

## 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	February 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
Feb-23	Cadmium	(mg/m3)	Every 6 months	1	Jan 2023	0.000305	0.000305	0.000305		0.2	No	
Feb-23	Chlorine	(mg/m3)	Every 6 months	1	Jan 2023	0.521	0.521	0.521		20	No	
Feb-23	Fluorine	(mg/m3)	Every 6 months	1	Jan 2023	0.959	0.959	0.959		30	No	
Feb-23	Hydrogen chloride	(mg/m3)	Every 6 months	1	Jan 2023	10.2	10.2	10.2		50	No	
Feb-23	Mercury	(mg/m3)	Every 6 months	1	Jan 2023	0.000379	0.000379	0.000379		0.05	No	
Feb-23	Nitrogen Oxides	(mg/m3)	Continuous	99.7%	Feb-23	255	593	745	850	980	No	
Feb-23	Solid Particles	(mg/m3)	Quarterly	1	Jan 2023	1.23	1.23	1.23		50	No	
Feb-23	Sulfur dioxide	(mg/m3)	Continuous	99.7%	Feb-23	558	954	1316	1400	1700	No	
Feb-23	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months	1	Jan 2023	10.2	10.2	10.2		100	No	
Feb-23	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	Jan 2023	0.036	0.036	0.036		0.75	No	
Feb-23	VOC's as n-propane equivalent	(mg/m3)	Every 6 months	1	Jan 2023	0.496	0.496	0.496		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
Feb-23	Cadmium	(mg/m3)	Every 6 months	1	Jan 2023	0.0000782	0.0000782	0.0000782		0.2	No	
Feb-23	Chlorine	(mg/m3)	Every 6 months	1	Jan 2023	0.496	0.496	0.496		20	No	
Feb-23	Fluorine	(mg/m3)	Every 6 months	1	Jan 2023	0.965	0.965	0.965		30	No	
Feb-23	Hydrogen chloride	(mg/m3)	Every 6 months	1	Jan 2023	11.5	11.5	11.5		50	No	
Feb-23	Mercury	(mg/m3)	Every 6 months	1	Jan 2023	0.0000248	0.0000248	0.0000248		0.05	No	
Feb-23	Nitrogen Oxides	(mg/m3)	Continuous	99.7%	Feb-23	270	583	736	850	980	No	
Feb-23	Solid Particles	(mg/m3)	Quarterly	1	Jan 2023	0.991	0.991	0.991		50	No	
Feb-23	Sulfur dioxide	(mg/m3)	Continuous	99.7%	Feb-23	504	952	1312	1400	1700	No	
Feb-23	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months	1	Jan 2023	15.2	15.2	15.2		100	No	
Feb-23	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	Jan 2023	0.00645	0.00645	0.00645		0.75	No	
Feb-23	VOC's as n-propane equivalent	(mg/m3)	Every 6 months	1	Jan 2023	0.433	0.433	0.433		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
Feb-23	Cadmium	(mg/m3)	Every 6 months	1	Jan 2023	0.000458	0.000458	0.000458			N/A	
Feb-23	Carbon dioxide	(%)	Every 6 months	1	Jan 2023	12.3	12.3	12.3			N/A	
Feb-23	Chlorine	(mg/m3)	Every 6 months	1	Jan 2023	<0.506	<0.506	<0.506			N/A	
Feb-23	Fluorine	(mg/m3)	Every 6 months	1	Jan 2023	0.957	0.957	0.957			N/A	
Feb-23	Hydrogen chloride	(mg/m3)	Every 6 months	1	Jan 2023	9.6	9.6	9.6			N/A	
Feb-23	Mercury	(mg/m3)	Every 6 months	1	Jan 2023	0.00138	0.00138	0.00138			N/A	
Feb-23	Solid Particles	(mg/m3)	Quarterly	1	Jan 2023	<1.15	<1.15	<1.15			N/A	
Feb-23	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months	1	Jan 2023	15.2	15.2	15.2			N/A	
Feb-23	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	Jan 2023	0.023	0.023	0.023			N/A	
Feb-23	VOC's as n-propane equivalent	(mg/m3)	Every 6 months	1	Jan 2023	<0.476	<0.476	<0.476			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
Feb-23	Cadmium	(mg/m3)	Every 6 months	1	Jan 2023	0.00055	0.00055	0.00055			N/A	
Feb-23	Mercury	(mg/m3)	Every 6 months	1	Jan 2023	0.0000275	0.0000275	0.0000275			N/A	
Feb-23	Solid Particles	(mg/m3)	Quarterly	1	Jan 2023	1.7	1.7	1.7			N/A	
Feb-23	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	Jan 2023	0.00762	0.00762	0.00762			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
Feb-23	Cadmium	(mg/m3)	Every 6 months	1	Jan 2023	<0.000077	<0.000077	<0.000077			N/A	
Feb-23	Carbon dioxide	(%)	Every 6 months	1	Jan 2023	11.4	11.4	11.4			N/A	
Feb-23	Chlorine	(mg/m3)	Every 6 months	1	Jan 2023	0.535	0.535	0.535			N/A	
Feb-23	Fluorine	(mg/m3)	Every 6 months	1	Jan 2023	0.961	0.961	0.961			N/A	
Feb-23	Hydrogen chloride	(mg/m3)	Every 6 months	1	Jan 2023	10.7	10.7	10.7			N/A	
Feb-23	Mercury	(mg/m3)	Every 6 months	1	Jan 2023	0.0000272	0.0000272	0.0000272			N/A	
Feb-23	Solid Particles	(mg/m3)	Quarterly	1	Jan 2023	<1.09	<1.09	<1.09			N/A	
Feb-23	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months	1	Jan 2023	5.7	5.7	5.7			N/A	
Feb-23	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	Jan 2023	0.0939	0.0939	0.0939			N/A	
Feb-23	VOC's as n-propane equivalent	(mg/m3)	Every 6 months	1	Jan 2023	<0.514	<0.514	<0.514			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
Feb-23	Cadmium	(mg/m3)	Every 6 months	1	Jan 2023	0.0000982	0.0000982	0.0000982			N/A	
Feb-23	Mercury	(mg/m3)	Every 6 months	1	Jan 2023	0.0000245	0.0000245	0.0000245			N/A	
Feb-23	Solid Particles	(mg/m3)	Quarterly	1	Jan 2023	<0.982	<0.982	<0.982			N/A	
Feb-23	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	Jan 2023	0.00587	0.00587	0.00587			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
Feb-23	Cadmium	(mg/m3)	Every 6 months	1	Jan 2023	<0.0000815	<0.0000815	<0.0000815			N/A	
Feb-23	Carbon dioxide	(%)	Every 6 months	1	Jan 2023	12.2	12.2	12.2			N/A	
Feb-23	Chlorine	(mg/m3)	Every 6 months	1	Jan 2023	<0.532	<0.532	<0.532			N/A	
Feb-23	Fluorine	(mg/m3)	Every 6 months	1	Jan 2023	0.948	0.948	0.948			N/A	
Feb-23	Hydrogen chloride	(mg/m3)	Every 6 months	1	Jan 2023	13.8	13.8	13.8			N/A	
Feb-23	Mercury	(mg/m3)	Every 6 months	1	Jan 2023	0.0000288	0.0000288	0.0000288			N/A	
Feb-23	Solid Particles	(mg/m3)	Quarterly	1	Jan 2023	<1.15	<1.15	<1.15			N/A	
Feb-23	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months	1	Jan 2023	13.6	13.6	13.6			N/A	
Feb-23	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	Jan 2023	0.00412	0.00412	0.00412			N/A	
Feb-23	VOC's as n-propane equivalent	(mg/m3)	Every 6 months	1	Jan 2023	<0.438	<0.438	<0.438			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
Feb-23	Cadmium	(mg/m3)	Every 6 months	1	Jan 2023	0.0000991	0.0000991	0.0000991			N/A	
Feb-23	Mercury	(mg/m3)	Every 6 months	1	Jan 2023	0.0000248	0.0000248	0.0000248			N/A	
Feb-23	Solid Particles	(mg/m3)	Quarterly	1	Jan 2023	<0.991	<0.991	<0.991			N/A	
Feb-23	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	Jan 2023	0.00389	0.00389	0.00389			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
Feb-23	Cadmium	(mg/m3)	Every 6 months	1	Jan 2023	<0.0000851	<0.0000851	<0.0000851			N/A	
Feb-23	Carbon dioxide	(%)	Every 6 months	1	Jan 2023	12.3	12.3	12.3			N/A	
Feb-23	Chlorine	(mg/m3)	Every 6 months	1	Jan 2023	0.473	0.473	0.473			N/A	
Feb-23	Fluorine	(mg/m3)	Every 6 months	1	Jan 2023	0.976	0.976	0.976			N/A	
Feb-23	Hydrogen chloride	(mg/m3)	Every 6 months	1	Jan 2023	9.9	9.9	9.9			N/A	
Feb-23	Mercury	(mg/m3)	Every 6 months	1	Jan 2023	0.0000301	0.0000301	0.0000301			N/A	
Feb-23	Solid Particles	(mg/m3)	Quarterly	1	Jan 2023	<1.20	<1.20	<1.20			N/A	
Feb-23	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months	1	Jan 2023	16.2	16.2	16.2			N/A	
Feb-23	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	Jan 2023	0.00924	0.00924	0.00924			N/A	
Feb-23	VOC's as n-propane equivalent	(mg/m3)	Every 6 months	1	Jan 2023	<0.430	<0.430	<0.430			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
Feb-23	Cadmium	(mg/m3)	Every 6 months	1	Jan 2023	<0.0000554	<0.0000554	<0.0000554			N/A	
Feb-23	Mercury	(mg/m3)	Every 6 months	1	Jan 2023	0.0000196	0.0000196	0.0000196			N/A	
Feb-23	Solid Particles	(mg/m3)	Quarterly	1	Jan 2023	<0.783	<0.783	<0.783			N/A	
Feb-23	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	Jan 2023	0.00769	0.00769	0.00769			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
Feb-23	Nitrogen Oxides	(mg/m3)	Continuous	99.7%	Feb-23	252	565	705			N/A	
Feb-23	Sulfur dioxide	(mg/m3)	Continuous	99.7%	Feb-23	484	882	1235			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
Feb-23	Nitrogen Oxides	(mg/m3)	Continuous	99.7%	Feb-23	257	622	834			N/A	
Feb-23	Sulfur dioxide	(mg/m3)	Continuous	99.7%	Feb-23	622	1026	1451			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
Feb-23	Nitrogen Oxides	(mg/m3)	Continuous	99.7%	Feb-23	298	627	820			N/A	
Feb-23	Sulfur dioxide	(mg/m3)	Continuous	99.7%	Feb-23	514	970	1347			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
Feb-23	Nitrogen Oxides	(mg/m3)	Continuous	99.7%	Feb-23	243	539	698			N/A	
Feb-23	Sulfur dioxide	(mg/m3)	Continuous	99.7%	Feb-23	494	935	1295			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
Feb-23	Chlorine (free residual)	(mg/L)	Monthly during discharge	1	1/02/2023	<0.1	<0.1	<0.1		0.2	No	
Feb-23	Copper	(mg/L)	Monthly during discharge	1	1/02/2023	0.002	0.002	0.002		0.005	No	
Feb-23	Iron	(mg/L)	Monthly during discharge	1	1/02/2023	0.079	0.079	0.079		0.3	No	
Feb-23	Oil and Grease	Visible	Continuous during discharge	100%	Feb-23	NIL	NIL	NIL				
Feb-23	Selenium	(mg/L)	Monthly during discharge	1	1/02/2023	0.002	0.002	0.002		0.005	No	
Feb-23	Temperature	(°C)	Continuous during discharge	100%	Feb-23	29.7	32.1	35.9	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
Feb-23	Aluminium	(mg/L)	Monthly during discharge	1	1/02/2023	0.07	0.07	0.07				
Feb-23	Ammonia	(mg/L)	Monthly during discharge	1	1/02/2023	0.7	0.7	0.7				
Feb-23	Arsenic (III)	(mg/L)	Monthly during discharge	1	1/02/2023	<0.001	<0.001	<0.001				
Feb-23	Arsenic (V)	(mg/L)	Monthly during discharge	1	1/02/2023	0.013	0.013	0.013				
Feb-23	Cadmium	(mg/L)	Monthly during discharge	1	1/02/2023	0.0002	0.0002	0.0002				
Feb-23	Chromium (trivalent)	(mg/L)	Monthly during discharge	1	1/02/2023	<0.005	<0.005	<0.005				
Feb-23	Chromium (VI) Compounds	(mg/L)	Monthly during discharge	1	1/02/2023	0.040	0.040	0.040				
Feb-23	Copper	(mg/L)	Monthly during discharge	1	1/02/2023	<0.001	<0.001	<0.001				
Feb-23	Iron	(mg/L)	Monthly during discharge	1	1/02/2023	0.066	0.066	0.066				
Feb-23	Lead	(mg/L)	Monthly during discharge	1	1/02/2023	<0.001	<0.001	<0.001				
Feb-23	Manganese	(mg/L)	Monthly during discharge	1	1/02/2023	<0.005	<0.005	<0.005				
Feb-23	Nickel	(mg/L)	Monthly during discharge	1	1/02/2023	<0.001	<0.001	<0.001				
Feb-23	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Monthly during discharge	1	1/02/2023	0.33	0.33	0.33				
Feb-23	Nitrogen	(mg/L)	Monthly during discharge	1	1/02/2023	0.90	0.90	0.90				
Feb-23	pH	pH	Monthly during discharge	1	1/02/2023	8.90	8.90	8.90		6.5 - 9.5	No	
Feb-23	Phosphorus	(mg/L)	Monthly during discharge	1	1/02/2023	0.05	0.05	0.05				
Feb-23	Reactive Phosphorus	(mg/L)	Monthly during discharge	1	1/02/2023	0.03	0.03	0.03				
Feb-23	Selenium	(mg/L)	Monthly during discharge	1	1/02/2023	0.14	0.14	0.14				
Feb-23	Total Kjeldahl Nitrogen	(mg/L)	Monthly during discharge	1	1/02/2023	0.6	0.6	0.6				
Feb-23	Total Suspended Solids	(mg/L)	Monthly during discharge	1	1/02/2023	65	65	65		50	Yes	Notification and reporting to EPA undertaken in accordance with Vales Point Environment Protection Licence. Location re-sampled on 20/2/23 and concentration confirmed to have returned below limit (8mg/L).
Feb-23	Vanadium	(mg/L)	Monthly during discharge	1	1/02/2023	0.16	0.16	0.16				
Feb-23	Zinc	(mg/L)	Monthly during discharge	1	1/02/2023	<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
Feb-23	Aluminium	(mg/L)	Monthly during discharge	1	1/02/2023				No			
Feb-23	Ammonia	(mg/L)	Monthly during discharge	1	1/02/2023				No			
Feb-23	Arsenic (III)	(mg/L)	Monthly during discharge	1	1/02/2023				No			
Feb-23	Arsenic (V)	(mg/L)	Monthly during discharge	1	1/02/2023				No			
Feb-23	Cadmium	(mg/L)	Monthly during discharge	1	1/02/2023				No			
Feb-23	Chromium (trivalent)	(mg/L)	Monthly during discharge	1	1/02/2023				No			
Feb-23	Chromium (VI) Compounds	(mg/L)	Monthly during discharge	1	1/02/2023				No			
Feb-23	Copper	(mg/L)	Monthly during discharge	1	1/02/2023				No			
Feb-23	Iron	(mg/L)	Monthly during discharge	1	1/02/2023				No			
Feb-23	Lead	(mg/L)	Monthly during discharge	1	1/02/2023				No			
Feb-23	Manganese	(mg/L)	Monthly during discharge	1	1/02/2023				No			No discharge from EPA Point 24 during February 2023
Feb-23	Nickel	(mg/L)	Monthly during discharge	1	1/02/2023				No			
Feb-23	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Monthly during discharge	1	1/02/2023				No			
Feb-23	Nitrogen	(mg/L)	Monthly during discharge	1	1/02/2023				No			
Feb-23	pH	pH	Monthly during discharge	1	1/02/2023				No	6.5 - 9.5	No	
Feb-23	Phosphorus	(mg/L)	Monthly during discharge	1	1/02/2023				No			
Feb-23	Reactive Phosphorus	(mg/L)	Monthly during discharge	1	1/02/2023				No			
Feb-23	Selenium	(mg/L)	Monthly during discharge	1	1/02/2023				No			
Feb-23	Total Kjeldahl Nitrogen	(mg/L)	Monthly during discharge	1	1/02/2023				No			
Feb-23	Total Suspended Solids	(mg/L)	Monthly during discharge	1	1/02/2023				No	50	No	
Feb-23	Vanadium	(mg/L)	Monthly during discharge	1	1/02/2023				No			
Feb-23	Zinc	(mg/L)	Monthly during discharge	1	1/02/2023				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
Feb-23	Aluminium	(mg/L)	Daily for any discharge >2 hrs						No			
Feb-23	Ammonia	(mg/L)	Daily for any discharge >2 hrs						No			
Feb-23	Arsenic (III)	(mg/L)	Daily for any discharge >2 hrs						No			
Feb-23	Arsenic (V)	(mg/L)	Daily for any discharge >2 hrs						No			
Feb-23	Cadmium	(mg/L)	Daily for any discharge >2 hrs						No			
Feb-23	Chromium (trivalent)	(mg/L)	Daily for any discharge >2 hrs						No			
Feb-23	Chromium (VI) Compounds	(mg/L)	Daily for any discharge >2 hrs						No			
Feb-23	Copper	(mg/L)	Daily for any discharge >2 hrs						No			
Feb-23	Iron	(mg/L)	Daily for any discharge >2 hrs						No			
Feb-23	Lead	(mg/L)	Daily for any discharge >2 hrs						No			
Feb-23	Manganese	(mg/L)	Daily for any discharge >2 hrs						No			No discharge from EPA Point 25 during February 2023
Feb-23	Nickel	(mg/L)	Daily for any discharge >2 hrs						No			
Feb-23	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Daily for any discharge >2 hrs						No			
Feb-23	Nitrogen	(mg/L)	Daily for any discharge >2 hrs						No			
Feb-23	pH	pH	Daily for any discharge >2 hrs						No	6.5 - 9.5	No	
Feb-23	Phosphorus	(mg/L)	Daily for any discharge >2 hrs						No			
Feb-23	Reactive Phosphorus	(mg/L)	Daily for any discharge >2 hrs						No			
Feb-23	Selenium	(mg/L)	Daily for any discharge >2 hrs						No			
Feb-23	Total Kjeldahl Nitrogen	(mg/L)	Daily for any discharge >2 hrs						No			
Feb-23	Total Suspended Solids	(mg/L)	Daily for any discharge >2 hrs						No	50	No	
Feb-23	Vanadium	(mg/L)	Daily for any discharge >2 hrs						No			
Feb-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
Feb-23	Aluminium	(mg/L)	Quarterly									
Feb-23	Ammonia	(mg/L)	Quarterly									
Feb-23	Arsenic (III)	(mg/L)	Quarterly									
Feb-23	Arsenic (V)	(mg/L)	Quarterly									
Feb-23	Cadmium	(mg/L)	Quarterly									
Feb-23	Chromium (trivalent)	(mg/L)	Quarterly									
Feb-23	Chromium (VI) Compounds	(mg/L)	Quarterly									
Feb-23	Copper	(mg/L)	Quarterly									
Feb-23	Electrical Conductivity	(us/cm)	Quarterly									
Feb-23	Iron	(mg/L)	Quarterly									
Feb-23	Lead	(mg/L)	Quarterly									Next sample scheduled for April 2023
Feb-23	Magnesium	(mg/L)	Quarterly									
Feb-23	Manganese	(mg/L)	Quarterly									
Feb-23	Nickel	(mg/L)	Quarterly									
Feb-23	pH	pH	Quarterly									
Feb-23	Potassium	(mg/L)	Quarterly									
Feb-23	Selenium	(mg/L)	Quarterly									
Feb-23	Sodium	(mg/L)	Quarterly									
Feb-23	Standing Water Level	(m)	Quarterly									
Feb-23	Vanadium	(mg/L)	Quarterly									
Feb-23	Zinc	(mg/L)	Quarterly									

**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
Feb-23	Aluminium	(mg/L)	Quarterly									
Feb-23	Ammonia	(mg/L)	Quarterly									
Feb-23	Arsenic (III)	(mg/L)	Quarterly									
Feb-23	Arsenic (V)	(mg/L)	Quarterly									
Feb-23	Cadmium	(mg/L)	Quarterly									
Feb-23	Chromium (trivalent)	(mg/L)	Quarterly									
Feb-23	Chromium (VI) Compounds	(mg/L)	Quarterly									
Feb-23	Copper	(mg/L)	Quarterly									
Feb-23	Electrical Conductivity	(us/cm)	Quarterly									
Feb-23	Iron	(mg/L)	Quarterly									
Feb-23	Lead	(mg/L)	Quarterly									Next sample scheduled for April 2023
Feb-23	Magnesium	(mg/L)	Quarterly									
Feb-23	Manganese	(mg/L)	Quarterly									
Feb-23	Nickel	(mg/L)	Quarterly									
Feb-23	pH	pH	Quarterly									
Feb-23	Potassium	(mg/L)	Quarterly									
Feb-23	Selenium	(mg/L)	Quarterly									
Feb-23	Sodium	(mg/L)	Quarterly									
Feb-23	Standing Water Level	(m)	Quarterly									
Feb-23	Vanadium	(mg/L)	Quarterly									
Feb-23	Zinc	(mg/L)	Quarterly									

**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
Feb-23	Aluminium	(mg/L)	Quarterly									
Feb-23	Ammonia	(mg/L)	Quarterly									
Feb-23	Arsenic (III)	(mg/L)	Quarterly									
Feb-23	Arsenic (V)	(mg/L)	Quarterly									
Feb-23	Cadmium	(mg/L)	Quarterly									
Feb-23	Chromium (trivalent)	(mg/L)	Quarterly									
Feb-23	Chromium (VI) Compounds	(mg/L)	Quarterly									
Feb-23	Copper	(mg/L)	Quarterly									
Feb-23	Electrical Conductivity	(us/cm)	Quarterly									
Feb-23	Iron	(mg/L)	Quarterly									
Feb-23	Lead	(mg/L)	Quarterly									
Feb-23	Magnesium	(mg/L)	Quarterly									Next sample scheduled for April 2023
Feb-23	Manganese	(mg/L)	Quarterly									
Feb-23	Nickel	(mg/L)	Quarterly									
Feb-23	pH	pH	Quarterly									
Feb-23	Potassium	(mg/L)	Quarterly									
Feb-23	Selenium	(mg/L)	Quarterly									
Feb-23	Sodium	(mg/L)	Quarterly									
Feb-23	Standing Water Level	(m)	Quarterly									
Feb-23	Vanadium	(mg/L)	Quarterly									
Feb-23	Zinc	(mg/L)	Quarterly									

**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
Feb-23	Aluminium	(mg/L)	Quarterly									
Feb-23	Ammonia	(mg/L)	Quarterly									
Feb-23	Arsenic (III)	(mg/L)	Quarterly									
Feb-23	Arsenic (V)	(mg/L)	Quarterly									
Feb-23	Cadmium	(mg/L)	Quarterly									
Feb-23	Chromium (trivalent)	(mg/L)	Quarterly									
Feb-23	Chromium (VI) Compounds	(mg/L)	Quarterly									
Feb-23	Copper	(mg/L)	Quarterly									
Feb-23	Electrical Conductivity	(us/cm)	Quarterly									
Feb-23	Iron	(mg/L)	Quarterly									
Feb-23	Lead	(mg/L)	Quarterly									
Feb-23	Magnesium	(mg/L)	Quarterly									
Feb-23	Manganese	(mg/L)	Quarterly									
Feb-23	Nickel	(mg/L)	Quarterly									
Feb-23	pH	pH	Quarterly									
Feb-23	Potassium	(mg/L)	Quarterly									
Feb-23	Selenium	(mg/L)	Quarterly									
Feb-23	Sodium	(mg/L)	Quarterly									
Feb-23	Standing Water Level	(m)	Quarterly									
Feb-23	Vanadium	(mg/L)	Quarterly									
Feb-23	Zinc	(mg/L)	Quarterly									

**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
Feb-23	Aluminium	(mg/L)	Quarterly									
Feb-23	Ammonia	(mg/L)	Quarterly									
Feb-23	Arsenic (III)	(mg/L)	Quarterly									
Feb-23	Arsenic (V)	(mg/L)	Quarterly									
Feb-23	Cadmium	(mg/L)	Quarterly									
Feb-23	Chromium (trivalent)	(mg/L)	Quarterly									
Feb-23	Chromium (VI) Compounds	(mg/L)	Quarterly									
Feb-23	Copper	(mg/L)	Quarterly									
Feb-23	Electrical Conductivity	(us/cm)	Quarterly									
Feb-23	Iron	(mg/L)	Quarterly									Next sample scheduled for April 2023
Feb-23	Lead	(mg/L)	Quarterly									
Feb-23	Magnesium	(mg/L)	Quarterly									
Feb-23	Manganese	(mg/L)	Quarterly									
Feb-23	Nickel	(mg/L)	Quarterly									
Feb-23	pH	pH	Quarterly									
Feb-23	Potassium	(mg/L)	Quarterly									
Feb-23	Selenium	(mg/L)	Quarterly									
Feb-23	Sodium	(mg/L)	Quarterly									
Feb-23	Standing Water Level	(m)	Quarterly									
Feb-23	Vanadium	(mg/L)	Quarterly									
Feb-23	Zinc	(mg/L)	Quarterly									

**GENERAL COMMENTS**