

Mt Piper Power Station Monthly Environment Monitoring Data

Prepared by:
Mt Piper Environment Team

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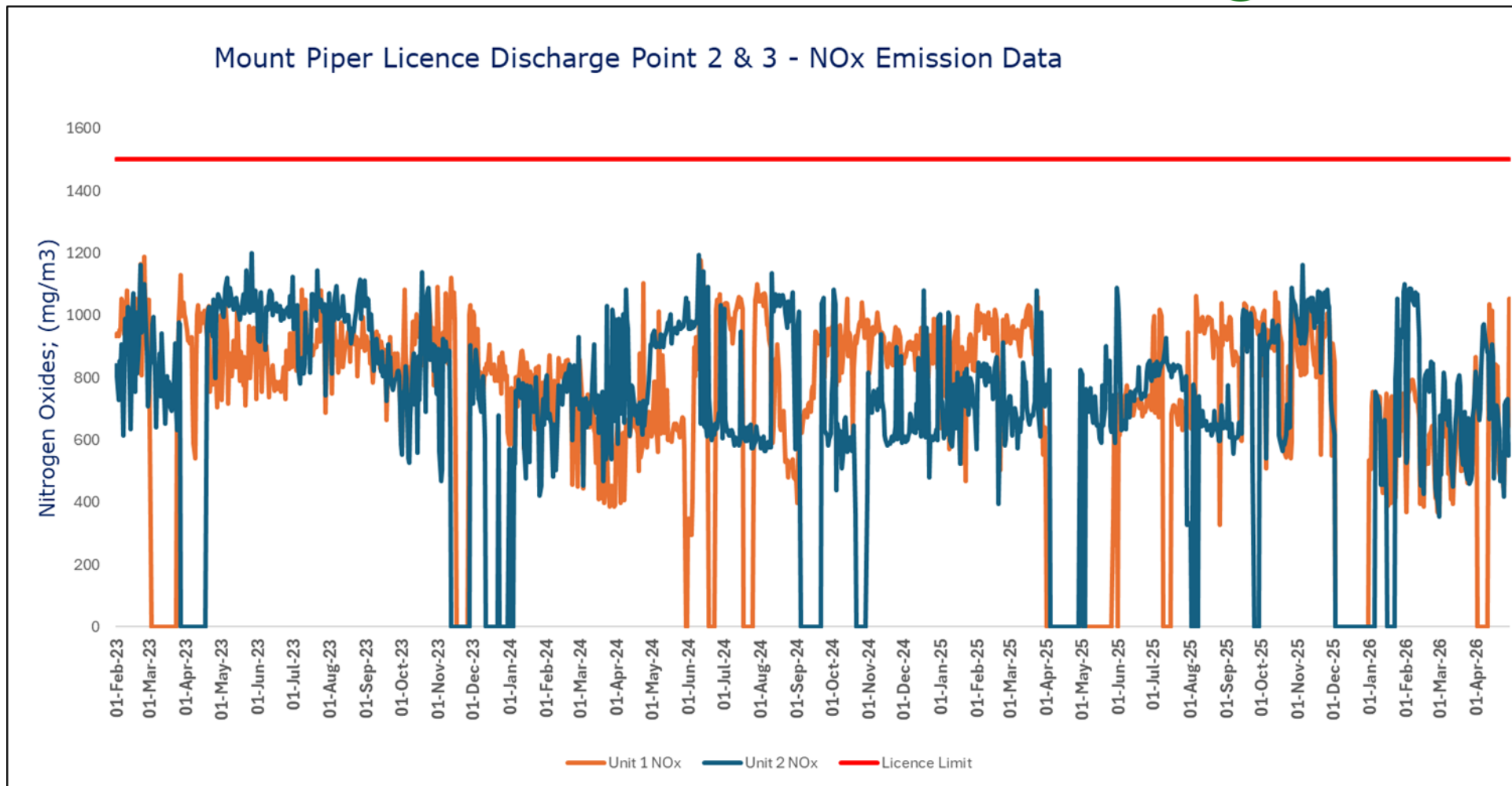
EPL Number: 13007
 EPL Holder: EnergyAustralia NSW
 EPL Name of Facility: MOUNT PIPER POWER STATION
 EPL Address of Facility: 350 BOULDER RD PORTLAND, NSW 2847
 EPL Website link: [Environment & Heritage | POEO Licences, Application and Notice Detail \(nsw.gov.au\)](https://www.environment.nsw.gov.au/epo/epo-licences-application-notice-detail)
 EPL Monitoring Locations: <https://www.energyaustralia.com.au/about-us/energy-generation/mt-piper-power-station/mt-piper-epa-reports>
 EPL Unit of measure abbreviations: <https://www.energyaustralia.com.au/about-us/energy-generation/mt-piper-power-station/mt-piper-epa-reports>
 EPL Period monitored: 1 – 30 April 2026
 Monthly Summary Status: Complete: monitoring data obtained.

Table 1: Compliance Summary:

Were all licence monitoring limits met:	YES
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Table 2: Details of any Licence Monitoring Limit not met:

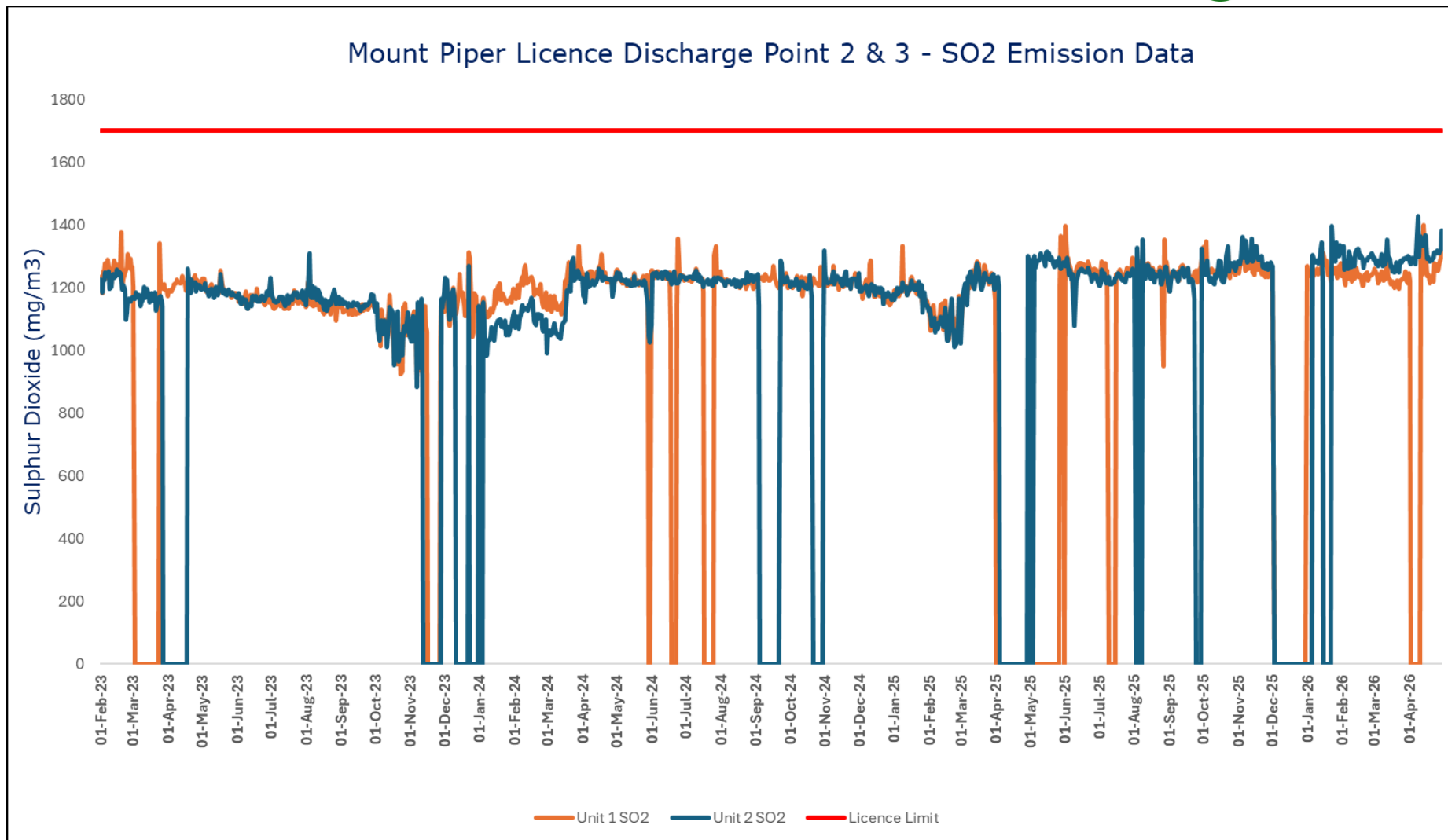
License Point #	Air/Water/Noise	Pollutant	Value measured	Licence limit	Comments
NIL	-	-	-	-	-



Note: Gap in data is due to periods when the unit was shut down, or the monitoring equipment was offline.

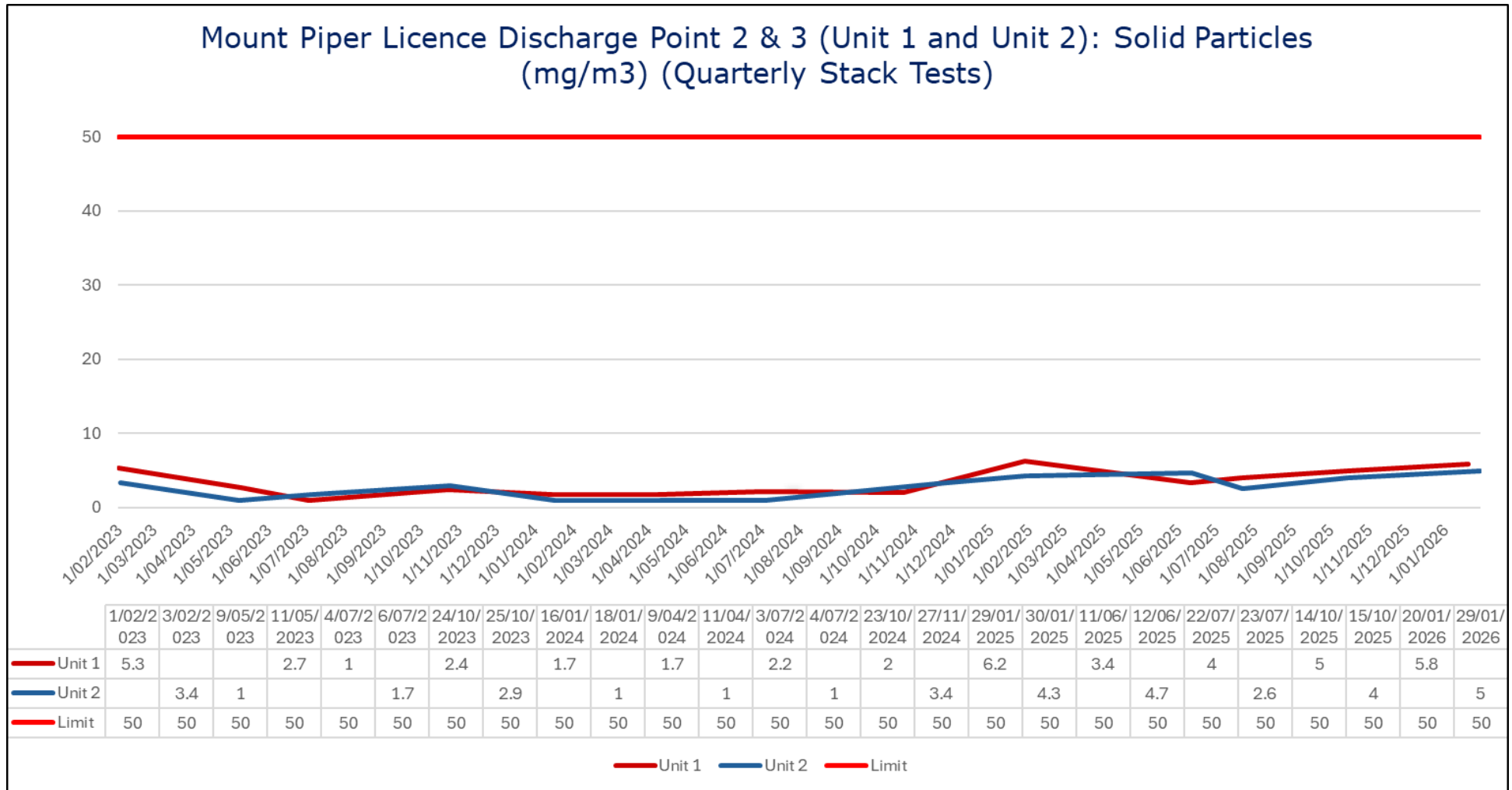
Source: Data is obtained from the Continuous Emission Monitoring System.

Figure 1: Nitrogen Dioxide (NO_x) Emission Data



Note: Gap in data is due to periods when the unit was shut down, or the monitoring equipment was offline.
 Source: Data is obtained from the Continuous Emission Monitoring System.

Figure 2: Sulphur Dioxide (SO₂) Emission Data



Note: Gap in data is due to periods when the unit was shut down, or the monitoring equipment was offline.

Source: Data is obtained from the Quarterly Stack Testing conducted by Ektimo.

Figure 3: Solid particles Emission Data

Discharge to Water

Table 3: Water Quality at EPL Point 12

2026	Samples required by EPL (1/mth during discharge)	No. of samples during month	Conductivity (µS/cm)		Oil & Grease (mg/L)		pH		Total Suspended Solids (mg/L)		Turbidity (NTU)		Compliant	Comment
			Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit		
January	1	2	343	500	<5	10	7.66	6.5-8.5	9.67	50	2.2	25	Yes	Flow / Discharge recorded week of 7/01/2026
			369		<5		7.46		10.33		9.7		Yes	Flow / Discharge recorded week of 21/01/2026
February	0	0	NR	500	NR	10	NR	6.5-8.5	NR	50	NR	25	Yes	Not sampled due to no flow / no discharge
March	1	2	313	500	<5	10	7.92	6.5-8.5	4.6	50	6.15	25	Yes	Flow / Discharge recorded week of 13/03/2026
			341		<5		7.84		21.7		13.4		Yes	Flow / Discharge recorded week of 25/03/2026
April	0	0	NR	500	NR	10	NR	6.5-8.5	NR	50	NR	25	Yes	Not sampled due to no flow / no discharge
May														
June														
July														
August														
September														
October														
November														
December														

Air Emissions

Table 4: Nitrogen Oxides (NOx) Monitoring at EPL Points 2 and 3

2026	No. of samples required by licence	EPL Point	Lowest sample value (mg/m ³ , hourly average)	Mean of sample (mg/m ³)	Highest sample value (mg/m ³ , hourly average)	Limit (mg/m ³ , hourly average)	99 th percentile			Compliant
							Limit (mg/m ³)	87 1-hr averaging periods/yr	1hr averaging periods > limit	
January	Continuous	2	225	418	754	1500	1,100	87	0	Yes
		3	221	498	1100			86	1	Yes
February	Continuous	2	222	432	794	1500	1,100	87	0	Yes
		3	263	549	1086			86	0	Yes
March	Continuous	2	229	403	693	1500	1,100	87	0	Yes
		3	270	444	817			86	0	Yes
April	Continuous	2	254	454	1053	1500	1,100	87	0	Yes
		3	297	524	972			86	0	Yes
May	Continuous	2				1500	1,100			
		3								
June	Continuous	2				1500	1,100			
		3								
July	Continuous	2				1500	1,100			
		3								
August	Continuous	2				1500	1,100			
		3								
September	Continuous	2				1500	1,100			
		3								
October	Continuous	2				1500	1,100			
		3								
November	Continuous	2				1500	1,100			
		3								
December	Continuous	2				1500	1,100			
		3								

Source: Data is obtained from Continuous Emission Monitoring System

Table 5: Sulphur Dioxides (SO₂) Monitoring at EPL Points 2 and 3

2026	No. of samples required by licence	EPL Point	Lowest sample value (mg/m ³ , hourly average)	Mean of sample (mg/m ³)	Highest sample value (mg/m ³ , hourly average)	Limit (mg/m ³ , hourly average)	99 th percentile			Compliant
							Limit (mg/m ³)	87 1-hr averaging periods/yr	1hr averaging periods > limit	
January	Continuous	2	1034	1213	1313	1700	1,400	87	0	Yes
		3	1104	1270	1396			87	0	Yes
February	Continuous	2	949	1194	1269	1700	1,400	87	0	Yes
		3	1139	1264	1332			87	0	Yes
March	Continuous	2	969	1185	1289	1700	1,400	87	0	Yes
		3	1088	1258	1354			87	0	Yes
April	Continuous	2	942	1179	1400	1700	1,400	87	0	Yes
		3	1106	1265	1429			87	0	Yes
May	Continuous	2				1700	1,400			
		3								
June	Continuous	2				1700	1,400			
		3								
July	Continuous	2				1700	1,400			
		3								
August	Continuous	2				1700	1,400			
		3								
September	Continuous	2				1700	1,400			
		3								
October	Continuous	2				1700	1,400			
		3								
November	Continuous	2				1700	1,400			
		3								
December	Continuous	2				1700	1,400			
		3								

Source: Data is obtained from the Continuous Emission Monitoring System

Table 6: Oxygen (O2), Temperature & Moisture Monitoring at EPL Points 2 and 3

2026	No. of samples required by licence	EPL Point	Oxygen			Temperature			Moisture		
			Lowest sample value (% , hourly average)	Mean of sample (%)	Highest sample value (% , hourly average)	Lowest sample value (°C, hourly average)	Mean of sample (°C)	Highest sample value (°C, hourly average)	Lowest sample value (H ₂ O, hourly average)	Mean of sample (H ₂ O)	Highest sample value (H ₂ O, hourly average)
January	Continuous	2	7.6	9.5	13.6	99	115	131	4.1	6.7	8.9
		3	8.0	10.3	14.4	88	112	133	4.2	6.5	9.4
February	Continuous	2	7.5	9.6	13.7	101	116	130	4.2	6.9	8.9
		3	8.5	10.3	14.5	101	113	135	4.2	6.8	8.7
March	Continuous	2	7.9	10.2	13.9	101	113	129	4.2	6.6	9.1
		3	8.6	11	14.6	100	111	130	4.2	6.5	8.9
April	Continuous	2	7.7	10.8	13.9	77	113	127	3.5	5.7	7.9
		3	8.7	11.2	15.8	83	109	125	3.5	5.8	8.1
May	Continuous	2									
		3									
June	Continuous	2									
		3									
July	Continuous	2									
		3									
August	Continuous	2									
		3									
September	Continuous	2									
		3									
October	Continuous	2									
		3									
November	Continuous	2									
		3									
December	Continuous	2									
		3									

Source: Data is obtained from the Continuous Emission Monitoring System

Table 7: Quarterly Stack Emissions Monitoring at EPL Points 2 and 3

2026	No. of samples required by EPL per year	EPL Point	Samples taken (year to date)	Result				Limit	Compliant
				Q1	Q2	Q3	Q4		
Solid Particles (mg/m ³)	4	2	1	5.8	TBC			50	Yes
		3	1	5.0	TBC				Yes

*TBC = To Be Confirmed (Sample has been collected, not yet received by EA at the time of publishing this report).

Table 8: Six Monthly Stack Emissions Monitoring at EPL Points 2 and 3

2026	No. of samples required by EPL per year	EPL Point	Samples taken (year to date)	Result		Limit	Compliant
				Jan - Jun	Jul - Dec		
Carbon Dioxide (%)	2	2	0	TBC		-	
		3	0	TBC		-	
Cadmium (mg/m ³)	2	2	1	0.0028		0.03	Yes
		3	1	0.00012			Yes
Mercury (mg/m ³)	2	2	1	0.00058		0.03	Yes
		3	1	≤0.00025			Yes
Type 1 and Type 2 substances in aggregate (mg/m ³)	2	2	1	≤0.024		0.60	Yes
		3	1	≤0.037			Yes
Hydrogen Chloride (mg/m ³)	2	2	0	TBC		50	
		3	0	TBC			
Fluorine (mg/m ³)	2	2	0	TBC		30	
		3	0	TBC			
Chlorine (mg/m ³)	2	2	0	TBC		4	
		3	0	TBC			
Sulfuric Acid Mist and Sulfur Trioxide as SO ₃ (mg/m ³)	2	2	0	TBC		100	
		3	0	TBC			
Volatile Organic Compounds as n-propane equivalent (mg/m ³)	2	2	0	TBC		8	
		3	0	TBC			

*TBC = To Be Confirmed (Sample has been collected, not yet received by EA at the time of publishing this report).

Mt Piper Power Station

Ambient Monitoring Data

- **Air Quality**
- **Thompsons Creek Reservoir Water Quality**

Table 9: Ambient Air Quality at Blackmans Flat, Wallerawang & Newnes Plateau

2026	No. of samples required by licence	Parameter	Blackmans Flat			Wallerawang			Newnes		
			Min Daily Reading	Monthly Average	Max Daily Reading	Min Daily Reading	Monthly Average	Max Daily Reading	Blank	Newnes1	Newnes2
January	Continuous	SO ₂ (pphm)	0.0	0.1	0.6	-0.2	0.1	0.4	<0.9	<0.9	<0.9
		NO ₂ (pphm)	0.1	0.3	0.6	0.1	0.3	0.6	<0.6	<0.6	<0.6
		PM2.5 (µg/mg ³)	2.0	5.4	10.5	0.7	5.8	9.6	NR	NR	NR
February	Continuous	SO ₂ (pphm)	0.0	0.1	0.2	0.0	0.1	0.3	<0.9	<0.9	<0.9
		NO ₂ (pphm)	0.1	0.4	0.7	0.1	0.3	0.7	<0.6	<0.6	<0.6
		PM2.5 (µg/mg ³)	1.6	4.3	7.7	0.0	4.2	9.0	NR	NR	NR
March	Continuous	SO ₂ (pphm)	0.0	0.0	0.1	-0.1	0.1	0.3	<0.9	<0.9	<0.9
		NO ₂ (pphm)	0.1	0.3	0.6	0.1	0.3	0.5	<0.6	<0.6	<0.6
		PM2.5 (µg/mg ³)	1.8	4.0	8.6	-0.8	3.1	8.7	NR	NR	NR
April	Continuous	SO ₂ (pphm)									
		NO ₂ (pphm)									
		PM2.5 (µg/mg ³)									
May	Continuous	SO ₂ (pphm)									
		NO ₂ (pphm)									
		PM2.5 (µg/mg ³)									
June	Continuous	SO ₂ (pphm)									
		NO ₂ (pphm)									
		PM2.5 (µg/mg ³)									
July	Continuous	SO ₂ (pphm)									
		NO ₂ (pphm)									
		PM2.5 (µg/mg ³)									
August	Continuous	SO ₂ (pphm)									
		NO ₂ (pphm)									
		PM2.5 (µg/mg ³)									
September	Continuous	SO ₂ (pphm)									
		NO ₂ (pphm)									
		PM2.5 (µg/mg ³)									
October	Continuous	SO ₂ (pphm)									
		NO ₂ (pphm)									
		PM2.5 (µg/mg ³)									
November	Continuous	SO ₂ (pphm)									
		NO ₂ (pphm)									
		PM2.5 (µg/mg ³)									
December	Continuous	SO ₂ (pphm)									
		NO ₂ (pphm)									
		PM2.5 (µg/mg ³)									

Source: Data is obtained from the Ambient Air Monthly Report.

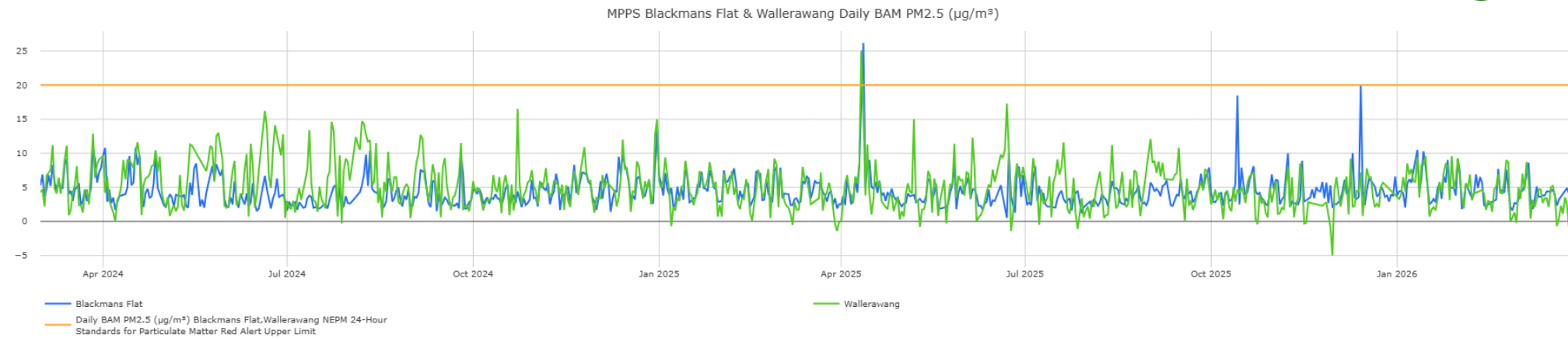


Figure 4: MPPS PM2.5 ($\mu\text{g}/\text{m}^3$) Daily Average

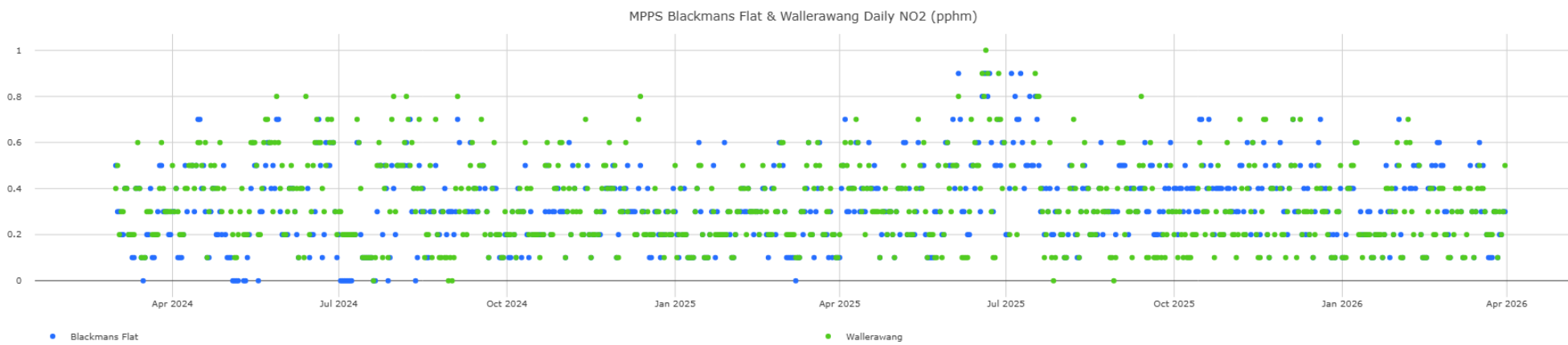


Figure 5: MPPS NO2 pphm Daily Average

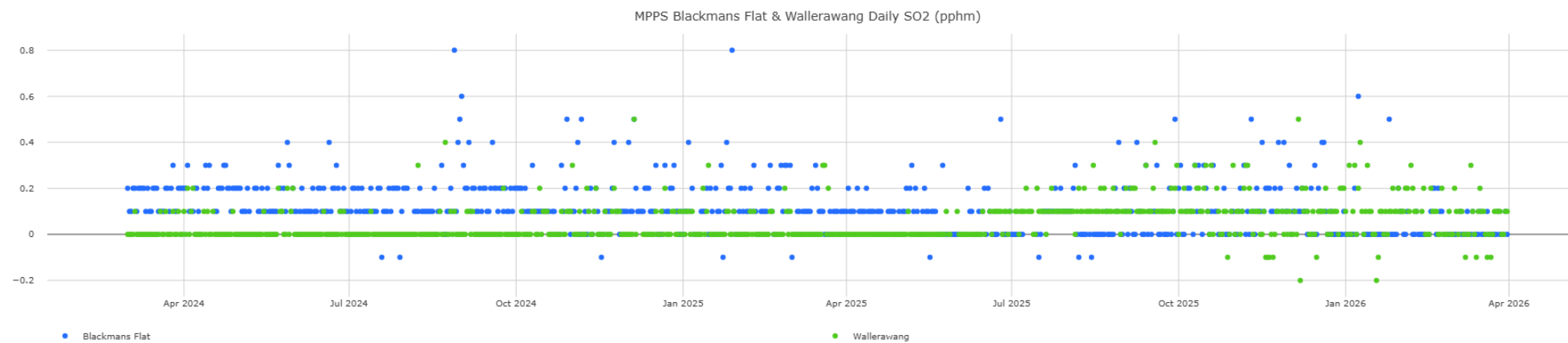


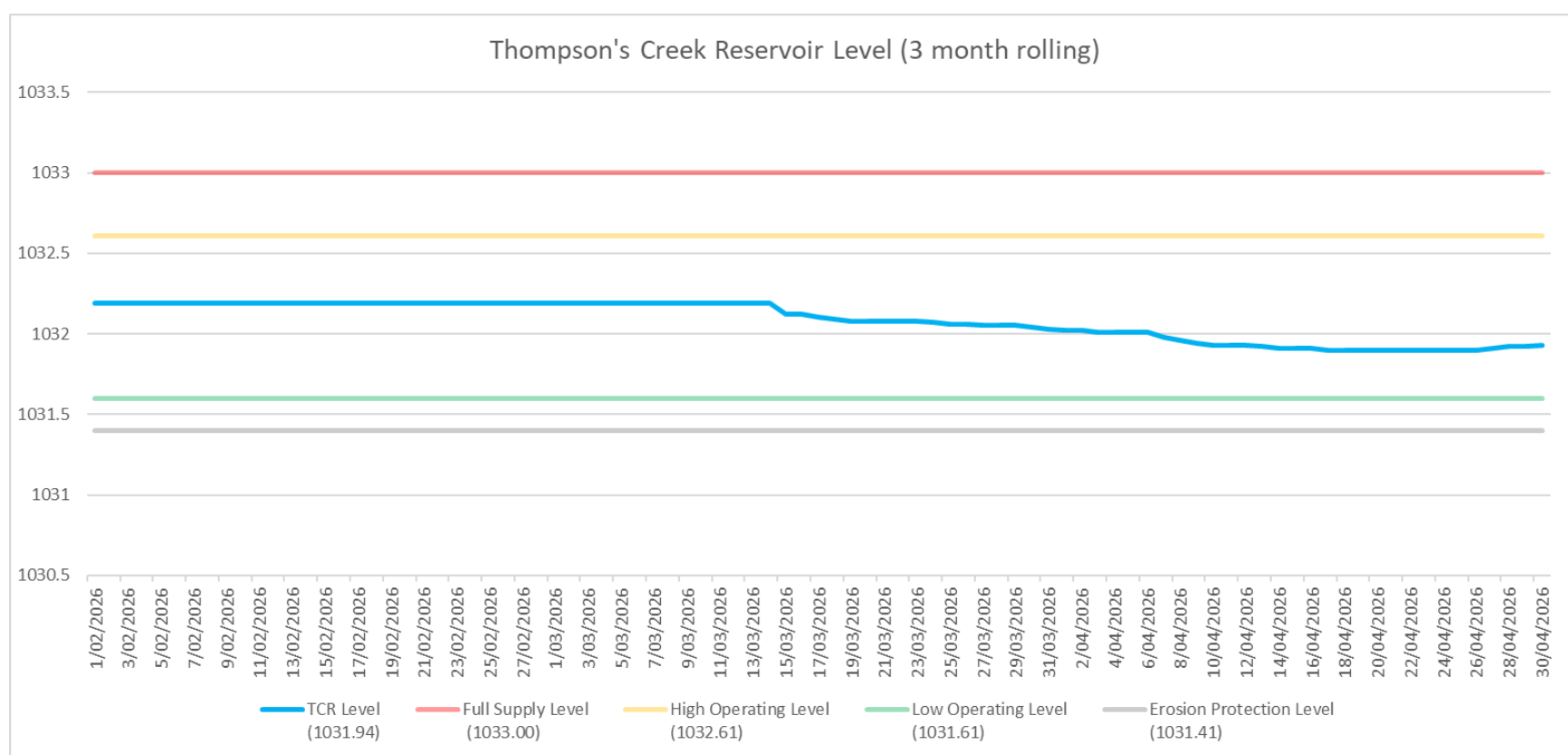
Figure 6: MPPS SO2 pphm Daily Average

Table 10: TCR Water Quality and TCR Riparian Release

2026	Electrical Conductivity (µS/cm)						TCR Riparian Release (ML/month)
	Thompsons Creek Reservoir*			TCR Riparian Release**			
	Lowest Sample Value	Mean Sample Value	Highest Sample Value	Lowest Sample Value	Mean Sample Value	Highest Sample Value	
January	472	477	496	481	487	498	190
February	467	482	500	469	484	499	529
March	478	480	485	485	488	491	584
April	475	477	485	466	471	473	381
May							
June							
July							
August							
September							
October							
November							
December							

Sampling Frequency: **Thompsons Creek Reservoir: Continuous Monitoring and ** TCR Riparian Release: Weekly Sampling
 **TCR Riparian Release = TCD 100 mm Riparian Release

Figure 7: TCR Water Level



Mt Piper Power Station

Water Monitoring Data

- **Ground Water**
- **Surface Water**

2026 Groundwater Pollution Monitoring Data (PED)			Bore MPG4_D10 EPA ID No.: 13				Bore_D102 EPA ID No.: 14				Bore_D103 EPA ID No.: 15				Bore_D104 EPA ID No.: 16				Bore_D105 EPA ID No.: 17				Bore_D106 EPA ID No.: 18				Bore_D107 EPA ID No.: 19			
Variable	Unit	Frequency	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Aluminium (dissolved)	mg/L	Quarterly	0.079				0.0025				0.0025				0.0025				0.0025				0.0025				0.0025			
Ammonia	mg/L	Quarterly	0.47				0.47				0.21				0.11				0.12				0.29				0.32			
Antimony (dissolved)	mg/L	Quarterly	0.0005				0.0005				0.002				0.0005				0.0005				0.0005				0.0005			
Arsenic (dissolved)	mg/L	Quarterly	0.006				0.0005				0.004				0.0005				0.0005				0.0005				0.006			
Arsenic (III)	mg/L	6-monthly	0.0039				0.0005				0.0032				0.0005				0.0005				0.0005				0.0041			
Arsenic (V)	mg/L	6-monthly	0.0015				0.0005				0.0005				0.0005				0.0005				0.0005				0.0012			
Barium (dissolved)	mg/L	Quarterly	0.015				0.018				0.017				0.047				0.014				0.017				0.015			
Beryllium (dissolved)	mg/L	Quarterly	0.001				0.0005				0.0005				0.0005				0.0005				0.0005				0.0005			
Bicarbonate alkalinity	mg/L	Quarterly	146				83				178				61				170				132				248			
Boron (dissolved)	mg/L	Quarterly	2.3				1.66				2.05				0.025				0.46				2.97				5.78			
Cadmium (dissolved)	mg/L	Quarterly	0.0008				0.00005				0.00005				0.0001				0.00005				0.0004				0.0008			
Calcium	mg/L	Quarterly	182				528				227				112				167				389				354			
Chloride (dissolved)	mg/L	Quarterly	354				904				272				100				203				864				808			
Chromium (dissolved)	mg/L	Quarterly	0.0005				0.0005				0.0005				0.0005				0.0005				0.0005				0.0005			
Chromium (hexavalent)	mg/L	6-monthly	0.0005				0.0005				0.0005				0.0005				0.0005				0.0005				0.0005			
Chromium (trivalent)	mg/L	6-monthly	0.0005				0.0005				0.0005				0.0005				0.0005				0.0005				0.0005			
Cobalt (dissolved)	mg/L	Quarterly	0.138				0.177				0.219				0.016				0.121				0.161				0.226			
Copper (dissolved)	mg/L	Quarterly	0.0005				0.0005				0.006				0.002				0.0005				0.006				0.021			
Cyanide (total)	mg/L	Quarterly	0.001				0.001				0.001				0.001				0.001				0.001				0.001			
Dissolved organic carbon	mg/L	Quarterly	2				6				1				0.5				0.5				6				5			
Electrical conductivity	µS/cm	Quarterly	5709				8751				4523				1460				2928				9150				10212			
Fluoride	mg/L	Quarterly	0.335				0.25				0.1				0.025				0.05				0.25				0.25			
Hardness (as calcium carbonate)	mg/L	Quarterly	1150				3180				1400				589				1050				2590				2470			
Iron	mg/L	Quarterly	8.6				47.2				20.1				11.4				20				12.3				18.8			
Iron (dissolved)	mg/L	Quarterly	8.65				37.7				19.6				6.71				13.4				9.72				18.6			
Lead (dissolved)	mg/L	Quarterly	0.006				0.0005				0.0005				0.0005				0.0005				0.0005				0.01			
Magnesium (dissolved)	mg/L	Quarterly	170				453				203				75				153				392				385			
Manganese (dissolved)	mg/L	Quarterly	4.02				12.6				11.2				3.4				8.85				8.74				9.27			
Mercury (dissolved)	mg/L	Quarterly	0.00002				0.00002				0.00002				0.00002				0.00002				0.00002				0.00002			
Molybdenum (dissolved)	mg/L	Quarterly	0.004				0.0005				0.0005				0.0005				0.0005				0.0005				0.0005			
Nickel (dissolved)	mg/L	Quarterly	0.55				1.5				0.931				0.066				0.517				1.33				1.39			
Nitrate	mg/L	Quarterly	0.005				0.005				0.005				0.02				0.005				1.51				0.005			
Nitrate + nitrite (oxidised nitrogen)	mg/L	Quarterly	0.005				0.005				0.005				0.02				0.005				1.55				0.005			
Nitrite	mg/L	Quarterly	0.005				0.005				0.005				0.005				0.005				0.04				0.005			
pH	pH	Quarterly	5.91				6.54				6.17				5.95				6.12				6.04				6.08			
Phosphorus (dissolved reactive)	mg/L	Quarterly	0.005				0.005				0.005				0.005				0.005				0.005				0.005			
Phosphorus (total)	mg/L	Quarterly	0.02				0.005				0.005				0.005				0.05				0.005				0.01			
Potassium	mg/L	Quarterly	120				75.4				39.8				10.9				20.7				113				261			
Selenium (dissolved)	mg/L	Quarterly	0.0002				0.0001				0.0001				0.0001				0.0001				0.0018				0.0001			
Silver (dissolved)	mg/L	Quarterly	0.00005				0.00005				0.00005				0.00005				0.00005				0.00005				0.00005			
Sodium	mg/L	Quarterly	976				1210				597				102				288				1530				1780			
Standing Water Level	m	Quarterly	14.3				3.2				7.5				4.5				6.8				1.7				3.4			
Sulfate (dissolved)	mg/L	Quarterly	2510				3780				2010				577				1170				4390				4770			
Total dissolved solids	mg/L	Quarterly	4890				8660				4050				1250				2580				8760				9800			
Vanadium (dissolved)	mg/L	Quarterly	0.0004				0.0008				0.0001				0.0001				0.0001				0.0005				0.0009			
Zinc (dissolved)	mg/L	Quarterly	0.388				0.052				0.144				0.064				0.04				0.236				0.301			

Table 11: 2026 EPL 13007 Groundwater Data

TBC (To Be Confirmed): Sample has been collected; analytical results are pending and will be reported once available.

2026 Continued Groundwater Pollution Monitoring Data (PED)			Bore_D113 EPA ID No.: 20				Bore MPGM4_D3 EPA ID No.: 21				Bore MPGM4_D1 EPA ID No.: 30				Bore MPGM4_D2 EPA ID No.: 31				Bore MPGM4_D4 EPA ID No.: 32				Bore MPGM4_D5 EPA ID No.: 33				Bore MPGM4_D8 EPA ID No.: 34			
Variable	Unit	Frequency	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Aluminium (dissolved)	mg/L	Quarterly	0.008				0.0025				0.0025				1.18				7.26				0.015				0.062			
Ammonia	mg/L	Quarterly	0.23				0.05				0.64				0.16				0.33				0.3				0.01			
Antimony (dissolved)	mg/L	Quarterly	0.0005				0.0005				0.0005				0.0005				0.0005				0.0005				0.0005			
Arsenic (dissolved)	mg/L	Quarterly	0.001				0.0005				0.006				0.0005				0.031				0.002				0.0005			
Arsenic (III)	mg/L	6-monthly	0.0005				0.0005				0.0067				TBC				TBC				TBC				0.0005			
Arsenic (V)	mg/L	6-monthly	0.0005				0.0005				0.0011				TBC				TBC				TBC				0.0005			
Barium (dissolved)	mg/L	Quarterly	0.01				0.106				0.019				0.019				0.015				0.019				0.033			
Beryllium (dissolved)	mg/L	Quarterly	0.0005				0.0005				0.0005				0.0005				0.002				0.002				0.0005			
Bicarbonate alkalinity	mg/L	Quarterly	162				215				195				36				0.5				69				8			
Boron (dissolved)	mg/L	Quarterly	2				0.025				3.23				0.36				0.025				0.07				0.025			
Cadmium (dissolved)	mg/L	Quarterly	0.0003				0.00005				0.00005				0.00005				0.0002				0.00005				0.00005			
Calcium	mg/L	Quarterly	171				75.2				396				45				12.3				102				25.3			
Chloride (dissolved)	mg/L	Quarterly	262				95.7				707				161				45.5				86.3				20.9			
Chromium (dissolved)	mg/L	Quarterly	0.0005				0.0005				0.0005				0.0005				0.0005				0.0005				0.0005			
Chromium (hexavalent)	mg/L	6-monthly	0.0005				0.0005				0.0005				0.005				0.005				0.0005				0.0005			
Chromium (trivalent)	mg/L	6-monthly	0.0005				0.0005				0.0005				0.005				0.005				0.0005				0.0005			
Cobalt (dissolved)	mg/L	Quarterly	0.144				0.0005				0.248				0.027				0.003				0.019				0.0005			
Copper (dissolved)	mg/L	Quarterly	0.0005				0.0005				0.007				0.005				0.002				0.0005				0.002			
Cyanide (total)	mg/L	Quarterly	0.001				0.001				0.001				0.001				0.001				0.001				0.001			
Dissolved organic carbon	mg/L	Quarterly	2				3				23				45				6				2				2			
Electrical conductivity	µS/cm	Quarterly	4656				1044				8759				1030	1661			610	624			1191	1167			357			
Fluoride	mg/L	Quarterly	0.1				0.088				0.25				0.333				0.103				0.473				0.01			
Hardness (as calcium carbonate)	mg/L	Quarterly	1020				398				2520				256				61.1				533				139			
Iron	mg/L	Quarterly	13.5				8.48				34.1				6.84				57.9				36.3				0.4			
Iron (dissolved)	mg/L	Quarterly	12.7				6				31.8				2.24				56.2				35.8				0.06			
Lead (dissolved)	mg/L	Quarterly	0.004				0.0005				0.0005				0.002				0.01				0.0005				0.0005			
Magnesium (dissolved)	mg/L	Quarterly	145				51				373				35				7.38				67.6				18.5			
Manganese (dissolved)	mg/L	Quarterly	5.32				0.455				14.6				1.61				0.598				7.41				0.034			
Mercury (dissolved)	mg/L	Quarterly	0.00002				0.00002				0.00002				0.00002				0.00002				0.00002				0.00002			
Molybdenum (dissolved)	mg/L	Quarterly	0.0005				0.0005				0.0005				0.0005				0.0005				0.0005				0.0005			
Nickel (dissolved)	mg/L	Quarterly	0.566				0.006				1.54				0.092				0.012				0.042				0.044			
Nitrate	mg/L	Quarterly	0.005				0.05				0.005				0.05				0.005				0.005				0.11			
Nitrate + nitrite (oxidised nitrogen)	mg/L	Quarterly	0.005				0.05				0.005				0.05				0.005				0.01				0.11			
Nitrite	mg/L	Quarterly	0.005				0.005				0.005				0.05				0.005				0.01				0.005			
pH	pH	Quarterly	6.01				6.34				5.99				6.08	6.02			3.51	3.5			5.89	5.9			5.37			
Phosphorus (dissolved reactive)	mg/L	Quarterly	0.005				0.005				0.005				0.005				0.005				0.005				0.005			
Phosphorus (total)	mg/L	Quarterly	0.01				0.01				0.005				0.05				0.005				0.005				0.03			
Potassium	mg/L	Quarterly	92.2				9.48				126				11.4				8.88				10.6				2.86			
Selenium (dissolved)	mg/L	Quarterly	0.0001				0.0001				0.0001				0.0005				0.0001				0.0001				0.0001			
Silver (dissolved)	mg/L	Quarterly	0.00005				0.00005				0.00005				0.00005				0.00005				0.00005				0.00005			
Sodium	mg/L	Quarterly	732				71.2				1380				118				19.5				33.6				14.1			
Standing Water Level	m	Quarterly	9.6				7.4				2.8				2.8	2.8			1.4	1.4			10.5	10.4			2.6			
Sulfate (dissolved)	mg/L	Quarterly	1920				188				4100				1130				567				1550				119			
Total dissolved solids	mg/L	Quarterly	3850				714				8590				745				603				1010	891			298			
Vanadium (dissolved)	mg/L	Quarterly	0.0004				0.0001				0.0011				0.0022				0.004				0.0001				0.0001			
Zinc (dissolved)	mg/L	Quarterly	0.254				0.011				0.121				0.06				0.112				0.01				0.059			

Table 12: 2026 EPL 13007 Groundwater Data continued

TBC (To Be Confirmed): Sample has been collected; analytical results are pending and will be reported once available.

2026 Continued Groundwater Pollution Monitoring Data (PED)			Bore MPGM4_D9 EPA ID No.: 35				Bore MPGM4_D15 EPA ID No.: 36				Bore MPGM4_D16A EPA ID No.: 37				Bore MPGM4_D19 EPA ID No.: 38				Bore_D110 EPA ID No.: 39				Bore_D117 EPA ID No.: 40				Bore_D119 EPA ID No.: 41			
Variable	Unit	Frequency	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Aluminium (dissolved)	mg/L	Quarterly	0.0025				0.0025				0.0025				0.005				0.006				0.897				0.0025			
Ammonia	mg/L	Quarterly	0.37				0.53				0.4				0.25				0.41				0.28				0.67			
Antimony (dissolved)	mg/L	Quarterly	0.0005				0.0005				0.0005				0.0005				0.0005				0.004				0.0005			
Arsenic (dissolved)	mg/L	Quarterly	0.004				0.008				0.008				0.001				0.004				0.001				0.008			
Arsenic (III)	mg/L	6-monthly	0.004				0.006				0.005				0.001				0.0056				0.0005				0.0005			
Arsenic (V)	mg/L	6-monthly	0.0005				0.0016				0.0005				0.0005				0.0013				0.0011				0.0005			
Barium (dissolved)	mg/L	Quarterly	0.02				0.022				0.067				0.011				0.016				0.027				0.018			
Beryllium (dissolved)	mg/L	Quarterly	0.0005				0.0005				0.0005				0.0005				0.0005				0.002				0.0005			
Bicarbonate alkalinity	mg/L	Quarterly	148				160				421				165				119				116				124			
Boron (dissolved)	mg/L	Quarterly	2.52				0.08				0.025				1.83				2.32				13.7				0.32			
Cadmium (dissolved)	mg/L	Quarterly	0.00005				0.00005				0.00005				0.00005				0.00005				0.0251				0.00005			
Calcium	mg/L	Quarterly	515				80.3				117				163				536				413				91.7			
Chloride (dissolved)	mg/L	Quarterly	83.7				82.5				17.5				267				943				125				98.9			
Chromium (dissolved)	mg/L	Quarterly	0.0005				0.0005				0.0005				0.0005				0.002				0.0005				0.0005			
Chromium (hexavalent)	mg/L	6-monthly	0.0005				0.0005				0.0005				0.0005				0.0005				0.0005				0.0005			
Chromium (trivalent)	mg/L	6-monthly	0.0005				0.0005				0.0005				0.0005				0.002				0.0005				0.0005			
Cobalt (dissolved)	mg/L	Quarterly	0.198				0.136				0.003				0.145				0.226				0.096				0.087			
Copper (dissolved)	mg/L	Quarterly	0.0005				0.0005				0.0005				0.0005				0.036				0.005				0.003			
Cyanide (total)	mg/L	Quarterly	0.001				0.001				0.001				0.001				0.001				0.001				0.001			
Dissolved organic carbon	mg/L	Quarterly	6				0.5				0.5				2				8				0.5				6			
Electrical conductivity	µS/cm	Quarterly	9326				2012				1042				4552				9213				4671				2112		2089	
Fluoride	mg/L	Quarterly	0.025				0.05				0.479				0.1				0.25				1.74				0.245			
Hardness (as calcium carbonate)	mg/L	Quarterly	3040				348				459				992				3180				1570				444			
Iron	mg/L	Quarterly	46.9				3.75				0.53				15.2				55				19.5				19.2			
Iron (dissolved)	mg/L	Quarterly	41.3				3.01				0.025				12.9				39.6				0.025				15.2			
Lead (dissolved)	mg/L	Quarterly	0.0005				0.0005				0.0005				0.003				0.002				0.001				0.002			
Magnesium (dissolved)	mg/L	Quarterly	426				35.8				40.5				142				446				132				52.1			
Manganese (dissolved)	mg/L	Quarterly	12.3				0.741				0.156				5.27				13.6				8.16				1.64			
Mercury (dissolved)	mg/L	Quarterly	0.00002				0.00002				0.00002				0.00002				0.00002				0.00002				0.00002			
Molybdenum (dissolved)	mg/L	Quarterly	0.0005				0.001				0.008				0.0005				0.007				0.288				0.006			
Nickel (dissolved)	mg/L	Quarterly	1.58				0.198				0.014				0.573				1.69				0.301				0.181			
Nitrate	mg/L	Quarterly	0.005				0.05				0.25				0.005				0.04				2.74				0.35			
Nitrate + nitrite (oxidised nitrogen)	mg/L	Quarterly	0.005				0.05				0.25				0.005				0.04				2.74				0.35			
Nitrite	mg/L	Quarterly	0.005				0.005				0.005				0.005				0.005				0.005				0.005			
pH	pH	Quarterly	6.17				6.09				7.57				6.02				6.11				6.12				6.17		5.99	
Phosphorus (dissolved reactive)	mg/L	Quarterly	0.005				0.005				0.005				0.005				0.005				0.005				0.005			
Phosphorus (total)	mg/L	Quarterly	0.08				0.005				0.02				0.01				0.01				0.06				2.45			
Potassium	mg/L	Quarterly	97.2				27				23.5				83.7				96				141				32.3			
Selenium (dissolved)	mg/L	Quarterly	0.0003				0.0004				0.0003				0.0001				0.0004				0.123				0.0008			
Silver (dissolved)	mg/L	Quarterly	0.00005				0.00005				0.00005				0.00005				0.00005				0.00005				0.00005			
Sodium	mg/L	Quarterly	1420				303				67.7				701				1380				497				261			
Standing Water Level	m	Quarterly	2.7				24.7				38.3				9.6				19.2				28.6				29.5		29.4	
Sulfate (dissolved)	mg/L	Quarterly	417				749				162				1950				4270				2240				803			
Total dissolved solids	mg/L	Quarterly	8980				1400				698				3560				9070				4580				1430			
Vanadium (dissolved)	mg/L	Quarterly	0.0029				0.001				0.001				0.0003				0.0015				0.0014				0.0003			
Zinc (dissolved)	mg/L	Quarterly	0.054				0.142				0.074				0.205				0.189				0.762				0.389			

Table 13: 2026 EPL 13007 Groundwater Data continued

TBC (To Be Confirmed): Sample has been collected; analytical results are pending and will be reported once available.

2025 Groundwater Pollution Monitoring Data (PED)			Bore MPGM4_D10 EPA ID No.: 13				Bore_D102 EPA ID No.: 14				Bore_D103 EPA ID No.: 15				Bore_D104 EPA ID No.: 16				Bore_D105 EPA ID No.: 17				Bore_D106 EPA ID No.: 18				Bore_D107 EPA ID No.: 19				Bore_D113 EPA ID No.: 20				Bore MPGM4_D3 EPA ID No.: 21			
Variable	Unit	Frequency	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Alkalinity (as calciumcarbonate)	mg/L	Quarterly	246	154	174	128	81	93	120	65	183	179	200	166	33	69	85	70	146	118	144	168	168	164	109	145	227	204	196	235	161	151	164	160	323	245	30	120
Aluminium	mg/L	Quarterly	0.715	0.342	0.117	0.073	0.268	0.053	0.054	0.128	0.032	0.058	0.085	0.121	0.031	0.266	0.21	2.52	<0.005	0.136	0.251	0.005	0.034	2.18	3.03	0.105	0.028	0.18	0.059	0.123	<0.005	<0.005	0.47	0.021	0.011	0.022	0.125	0.057
Ammonia	mg/L	Quarterly	30.3	4.73	9.62	1.04	0.35	0.28	0.35	0.36	0.21	0.26	0.24	0.23	0.12	0.11	0.1	0.21	0.12	0.5	0.33	0.13	0.51	0.47	0.38	0.31	0.31	0.39	0.12	0.41	0.21	0.21	0.2	0.23	0.01	0.09	0.01	0.08
Antimony	mg/L	Quarterly	0.002	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	0.002	0.002	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Arsenic	mg/L	Quarterly	0.007	0.005	0.002	0.005	0.002	0.002	0.001	0.002	0.005	0.01	0.008	0.004	0.002	0.012	0.038	0.001	0.04	0.01	<0.001	0.003	0.025	0.004	0.003	0.007	0.014	0.007	0.015	0.001	<0.001	0.003	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium	mg/L	Quarterly	0.031	0.022	0.023	0.015	0.028	0.02	0.02	0.023	0.018	0.018	0.02	0.021	0.074	0.066	0.076	0.179	0.015	0.018	0.02	0.018	0.022	0.043	0.025	0.023	0.021	0.021	0.016	0.022	0.013	0.012	0.018	0.012	0.199	0.135	0.058	0.085
Beryllium	mg/L	Quarterly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bicarbonate alkalinity	mg/L	Quarterly	246	154	174	128	81	93	120	65	183	179	200	166	33	69	85	70	146	118	144	168	168	164	109	145	227	204	196	235	161	151	164	160	323	245	30	120
Boron	mg/L	Quarterly	1.72	3.04	1.56	2.29	1.32	1.26	1.21	1.29	2.01	1.93	1.92	1.93	0.24	0.12	0.11	0.08	0.55	0.84	0.81	0.34	3.05	3.37	2.08	2.14	5.44	4.12	3.52	4.54	2.19	2.03	1.69	2.02	<0.05	0.08	0.16	0.09
Cadmium	mg/L	Quarterly	0.0002	0.0012	<0.0001	0.0008	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0001	<0.0001	0.0004	0.0003	0.0009	0.0004	0.0003	0.001	0.0002	0.0003	0.0008	0.0002	<0.0001	<0.0001	<0.0001	<0.0001
Calcium	mg/L	Quarterly	147	215	130	236	514	484	495	508	190	194	200	216	124	62.9	65	76.1	151	179	206	146	378	412	354	348	328	337	351	357	170	169	171	163	60.9	52.1	10.2	79.6
Carbonate	mg/L	Quarterly	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride	mg/L	Quarterly	320	471	293	446	1530	1110	1360	1260	302	274	355	279	122	85.2	82.1	87.8	245	273	319	184	1180	1050	1210	1150	1060	839	998	857	360	314	331	306	184	170	29.9	37.7
Chromium	mg/L	Quarterly	0.002	0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (hexavalent)	mg/L	Quarterly	0.002	0.004	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium (trivalent)	mg/L	Quarterly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt	mg/L	Quarterly	0.12	0.213	0.09	0.205	0.197	0.199	0.172	0.186	0.217	0.224	0.213	0.22	0.01	0.012	0.01	0.014	0.136	0.168	0.159	0.113	0.258	0.314	0.179	0.204	0.23	0.196	0.151	0.247	0.164	0.162	0.116	0.143	<0.001	<0.001	<0.001	0.001
Copper	mg/L	Quarterly	0.011	0.012	0.003	0.002	0.004	<0.001	<0.001	0.005	<0.001	0.002	<0.001	0.005	0.003	0.004	0.004	<0.001	0.003	0.004	0.007	0.002	0.002	0.003	0.018	0.009	0.002	0.003	0.022	0.002	0.004	0.001	0.002	0.018	0.005	0.002	0.005	<0.001
Dissolved Oxygen	µs/cm	Quarterly	2.2	2.2	2.8	2.8	3.3	3	1.9	2.5	2.4	3.8	2.5	2.5	3.8	2.9	2.6	3.8	3.4	4.2	3	4.3	1.9	3.3	3.8	2.2	5.4	3	3.7	3.2	2.5	2.9	3.2	4.4	5.6	3.3	6.4	2.4
Electrical Conductivity	mg/L	Quarterly	5253	7302	4771	7925	8959	8685	8985	8852	4321	4256	4431	4412	1686	1035	1068	1166	2996	3455	3566	2790	10392	10602	9531	9104	10480	9353	9147	10765	5086	4974	4693	4513	1213	971	258	954
Iron	mg/L	Quarterly	10.5	12.2	10.9	11	62.5	71.9	69.1	70.2	18.5	24.2	21.9	22.2	12.6	7.81	11	34.8	23.1	57.5	32.6	18.9	25	82.8	25.9	20	23.8	28.4	10.9	27.4	14.1	12.5	8.59	16.2	0.07	0.71	0.35	5.57
Lead	mg/L	Quarterly	0.014	0.022	0.009	0.01	0.004	<0.001	<0.001	0.002	<0.001	<0.001	0.001	<0.001	0.001	0.002	<0.001	0.015	<0.001	0.015	0.005	<0.001	0.002	0.023	0.014	0.003	0.012	0.016	0.01	0.026	0.004	0.002	0.01	0.006	<0.001	0.001	0.001	<0.001
Magnesium	mg/L	Quarterly	140	219	127	227	493	429	436	438	197	181	181	197	82.8	41.5	42.3	52.5	153	156	168	140	468	427	390	388	411	339	337	395	162	144	140	137	52.7	42.9	8.63	44.4
Manganese	mg/L	Quarterly	3.39	5.98	3.28	6.76	13.7	13.2	13.1	14.4	10.8	10.7	11.7	12.7	3.55	2.02	1.94	2.55	9.56	11.1	12.2	8.7	14.3	13.4	11.3	12.5	10	8.84	7.99	10.2	6.21	5.74	4.45	5.61	0.026	0.203	0.044	1.39
Mercury	mg/L	Quarterly	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004
Molybdenum	mg/L	Quarterly	0.034	0.017	0.005	0.007	0.002	<0.001	0.001	<0.001	<0.001	0.002	0.003	<0.001	<0.001	<0.001	0.001	0.003	<0.001	0.002	0.003	<0.001	<0.001	0.002	<0.001	<0.001	0.002	0.003	0.002	<0.001	<0.001	0.007	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Nickel	mg/L	Quarterly	0.465	0.831	0.398	0.794	1.55	1.56	1.38	1.5	0.872	0.915	0.875	0.917	0.056	0.058	0.048	0.071	0.534	0.645	0.618	0.475	1.76	2.01	1.32	1.41	1.42	1.3	1.06	1.5	0.653	0.66	0.518	0.545	0.011	0.02	0.006	0.025
Nitrate	mg/L	Quarterly	0.02	<0.01	<0.01	<0.01	0.01	<0.01	<0.10	<0.10	<0.01	0.02	0.02	<0.01	0.04	0.02	0.01	0.01	<0.01	0.01	0.02	<0.01	<0.01	<0.01	1.27	0.05	0.01	<0.01	0.26	0.01	0.01	0.11	0.36	<0.01	0.08	0.14	<0.01	<0.01
Nitrate + nitrite(oxidised nitrogen)	mg/L	Quarterly	0.02	<0.01	0.22	0.02	0.01	<0.01	<0.10	<0.10	<0.01	0.02	0.02	<0.01	0.04	0.02	0.01	0.01	<0.01	0.01	0.02	<0.01	<0.01	<0.01	1.39	0.07	0.01	<0.01	0.29	0.01	0.01	0.11	0.36	<0.01	0.08	0.16	<0.01	0.01
Nitrite	pH	Quarterly	<0.01	<0.01	0.22	0.02	<0.01	<0.01	<0.10	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01</																		

2024 Groundwater Pollution Monitoring Data (PED)			Bore MPMG4 D10 EPA ID No.: 13				Bore D102 EPA ID No.: 14				Bore D103 EPA ID No.: 15				Bore D104 EPA ID No.: 16				Bore D105 EPA ID No.: 17				Bore D106 EPA ID No.: 18				Bore D107 EPA ID No.: 19				Bore D113 EPA ID No.: 20				Bore MPMG4 D3 EPA ID No.: 21			
Variable	Unit	Frequency	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Alkalinity (as calciumcarbonate)	mg/L	Quarterly	131	144	148	157	63	58	79	117	215	205	214	207	74	47	71	71	122	146	135	166	180	175	176	182	233	238	248	254	169	167	171	175	179	58	89	162
Aluminium	mg/L	Quarterly	0.11	0.079	0.091	0.07	0.01	0.06	0.114	0.063	0.05	0.12	0.049	0.093	0.15	0.13	0.197	0.119	0.04	0.03	0.024	0.037	0.07	0.42	0.581	0.151	0.02	0.03	0.021	0.025	0.05	0.06	0.11	0.019	0.01	<0.01	0.008	0.013
Ammonia	mg/L	Quarterly	0.42	0.42	0.4	0.41	0.26	0.56	0.27	0.38	0.16	0.19	0.17	0.2	0.11	0.1	0.09	0.01	0.12	0.13	0.1	0.12	0.37	0.41	0.41	0.48	0.38	0.46	0.41	0.38	0.21	0.19	0.24	0.07	<0.01	0.03	<0.01	0.07
Antimony	mg/L	Quarterly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Arsenic	mg/L	Quarterly	0.003	0.003	0.002	0.003	0.001	<0.001	0.001	0.001	0.003	0.007	0.005	0.005	0.008	0.004	0.005	0.002	0.003	0.002	0.001	0.002	0.002	0.005	0.002	0.002	0.003	0.005	0.006	0.006	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium	mg/L	Quarterly	0.017	0.016	0.017	0.016	0.024	0.026	0.026	0.022	0.016	0.018	0.017	0.018	0.099	0.099	0.094	0.069	0.017	0.015	0.016	0.017	0.019	0.024	0.019	0.019	0.019	0.016	0.018	0.018	0.011	0.012	0.019	0.011	0.081	0.056	0.071	0.053
Beryllium	mg/L	Quarterly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bicarbonate alkalinity	mg/L	Quarterly	131	144	148	157	63	58	79	117	215	205	214	207	74	47	71	71	122	146	135	166	180	175	176	182	233	238	248	254	169	167	171	175	179	58	89	162
Boron	mg/L	Quarterly	3.12	3.63	2.95	4.45	1.14	1.29	1.25	1.2	1.54	1.8	1.66	1.71	0.06	0.07	0.12	0.06	0.71	0.55	0.49	0.49	2.3	2.96	2.4	2.35	5.05	5.05	5.39	5.48	1.48	2.08	1.99	1.95	0.08	<0.05	0.21	0.22
Cadmium	mg/L	Quarterly	0.0004	0.0009	0.001	0.0017	<0.0001	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0014	0.0012	0.0012	0.0011	0.0001	0.0002	0.0003	0.0002	<0.0001	<0.0001	<0.0001
Calcium	mg/L	Quarterly	264	291	283	308	523	488	561	526	175	181	175	191	82.7	84.8	65.4	67.6	181	163	150	161	481	478	464	420	403	381	372	359	159	179	198	218	79.8	28.6	25.5	75.9
Carbonate	mg/L	Quarterly	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride	mg/L	Quarterly	602	635	675	673	1160	1140	1030	1130	219	240	216	251	75.5	81.2	84.4	83.2	250	221	192	219	1300	1150	1130	1040	1250	1090	814	930	254	307	289	352	84.4	37.2	72.1	65.5
Chromium	mg/L	Quarterly	0.001	<0.001	<0.001	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.007	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	0.003	0.002	<0.001	<0.001	0.002	0.003	0.003	0.003	0.001	<0.001	<0.001	<0.001
Chromium (hexavalent)	mg/L	Quarterly	<0.01	<0.001	<0.001	<0.001	<0.01	<0.01	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.001	<0.01	<0.01	<0.01	<0.001	<0.01
Chromium (trivalent)	mg/L	Quarterly	<0.01	<0.001	<0.001	<0.001	<0.01	<0.01	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.001	<0.01	<0.01	<0.01	<0.001	<0.01
Cobalt	mg/L	Quarterly	0.231	0.25	0.253	0.276	0.212	0.178	0.208	0.2	0.183	0.178	0.192	0.205	0.016	0.011	0.016	0.014	0.167	0.119	0.13	0.136	0.346	0.294	0.302	0.277	0.353	0.226	0.268	0.257	0.128	0.134	0.161	0.171	0.001	<0.001	<0.001	<0.001
Copper	mg/L	Quarterly	<0.001	0.001	0.007	0.002	<0.001	0.004	0.006	0.002	<0.001	0.001	0.003	0.002	0.002	0.002	0.007	0.002	<0.001	<0.001	0.001	0.002	<0.001	0.005	0.003	0.004	0.001	<0.001	0.002	0.004	<0.001	0.011	0.002	0.002	<0.001	0.002	<0.001	<0.001
Dissolved Oxygen	µS/cm	Quarterly	1.4	1	1.7	1	2.5	4.5	2.9	2	1.1	1.7	1.4	1.8	1.3	1.3	2.4	2.5	1.3	2.2	1.3	1.5	1.5	2.3	1.7	2.2	1.1	2	1.4	3.1	1.2	1.3	3.8	1.4	1.7	3.2	5.8	1.5
Electrical Conductivity	mg/L	Quarterly	8260	9333	9562	11405	8550	9490	9018	8965	3660	4370	3860	4103	1210	1320	992	1094	3210	3380	2862	3020	11640	13320	11469	10625	13290	13630	11733	11091	4320	5360	4940	5478	1010	461	527	1081
Iron	mg/L	Quarterly	9.14	6.99	7.68	6.71	50	38.9	53.8	69.8	9.83	20.1	14.7	21.7	13.3	10	4.59	1.11	21	23.8	18.4	25.7	24.6	31.2	21.9	26.8	21.9	21.7	17.5	22.6	8.38	13.1	11.3	16	10.4	1.29	0.3	7.16
Lead	mg/L	Quarterly	0.009	0.011	0.011	0.029	<0.001	<0.001	0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	0.001	0.007	0.002	0.002	0.002	0.015	0.012	0.013	0.013	0.003	0.003	0.006	0.003	0.003	<0.001	<0.001	<0.001
Magnesium	mg/L	Quarterly	288	314	303	329	474	452	483	464	171	176	176	184	54.5	57.8	45.7	46.5	168	157	152	156	588	567	542	484	528	472	455	423	138	156	174	190	50.4	20	20.3	44.9
Manganese	mg/L	Quarterly	6.66	6.96	7.18	8.68	14.7	15.2	13.7	16	9.81	10.5	9.44	12.2	2.64	2.82	2.3	2.29	12	10	8.95	11.1	18.2	17.8	15.9	16.6	13.3	11.3	10.5	12.3	5.18	6.63	6.33	8.07	0.678	0.107	0.046	0.678
Mercury	mg/L	Quarterly	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	0.00007	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004
Molybdenum	mg/L	Quarterly	0.007	0.008	0.008	0.009	<0.001	0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Nickel	mg/L	Quarterly	0.895	1.02	1.02	1.13	1.6	1.36	1.62	1.57	0.704	0.695	0.762	0.816	0.055	0.043	0.055	0.067	0.607	0.452	0.529	0.546	2.21	1.99	2.04	1.85	2.03	1.37	1.63	1.55	0.485	0.507	0.621	0.667	0.011	0.003	0.006	0.006
Nitrate	mg/L	Quarterly	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.04	0.02	0.04	0.06	<0.01	<0.01	0.02	0.02	0.01	<0.01	0.02	0.03	0.02	<0.01	0.01	<0.01	<0.01	<0.01	0.06	<0.01	0.02	0.03	0.04	0.01
Nitrate + nitrite(oxidised nitrogen)	mg/L	Quarterly	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.07	0.02	0.04	0.06	<0.01	<0.01	0.02	0.02	0.01	<0.01	0.02	0.03	0.02	<0.01	0.01	<0.01	<0.01	<0.01	0.06	<0.01	0.02	0.03	0.04	0.01
Nitrite	pH	Quarterly	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<																			

2023 Groundwater Pollution Monitoring Data (PED)			Bore MPMG4 D10 EPA ID No.: 13				Bore D102 EPA ID No.: 14				Bore D103 EPA ID No.: 15				Bore D104 EPA ID No.: 16				Bore D105 EPA ID No.: 17				Bore D106 EPA ID No.: 18				Bore D107 EPA ID No.: 19				Bore D113 EPA ID No.: 20				Bore MPMG4 D3 EPA ID No.: 21			
Variable	Unit	Frequency	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Alkalinity (as calciumcarbonate)	mg/L	Quarterly	134	199	205	163	104	104	70	110	98	232	239	252	228	140	65	90	85	158	140	155	151	216	186	192	196	268	238	249	252	183	158	171	180	168	129	178
Aluminium	mg/L	Quarterly	0.1	0.04	0.06	0.12	0.04	0.02	0.11	0.04	0.92	0.06	0.26	0.13	0.21	0.18	0.31	0.02	0.03	<0.01	0.02	0.02	0.05	0.02	1.76	0.65	0.03	<0.01	0.1	0.04	0.19	0.05	0.3	0.08	0.01	<0.01	0.02	0.02
Ammonia	mg/L	Quarterly	0.36	0.37	0.41	0.43	0.3	0.34	0.31	0.23	0.24	0.16	0.18	0.27	0.2	0.1	0.12	0.04	0.26	0.28	0.13	0.17	0.36	0.36	0.4	0.31	0.39	0.42	0.48	0.35	0.25	0.3	0.25	0.24	0.08	0.08	0.12	0.09
Antimony	mg/L	Quarterly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Arsenic	mg/L	Quarterly	0.01	0.004	0.007	0.002	<0.001	<0.001	0.001	<0.001	0.009	0.004	0.006	0.004	0.032	0.011	0.008	0.004	0.002	<0.001	0.002	<0.001	0.002	0.005	0.002	0.007	0.006	0.008	0.004	0.001	0.001	0.001	0.006	<0.001	0.001	<0.001	0.001	<0.001
Barium	mg/L	Quarterly	0.021	0.022	0.022	0.019	0.024	0.021	0.025	0.021	0.024	0.014	0.017	0.016	0.154	0.178	0.192	0.122	0.018	0.016	0.023	0.015	0.022	0.017	0.041	0.02	0.02	0.016	0.024	0.017	0.014	0.011	0.018	0.013	0.085	0.028	0.068	0.046
Beryllium	mg/L	Quarterly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bicarbonate alkalinity	mg/L	Quarterly	134	199	205	163	104	104	70	110	98	232	239	252	228	140	65	90	85	158	140	155	151	216	186	192	196	268	238	249	252	183	158	171	180	168	129	178
Boron	mg/L	Quarterly	2.62	2.81	3.05	5.44	1.39	1.36	1.39	1.22	1.67	1.64	1.78	1.62	<0.05	<0.05	0.13	<0.05	0.54	0.52	0.8	0.51	2.61	1.84	1.99	1.9	5.41	5.35	6.14	5.02	1.69	1.69	1.78	1.86	0.07	<0.05	<0.05	<0.05
Cadmium	mg/L	Quarterly	0.0003	<0.0001	<0.0001	0.0003	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Calcium	mg/L	Quarterly	220	243	261	346	522	512	548	522	158	143	154	168	68.3	104	68.2	65.2	164	164	168	175	568	497	511	492	382	373	389	390	148	180	187	201	70.5	70.2	85.1	79.2
Carbonate	mg/L	Quarterly	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloride	mg/L	Quarterly	516	555	614	962	1520	1070	1020	1040	205	180	180	203	31.3	76.2	60.6	68.4	236	221	216	220	1680	1410	1320	1290	1730	1170	1190	1120	226	289	309	313	89.2	40.2	68.7	52.5
Chromium	mg/L	Quarterly	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	0.008	0.001	<0.001	0.003	0.008	0.016	0.015	0.234	0.011	<0.001	<0.001	<0.001	0.001	<0.001
Chromium (hexavalent)	mg/L	Quarterly	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium (trivalent)	mg/L	Quarterly	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt	mg/L	Quarterly	0.269	0.206	0.212	0.274	0.229	0.211	0.244	0.199	0.167	0.156	0.169	0.169	0.049	0.055	0.048	0.027	0.143	0.148	0.159	0.144	0.332	0.328	0.342	0.312	0.304	0.304	0.326	0.288	0.114	0.157	0.168	0.167	0.01	<0.001	0.002	<0.001
Copper	mg/L	Quarterly	<0.001	<0.001	0.011	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	0.002	0.006	0.004	<0.001	<0.001	<0.001	0.001	0.004	0.01	0.003	<0.001	0.005	<0.001	0.001	0.001	0.001	0.013	<0.001	0.006	0.001	0.013	<0.001
Dissolved Oxygen	mg/L	Quarterly	1	0.8	0.7	0.8	1.9	2.2	1.8	1.7	1.4	2	1.4	1.5	1.4	1.9	1.8	1.7	1	1.1	1.3	1	1.7	1.1	1.7	1.2	1	1.3	1.4	1.3	0.7	1	1.3	0.6	1.8	0.7	1.7	1.2
Electrical Conductivity	µS/cm	Quarterly	7120	8210	8250	11330	8610	8500	8750	8520	3560	3360	3440	3580	750	1280	930	970	2960	3070	3120	3120	13100	12670	12260	11850	12720	12680	12520	12240	3600	4570	4620	4830	1010	870	1020	930
Iron	mg/L	Quarterly	9.84	6.19	9.6	5.83	49.9	34.6	58.4	49.6	15.5	11	18.7	14.5	18.7	9.47	9.17	2.42	21.9	17.4	27.3	21.5	31.8	21.8	43.3	28.1	21.4	19.3	28.7	21.4	8.68	10.2	14.9	12.1	10.8	6.59	10.4	8.8
Lead	mg/L	Quarterly	0.007	<0.001	0.005	0.011	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	<0.001	0.007	0.002	0.01	0.009	0.014	0.012	0.003	0.002	0.003	0.003	0.003	<0.001	<0.001	<0.001
Magnesium	mg/L	Quarterly	228	252	279	395	475	452	483	480	154	133	149	162	27.5	57.4	38.4	40	158	151	162	165	690	616	634	612	544	497	520	510	124	147	159	168	45	38.6	52.1	45.8
Manganese	mg/L	Quarterly	7.31	6.33	6.48	10.4	14.3	14.2	14.4	13.6	8.35	7.99	7.92	8.83	3.89	3.58	4.16	2.43	9.91	10.2	10.5	10.1	20	19.4	18.2	17.6	13.1	12.5	11.8	4.63	6.26	6.14	6.53	0.665	0.655	0.581	0.686	0.686
Mercury	mg/L	Quarterly	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	0.00005	<0.00004	0.0001	<0.00004	0.00007	<0.00004	0.00007	0.00011	0.00005	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004
Molybdenum	mg/L	Quarterly	0.006	0.011	0.015	0.011	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	<0.001	0.002	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.008	<0.001	<0.001	<0.001	<0.001	<0.001
Nickel	mg/L	Quarterly	0.864	0.81	0.845	1.21	1.5	1.42	1.66	1.43	0.606	0.568	0.647	0.648	0.124	0.194	0.088	0.06	0.524	0.541	0.586	0.542	2.1	2.2	2.14	2.04	1.79	1.77	1.89	1.69	0.361	0.538	0.692	0.601	0.016	0.008	0.008	0.006
Nitrate	mg/L	Quarterly	<0.01	<0.01	<0.01	<0.01	<0.01	<0.10	<0.01	<0.01	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrate + nitrite(oxidised nitrogen)	mg/L	Quarterly	<0.01	<0.01	<0.01	<0.01	<0.01	<0.10	<0.01	<0.01	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.04	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrite	mg/L	Quarterly	<0.01	<0.01	<0.01	<0.01	<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<																									

2026 Surface Water Pollution Monitoring Data (PED)			SW_Wangcol C EPA ID No.: 22												SW_Wangcol E EPA ID No.: 23												SW_Wangcol F EPA ID No.: 24												
Variable	Unit	Frequency	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Aluminium (dissolved)	mg/L	Monthly	0.024	0.117	0.012	0.007									<0.005	0.011	0.006	<0.005									<0.005	0.011	0.011	<0.005									
Ammonia	mg/L	Monthly	<0.01	0.04	0.01	0.01									0.03	0.02	0.04	0.03									0.03	0.02	0.02	<0.01									
Antimony (dissolved)	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001									<0.001	<0.001	<0.001	<0.001									<0.001	<0.001	<0.001	<0.001									
Arsenic (dissolved)	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001									<0.001	<0.001	<0.001	<0.001									<0.001	<0.001	<0.001	0.001									
Arsenic (III)	mg/L	6-monthly	<0.0010												<0.0010												<0.0010												
Arsenic (V)	mg/L	6-monthly	<0.0010												<0.0010												<0.0010												
Barium (dissolved)	mg/L	Monthly	0.02	0.015	0.016	0.019									0.027	0.018	0.02	0.022									0.027	0.018	0.012	0.013									
Beryllium (dissolved)	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001									<0.001	<0.001	<0.001	<0.001									<0.001	<0.001	<0.001	<0.001									
Bicarbonate alkalinity	mg/L	Monthly	82	61	103	103									43	45	120	115									43	45	101	105									
Boron (dissolved)	mg/L	Monthly	0.05	<0.05	<0.05	<0.05									0.11	0.09	0.2	0.23									0.11	0.09	0.13	0.11									
Cadmium (dissolved)	mg/L	Monthly	<0.0001	<0.0001	<0.0001	<0.0001									<0.0001	<0.0001	<0.0001	<0.0001									<0.0001	<0.0001	<0.0001	<0.0001									
Calcium	mg/L	Monthly	22.3	15.2	18.6	21.6									38.1	24.2	41.2	44.4									38.1	24.2	31.6	30.9									
Chloride (dissolved)	mg/L	Monthly	8.92	5.71	11.1	10.5									17.4	26.2	60.7	65.6									17.4	26.2	40.1	38.2									
Chromium (dissolved)	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001									<0.001	<0.001	<0.001	<0.001									<0.001	<0.001	<0.001	<0.001									
Chromium (hexavalent)	mg/L	6-monthly	<0.001												<0.001												<0.001												
Chromium (trivalent)	mg/L	6-monthly	<0.001												<0.001												<0.001												
Cobalt (dissolved)	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001									0.004	0.002	0.008	0.01									0.004	0.002	<0.001	<0.001									
Copper (dissolved)	mg/L	Monthly	0.001	0.002	0.002	<0.001									<0.001	<0.001	<0.001	<0.001									<0.001	<0.001	<0.001	<0.001									
Cyanide (total)	mg/L	Monthly	<0.002	<0.002	<0.002	<0.002									<0.002	<0.002	<0.002	<0.002									<0.002	<0.002	<0.002	<0.002									
Dissolved organic carbon	mg/L	Monthly	4	5	5	3									4	3	5	8									4	3	7	3									
Electrical conductivity	µS/cm	Monthly	316	192	338	376									657	481	1078	1191									657	481	722	735									
Fluoride Hardness (as calcium carbonate)	mg/L	Monthly	0.299	0.191	0.186	0.271									0.079	0.202	0.149	0.222									0.079	0.202	0.156	0.225									
Iron	mg/L	Monthly	0.41	0.99	0.57	0.43									0.78	0.73	1.56	1.73									0.78	0.73	0.25	0.2									
Lead (dissolved)	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001									<0.001	<0.001	<0.001	<0.001									<0.001	<0.001	<0.001	<0.001									
Magnesium (dissolved)	mg/L	Monthly	10	6.19	8.46	11.2									23	15.4	33.1	35.8									23	15.4	21.4	22.3									
Manganese (dissolved)	mg/L	Monthly	0.119	0.143	0.172	0.158									0.84	0.298	1.22	1.4									0.84	0.298	0.219	0.448									
Mercury (dissolved)	mg/L	Monthly	<0.00004	<0.00004	<0.00004	<0.00004									<0.00004	<0.00004	<0.00004	<0.00004									<0.00004	<0.00004	<0.00004	<0.00004									
Molybdenum (dissolved)	mg/L	Monthly	0.004	0.003	0.003	0.003									<0.001	<0.001	0.001	0.001									<0.001	<0.001	0.002	0.002									
Nickel (dissolved)	mg/L	Monthly	0.003	0.003	0.003	0.003									0.029	0.022	0.083	0.107									0.029	0.022	0.038	0.041									
Nitrate	mg/L	Monthly	0.01	0.04	<0.01	0.01									0.01	<0.01	0.01	0.01									0.01	<0.01	<0.01	<0.01									
Nitrate + nitrite (oxidised nitrogen)	mg/L	Monthly	0.01	0.04	<0.01	0.01									0.01	<0.01	0.01	0.01									0.01	<0.01	<0.01	<0.01									
Nitrite	mg/L	Monthly	<0.01	<0.01	<0.01	<0.01									<0.01	<0.01	<0.01	<0.01									<0.01	<0.01	<0.01	<0.01									
pH	pH	Monthly	7.4	7.26	7.43	7.98									7.15	7.43	7.2	8.13									7.15	7.43	7.77	8.02									
Phosphorus (dissolved reactive)	mg/L	Monthly	<0.01	<0.01	<0.01	<0.01									<0.01	0.01	<0.01	<0.01									<0.01	0.01	<0.01	<0.01									
Phosphorus (total)	mg/L	Monthly	0.01	0.09	<0.01	<0.01									<0.01	0.02	<0.01	<0.01									<0.01	0.02	<0.01	<0.01									
Potassium	mg/L	Monthly	3.99	5.15	4.14	4.72									6.32	6.95	12.7	13.9									6.32	6.95	8.88	8.72									
Selenium (dissolved)	mg/L	Monthly	0.0004	0.0002	0.0006	0.0003									<0.0002	<0.0002	0.0003	<0.0002									<0.0002	<0.0002	0.0003	<0.0002									
Silver (dissolved)	mg/L	Monthly	<0.0001	<0.0001	<0.0001	<0.0001									<0.0001	<0.0001	<0.0001	<0.0001									<0.0001	<0.0001	<0.0001	<0.0001									
Sodium	mg/L	Monthly	30.9	18.6	40.7	40.6									61.2	50.9	122	137									61.2	50.9	79.9	80.7									
Sulfate (dissolved)	mg/L	Monthly	97.9	29.7	52.6	61.2									181	227	331	334									181	227	199	171									
Total dissolved solids	mg/L	Monthly	207	146	226	225									460	341	676	746									460	341	472	440									
Vanadium (dissolved)	mg/L	Monthly	<0.0002	0.0004	<0.0002	<0.0002									<0.0002	<0.0002	<0.0002	<0.0002									<0.0002	<0.0002	<0.0002	<0.0002									
Zinc (dissolved)	mg/L	Monthly	<0.005	<0.005	<0.005	<0.005									0.012	<0.005	<0.005	<0.005									0.012	<0.005	0.006	<0.005									

Table 17: 2026 EPL 13007 Surface Water Data (YTD)

2026 Surface Water Pollution Monitoring Data (PED)			Wangcol Creek NC01 EPA ID No.: 29											
Variable	Unit	Frequency	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Aluminium (dissolved)	mg/L	Monthly	ND	ND	0.026	0.005								
Ammonia	mg/L	Monthly	ND	ND	0.05	0.01								
Antimony (dissolved)	mg/L	Monthly	ND	ND	<0.001	<0.001								
Arsenic (dissolved)	mg/L	Monthly	ND	ND	<0.001	<0.001								
Arsenic (III)	mg/L	6-monthly			<0.0010									
Arsenic (V)	mg/L	6-monthly			<0.0010									
Barium (dissolved)	mg/L	Monthly	ND	ND	0.014	0.018								
Beryllium (dissolved)	mg/L	Monthly	ND	ND	<0.001	<0.001								
Bicarbonate alkalinity	mg/L	Monthly	ND	ND	88	101								
Boron (dissolved)	mg/L	Monthly	ND	ND	<0.05	<0.05								
Cadmium (dissolved)	mg/L	Monthly	ND	ND	<0.0001	<0.0001								
Calcium	mg/L	Monthly	ND	ND	17.6	21.8								
Chloride (dissolved)	mg/L	Monthly	ND	ND	5.86	10.8								
Chromium (dissolved)	mg/L	Monthly	ND	ND	<0.001	<0.001								
Chromium (hexavalent)	mg/L	6-monthly			<0.001									
Chromium (trivalent)	mg/L	6-monthly			<0.001									
Cobalt (dissolved)	mg/L	Monthly	ND	ND	<0.001	<0.001								
Copper (dissolved)	mg/L	Monthly	ND	ND	0.001	<0.001								
Cyanide (total)	mg/L	Monthly	ND	ND	<0.002	<0.002								
Dissolved organic carbon	mg/L	Monthly	ND	ND	6	4								
Electrical conductivity	µS/cm	Monthly	ND	ND		382								
Fluoride Hardness (as calcium carbonate)	mg/L	Monthly	ND	ND	0.174	0.31								
Iron	mg/L	Monthly	ND	ND	0.88	0.63								
Lead (dissolved)	mg/L	Monthly	ND	ND	<0.001	<0.001								
Magnesium (dissolved)	mg/L	Monthly	ND	ND	8.17	11.2								
Manganese (dissolved)	mg/L	Monthly	ND	ND	<0.001	0.178								
Mercury (dissolved)	mg/L	Monthly	ND	ND	<0.00004	<0.00004								
Molybdenum (dissolved)	mg/L	Monthly	ND	ND	0.003	0.003								
Nickel (dissolved)	mg/L	Monthly	ND	ND	0.002	0.003								
Nitrate	mg/L	Monthly	ND	ND	<0.01	0.02								
Nitrate + nitrite (oxidised nitrogen)	mg/L	Monthly	ND	ND	<0.01	0.02								
Nitrite	mg/L	Monthly	ND	ND	<0.01	<0.01								
pH	pH	Monthly	ND	ND	7.22	7.81								
Phosphorus (dissolved reactive)	mg/L	Monthly	ND	ND	<0.01	<0.01								
Phosphorus (total)	mg/L	Monthly	ND	ND	0.02	<0.01								
Potassium	mg/L	Monthly	ND	ND	3.93	4.77								
Selenium (dissolved)	mg/L	Monthly	ND	ND	0.0003	0.0003								
Silver (dissolved)	mg/L	Monthly	ND	ND	<0.0001	<0.0001								
Sodium	mg/L	Monthly	ND	ND	22	40.7								
Sulfate (dissolved)	mg/L	Monthly	ND	ND	31.1	66.2								
Total dissolved solids	mg/L	Monthly	ND	ND	150	226								
Vanadium (dissolved)	mg/L	Monthly	ND	ND	<0.0002	<0.0002								
Zinc (dissolved)	mg/L	Monthly	ND	ND	<0.005	<0.005								

Table 19: 2026 EPL 13007 Surface Water Data (YTD Continued)

TBC (To Be Confirmed): Sample has been collected; analytical results are pending and will be reported once available.
 No data collected: NCO1 was dry at the time of the monitoring event and sampling could not be undertaken.

2025 Surface Water Pollution Monitoring Data (PED)			SW_Wangcol C EPA ID No.: 22												SW_Wangcol E EPA ID No.: 23											
Variable	Unit	Frequency	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Alkalinity (as calciumcarbonate)	mg/L	Monthly	120	81	118	98	78	78	54	71	128	37	120	121	187	136	163	123	104	76	58	64	43	134	141	162
Aluminium	mg/L	Monthly	0.082	0.041	0.093	0.027	0.108	0.035	0.124	0.183	0.197	1.55	0.128	0.441	0.015	<0.005	0.012	<0.005	0.022	<0.005	0.049	<0.005	1.1	0.026	0.013	0.025
Ammonia	mg/L	Monthly	0.03	<0.01	0.02	0.02	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	0.01	0.06	0.05	0.07	0.04	0.05	0.03	0.02	0.01	0.02	0.03	0.09	0.08
Antimony	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Arsenic	mg/L	Monthly	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium	mg/L	Monthly	0.025	0.022	0.051	0.032	0.028	0.02	0.016	0.019	0.032	0.021	0.025	0.039	0.04	0.038	0.046	0.044	0.044	0.027	0.022	0.016	0.017	0.036	0.043	0.055
Beryllium	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bicarbonate alkalinity	mg/L	Monthly	120	81	118	98	78	78	54	71	128	37	120	121	187	136	163	123	104	76	58	64	43	134	141	162
Boron	mg/L	Monthly	<0.05	<0.05	0.13	<0.05	0.05	<0.05	<0.05	<0.05	0.06	<0.05	<0.05	0.07	0.97	0.52	1.01	0.36	0.89	0.34	0.12	0.08	<0.05	0.3	0.7	1.94
Cadmium	mg/L	Monthly	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Calcium	mg/L	Monthly	26.1	22	34.5	29.1	22.8	19.6	15.7	18.6	32.9	11.6	30.3	30.3	128	88.5	137	80.6	136	56.7	30.6	26.2	13.2	62.3	108	254
Chloride	mg/L	Monthly	6.36	12.4	17.3	16.1	17.7	15.2	12.5	16.1	11	6.73	10.8	7.68	273	156	231	136	292	115	49.9	43	10.3	81.8	222	591
Chromium	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.034	0.02	0.044	0.014	0.045	0.016	0.005	0.003	<0.001	0.011	0.03	0.085
Copper	mg/L	Monthly	<0.001	0.001	0.004	0.004	<0.001	<0.001	<0.001	0.001	0.003	0.004	0.002	0.007	0.001	<0.001	0.004	0.007	<0.001	<0.001	<0.001	<0.001	0.004	0.005	<0.001	0.002
Dissolved Oxygen	µS/cm	Monthly	3.8	4.2	2.6	5.2	6.9	13.2	12.2	10.9	5.8	27.7	2.8	4.6	5.6	7.2	5.1	9	6.4	13.4	15.9	14.1	13.3	8.6	2.2	4.8
Electrical Conductivity	mg/L	Monthly	390	363	588	424	380	350	299	351	515	150	462	468	3784	2270	3325	1874	5334	1611	829	658	155	1562	3051	6929
Iron	mg/L	Monthly	0.35	0.35	0.73	0.54	0.35	0.27	0.26	0.29	0.32	1.15	0.31	0.45	4.51	2.2	4.88	3.14	7.32	3.15	1.23	0.61	1.09	1.15	2.46	10.7
Lead	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001
Magnesium	mg/L	Monthly	13.4	10.1	18	14.3	11.2	9.48	7.66	10.3	21.6	5.2	19	18.2	136	80	137	68.6	132	49	23.8	20	6.93	52.5	104	257
Manganese	mg/L	Monthly	0.6	0.328	1.08	0.504	0.3	0.19	0.121	0.111	0.23	0.05	0.268	0.528	4.38	2.79	6.3	2.9	5.6	1.76	0.717	0.412	0.083	1.13	3.14	7.75
Mercury	mg/L	Monthly	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004
Molybdenum	mg/L	Monthly	0.01	0.003	0.008	0.005	0.003	0.006	0.005	0.005	0.01	0.002	0.004	0.008	0.001	<0.001	0.005	<0.001	<0.001	0.004	0.002	0.001	<0.001	0.004	<0.001	0.001
Nickel	mg/L	Monthly	0.003	0.003	0.007	0.005	0.009	0.002	0.002	0.003	0.005	0.004	0.003	0.005	0.416	0.239	0.442	0.148	0.428	0.15	0.055	0.035	0.008	0.139	0.316	0.906
Nitrate	mg/L	Monthly	<0.01	<0.01	0.07	<0.01	<0.01	0.01	0.03	0.04	0.01	0.04	0.01	0.05	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	0.01	0.02	<0.01	0.04	<0.01	0.02
Nitrate + nitrite(oxidised nitrogen)	mg/L	Monthly	<0.01	<0.01	0.08	<0.01	<0.01	0.01	0.03	0.04	0.01	0.04	0.01	0.05	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	0.01	0.02	<0.01	0.04	<0.01	0.02
Nitrite	pH	Monthly	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
pH	mg/L	Monthly	7.47	7.2	7.19	7.28	7.19	8.17	7.48	7.64	7.72	7.64	7.51	7.67	6.94	7.1	6.54	7.13	6.36	7.96	7.14	7.43	7.6	7.46	6.92	6.63
Potassium	mg/L	Monthly	4.54	4.85	8.68	6.82	4.79	4.62	4.05	4.41	6.34	3.58	6.07	5.97	63.5	27.5	42.8	21.5	36.7	17.2	9.04	6.93	4.02	16.6	34.9	96.2
Selenium	mg/L	Monthly	0.0003	0.0004	0.0004	<0.0002	0.0003	0.0008	0.0009	0.0007	0.0004	0.0003	0.0003	0.0003	0.0002	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	0.0003	0.0002	0.0002	0.0002	<0.0002	0.0002
Silver	mg/L	Monthly	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0001	<0.0001	0.0008
Sodium	mg/L	Monthly	38.5	39.4	61.8	42.5	33.4	34.4	29.8	35.6	41.7	11.3	36.7	38.6	900	291	530	231	488	180	87.3	68.1	19.7	168	396	1050
Sulfate	mg/L	Monthly	24	25	49	32	25	25	21	25	37	9	30	38	627	315	513	234	503	177	81	63	15	167	393	1200
Sulfur	mg/L	Monthly	61.8	52.6	131	109	92	87.9	71.6	81.9	101	33	99.6	115	1400	756	1220	761	1690	643	272	214	52.9	464	1290	3470
Total Dissolved Solids	mg/L	Monthly	254	229	375	265	253	222	190	212	320	138	276	296	2760	1630	2690	1330	2830	1050	521	369	160	984	2210	5760
Vanadium	mg/L	Monthly	0.0003	0.0002	0.0004	<0.0002	0.0002	<0.0002	0.0002	0.0003	0.0007	0.0022	0.0004	0.0007	0.0005	0.0002	0.0004	<0.0002	0.0004	<0.0002	0.0003	<0.0002	0.0015	0.0003	0.0004	0.0007
Zinc	mg/L	Monthly	<0.005	<0.005	0.014	0.014	0.007	0.007	<0.005	0.018	0.014	0.023	0.007	0.018	0.032	<0.005	0.028	0.023	0.031	0.011	0.025	<0.005	0.015	0.021	0.024	0.066

Table 20: 2025 EPL 13007 Surface Water Data

2025 Surface Water Pollution Monitoring Data (PED)			SW_Wangcol F EPA ID No.: 24												SW_Wangcol G EPA ID No.: 25												
Variable	Unit	Frequency	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Alkalinity (as calciumcarbonate)	mg/L	Monthly	148	102	166	129	100	78	51	58	50	121	130	150	147	120	164	123	93	79	56	62	48	120	134	151	
Aluminium	mg/L	Monthly	0.032	0.016	0.019	0.008	0.007	0.012	0.054	0.042	1.24	0.047	0.016	0.043	0.027	0.017	0.017	0.008	<0.005	0.007	0.054	0.042	1.28	0.012	0.016	0.073	
Ammonia	mg/L	Monthly	0.03	0.06	0.03	0.02	0.02	<0.01	<0.01	0.02	0.02	0.02	0.03	0.01	0.03	0.01	0.02	0.04	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	0.02	0.01
Antimony	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Arsenic	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Barium	mg/L	Monthly	0.015	0.014	0.056	0.028	0.037	0.022	0.011	0.011	0.013	0.027	0.017	0.055	0.013	0.013	0.052	0.028	0.034	0.021	0.011	0.01	0.012	0.025	0.016	0.051	
Beryllium	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Bicarbonate alkalinity	mg/L	Monthly	148	102	166	129	100	78	51	58	50	121	130	150	147	120	164	123	93	79	56	62	48	120	134	151	
Boron	mg/L	Monthly	0.21	0.15	0.61	0.3	0.34	0.25	0.07	0.1	<0.05	0.31	0.21	0.52	0.22	0.18	0.59	0.3	0.4	0.21	0.07	0.09	<0.05	0.25	0.23	0.63	
Cadmium	mg/L	Monthly	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
Calcium	mg/L	Monthly	47.8	38.6	120	68.1	71.4	43.9	23.6	24.1	13.4	59.6	54.2	143	46.6	39.4	122	69.8	72	42.7	23.8	24	13.5	59.3	55.3	141	
Chloride	mg/L	Monthly	62.3	60.2	183	125	170	88	31.7	38.2	10.9	75.2	74.1	280	66.1	45.9	188	100	156	85.5	31.3	37	10.8	74	72.5	324	
Chromium	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	
Cobalt	mg/L	Monthly	<0.001	<0.001	0.002	0.002	<0.001	0.001	<0.001	<0.001	<0.001	0.001	0.002	0.001	<0.001	0.001	0.001	0.001	0.003	0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.001	
Copper	mg/L	Monthly	<0.001	<0.001	0.004	0.007	<0.001	<0.001	<0.001	<0.001	0.004	0.005	<0.001	0.006	<0.001	<0.001	<0.001	0.003	<0.001	<0.001	<0.001	<0.001	0.003	<0.001	<0.001	0.001	
Dissolved Oxygen	µS/cm	Monthly	7.6	11	7.6	10.4	9.8	15.6	13.5	12.8	10.3	7.7	2.1	8.3	7.5	9.3	7.4	9.6	10.1	14.3	14.2	15.7	11.8	8.3	4.3	7.2	
Electrical Conductivity	mg/L	Monthly	1083	874	2770	1591	1826	1231	566	568	250	1384	1283	3197	1082	863	2796	1581	1813	1154	566	570	250	1389	1266	3209	
Iron	mg/L	Monthly	0.28	0.21	0.36	0.36	0.27	0.16	0.27	0.28	1.14	0.22	0.11	0.74	0.25	0.23	0.22	0.35	0.11	0.12	0.27	0.28	1.16	0.11	0.11	0.36	
Lead	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	
Magnesium	mg/L	Monthly	37.8	28.8	107	56.5	59.8	35.9	16.9	17.7	7.62	47.3	44.7	124	37.8	29.1	109	57.4	60.3	35.2	17.1	17.6	7.81	47.2	45.2	123	
Manganese	mg/L	Monthly	0.378	0.434	2.5	1.54	0.524	0.502	0.166	0.124	0.068	0.244	0.11	0.378	0.259	0.397	2.09	1.16	0.388	0.411	0.163	0.113	0.065	0.139	0.096	0.379	
Mercury	mg/L	Monthly	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	
Molybdenum	mg/L	Monthly	0.004	0.001	0.003	0.002	0.004	0.001	0.001	<0.001	0.001	0.004	0.001	0.002	0.002	0.001	0.004	0.001	<0.001	0.003	0.001	<0.001	<0.001	0.007	<0.001	0.002	
Nickel	mg/L	Monthly	0.066	0.048	0.237	0.104	0.137	0.078	0.027	0.027	0.01	0.094	0.071	0.255	0.066	0.05	0.232	0.104	0.152	0.073	0.026	0.026	0.01	0.102	0.072	0.256	
Nitrate	mg/L	Monthly	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	<0.01	0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.01	<0.01	<0.01	<0.01	<0.01	
Nitrate + nitrite(oxidised nitrogen)	mg/L	Monthly	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	<0.01	0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.01	<0.01	<0.01	<0.01	<0.01	
Nitrite	pH	Monthly	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
pH	mg/L	Monthly	7.81	7.3	7.64	7.7	7.6	8.7	7.51	7.69	7.56	7.73	7.86	7.74	7.79	7.6	7.72	7.71	7.56	8.22	7.5	7.85	7.65	8.01	7.89	7.82	
Potassium	mg/L	Monthly	11.4	10.2	27.2	18.4	17.5	12.9	6.8	6.32	4.46	14.4	13.4	27.6	52	10.1	27.2	18.4	17.7	12.5	6.99	6.29	4.41	13.9	13.6	27.5	
Selenium	mg/L	Monthly	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0003	0.0003	0.0002	0.0003	<0.0002	<0.0002	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0003	0.0003	0.0003	0.0002	<0.0002	<0.0002	
Silver	mg/L	Monthly	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
Sodium	mg/L	Monthly	133	97	367	194	208	129	55.8	58.3	22.7	149	138	391	807	97.9	369	199	209	123	56.4	58	23	145	141	389	
Sulfate	mg/L	Monthly	106	75	352	179	206	119	51	52	19	148	134	483	313	78	357	186	211	117	52	52	22	146	136	478	
Sulfur	mg/L	Monthly	296	183	894	563	823	445	172	177	57.6	411	413	1460	310	190	915	487	769	408	166	186	60.5	412	408	1660	
Total Dissolved Solids	mg/L	Monthly	819	562	2050	1050	1220	748	346	343	166	893	844	2410	808	538	2080	1030	1230	732	351	336	172	814	868	2440	
Vanadium	mg/L	Monthly	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0002	<0.0002	<0.0002	0.0017	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0018	0.0002	<0.0002	0.0002	
Zinc	mg/L	Monthly	0.008	<0.005	0.015	0.018	<0.005	0.006	0.009	<0.005	0.023	0.025	<0.005	0.04	<0.005	<0.005	<0.005	0.015	0.006	<0.005	0.008	<0.005	0.012	<0.005	<0.005	0.007	

Table 21: 2025 EPL 13007 Surface Water Data (Continued)

2024 Surface Water Pollution Monitoring Data (PED)			SW_Wangcol C EPA ID No.: 22												SW_Wangcol E EPA ID No.: 23											
Variable	Unit	Frequency	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Alkalinity (as calciumcarbonate)	mg/L	Monthly	80	90	109	83	85	87	82	65	98	72	63	81	114	127	183	105	98	74	78	77	90	139	142	123
Aluminium	mg/L	Monthly	0.2	0.62	0.28	0.05	0.17	0.179	0.134	0.296	0.028	0.703	0.362	0.16	0.04	0.04	<0.01	<0.01	0.02	0.03	0.019	0.018	<0.005	0.022	<0.005	0.028
Ammonia	mg/L	Monthly	0.02	0.01	0.01	0.01	0.02	<0.01	<0.01	<0.01	0.02	0.03	0.02	<0.01	0.02	0.02	0.05	0.03	0.03	0.02	0.03	0.15	0.04	0.05	0.02	0.02
Antimony	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Arsenic	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium	mg/L	Monthly	0.02	0.023	0.027	0.023	0.024	0.024	0.026	0.025	0.022	0.034	0.031	0.019	0.026	0.028	0.063	0.034	0.03	0.023	0.024	0.022	0.027	0.034	0.04	0.022
Beryllium	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bicarbonate alkalinity	mg/L	Monthly	80	90	109	83	85	87	82	65	98	72	63	81	114	127	183	105	98	74	78	77	90	139	142	123
Boron	mg/L	Monthly	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	<0.05	0.11	0.1	<0.05	<0.05	<0.05	0.18	0.08	1.6	0.28	0.11	0.19	0.22	0.2	0.34	0.61	0.67	0.13
Cadmium	mg/L	Monthly	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Calcium	mg/L	Monthly	16.8	21.4	23.6	20.5	21.9	22.4	22.4	18	30.2	14.1	12.1	20.2	40.3	36.6	302	50	34.8	39.2	44.7	36.5	58.2	89	92.2	33.4
Chloride	mg/L	Monthly	12.4	8.27	11.7	8.62	9.94	11.4	13.2	11.8	14.3	11.3	9.34	8.6	94.6	53.7	735	105	45.8	72.5	86	60.9	119	248	226	30.8
Chromium	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	0.006	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.01	0.007	0.116	0.019	0.006	0.009	0.012	0.008	0.016	0.028	0.027	0.004
Copper	mg/L	Monthly	0.002	0.002	<0.001	<0.001	<0.001	0.001	0.001	0.002	0.012	0.003	0.002	0.002	0.001	<0.001	<0.001	<0.001	<0.001	0.007	0.002	<0.001	0.002	<0.001	<0.001	0.004
Dissolved Oxygen	µS/cm	Monthly	5.2	6.2	3.7	7.8	8.1	13.3	12.1	9.7	12.4	6.4	5.8	5.2	7.3	8	3.6	9.99	9.6	14.8	13.5	11	11.4	7.6	6.9	8.9
Electrical Conductivity	mg/L	Monthly	318	302	363	389	320	386	394	328	488	261	227	364	1150	870	7450	1780	820	1133	1303	1082	1825	2798	2997	717
Iron	mg/L	Monthly	0.62	0.86	0.57	0.38	0.44	0.58	0.42	0.4	0.35	0.67	0.78	0.39	2.17	1.86	12.2	3.06	1.36	1.68	1.82	1.32	2.29	3.09	2.12	1.05
Lead	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/L	Monthly	8.96	11.5	12.8	12.5	12.7	14.1	13.8	10.8	17.5	8.1	6.32	9.04	37.5	30.3	336	51.4	29.3	37.6	42.8	33.7	56.5	92.4	94.1	23
Manganese	mg/L	Monthly	0.246	0.206	0.56	0.168	0.187	0.222	0.138	0.099	0.181	0.279	0.284	0.206	1.95	1.93	13.8	2.64	1.34	1.16	1.32	0.935	1.66	3.05	3.7	1
Mercury	mg/L	Monthly	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004
Molybdenum	mg/L	Monthly	0.005	0.004	0.006	0.003	0.003	0.01	0.009	0.007	0.009	0.004	0.003	0.006	0.002	0.002	<0.001	0.001	<0.001	0.002	<0.001	0.002	0.001	<0.001	<0.001	0.004
Nickel	mg/L	Monthly	0.003	0.005	0.002	0.003	0.002	0.003	0.003	0.002	0.006	0.003	0.003	0.004	0.091	0.067	1.08	0.17	0.056	0.098	0.109	0.076	0.163	0.284	0.32	0.043
Nitrate	mg/L	Monthly	0.03	<0.01	0.06	0.01	0.01	0.02	0.16	<0.01	0.02	0.01	0.01	0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.06	0.01	<0.01	0.01	0.03
Nitrate + nitrite(oxidised nitrogen)	mg/L	Monthly	0.03	<0.01	0.06	0.01	0.01	0.02	0.16	0.01	0.02	0.01	0.01	0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.06	0.01	<0.01	0.01	0.03
Nitrite	pH	Monthly	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
pH	mg/L	Monthly	7.46	7.66	7.09	8.07	7.65	7.75	7.14	8.4	7.7	7.03	6.95	7.57	7.26	7.49	6.31	7.15	7.4	7.6	6.91	7.94	7.41	6.66	6.78	7.57
Potassium	mg/L	Monthly	3.92	5.18	6.13	4.76	5.43	4.53	5.72	4.96	6.88	4.66	3.82	4.52	12.2	9.84	98.5	15.5	9.74	10.4	12.8	11.1	18.1	31.7	32.6	8.95
Selenium	mg/L	Monthly	0.0008	0.0003	0.0003	0.0004	<0.0002	<0.0002	0.0002	0.0003	0.0004	0.0002	<0.0002	0.0013	0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0002	<0.0002	<0.0002	0.0003
Silver	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0001
Sodium	mg/L	Monthly	35.1	25.5	21.9	29.3	25.2	33.6	38	28.6	44.4	24.6	16.7	41.5	131	99	1070	175	85.7	116	139	111	200	356	350	82.7
Sulfate	mg/L	Monthly	19	16	32	26	21	29	36	23	39	14	8	24	111	77	1270	178	81	112	139	112	205	326	342	56
Sulfur	mg/L	Monthly	60.6	53.1	66.6	88	58.5	84.3	98.1	68	126	45.5	27.1	72.3	442	247	3760	523	223	366	461	323	675	1170	1200	168
Total Dissolved Solids	mg/L	Monthly	218	174	234	208	185	253	246	201	275	159	116	238	797	630	5980	1020	500	720	819	654	1170	2150	2100	422
Vanadium	mg/L	Monthly	<0.01	<0.01	<0.01	<0.01	<0.01	0.0003	0.0002	0.0004	0.0003	0.0009	0.0005	0.0004	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.0002	0.0002	0.0003	0.0002	<0.0002
Zinc	mg/L	Monthly	<0.005	0.011	0.006	0.009	0.008	0.008	0.01	0.009	0.027	0.014	0.015	0.015	0.01	0.013	0.037	0.01	0.007	0.021	0.019	0.007	0.015	0.024	0.026	0.022

Table 22: 2024 EPL 13007 Surface Water Data

2024 Surface Water Pollution Monitoring Data (PED)			SW_Wangcol F EPA ID No.: 24												SW_Wangcol G EPA ID No.: 25											
Variable	Unit	Frequency	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Alkalinity (as calciumcarbonate)	mg/L	Monthly	87	108	149	82	92	65	74	74	86	99	118	102	84	109	149	83	94	79	74	74	88	114	118	98
Aluminium	mg/L	Monthly	0.18	0.09	0.02	<0.01	0.04	0.014	0.008	0.022	0.007	0.037	0.013	0.045	0.13	0.07	0.04	0.01	0.04	0.009	0.008	0.013	0.027	0.02	0.009	0.046
Ammonia	mg/L	Monthly	0.02	<0.01	0.02	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Antimony	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Arsenic	mg/L	Monthly	<0.001	<0.001	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001
Barium	mg/L	Monthly	0.008	0.011	0.021	0.015	0.015	0.025	0.02	0.015	0.033	0.03	0.015	0.008	0.007	0.012	0.021	0.016	0.015	0.024	0.022	0.014	0.032	0.03	0.017	0.007
Beryllium	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bicarbonate alkalinity	mg/L	Monthly	87	108	149	82	92	65	74	74	86	99	118	102	84	109	149	83	94	79	74	74	88	114	118	98
Boron	mg/L	Monthly	0.11	0.11	0.24	0.13	0.11	0.27	0.22	0.18	0.37	0.35	0.26	0.13	0.07	<0.05	0.22	0.14	0.1	0.24	0.2	0.19	0.34	0.38	0.25	0.12
Cadmium	mg/L	Monthly	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Calcium	mg/L	Monthly	19.9	31.3	57	31.8	32.8	51	46.2	37.5	80	75	48.5	29.5	20	30.6	54.5	31.2	33	50.8	45.9	37.6	77.2	74.1	45.8	29
Chloride	mg/L	Monthly	22.9	41	95.5	51.3	45.3	103	65.6	68.3	149	161	101	31.9	24.3	41.6	91.7	51.8	41.8	105	71	65.7	133	162	102	28
Chromium	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt	mg/L	Monthly	0.001	0.001	0.003	0.001	0.001	0.002	0.001	<0.001	0.001	0.001	0.001	<0.001	<0.001	0.001	0.003	0.001	<0.001	0.002	0.001	<0.001	0.001	<0.001	<0.001	<0.001
Copper	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	0.029	<0.001	0.002	<0.001	0.003	<0.001	0.006	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.016	<0.001	<0.001	0.003
Dissolved Oxygen	µS/cm	Monthly	7.2	8.6	7.3	12.46	9.4	13.2	11.4	11.3	11.1	7.3	8	7.9	7.6	7.3	8.9	9.9	13.3	12.4	10.7	12.1	9.2	8	8.4	
Electrical Conductivity	mg/L	Monthly	458	700	1300	940	770	1428	1177	1043	2096	2048	1369	628	458	700	1290	930	760	1434	1179	1020	2070	2039	1368	610
Iron	mg/L	Monthly	0.6	0.5	0.52	0.19	0.38	0.17	0.26	0.29	0.13	0.18	0.22	0.3	0.54	0.48	0.5	0.21	0.37	0.14	0.26	0.24	0.14	0.12	0.19	0.27
Lead	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001
Magnesium	mg/L	Monthly	14.3	23.9	49.6	28.4	26.8	50.7	43.1	33.3	73.4	68.9	41	20.1	14.6	23.6	48.5	27.8	27	50.4	42.9	33.4	71.3	67.2	38.9	20
Manganese	mg/L	Monthly	0.467	0.874	1.49	0.694	0.426	0.465	0.313	0.121	0.246	0.219	0.27	0.258	0.426	0.813	1.47	0.716	0.417	0.449	0.301	0.094	0.229	0.181	0.201	0.208
Mercury	mg/L	Monthly	<0.00004	<0.00004	<0.00004	<0.00004	0.00008	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004
Molybdenum	mg/L	Monthly	0.004	0.003	0.013	0.002	0.001	<0.001	<0.001	<0.001	0.002	<0.001	0.001	0.005	0.002	0.002	0.002	0.001	<0.001	0.001	<0.001	0.001	0.005	<0.001	0.001	0.003
Nickel	mg/L	Monthly	0.02	0.043	0.098	0.055	0.04	0.101	0.08	0.059	0.159	0.147	0.086	0.031	0.02	0.043	0.099	0.06	0.039	0.104	0.079	0.058	0.157	0.145	0.087	0.031
Nitrate	mg/L	Monthly	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	0.02	<0.01	<0.01	0.01
Nitrate + nitrite(oxidised nitrogen)	mg/L	Monthly	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	0.02	<0.01	<0.01	0.01
Nitrite	pH	Monthly	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
pH	mg/L	Monthly	7.69	7.87	7.39	8.18	7.57	7.76	7.29	8.16	7.97	6.86	7.51	7.37	7.62	8.21	7.52	7.78	7.71	7.76	7.36	7.64	7.89	7.52	7.59	8
Potassium	mg/L	Monthly	5.66	8.79	15.3	9.04	10	13.6	12.7	11.4	20.2	20.6	15	8.25	5.85	8.89	15.3	8.75	9.78	12.8	12.6	11	20.8	20.1	14.2	8.21
Selenium	mg/L	Monthly	0.0005	0.0002	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0003	0.0004	0.0003	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	0.0018	<0.0002	<0.0002	0.0003
Silver	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0001	<0.0001	0.0003	<0.0001	<0.0001	<0.0001	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Sodium	mg/L	Monthly	48.2	77.8	126	88.3	76.7	153	133	110	246	236	139	64.2	48.6	77.4	123	86.1	76.9	150	132	107	244	229	132	62.8
Sulfate	mg/L	Monthly	33	56	143	82	73	151	127	110	251	230	125	45	34	56	138	84	72	151	128	116	244	220	120	55
Sulfur	mg/L	Monthly	104	182	417	251	207	510	327	337	796	765	473	146	107	184	396	252	199	507	344	334	733	763	481	143
Total Dissolved Solids	mg/L	Monthly	304	501	803	516	450	932	704	662	1360	1450	836	329	328	492	839	520	416	900	730	607	1390	1460	822	381
Vanadium	mg/L	Monthly	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0002	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0002	<0.0002	<0.0002	0.0019	<0.0002	<0.0002	<0.0002
Zinc	mg/L	Monthly	<0.005	<0.005	0.013	<0.005	0.008	0.01	<0.005	0.01	0.006	0.02	0.007	0.046	<0.005	<0.005	<0.005	<0.005	<0.005	0.009	0.006	<0.005	0.052	<0.005	<0.005	0.032

Table 23: 2024 EPL 13007 Surface Water Data (Continued)

2023 Surface Water Pollution Monitoring Data (PED)			SW_Wangcol C EPA ID No.: 22												SW_Wangcol E EPA ID No.: 23											
Variable	Unit	Frequency	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Alkalinity (as calciumcarbonate)	mg/L	Monthly	39	36	56	43	42	58	56	57	66	85	107	86	77	92	112	87	77	63	54	62	64	119	94	141
Aluminium	mg/L	Monthly	0.25	0.3	0.21	0.44	0.06	0.07	0.14	0.24	0.21	0.32	0.32	0.49	0.02	0.03	0.02	0.02	<0.01	<0.01	<0.01	<0.01	0.01	0.02	0.02	0.05
Ammonia	mg/L	Monthly	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.1	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.08	0.14	0.05	<0.01	0.04	0.03	0.09	<0.01	<0.01
Antimony	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Arsenic	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium	mg/L	Monthly	0.026	0.025	0.029	0.024	0.018	0.025	0.025	0.029	0.024	0.025	0.031	0.027	0.026	0.026	0.036	0.032	0.03	0.037	0.041	0.042	0.035	0.047	0.052	0.046
Beryllium	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Bicarbonate alkalinity	mg/L	Monthly	39	36	56	43	42	58	56	57	66	85	107	86	77	92	112	87	77	63	54	62	64	119	94	141
Boron	mg/L	Monthly	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	0.09	0.11	0.1	0.11	0.09	0.18	0.24	0.27	0.3	0.23	1.16	0.76	0.98
Cadmium	mg/L	Monthly	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Calcium	mg/L	Monthly	9.69	8.23	15.2	11.7	10.5	20.9	19	18.3	20.1	21.8	25.7	15.7	38.7	38.9	38.6	31.2	43.6	54.3	58	64.5	50	176	131	132
Chloride	mg/L	Monthly	8.52	7.03	10.5	8.4	12.3	12.9	13.6	13.5	13.8	20.7	15.7	14.5	72.6	74.6	67.1	59.4	102	123	104	144	113	382	330	300
Chromium	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.008	0.007	0.006	0.006	0.012	0.014	0.017	0.02	0.014	0.065	0.039	0.04
Copper	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.002	0.005	0.012	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.002	0.004	0.003
Dissolved Oxygen	µS/cm	Monthly	8	6.9	7.1	6.4	9.8	10.7	13.3	8.8	11.1	7.9	5.1	3.2	6.6	7.2	7.7	7.8	11.4	10.4	12.8	10.6	12	5.7	7.3	4
Electrical Conductivity	mg/L	Monthly	157	127	220	178	195	320	321	277	348	409	448	326	940	950	890	820	1290	1440	1600	1790	1530	4850	3650	4270
Iron	mg/L	Monthly	0.34	0.48	0.44	0.6	0.36	0.35	0.44	0.53	0.46	0.59	0.58	0.7	1.13	1.25	1.31	1.53	2.59	3.05	3.76	3.84	3.13	7.38	3.95	3.33
Lead	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/L	Monthly	6.8	5.14	9.91	6.67	6.32	13.4	11.5	10.6	11.6	12.1	13.9	7.85	36.3	34.7	33.8	27.5	42.5	51	55.8	64.7	49.6	201	143	152
Manganese	mg/L	Monthly	0.137	0.168	0.247	0.227	0.128	0.201	0.155	0.205	0.16	0.272	0.48	0.353	1.38	2.15	2.95	2.29	2.57	2.84	2.78	2.99	2.21	6.9	4.92	5.66
Mercury	mg/L	Monthly	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	0.00006	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004
Molybdenum	mg/L	Monthly	<0.001	<0.001	0.001	0.001	<0.001	0.001	0.009	0.017	0.021	0.009	0.009	0.011	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	0.002
Nickel	mg/L	Monthly	0.001	0.001	0.002	0.002	0.001	0.002	0.001	0.002	0.002	0.003	0.005	0.004	0.071	0.079	0.062	0.059	0.102	0.123	0.149	0.177	0.128	0.609	0.432	0.451
Nitrate	mg/L	Monthly	<0.01	<0.01	<0.01	0.01	0.04	0.05	0.03	<0.01	0.02	0.02	<0.01	<0.01	0.02	<0.01	0.04	<0.01	<0.01	0.09	<0.01	<0.01	<0.01	0.02	<0.01	<0.01
Nitrate + nitrite(oxidised nitrogen)	mg/L	Monthly	<0.01	<0.01	<0.01	0.02	0.04	0.05	0.03	<0.01	0.02	0.02	<0.01	0.02	0.02	<0.01	0.04	0.01	<0.01	0.09	<0.01	<0.01	<0.01	0.02	<0.01	<0.01
Nitrite	pH	Monthly	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
pH	mg/L	Monthly	7.6	7.01	7.19	7.21	7.55	7.46	7.96	7.56	8.04	7.29	7.31	7.41	7.07	7.03	7.14	7.12	7	6.96	7.47	7.24	7.65	6.54	6.78	6.72
Potassium	mg/L	Monthly	2.6	2.34	3.74	3.03	2.83	4.2	4.5	4.9	5.18	7.66	7.31	4.68	8.35	8.28	7.87	7.35	10.8	12.8	14.4	18.6	13.9	61.5	44.2	43.6
Selenium	mg/L	Monthly	<0.0002	<0.0002	<0.0002	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	0.0002	0.0003	0.0002	0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Silver	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Sodium	mg/L	Monthly	11.4	9.55	14	10.1	15.1	20.8	25.9	20.9	27	49.2	48.4	37.4	98.6	101	93.3	78.3	138	164	180	212	158	725	513	540
Sulfate	mg/L	Monthly	9	5	13	9	11	25	24	19	25	29	31	19	96	95	81	71	131	161	184	212	163	743	500	535
Sulfur	mg/L	Monthly	27.1	14.3	37.8	28.4	37.1	77.3	73.8	63.5	87.5	87.7	95.7	47.1	308	316	256	234	462	572	455	678	537	1820	1650	1460
Total Dissolved Solids	mg/L	Monthly	101	94	134	114	102	203	188	202	188	236	306	203	596	625	554	464	778	968	1020	1250	953	3690	2930	3020
Vanadium	mg/L	Monthly	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc	mg/L	Monthly	<0.005	<0.005	0.007	0.006	<0.005	<0.005	<0.005	0.006	0.012	0.055	0.017	0.01	0.006	0.008	0.008	<0.005	<0.005	0.011	0.012	0.014	0.016	0.044	0.046	0.029

Table 24: 2023 EPL 13007 Surface Water Data

2023 Surface Water Pollution Monitoring Data (PED)			SW_Wangcol F EPA ID No.: 24												SW_Wangcol G EPA ID No.: 25											
Variable	Unit	Frequency	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Alkalinity (as calciumcarbonate)	mg/L	Monthly	72	86	113	77	68	64	63	55	57	78	92	107	73	89	113	75	68	63	76	55	53	84	94	108
Aluminium	mg/L	Monthly	0.01	0.02	0.15	0.02	<0.01	<0.01	<0.01	0.01	0.01	0.01	0.02	0.05	0.01	0.03	<0.01	0.03	<0.01	<0.01	0.01	0.02	0.02	0.02	0.02	0.05
Ammonia	mg/L	Monthly	0.01	<0.01	0.02	<0.01	0.01	0.08	0.04	<0.01	<0.01	<0.01	0.05	0.15	0.02	<0.01	0.01	<0.01	0.12	0.22	0.02	<0.01	<0.01	0.04	<0.01	
Antimony	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Arsenic	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Barium	mg/L	Monthly	0.021	0.021	0.038	0.014	0.016	0.034	0.034	0.017	0.015	0.025	0.028	0.01	0.021	0.021	0.032	0.014	0.016	0.034	0.033	0.018	0.015	0.023	0.028	0.01
Beryllium	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Bicarbonate alkalinity	mg/L	Monthly	72	86	113	77	68	64	63	55	57	78	92	107	73	89	113	75	68	63	76	55	53	84	94	108
Boron	mg/L	Monthly	0.12	0.12	0.24	0.08	0.11	0.32	0.32	0.18	0.19	0.32	0.39	0.23	0.1	0.12	0.22	0.08	0.1	0.32	0.33	0.18	0.18	0.36	0.39	0.26
Cadmium	mg/L	Monthly	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
Calcium	mg/L	Monthly	42.7	44.6	66	28.5	33.4	76.9	79.2	47.7	47.8	79	93.8	31.7	42.2	45.7	66	30	33.8	76.3	78	47.1	45.7	78.6	94	35
Chloride	mg/L	Monthly	73.6	84.4	131	57.6	69.5	153	154	91.5	95.8	139	187	44.6	76.1	88.3	136	55.7	67.1	172	150	95.7	99.2	138	185	42.3
Chromium	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Cobalt	mg/L	Monthly	<0.001	<0.001	0.002	<0.001	<0.001	0.001	0.002	0.001	0.001	<0.001	0.002	0.001	<0.001	<0.001	0.001	<0.001	<0.001	0.001	0.002	0.001	0.001	0.001	0.002	0.001
Copper	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	0.002	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	0.001	<0.001	<0.001	
Dissolved Oxygen	µS/cm	Monthly	6.3	6.6	7.8	7.7	10.5	10.4	12.9	10.7	9.9	8.9	7	6.7	6.7	7.7	7.8	8.1	11.8	11.3	10.9	10.1	10.4	8.2	7.4	6.6
Electrical Conductivity	mg/L	Monthly	980	1060	1590	750	880	1930	1970	1170	1300	1910	2310	840	970	1060	1610	750	880	1930	1970	1770	1290	1910	2300	850
Iron	mg/L	Monthly	0.22	0.21	0.7	0.27	0.21	0.08	0.17	0.16	0.16	0.24	0.32	0.36	0.2	0.2	0.21	0.26	0.19	0.05	0.16	0.13	0.17	0.22	0.23	0.41
Lead	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Magnesium	mg/L	Monthly	38	38.6	62.7	24.4	29.4	72.3	74.6	42.6	44.1	72.4	85.2	26.8	37.6	39.4	62.2	25.7	29.7	71.4	73.4	41.7	42.4	72.1	85.9	29.7
Manganese	mg/L	Monthly	0.53	0.888	2.15	0.401	0.403	0.334	0.394	0.143	0.157	0.287	0.351	0.298	0.509	0.847	1.77	0.405	0.381	0.305	0.37	0.142	0.159	0.26	0.275	0.278
Mercury	mg/L	Monthly	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	
Molybdenum	mg/L	Monthly	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	0.003	<0.001	<0.001	<0.001	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	0.002	
Nickel	mg/L	Monthly	0.061	0.072	0.119	0.044	0.05	0.136	0.152	0.073	0.074	0.133	0.175	0.047	0.059	0.072	0.117	0.042	0.05	0.134	0.153	0.073	0.073	0.133	0.177	0.047
Nitrate	mg/L	Monthly	0.02	<0.01	<0.01	0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.01	<0.01	0.01	0.03	0.04	0.03	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrate + nitrite(oxidised nitrogen)	mg/L	Monthly	0.02	<0.01	<0.01	0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.01	<0.01	0.01	0.03	0.04	0.03	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrite	pH	Monthly	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
pH	mg/L	Monthly	7.56	7.39	7.43	7.48	7.4	7.39	7.46	7.47	7.61	7.44	7.56	7.52	7.54	7.44	7.49	7.52	7.4	7.39	7.98	7.68	8.14	7.5	7.53	7.93
Potassium	mg/L	Monthly	8.31	9.01	14	7.21	7.63	16.7	17.6	13	12.9	20.2	22.9	8.95	8.16	9.28	13.7	7.4	7.72	16.5	17.4	12.8	12.2	19.9	22.9	9.84
Selenium	mg/L	Monthly	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Silver	mg/L	Monthly	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Sodium	mg/L	Monthly	97.6	111	188	62.6	88.8	226	230	127	134	225	280	89.7	97.5	113	185	70.3	89.3	224	228	125	128	223	281	96.9
Sulfate	mg/L	Monthly	101	110	176	63	96	231	241	129	140	250	274	69	100	112	176	65	87	228	239	127	133	240	279	76
Sulfur	mg/L	Monthly	316	358	528	221	290	678	704	414	423	630	858	214	329	378	556	212	279	776	695	436	465	622	854	209
Total Dissolved Solids	mg/L	Monthly	590	692	1080	428	509	1400	1310	750	956	1160	1760	489	614	688	1100	397	486	1320	1330	758	808	1180	1730	526
Vanadium	mg/L	Monthly	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc	mg/L	Monthly	<0.005	<0.005	0.022	<0.005	<0.005	0.006	0.006	0.009	0.018	0.013	0.02	0.009	<0.005	0.009	0.005	<0.005	<0.005	<0.005	<0.005	0.007	<0.005	0.006	0.005	<0.005

Table 25: 2023 EPL 13007 Surface Water Data (Continued)