-Jul-24	Ni-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0
EB3	30-Jul-24	Pb-T	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0
EB3	30-Jul-24	Sb-T	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0
EB3	30-Jul-24	Se-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0
EB3	30-Jul-24	Si-T	mg/L	0.10	0.10	<0.10	<0.10	0.0
EB3	30-Jul-24	Sn-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0
EB3	30-Jul-24	SO4-D	mg/L	1.0	1.0	<1.0	<1.0	0.0
EB3	30-Jul-24	Sr-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0
EB3	30-Jul-24	S-T	mg/L	3.0	3.0	<3.0	<3.0	0.0
EB3	30-Jul-24	Ti-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0
EB3	30-Jul-24	Tl-T	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0
EB3	30-Jul-24	Turb	NTU	0.10	0.10	<0.10	<0.10	0.0
EB3	30-Jul-24	U-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0
EB3	30-Jul-24	V-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0
EB3	30-Jul-24	Zn-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0
EB3	30-Jul-24	Zr-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0
EB3	7-Aug-24	Ag-T	mg/L	0.000020	0.000020	<0.000020	<0.000020	0.0
EB3	7-Aug-24	Alk-PP	mg/L	1.0	1.0	<1.0	<1.0	0.0

Highlighted cells are greater than detection limits.

Appendix 1 - Tables

Table 42 Blanks 11 Page(s)

Field Blanks (FB), Trip Blanks (TB), Equipment Blanks (EB)								
Stn.Code 1	Date	Parameter Code	Units	Lab MDL 1	Lab MDL 2	Result 1	Result 2	Rel.% Diff.
EB3	7-Aug-24	Alk-T	mg/L	1.0	1.0	<1.0	<1.0	0.0
EB3	7-Aug-24	Al-T	mg/L	0.0030	0.0030	0.0031	0.0031	0.0
EB3	7-Aug-24	As-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0
EB3	7-Aug-24	Ba-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0
EB3	7-Aug-24	Be-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0
EB3	7-Aug-24	B-T	mg/L	0.050	0.050	<0.050	<0.050	0.0
EB3	7-Aug-24	Ca-T	mg/L	0.050	0.050	<0.050	<0.050	0.0
EB3	7-Aug-24	Cd-T	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0
EB3	7-Aug-24	Cl-D	mg/L	1.0	1.0	<1.0	<1.0	0.0
EB3	7-Aug-24	Co-T	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0
EB3	7-Aug-24	Cr-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0
EB3	7-Aug-24	Cu-T	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0
EB3	7-Aug-24	Fe-T	mg/L	0.010	0.010	<0.010	<0.010	0.0
EB3	7-Aug-24	Hard-T	mg/L	0.50	0.50	<0.50	<0.50	0.0
EB3	7-Aug-24	K-T	mg/L	0.050	0.050	<0.050	<0.050	0.0
EB3	7-Aug-24	Li-T	mg/L	0.0020	0.0020	<0.0020	<0.0020	0.0
EB3	7-Aug-24	Mg-T	mg/L	0.050	0.050	<0.050	<0.050	0.0
EB3	7-Aug-24	Mn-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0
EB3	7-Aug-24	Mo-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0
EB3	7-Aug-24	Na-T	mg/L	0.050	0.050	<0.050	<0.050	0.0
EB3	7-Aug-24	Ni-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0
EB3	7-Aug-24	Pb-T	mg/L	0.00020	0.00020	<0.00020	<0.00020	0.0
EB3	7-Aug-24	Sb-T	mg/L	0.00050	0.00050	<0.00050	<0.00050	0.0
EB3	7-Aug-24	Se-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0
EB3	7-Aug-24	Si-T	mg/L	0.10	0.10	<0.10	<0.10	0.0
EB3	7-Aug-24	Sn-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0
EB3	7-Aug-24	SO4-D	mg/L	1.0	1.0	<1.0	<1.0	0.0
EB3	7-Aug-24	Sr-T	mg/L	0.0010	0.0010	<0.0010	<0.0010	0.0
EB3	7-Aug-24	S-T	mg/L	3.0	3.0	<3.0	<3.0	0.0
EB3	7-Aug-24	Ti-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0
EB3	7-Aug-24	Tl-T	mg/L	0.000010	0.000010	<0.000010	<0.000010	0.0
EB3	7-Aug-24	Turb	NTU	0.10	0.10	0.11	0.11	0.0
EB3	7-Aug-24	U-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0
EB3	7-Aug-24	V-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0
EB3	7-Aug-24	Zn-T	mg/L	0.0050	0.0050	<0.0050	<0.0050	0.0
EB3	7-Aug-24	Zr-T	mg/L	0.00010	0.00010	<0.00010	<0.00010	0.0