

## Vales Point Power Station Monthly Environmental Data Summary



LICENCE NO	761	<a href="http://www.epa.nsw.gov.au/prpoeoapp/">http://www.epa.nsw.gov.au/prpoeoapp/</a>
LICENCE HOLDER	SUNSET POWER INTERNATIONAL PTY LTD	
REPORTING PERIOD	April 2023	
ADDRESS	VALES ROAD, MANNERING PARK NSW	

### POINT 2 Combined air emissions from boiler 5 via Points 4 to 7 to Point 1 marked and shown as EPA ID 2 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceed 100% Limit (yes/no)	Comments
Apr-23	Cadmium	(mg/m3)	Every 6 months							0.2	No	
Apr-23	Chlorine	(mg/m3)	Every 6 months							20	No	
Apr-23	Fluorine	(mg/m3)	Every 6 months							30	No	
Apr-23	Hydrogen chloride	(mg/m3)	Every 6 months							50	No	
Apr-23	Mercury	(mg/m3)	Every 6 months							0.05	No	
Apr-23	Nitrogen Oxides	(mg/m3)	Continuous		Apr-23				850	980	No	Unit 5 out of service for maintenance entire month of April
Apr-23	Solid Particles	(mg/m3)	Quarterly							50	No	
Apr-23	Sulfur dioxide	(mg/m3)	Continuous		Apr-23				1400	1700	No	
Apr-23	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months							100	No	
Apr-23	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months							0.75	No	
Apr-23	VOC's as n-propane equivalent	(mg/m3)	Every 6 months							10	No	

### POINT 3 Combined air emissions from boiler 6 via Points 8 to 11 to Point 1 marked and shown as EPA ID 3 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceed 100% Limit (yes/no)	Comments
Apr-23	Cadmium	(mg/m3)	Every 6 months							0.2	No	
Apr-23	Chlorine	(mg/m3)	Every 6 months							20	No	
Apr-23	Fluorine	(mg/m3)	Every 6 months							30	No	
Apr-23	Hydrogen chloride	(mg/m3)	Every 6 months							50	No	
Apr-23	Mercury	(mg/m3)	Every 6 months							0.05	No	
Apr-23	Nitrogen Oxides	(mg/m3)	Continuous	98.5%	Apr-23	229	622	720	850	980	No	
Apr-23	Solid Particles	(mg/m3)	Quarterly							50	No	
Apr-23	Sulfur dioxide	(mg/m3)	Continuous	98.4%	Apr-23	497	807	1144	1400	1700	No	
Apr-23	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months							100	No	
Apr-23	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months							0.75	No	
Apr-23	VOC's as n-propane equivalent	(mg/m3)	Every 6 months							10	No	

### POINT 4 Boiler number 5 exhaust - duct A marked and shown as EPA ID 4 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
Apr-23	Cadmium	(mg/m3)	Every 6 months								N/A	
Apr-23	Carbon dioxide	(%)	Every 6 months								N/A	
Apr-23	Chlorine	(mg/m3)	Every 6 months								N/A	
Apr-23	Fluorine	(mg/m3)	Every 6 months								N/A	
Apr-23	Hydrogen chloride	(mg/m3)	Every 6 months								N/A	
Apr-23	Mercury	(mg/m3)	Every 6 months								N/A	
Apr-23	Solid Particles	(mg/m3)	Quarterly								N/A	
Apr-23	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months								N/A	
Apr-23	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	
Apr-23	VOC's as n-propane equivalent	(mg/m3)	Every 6 months								N/A	

**POINT 5 Boiler number 5 exhaust - duct B marked and shown as EPA ID 5 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).**

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
Apr-23	Cadmium	(mg/m3)	Every 6 months								N/A	
Apr-23	Mercury	(mg/m3)	Every 6 months								N/A	
Apr-23	Solid Particles	(mg/m3)	Quarterly								N/A	
Apr-23	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	

**POINT 6 Boiler number 5 exhaust - duct C marked and shown as EPA ID 6 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).**

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
Apr-23	Cadmium	(mg/m3)	Every 6 months								N/A	
Apr-23	Carbon dioxide	(%)	Every 6 months								N/A	
Apr-23	Chlorine	(mg/m3)	Every 6 months								N/A	
Apr-23	Fluorine	(mg/m3)	Every 6 months								N/A	
Apr-23	Hydrogen chloride	(mg/m3)	Every 6 months								N/A	
Apr-23	Mercury	(mg/m3)	Every 6 months								N/A	
Apr-23	Solid Particles	(mg/m3)	Quarterly								N/A	
Apr-23	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months								N/A	
Apr-23	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	
Apr-23	VOC's as n-propane equivalent	(mg/m3)	Every 6 months								N/A	

**POINT 7 Boiler number 5 exhaust - duct D marked and shown as EPA ID 7 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).**

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
Apr-23	Cadmium	(mg/m3)	Every 6 months								N/A	
Apr-23	Mercury	(mg/m3)	Every 6 months								N/A	
Apr-23	Solid Particles	(mg/m3)	Quarterly								N/A	
Apr-23	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	

**POINT 8 Boiler number 6 exhaust - duct A marked and shown as EPA ID 8 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).**

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
Apr-23	Cadmium	(mg/m3)	Every 6 months								N/A	
Apr-23	Carbon dioxide	(%)	Every 6 months								N/A	
Apr-23	Chlorine	(mg/m3)	Every 6 months								N/A	
Apr-23	Fluorine	(mg/m3)	Every 6 months								N/A	
Apr-23	Hydrogen chloride	(mg/m3)	Every 6 months								N/A	
Apr-23	Mercury	(mg/m3)	Every 6 months								N/A	
Apr-23	Solid Particles	(mg/m3)	Quarterly								N/A	
Apr-23	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months								N/A	
Apr-23	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	
Apr-23	VOC's as n-propane equivalent	(mg/m3)	Every 6 months								N/A	

**POINT 9 Boiler number 6 exhaust - duct B marked and shown as EPA ID 9 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).**

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
Apr-23	Cadmium	(mg/m3)	Every 6 months								N/A	
Apr-23	Mercury	(mg/m3)	Every 6 months								N/A	
Apr-23	Solid Particles	(mg/m3)	Quarterly								N/A	
Apr-23	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	

**POINT 10 Boiler number 6 exhaust - duct C marked and shown as EPA ID 10 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).**

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
Apr-23	Cadmium	(mg/m3)	Every 6 months								N/A	
Apr-23	Carbon dioxide	(%)	Every 6 months								N/A	
Apr-23	Chlorine	(mg/m3)	Every 6 months								N/A	
Apr-23	Fluorine	(mg/m3)	Every 6 months								N/A	
Apr-23	Hydrogen chloride	(mg/m3)	Every 6 months								N/A	
Apr-23	Mercury	(mg/m3)	Every 6 months								N/A	
Apr-23	Solid Particles	(mg/m3)	Quarterly								N/A	
Apr-23	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months								N/A	
Apr-23	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	
Apr-23	VOC's as n-propane equivalent	(mg/m3)	Every 6 months								N/A	

**POINT 11 Boiler number 6 exhaust - duct D marked and shown as EPA ID 11 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).**

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
Apr-23	Cadmium	(mg/m3)	Every 6 months								N/A	
Apr-23	Mercury	(mg/m3)	Every 6 months								N/A	
Apr-23	Solid Particles	(mg/m3)	Quarterly								N/A	
Apr-23	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	

**POINT 12 Boiler number 5 combined exhaust - duct A and B (points 4 and 5) marked and shown as EPA ID 12 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).**

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
Apr-23	Nitrogen Oxides	(mg/m3)	Continuous		Apr-23						N/A	Unit 5 out of service for maintenance entire month of April
Apr-23	Sulfur dioxide	(mg/m3)	Continuous		Apr-23						N/A	

**POINT 13 Boiler number 5 combined exhaust - duct C and D (points 6 and 7) marked and shown as EPA ID 13 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).**

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
Apr-23	Nitrogen Oxides	(mg/m3)	Continuous		Apr-23						N/A	Unit 5 out of service for maintenance entire month of April
Apr-23	Sulfur dioxide	(mg/m3)	Continuous		Apr-23						N/A	

**POINT 14 Boiler number 6 combined exhaust - duct A and B (points 8 and 9) marked and shown as EPA ID 14 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).**

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
Apr-23	Nitrogen Oxides	(mg/m3)	Continuous	98.5%	Apr-23	234	649	762			N/A	
Apr-23	Sulfur dioxide	(mg/m3)	Continuous	98.5%	Apr-23	317	833	1171			N/A	

**POINT 15 Boiler number 6 combined exhaust - duct C and D (points 10 and 11) marked and shown as EPA ID 12 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).**

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
Apr-23	Nitrogen Oxides	(mg/m3)	Continuous	98.5%	Apr-23	224	596	690			N/A	
Apr-23	Sulfur dioxide	(mg/m3)	Continuous	98.3%	Apr-23	497	781	1116			N/A	

**POINT 22 Discharge of cooling water from the cooling water outlet canal to Wye Bay marked and shown as EPA ID 22 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).**

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	98.5 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceed 100% Limit (yes/no)	Comments
Apr-23	Chlorine (free residual)	(mg/L)	Monthly during discharge	1	4/04/2023	<0.1	<0.1	<0.1		0.2	No	
Apr-23	Copper	(mg/L)	Monthly during discharge	1	4/04/2023	0.002	0.002	0.002		0.005	No	
Apr-23	Iron	(mg/L)	Monthly during discharge	1	4/04/2023	0.110	0.110	0.110		0.3	No	
Apr-23	Oil and Grease	Visible	Continuous during discharge	100%	Apr-23	NIL	NIL	NIL				
Apr-23	Selenium	(mg/L)	Monthly during discharge	1	4/04/2023	0.001	0.001	0.001		0.005	No	
Apr-23	Temperature	(°C)	Continuous during discharge	100%	Apr-23	24.3	29.0	31.5	35	37.5	No	

**POINT 23 Discharge of supernatant water from the ash dam to the cooling water outlet canal to Wye Bay marked and shown as EPA ID 23 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).**

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
Apr-23	Aluminium	(mg/L)	Monthly during discharge	1	4/04/2023	0.03	0.03	0.03				
Apr-23	Ammonia	(mg/L)	Monthly during discharge	1	4/04/2023	0.058	0.058	0.058				
Apr-23	Arsenic (III)	(mg/L)	Monthly during discharge	1	4/04/2023	<0.001	<0.001	<0.001				
Apr-23	Arsenic (V)	(mg/L)	Monthly during discharge	1	4/04/2023	0.016	0.016	0.016				
Apr-23	Cadmium	(mg/L)	Monthly during discharge	1	4/04/2023	<0.0001	<0.0001	<0.0001				
Apr-23	Chromium (trivalent)	(mg/L)	Monthly during discharge	1	4/04/2023	<0.005	<0.005	<0.005				
Apr-23	Chromium (VI) Compounds	(mg/L)	Monthly during discharge	1	4/04/2023	0.010	0.010	0.010				
Apr-23	Copper	(mg/L)	Monthly during discharge	1	4/04/2023	<0.001	<0.001	<0.001				
Apr-23	Iron	(mg/L)	Monthly during discharge	1	4/04/2023	0.028	0.028	0.028				
Apr-23	Lead	(mg/L)	Monthly during discharge	1	4/04/2023	<0.001	<0.001	<0.001				
Apr-23	Manganese	(mg/L)	Monthly during discharge	1	4/04/2023	0.0120	0.0120	0.0120				
Apr-23	Nickel	(mg/L)	Monthly during discharge	1	4/04/2023	<0.001	<0.001	<0.001				
Apr-23	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Monthly during discharge	1	4/04/2023	<0.005	<0.005	<0.005				
Apr-23	Nitrogen	(mg/L)	Monthly during discharge	1	4/04/2023	0.60	0.60	0.60				
Apr-23	pH	pH	Monthly during discharge	1	4/04/2023	9.00	9.00	9.00		6.5 - 9.5	No	
Apr-23	Phosphorus	(mg/L)	Monthly during discharge	1	4/04/2023	0.20	0.20	0.20				
Apr-23	Reactive Phosphorus	(mg/L)	Monthly during discharge	1	4/04/2023	0.01	0.01	0.01				
Apr-23	Selenium	(mg/L)	Monthly during discharge	1	4/04/2023	0.064	0.064	0.064				
Apr-23	Total Kjeldahl Nitrogen	(mg/L)	Monthly during discharge	1	4/04/2023	0.6	0.6	0.6				
Apr-23	Total Suspended Solids	(mg/L)	Monthly during discharge	1	4/04/2023	12	12	12		50	No	
Apr-23	Vanadium	(mg/L)	Monthly during discharge	1	4/04/2023	0.12	0.12	0.12				
Apr-23	Zinc	(mg/L)	Monthly during discharge	1	4/04/2023	<0.001	<0.001	<0.001				

**POINT 24 Discharge of seepage water from the ash dam rehabilitation area to Mannering Bay marked and shown as EPA ID 24 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).**

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	Discharge (yes/no)	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
Apr-23	Aluminium	(mg/L)	Monthly during discharge	1	4/04/2023				No			
Apr-23	Ammonia	(mg/L)	Monthly during discharge	1	4/04/2023				No			
Apr-23	Arsenic (III)	(mg/L)	Monthly during discharge	1	4/04/2023				No			
Apr-23	Arsenic (V)	(mg/L)	Monthly during discharge	1	4/04/2023				No			
Apr-23	Cadmium	(mg/L)	Monthly during discharge	1	4/04/2023				No			
Apr-23	Chromium (trivalent)	(mg/L)	Monthly during discharge	1	4/04/2023				No			
Apr-23	Chromium (VI) Compounds	(mg/L)	Monthly during discharge	1	4/04/2023				No			
Apr-23	Copper	(mg/L)	Monthly during discharge	1	4/04/2023				No			
Apr-23	Iron	(mg/L)	Monthly during discharge	1	4/04/2023				No			
Apr-23	Lead	(mg/L)	Monthly during discharge	1	4/04/2023				No			No discharge from EPA Point 24 during April 2023
Apr-23	Manganese	(mg/L)	Monthly during discharge	1	4/04/2023				No			
Apr-23	Nickel	(mg/L)	Monthly during discharge	1	4/04/2023				No			
Apr-23	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Monthly during discharge	1	4/04/2023				No			
Apr-23	Nitrogen	(mg/L)	Monthly during discharge	1	4/04/2023				No			
Apr-23	pH	pH	Monthly during discharge	1	4/04/2023				No	6.5 - 9.5	No	
Apr-23	Phosphorus	(mg/L)	Monthly during discharge	1	4/04/2023				No			
Apr-23	Reactive Phosphorus	(mg/L)	Monthly during discharge	1	4/04/2023				No			
Apr-23	Selenium	(mg/L)	Monthly during discharge	1	4/04/2023				No			
Apr-23	Total Kjeldahl Nitrogen	(mg/L)	Monthly during discharge	1	4/04/2023				No			
Apr-23	Total Suspended Solids	(mg/L)	Monthly during discharge	1	4/04/2023				No	50	No	
Apr-23	Vanadium	(mg/L)	Monthly during discharge	1	4/04/2023				No			
Apr-23	Zinc	(mg/L)	Monthly during discharge	1	4/04/2023				No			

**POINT 25 Discharge of over boarded water from the ash dam to Mannering Bay marked and shown as EPA ID 25 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).**

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	Discharge (yes/no)	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
Apr-23	Aluminium	(mg/L)	Daily for any discharge >2 hrs						No			
Apr-23	Ammonia	(mg/L)	Daily for any discharge >2 hrs						No			
Apr-23	Arsenic (III)	(mg/L)	Daily for any discharge >2 hrs						No			
Apr-23	Arsenic (V)	(mg/L)	Daily for any discharge >2 hrs						No			
Apr-23	Cadmium	(mg/L)	Daily for any discharge >2 hrs						No			
Apr-23	Chromium (trivalent)	(mg/L)	Daily for any discharge >2 hrs						No			
Apr-23	Chromium (VI) Compounds	(mg/L)	Daily for any discharge >2 hrs						No			
Apr-23	Copper	(mg/L)	Daily for any discharge >2 hrs						No			
Apr-23	Iron	(mg/L)	Daily for any discharge >2 hrs						No			
Apr-23	Lead	(mg/L)	Daily for any discharge >2 hrs						No			
Apr-23	Manganese	(mg/L)	Daily for any discharge >2 hrs						No			No discharge from EPA Point 25 during April 2023
Apr-23	Nickel	(mg/L)	Daily for any discharge >2 hrs						No			
Apr-23	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Daily for any discharge >2 hrs						No			
Apr-23	Nitrogen	(mg/L)	Daily for any discharge >2 hrs						No			
Apr-23	pH	pH	Daily for any discharge >2 hrs						No	6.5 - 9.5	No	
Apr-23	Phosphorus	(mg/L)	Daily for any discharge >2 hrs						No			
Apr-23	Reactive Phosphorus	(mg/L)	Daily for any discharge >2 hrs						No			
Apr-23	Selenium	(mg/L)	Daily for any discharge >2 hrs						No			
Apr-23	Total Kjeldahl Nitrogen	(mg/L)	Daily for any discharge >2 hrs						No			
Apr-23	Total Suspended Solids	(mg/L)	Daily for any discharge >2 hrs						No	50	No	
Apr-23	Vanadium	(mg/L)	Daily for any discharge >2 hrs						No			
Apr-23	Zinc	(mg/L)	Daily for any discharge >2 hrs						No			

**POINT 30** Groundwater quality monitoring bore marked and shown as EPA ID 30 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
Apr-23	Aluminium	(mg/L)	Quarterly	1	4/04/2023	0.09	0.09	0.09				
Apr-23	Ammonia	(mg/L)	Quarterly	1	4/04/2023	4.1	4.1	4.1				
Apr-23	Arsenic (III)	(mg/L)	Quarterly	1	4/04/2023	0.004	0.004	0.004				
Apr-23	Arsenic (V)	(mg/L)	Quarterly	1	4/04/2023	<0.001	<0.001	<0.001				
Apr-23	Cadmium	(mg/L)	Quarterly	1	4/04/2023	<0.001	<0.001	<0.001				
Apr-23	Chromium (trivalent)	(mg/L)	Quarterly	1	4/04/2023	<0.005	<0.005	<0.005				
Apr-23	Chromium (VI) Compounds	(mg/L)	Quarterly	1	4/04/2023	<0.005	<0.005	<0.005				
Apr-23	Copper	(mg/L)	Quarterly	1	4/04/2023	0.003	0.003	0.003				
Apr-23	Electrical Conductivity	(us/cm)	Quarterly	1	4/04/2023	35000	35000	35000				
Apr-23	Iron	(mg/L)	Quarterly	1	4/04/2023	82.0	82.0	82.0				Next sample scheduled for July 2023
Apr-23	Lead	(mg/L)	Quarterly	1	4/04/2023	0.002	0.002	0.002				
Apr-23	Magnesium	(mg/L)	Quarterly	1	4/04/2023	830	830	830				
Apr-23	Manganese	(mg/L)	Quarterly	1	4/04/2023	5.1	5.1	5.1				
Apr-23	Nickel	(mg/L)	Quarterly	1	4/04/2023	0.023	0.023	0.023				
Apr-23	pH	pH	Quarterly	1	4/04/2023	5.85	5.85	5.85				
Apr-23	Potassium	(mg/L)	Quarterly	1	4/04/2023	120	120	120				
Apr-23	Selenium	(mg/L)	Quarterly	1	4/04/2023	<0.001	<0.001	<0.001				
Apr-23	Sodium	(mg/L)	Quarterly	1	4/04/2023	6500	6500	6500				
Apr-23	Standing Water Level	(m)	Quarterly	1	4/04/2023	3.82	3.82	3.82				
Apr-23	Vanadium	(mg/L)	Quarterly	1	4/04/2023	<0.001	<0.001	<0.001				
Apr-23	Zinc	(mg/L)	Quarterly	1	4/04/2023	0.030	0.030	0.030				

**POINT 31** Groundwater quality monitoring bore marked and shown as EPA ID 31 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
Apr-23	Aluminium	(mg/L)	Quarterly	1	4/04/2023	0.10	0.10	0.10				
Apr-23	Ammonia	(mg/L)	Quarterly	1	4/04/2023	0.35	0.35	0.35				
Apr-23	Arsenic (III)	(mg/L)	Quarterly	1	4/04/2023	0.002	0.002	0.002				
Apr-23	Arsenic (V)	(mg/L)	Quarterly	1	4/04/2023	<0.001	<0.001	<0.001				
Apr-23	Cadmium	(mg/L)	Quarterly	1	4/04/2023	<0.0001	<0.0001	<0.0001				
Apr-23	Chromium (trivalent)	(mg/L)	Quarterly	1	4/04/2023	<0.005	<0.005	<0.005				
Apr-23	Chromium (VI) Compounds	(mg/L)	Quarterly	1	4/04/2023	<0.005	<0.005	<0.005				
Apr-23	Copper	(mg/L)	Quarterly	1	4/04/2023	0.011	0.011	0.011				
Apr-23	Electrical Conductivity	(us/cm)	Quarterly	1	4/04/2023	10000	10000	10000				
Apr-23	Iron	(mg/L)	Quarterly	1	4/04/2023	88	88	88				
Apr-23	Lead	(mg/L)	Quarterly	1	4/04/2023	0.006	0.006	0.006				Next sample scheduled for July 2023
Apr-23	Magnesium	(mg/L)	Quarterly	1	4/04/2023	260	260	260				
Apr-23	Manganese	(mg/L)	Quarterly	1	4/04/2023	1.2	1.2	1.2				
Apr-23	Nickel	(mg/L)	Quarterly	1	4/04/2023	0.030	0.030	0.030				
Apr-23	pH	pH	Quarterly	1	4/04/2023	5.82	5.82	5.82				
Apr-23	Potassium	(mg/L)	Quarterly	1	4/04/2023	18.0	18.0	18.0				
Apr-23	Selenium	(mg/L)	Quarterly	1	4/04/2023	<0.001	<0.001	<0.001				
Apr-23	Sodium	(mg/L)	Quarterly	1	4/04/2023	1400	1400	1400				
Apr-23	Standing Water Level	(m)	Quarterly	1	4/04/2023	1.57	1.57	1.57				
Apr-23	Vanadium	(mg/L)	Quarterly	1	4/04/2023	0.004	0.004	0.004				
Apr-23	Zinc	(mg/L)	Quarterly	1	4/04/2023	0.92	0.92	0.92				

**POINT 32** Groundwater quality monitoring bore marked and shown as EPA ID 32 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
Apr-23	Aluminium	(mg/L)	Quarterly	1	4/04/2023	0.10	0.10	0.10				
Apr-23	Ammonia	(mg/L)	Quarterly	1	4/04/2023	0.20	0.20	0.20				
Apr-23	Arsenic (III)	(mg/L)	Quarterly	1	4/04/2023	<0.001	<0.001	<0.001				
Apr-23	Arsenic (V)	(mg/L)	Quarterly	1	4/04/2023	<0.001	<0.001	<0.001				
Apr-23	Cadmium	(mg/L)	Quarterly	1	4/04/2023	<0.0001	<0.0001	<0.0001				
Apr-23	Chromium (trivalent)	(mg/L)	Quarterly	1	4/04/2023	<0.005	<0.005	<0.005				
Apr-23	Chromium (VI) Compounds	(mg/L)	Quarterly	1	4/04/2023	<0.005	<0.005	<0.005				
Apr-23	Copper	(mg/L)	Quarterly	1	4/04/2023	0.005	0.005	0.005				
Apr-23	Electrical Conductivity	(us/cm)	Quarterly	1	4/04/2023	3300	3300	3300				
Apr-23	Iron	(mg/L)	Quarterly	1	4/04/2023	28	28	28				
Apr-23	Lead	(mg/L)	Quarterly	1	4/04/2023	0.002	0.002	0.002				Next sample scheduled for July 2023
Apr-23	Magnesium	(mg/L)	Quarterly	1	4/04/2023	42	42	42				
Apr-23	Manganese	(mg/L)	Quarterly	1	4/04/2023	0.570	0.570	0.570				
Apr-23	Nickel	(mg/L)	Quarterly	1	4/04/2023	0.014	0.014	0.014				
Apr-23	pH	pH	Quarterly	1	4/04/2023	5.40	5.40	5.40				
Apr-23	Potassium	(mg/L)	Quarterly	1	4/04/2023	28.0	28.0	28.0				
Apr-23	Selenium	(mg/L)	Quarterly	1	4/04/2023	<0.001	<0.001	<0.001				
Apr-23	Sodium	(mg/L)	Quarterly	1	4/04/2023	420	420	420				
Apr-23	Standing Water Level	(m)	Quarterly	1	4/04/2023	3.87	3.87	3.87				
Apr-23	Vanadium	(mg/L)	Quarterly	1	4/04/2023	0.002	0.002	0.002				
Apr-23	Zinc	(mg/L)	Quarterly	1	4/04/2023	0.054	0.054	0.054				

**POINT 33** Groundwater quality monitoring bore marked and shown as EPA ID 33 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
Apr-23	Aluminium	(mg/L)	Quarterly	1	4/04/2023	3.7	3.7	3.7				
Apr-23	Ammonia	(mg/L)	Quarterly	1	4/04/2023	0.27	0.27	0.27				
Apr-23	Arsenic (III)	(mg/L)	Quarterly	1	4/04/2023	<0.001	<0.001	<0.001				
Apr-23	Arsenic (V)	(mg/L)	Quarterly	1	4/04/2023	<0.001	<0.001	<0.001				
Apr-23	Cadmium	(mg/L)	Quarterly	1	4/04/2023	<0.0001	<0.0001	<0.0001				
Apr-23	Chromium (trivalent)	(mg/L)	Quarterly	1	4/04/2023	<0.005	<0.005	<0.005				
Apr-23	Chromium (VI) Compounds	(mg/L)	Quarterly	1	4/04/2023	<0.005	<0.005	<0.005				
Apr-23	Copper	(mg/L)	Quarterly	1	4/04/2023	0.005	0.005	0.005				
Apr-23	Electrical Conductivity	(us/cm)	Quarterly	1	4/04/2023	52000	52000	52000				
Apr-23	Iron	(mg/L)	Quarterly	1	4/04/2023	62	62	62				Next sample scheduled for July 2023
Apr-23	Lead	(mg/L)	Quarterly	1	4/04/2023	0.007	0.007	0.007				
Apr-23	Magnesium	(mg/L)	Quarterly	1	4/04/2023	1300	1300	1300				
Apr-23	Manganese	(mg/L)	Quarterly	1	4/04/2023	0.34	0.34	0.34				
Apr-23	Nickel	(mg/L)	Quarterly	1	4/04/2023	0.004	0.004	0.004				
Apr-23	pH	pH	Quarterly	1	4/04/2023	6.51	6.51	6.51				
Apr-23	Potassium	(mg/L)	Quarterly	1	4/04/2023	400	400	400				
Apr-23	Selenium	(mg/L)	Quarterly	1	4/04/2023	0.001	0.001	0.001				
Apr-23	Sodium	(mg/L)	Quarterly	1	4/04/2023	11000	11000	11000				
Apr-23	Standing Water Level	(m)	Quarterly	1	4/04/2023	0.47	0.47	0.47				
Apr-23	Vanadium	(mg/L)	Quarterly	1	4/04/2023	0.017	0.017	0.017				
Apr-23	Zinc	(mg/L)	Quarterly	1	4/04/2023	0.026	0.026	0.026				

**POINT 34** Groundwater quality monitoring bore marked and shown as EPA ID 33 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
Apr-23	Aluminium	(mg/L)	Quarterly	1	4/04/2023	5.00	5.00	5.00				
Apr-23	Ammonia	(mg/L)	Quarterly	1	4/04/2023	0.015	0.015	0.015				
Apr-23	Arsenic (III)	(mg/L)	Quarterly	1	4/04/2023	<0.001	<0.001	<0.001				
Apr-23	Arsenic (V)	(mg/L)	Quarterly	1	4/04/2023	<0.001	<0.001	<0.001				
Apr-23	Cadmium	(mg/L)	Quarterly	1	4/04/2023	<0.0001	<0.0001	<0.0001				
Apr-23	Chromium (trivalent)	(mg/L)	Quarterly	1	4/04/2023	<0.005	<0.005	<0.005				
Apr-23	Chromium (VI) Compounds	(mg/L)	Quarterly	1	4/04/2023	<0.005	<0.005	<0.005				
Apr-23	Copper	(mg/L)	Quarterly	1	4/04/2023	0.015	0.015	0.015				
Apr-23	Electrical Conductivity	(us/cm)	Quarterly	1	4/04/2023	760	760	760				
Apr-23	Iron	(mg/L)	Quarterly	1	4/04/2023	8	8	8				Next sample scheduled for July 2023
Apr-23	Lead	(mg/L)	Quarterly	1	4/04/2023	0.010	0.010	0.010				
Apr-23	Magnesium	(mg/L)	Quarterly	1	4/04/2023	10	10	10				
Apr-23	Manganese	(mg/L)	Quarterly	1	4/04/2023	0.078	0.078	0.078				
Apr-23	Nickel	(mg/L)	Quarterly	1	4/04/2023	0.007	0.007	0.007				
Apr-23	pH	pH	Quarterly	1	4/04/2023	6.20	6.20	6.20				
Apr-23	Potassium	(mg/L)	Quarterly	1	4/04/2023	3	3	3				
Apr-23	Selenium	(mg/L)	Quarterly	1	4/04/2023	0.001	0.001	0.001				
Apr-23	Sodium	(mg/L)	Quarterly	1	4/04/2023	110	110	110				
Apr-23	Standing Water Level	(m)	Quarterly	1	4/04/2023	0.52	0.52	0.52				
Apr-23	Vanadium	(mg/L)	Quarterly	1	4/04/2023	0.041	0.041	0.041				
Apr-23	Zinc	(mg/L)	Quarterly	1	4/04/2023	0.024	0.024	0.024				

**GENERAL COMMENTS**

Unit 5 was out of service for the entire month of April 2023 for planned maintenance works.