

Vales Point Power Station Monthly Environmental Data Summary



LICENCE NO	761	http://www.epa.nsw.gov.au/prpoeoapp/
LICENCE HOLDER	SUNSET POWER INTERNATIONAL PTY LTD	
REPORTING PERIOD	March 2024	
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
Mar-24	Cadmium	(mg/m3)	Every 6 months	1	Feb 2024	0.003237	0.003237	0.003237		0.2	No	
Mar-24	Chlorine	(mg/m3)	Every 6 months	1	Feb 2024	8.577	8.577	8.577		20	No	
Mar-24	Fluorine	(mg/m3)	Every 6 months	1	Feb 2024	9.254	9.254	9.254		30	No	
Mar-24	Hydrogen chloride	(mg/m3)	Every 6 months	1	Feb 2024	0.5	0.5	0.5		50	No	
Mar-24	Mercury	(mg/m3)	Every 6 months	1	Feb 2024	0.000455	0.000455	0.000455		0.05	No	
Mar-24	Nitrogen Oxides	(mg/m3)	Continuous	95.3%	Mar-24	380	647	824	850	980	No	
Mar-24	Solid Particles	(mg/m3)	Quarterly	1	Feb 2024	1.03	1.03	1.03		50	No	
Mar-24	Sulfur dioxide	(mg/m3)	Continuous	95.2%	Mar-24	494	929	1237	1400	1700	No	
Mar-24	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months	1	Feb 2024	10.6	10.6	10.6		100	No	
Mar-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	Feb 2024	0.017	0.017	0.017		0.75	No	
Mar-24	VOC's as n-propane equivalent	(mg/m3)	Every 6 months	1	Feb 2024	0.614	0.614	0.614		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
Mar-24	Cadmium	(mg/m3)	Every 6 months	1	Feb 2024	0.0006120	0.0006120	0.0006120		0.2	No	
Mar-24	Chlorine	(mg/m3)	Every 6 months	1	Feb 2024	2.937	2.937	2.937		20	No	
Mar-24	Fluorine	(mg/m3)	Every 6 months	1	Feb 2024	16.943	16.943	16.943		30	No	
Mar-24	Hydrogen chloride	(mg/m3)	Every 6 months	1	Feb 2024	0.5	0.5	0.5		50	No	
Mar-24	Mercury	(mg/m3)	Every 6 months	1	Feb 2024	0.0005890	0.0005890	0.0005890		0.05	No	
Mar-24	Nitrogen Oxides	(mg/m3)	Continuous	88.4%	Mar-24	304	610	782	850	980	No	
Mar-24	Solid Particles	(mg/m3)	Quarterly	1	Feb 2024	3.2	3.2	3.2		50	No	
Mar-24	Sulfur dioxide	(mg/m3)	Continuous	87.2%	Mar-24	438	943	1347	1400	1700	No	
Mar-24	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months	1	Feb 2024	10.8	10.8	10.8		100	No	
Mar-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	Feb 2024	0.02670	0.02670	0.02670		0.75	No	
Mar-24	VOC's as n-propane equivalent	(mg/m3)	Every 6 months	1	Feb 2024	0.487	0.487	0.487		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
Mar-24	Cadmium	(mg/m3)	Every 6 months	1	20/2/2024	0.008512	0.008512	0.008512			N/A	
Mar-24	Carbon dioxide	(%)	Every 6 months	1	20/2/2024	11.0	11.0	11.0			N/A	
Mar-24	Chlorine	(mg/m3)	Every 6 months	1	20/2/2024	7.8	7.8	7.8			N/A	
Mar-24	Fluorine	(mg/m3)	Every 6 months	1	20/2/2024	10.13	10.13	10.13			N/A	
Mar-24	Hydrogen chloride	(mg/m3)	Every 6 months	1	20/2/2024	<0.52	<0.52	<0.52			N/A	
Mar-24	Mercury	(mg/m3)	Every 6 months	1	20/2/2024	0.00013	0.00013	0.00013			N/A	
Mar-24	Solid Particles	(mg/m3)	Quarterly	1	20/2/2024	<1.02	<1.02	<1.02			N/A	
Mar-24	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months	1	20/2/2024	10.4	10.4	10.4			N/A	
Mar-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	20/2/2024	0.029	0.029	0.029			N/A	
Mar-24	VOC's as n-propane equivalent	(mg/m3)	Every 6 months	1	20/2/2024	<0.468	<0.468	<0.468			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
Mar-24	Cadmium	(mg/m3)	Every 6 months	1	21/2/2024	0.00035	0.00035	0.00035			N/A	
Mar-24	Mercury	(mg/m3)	Every 6 months	1	21/2/2024	0.0012098	0.0012098	0.0012098			N/A	
Mar-24	Solid Particles	(mg/m3)	Quarterly	1	21/2/2024	<1.16	<1.16	<1.16			N/A	
Mar-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	21/2/2024	0.01732	0.01732	0.01732			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
Mar-24	Cadmium	(mg/m3)	Every 6 months	1	22/2/2024	0.0003233	0.0003233	0.0003233			N/A	
Mar-24	Carbon dioxide	(%)	Every 6 months	1	22/2/2024	10.8	10.8	10.8			N/A	
Mar-24	Chlorine	(mg/m3)	Every 6 months	1	22/2/2024	9.992	9.992	9.992			N/A	
Mar-24	Fluorine	(mg/m3)	Every 6 months	1	22/2/2024	7.724	7.724	7.724			N/A	
Mar-24	Hydrogen chloride	(mg/m3)	Every 6 months	1	22/2/2024	<0.5	<0.5	<0.5			N/A	
Mar-24	Mercury	(mg/m3)	Every 6 months	1	22/2/2024	0.0004257	0.0004257	0.0004257			N/A	
Mar-24	Solid Particles	(mg/m3)	Quarterly	1	22/2/2024	<1.08	<1.08	<1.08			N/A	
Mar-24	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months	1	22/2/2024	10.96	10.96	10.96			N/A	
Mar-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	22/2/2024	0.0078	0.0078	0.0078			N/A	
Mar-24	VOC's as n-propane equivalent	(mg/m3)	Every 6 months	1	22/2/2024	<0.869	<0.869	<0.869			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
Mar-24	Cadmium	(mg/m3)	Every 6 months	1	23/2/2024	0.0001836	0.0001836	0.0001836			N/A	
Mar-24	Mercury	(mg/m3)	Every 6 months	1	23/2/2024	0.0003672	0.0003672	0.0003672			N/A	
Mar-24	Solid Particles	(mg/m3)	Quarterly	1	23/2/2024	<0.918	<0.918	<0.918			N/A	
Mar-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	23/2/2024	0.00698	0.00698	0.00698			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
Mar-24	Cadmium	(mg/m3)	Every 6 months	1	29/2/2024	0.0004881	0.0004881	0.0004881			N/A	
Mar-24	Carbon dioxide	(%)	Every 6 months	1	29/2/2024	9.0	9.0	9.0			N/A	
Mar-24	Chlorine	(mg/m3)	Every 6 months	1	29/2/2024	4.5	4.5	4.5			N/A	
Mar-24	Fluorine	(mg/m3)	Every 6 months	1	29/2/2024	21.176	21.176	21.176			N/A	
Mar-24	Hydrogen chloride	(mg/m3)	Every 6 months	1	29/2/2024	<0.5	<0.5	<0.5			N/A	
Mar-24	Mercury	(mg/m3)	Every 6 months	1	29/2/2024	0.0002807	0.0002807	0.0002807			N/A	
Mar-24	Solid Particles	(mg/m3)	Quarterly	1	29/2/2024	6.1	6.1	6.1			N/A	
Mar-24	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months	1	29/2/2024	10.5	10.5	10.5			N/A	
Mar-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	29/2/2024	0.04942	0.04942	0.04942			N/A	
Mar-24	VOC's as n-propane equivalent	(mg/m3)	Every 6 months	1	29/2/2024	<0.485	<0.485	<0.485			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
Mar-24	Cadmium	(mg/m3)	Every 6 months	1	29/2/2024	0.0006965	0.0006965	0.0006965			N/A	
Mar-24	Mercury	(mg/m3)	Every 6 months	1	29/2/2024	0.0006467	0.0006467	0.0006467			N/A	
Mar-24	Solid Particles	(mg/m3)	Quarterly	1	29/2/2024	1.2	1.2	1.2			N/A	
Mar-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	29/2/2024	0.01005	0.01005	0.01005			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
Mar-24	Cadmium	(mg/m3)	Every 6 months	1	26/2/2024	0.0010241	0.0010241	0.0010241			N/A	
Mar-24	Carbon dioxide	(%)	Every 6 months	1	26/2/2024	10.4	10.4	10.4			N/A	
Mar-24	Chlorine	(mg/m3)	Every 6 months	1	26/2/2024	<0.427	<0.427	<0.427			N/A	
Mar-24	Fluorine	(mg/m3)	Every 6 months	1	26/2/2024	9.932	9.932	9.932			N/A	
Mar-24	Hydrogen chloride	(mg/m3)	Every 6 months	1	26/2/2024	0.5	0.5	0.5			N/A	
Mar-24	Mercury	(mg/m3)	Every 6 months	1	26/2/2024	0.0012410	0.0012410	0.0012410			N/A	
Mar-24	Solid Particles	(mg/m3)	Quarterly	1	26/2/2024	<1.2	<1.2	<1.2			N/A	
Mar-24	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months	1	26/2/2024	11.3	11.3	11.3			N/A	
Mar-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	26/2/2024	0.01166	0.01166	0.01166			N/A	
Mar-24	VOC's as n-propane equivalent	(mg/m3)	Every 6 months	1	26/2/2024	<0.49	<0.49	<0.49			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
Mar-24	Cadmium	(mg/m3)	Every 6 months	1	27/2/2024	0.0003993	0.0003993	0.0003993			N/A	
Mar-24	Mercury	(mg/m3)	Every 6 months	1	27/2/2024	0.0004450	0.0004450	0.0004450			N/A	
Mar-24	Solid Particles	(mg/m3)	Quarterly	1	27/2/2024	3.9	3.9	3.9			N/A	
Mar-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	27/2/2024	0.03308	0.03308	0.03308			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
Mar-24	Nitrogen Oxides	(mg/m3)	Continuous	95.3%	Mar-24	352	618	824			N/A	
Mar-24	Sulfur dioxide	(mg/m3)	Continuous	95.2%	Mar-24	451	863	1177			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
Mar-24	Nitrogen Oxides	(mg/m3)	Continuous	95.3%	Mar-24	407	675	849			N/A	
Mar-24	Sulfur dioxide	(mg/m3)	Continuous	95.2%	Mar-24	537	995	1341			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
Mar-24	Nitrogen Oxides	(mg/m3)	Continuous	86.6%	Mar-24	253	652	842			N/A	
Mar-24	Sulfur dioxide	(mg/m3)	Continuous	86.6%	Mar-24	461	981	1432			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
Mar-24	Nitrogen Oxides	(mg/m3)	Continuous	90.2%	Mar-24	356	569	777			N/A	
Mar-24	Sulfur dioxide	(mg/m3)	Continuous	87.8%	Mar-24	414	905	1262			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
Mar-24	Chlorine (free residual)	(mg/L)	Monthly during discharge	1	5/03/2024	0	0	0		0.2	No	
Mar-24	Copper	(mg/L)	Monthly during discharge	1	5/03/2024	<0.005	<0.005	<0.005		0.005	No	
Mar-24	Iron	(mg/L)	Monthly during discharge	1	5/03/2024	0.14	0.14	0.14		0.3	No	
Mar-24	Oil and Grease	Visible	Continuous during discharge	100%	Mar-24	NIL	NIL	NIL				
Mar-24	Selenium	(mg/L)	Monthly during discharge	1	5/03/2024	<0.005	<0.005	<0.005		0.005	No	
Mar-24	Temperature	(°C)	Continuous during discharge	100%	Mar-24	28.7	31.7	36.0	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
Mar-24	Aluminium	(mg/L)	Monthly during discharge	1	5/03/2024	0.19	0.19	0.19				
Mar-24	Ammonia	(mg/L)	Monthly during discharge	1	5/03/2024	0.100	0.100	0.100				
Mar-24	Arsenic (III)	(mg/L)	Monthly during discharge	1	5/03/2024	<0.002	<0.002	<0.002				
Mar-24	Arsenic (V)	(mg/L)	Monthly during discharge	1	5/03/2024	0.007	0.007	0.007				
Mar-24	Cadmium	(mg/L)	Monthly during discharge	1	5/03/2024	<0.0005	<0.0005	<0.0005				
Mar-24	Chromium (trivalent)	(mg/L)	Monthly during discharge	1	5/03/2024	<0.005	<0.005	<0.005				
Mar-24	Chromium (VI) Compounds	(mg/L)	Monthly during discharge	1	5/03/2024	0.065	0.065	0.065				
Mar-24	Copper	(mg/L)	Monthly during discharge	1	5/03/2024	0.009	0.009	0.009				
Mar-24	Iron	(mg/L)	Monthly during discharge	1	5/03/2024	0.070	0.070	0.070				
Mar-24	Lead	(mg/L)	Monthly during discharge	1	5/03/2024	<0.005	<0.005	<0.005				
Mar-24	Manganese	(mg/L)	Monthly during discharge	1	5/03/2024	<0.025	<0.025	<0.025				
Mar-24	Nickel	(mg/L)	Monthly during discharge	1	5/03/2024	<0.005	<0.005	<0.005				
Mar-24	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Monthly during discharge	1	5/03/2024	<0.005	<0.005	<0.005				
Mar-24	Nitrogen	(mg/L)	Monthly during discharge	1	5/03/2024	0.30	0.30	0.30				
Mar-24	pH	pH	Monthly during discharge	1	5/03/2024	8.96	8.96	8.96		6.5 - 9.5	No	
Mar-24	Phosphorus	(mg/L)	Monthly during discharge	1	5/03/2024	0.10	0.10	0.10				
Mar-24	Reactive Phosphorus	(mg/L)	Monthly during discharge	1	5/03/2024	0.02	0.02	0.02				
Mar-24	Selenium	(mg/L)	Monthly during discharge	1	5/03/2024	0.076	0.076	0.076				
Mar-24	Total Kjeldahl Nitrogen	(mg/L)	Monthly during discharge	1	5/03/2024	0.3	0.3	0.3				
Mar-24	Total Suspended Solids	(mg/L)	Monthly during discharge	1	5/03/2024	16	16	16		50	No	
Mar-24	Vanadium	(mg/L)	Monthly during discharge	1	5/03/2024	0.11	0.11	0.11				
Mar-24	Zinc	(mg/L)	Monthly during discharge	1	5/03/2024	0.018	0.018	0.018				

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
Mar-24	Aluminium	(mg/L)	Monthly during discharge	1	5/03/2024				No			
Mar-24	Ammonia	(mg/L)	Monthly during discharge	1	5/03/2024				No			
Mar-24	Arsenic (III)	(mg/L)	Monthly during discharge	1	5/03/2024				No			
Mar-24	Arsenic (V)	(mg/L)	Monthly during discharge	1	5/03/2024				No			
Mar-24	Cadmium	(mg/L)	Monthly during discharge	1	5/03/2024				No			
Mar-24	Chromium (trivalent)	(mg/L)	Monthly during discharge	1	5/03/2024				No			
Mar-24	Chromium (VI) Compounds	(mg/L)	Monthly during discharge	1	5/03/2024				No			
Mar-24	Copper	(mg/L)	Monthly during discharge	1	5/03/2024				No			
Mar-24	Iron	(mg/L)	Monthly during discharge	1	5/03/2024				No			
Mar-24	Lead	(mg/L)	Monthly during discharge	1	5/03/2024				No			
Mar-24	Manganese	(mg/L)	Monthly during discharge	1	5/03/2024				No			No discharge from EPA Point 24 during March 2024
Mar-24	Nickel	(mg/L)	Monthly during discharge	1	5/03/2024				No			
Mar-24	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Monthly during discharge	1	5/03/2024				No			
Mar-24	Nitrogen	(mg/L)	Monthly during discharge	1	5/03/2024				No			
Mar-24	pH	pH	Monthly during discharge	1	5/03/2024				No	6.5 - 9.5	No	
Mar-24	Phosphorus	(mg/L)	Monthly during discharge	1	5/03/2024				No			
Mar-24	Reactive Phosphorus	(mg/L)	Monthly during discharge	1	5/03/2024				No			
Mar-24	Selenium	(mg/L)	Monthly during discharge	1	5/03/2024				No			
Mar-24	Total Kjeldahl Nitrogen	(mg/L)	Monthly during discharge	1	5/03/2024				No			
Mar-24	Total Suspended Solids	(mg/L)	Monthly during discharge	1	5/03/2024				No	50	No	
Mar-24	Vanadium	(mg/L)	Monthly during discharge	1	5/03/2024				No			
Mar-24	Zinc	(mg/L)	Monthly during discharge	1	5/03/2024				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
Mar-24	Aluminium	(mg/L)	Daily for any discharge >2 hrs						No			
Mar-24	Ammonia	(mg/L)	Daily for any discharge >2 hrs						No			
Mar-24	Arsenic (III)	(mg/L)	Daily for any discharge >2 hrs						No			
Mar-24	Arsenic (V)	(mg/L)	Daily for any discharge >2 hrs						No			
Mar-24	Cadmium	(mg/L)	Daily for any discharge >2 hrs						No			
Mar-24	Chromium (trivalent)	(mg/L)	Daily for any discharge >2 hrs						No			
Mar-24	Chromium (VI) Compounds	(mg/L)	Daily for any discharge >2 hrs						No			
Mar-24	Copper	(mg/L)	Daily for any discharge >2 hrs						No			
Mar-24	Iron	(mg/L)	Daily for any discharge >2 hrs						No			
Mar-24	Lead	(mg/L)	Daily for any discharge >2 hrs						No			
Mar-24	Manganese	(mg/L)	Daily for any discharge >2 hrs						No			No discharge from EPA Point 25 during March 2024
Mar-24	Nickel	(mg/L)	Daily for any discharge >2 hrs						No			
Mar-24	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Daily for any discharge >2 hrs						No			
Mar-24	Nitrogen	(mg/L)	Daily for any discharge >2 hrs						No			
Mar-24	pH	pH	Daily for any discharge >2 hrs						No	6.5 - 9.5	No	
Mar-24	Phosphorus	(mg/L)	Daily for any discharge >2 hrs						No			
Mar-24	Reactive Phosphorus	(mg/L)	Daily for any discharge >2 hrs						No			
Mar-24	Selenium	(mg/L)	Daily for any discharge >2 hrs						No			
Mar-24	Total Kjeldahl Nitrogen	(mg/L)	Daily for any discharge >2 hrs						No			
Mar-24	Total Suspended Solids	(mg/L)	Daily for any discharge >2 hrs						No	50	No	
Mar-24	Vanadium	(mg/L)	Daily for any discharge >2 hrs						No			
Mar-24	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
Mar-24	Aluminium	(mg/L)	Quarterly									
Mar-24	Ammonia	(mg/L)	Quarterly									
Mar-24	Arsenic (III)	(mg/L)	Quarterly									
Mar-24	Arsenic (V)	(mg/L)	Quarterly									
Mar-24	Cadmium	(mg/L)	Quarterly									
Mar-24	Chromium (trivalent)	(mg/L)	Quarterly									
Mar-24	Chromium (VI) Compounds	(mg/L)	Quarterly									
Mar-24	Copper	(mg/L)	Quarterly									
Mar-24	Electrical Conductivity	(us/cm)	Quarterly									
Mar-24	Iron	(mg/L)	Quarterly									
Mar-24	Lead	(mg/L)	Quarterly									
Mar-24	Magnesium	(mg/L)	Quarterly									
Mar-24	Manganese	(mg/L)	Quarterly									
Mar-24	Nickel	(mg/L)	Quarterly									
Mar-24	pH	pH	Quarterly									
Mar-24	Potassium	(mg/L)	Quarterly									
Mar-24	Selenium	(mg/L)	Quarterly									
Mar-24	Sodium	(mg/L)	Quarterly									
Mar-24	Standing Water Level	(m)	Quarterly									
Mar-24	Vanadium	(mg/L)	Quarterly									
Mar-24	Zinc	(mg/L)	Quarterly									

Next sample scheduled for April 2024

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
Mar-24	Aluminium	(mg/L)	Quarterly									
Mar-24	Ammonia	(mg/L)	Quarterly									
Mar-24	Arsenic (III)	(mg/L)	Quarterly									
Mar-24	Arsenic (V)	(mg/L)	Quarterly									
Mar-24	Cadmium	(mg/L)	Quarterly									
Mar-24	Chromium (trivalent)	(mg/L)	Quarterly									
Mar-24	Chromium (VI) Compounds	(mg/L)	Quarterly									
Mar-24	Copper	(mg/L)	Quarterly									
Mar-24	Electrical Conductivity	(us/cm)	Quarterly									
Mar-24	Iron	(mg/L)	Quarterly									
Mar-24	Lead	(mg/L)	Quarterly									
Mar-24	Magnesium	(mg/L)	Quarterly									
Mar-24	Manganese	(mg/L)	Quarterly									
Mar-24	Nickel	(mg/L)	Quarterly									
Mar-24	pH	pH	Quarterly									
Mar-24	Potassium	(mg/L)	Quarterly									
Mar-24	Selenium	(mg/L)	Quarterly									
Mar-24	Sodium	(mg/L)	Quarterly									
Mar-24	Standing Water Level	(m)	Quarterly									
Mar-24	Vanadium	(mg/L)	Quarterly									
Mar-24	Zinc	(mg/L)	Quarterly									

Next sample scheduled for April 2024

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
Mar-24	Aluminium	(mg/L)	Quarterly									
Mar-24	Ammonia	(mg/L)	Quarterly									
Mar-24	Arsenic (III)	(mg/L)	Quarterly									
Mar-24	Arsenic (V)	(mg/L)	Quarterly									
Mar-24	Cadmium	(mg/L)	Quarterly									
Mar-24	Chromium (trivalent)	(mg/L)	Quarterly									
Mar-24	Chromium (VI) Compounds	(mg/L)	Quarterly									
Mar-24	Copper	(mg/L)	Quarterly									
Mar-24	Electrical Conductivity	(us/cm)	Quarterly									
Mar-24	Iron	(mg/L)	Quarterly									
Mar-24	Lead	(mg/L)	Quarterly									
Mar-24	Magnesium	(mg/L)	Quarterly									
Mar-24	Manganese	(mg/L)	Quarterly									
Mar-24	Nickel	(mg/L)	Quarterly									
Mar-24	pH	pH	Quarterly									
Mar-24	Potassium	(mg/L)	Quarterly									
Mar-24	Selenium	(mg/L)	Quarterly									
Mar-24	Sodium	(mg/L)	Quarterly									
Mar-24	Standing Water Level	(m)	Quarterly									
Mar-24	Vanadium	(mg/L)	Quarterly									
Mar-24	Zinc	(mg/L)	Quarterly									

Next sample scheduled for April 2024

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
Mar-24	Aluminium	(mg/L)	Quarterly									
Mar-24	Ammonia	(mg/L)	Quarterly									
Mar-24	Arsenic (III)	(mg/L)	Quarterly									
Mar-24	Arsenic (V)	(mg/L)	Quarterly									
Mar-24	Cadmium	(mg/L)	Quarterly									
Mar-24	Chromium (trivalent)	(mg/L)	Quarterly									
Mar-24	Chromium (VI) Compounds	(mg/L)	Quarterly									
Mar-24	Copper	(mg/L)	Quarterly									
Mar-24	Electrical Conductivity	(us/cm)	Quarterly									
Mar-24	Iron	(mg/L)	Quarterly									
Mar-24	Lead	(mg/L)	Quarterly									
Mar-24	Magnesium	(mg/L)	Quarterly									
Mar-24	Manganese	(mg/L)	Quarterly									
Mar-24	Nickel	(mg/L)	Quarterly									
Mar-24	pH	pH	Quarterly									
Mar-24	Potassium	(mg/L)	Quarterly									
Mar-24	Selenium	(mg/L)	Quarterly									
Mar-24	Sodium	(mg/L)	Quarterly									
Mar-24	Standing Water Level	(m)	Quarterly									
Mar-24	Vanadium	(mg/L)	Quarterly									
Mar-24	Zinc	(mg/L)	Quarterly									

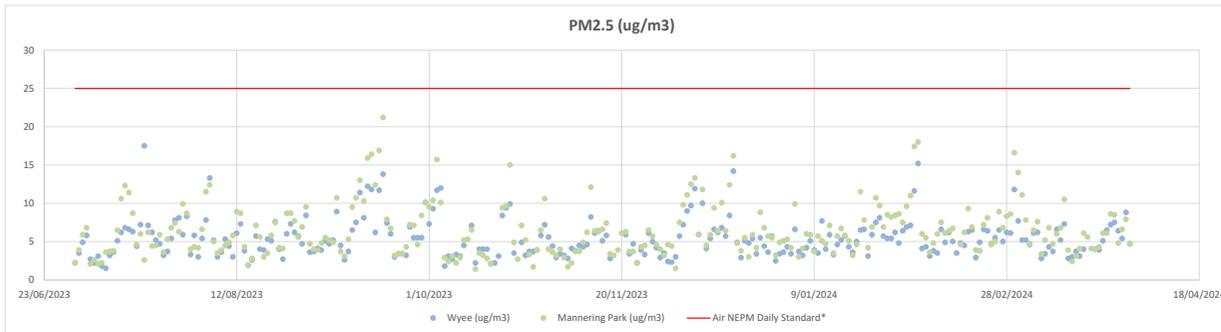
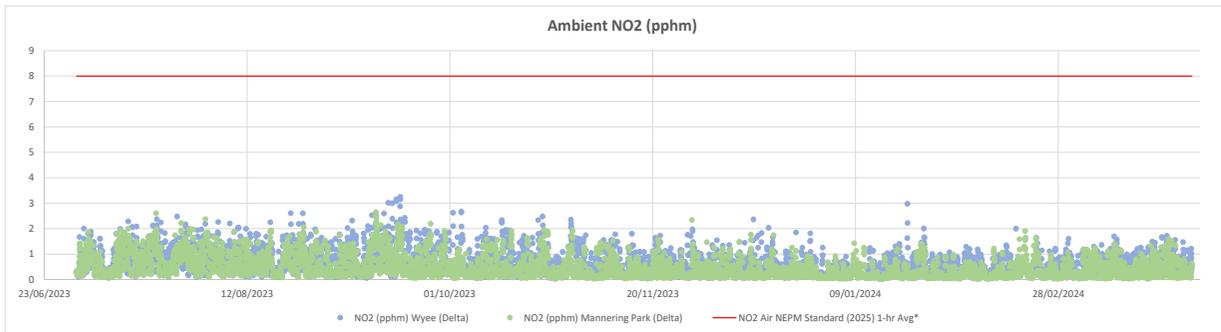
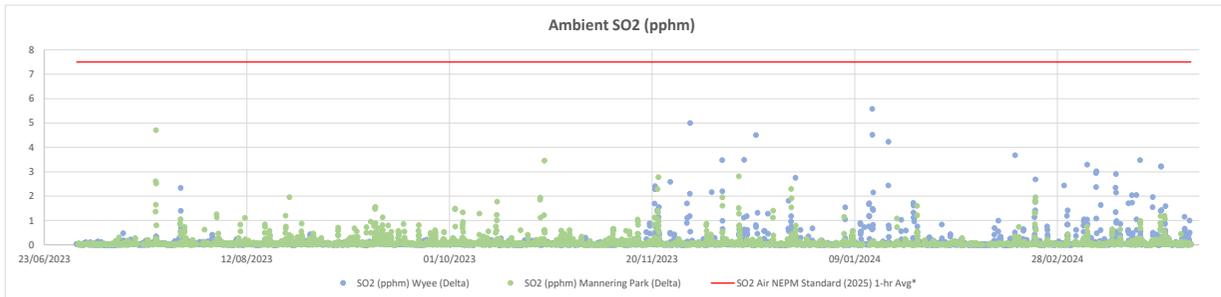
Next sample scheduled for April 2024

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
Mar-24	Aluminium	(mg/L)	Quarterly									
Mar-24	Ammonia	(mg/L)	Quarterly									
Mar-24	Arsenic (III)	(mg/L)	Quarterly									
Mar-24	Arsenic (V)	(mg/L)	Quarterly									
Mar-24	Cadmium	(mg/L)	Quarterly									
Mar-24	Chromium (trivalent)	(mg/L)	Quarterly									
Mar-24	Chromium (VI) Compounds	(mg/L)	Quarterly									
Mar-24	Copper	(mg/L)	Quarterly									
Mar-24	Electrical Conductivity	(us/cm)	Quarterly									
Mar-24	Iron	(mg/L)	Quarterly									
Mar-24	Lead	(mg/L)	Quarterly									
Mar-24	Magnesium	(mg/L)	Quarterly									Next sample scheduled for April 2024
Mar-24	Manganese	(mg/L)	Quarterly									
Mar-24	Nickel	(mg/L)	Quarterly									
Mar-24	pH	pH	Quarterly									
Mar-24	Potassium	(mg/L)	Quarterly									
Mar-24	Selenium	(mg/L)	Quarterly									
Mar-24	Sodium	(mg/L)	Quarterly									
Mar-24	Standing Water Level	(m)	Quarterly									
Mar-24	Vanadium	(mg/L)	Quarterly									
Mar-24	Zinc	(mg/L)	Quarterly									

Ambient Air Quality Graphs

POINTS 16 & 35 Meteorological and ambient air quality monitoring stations at Wyee & Manning Park marked and shown as EPA ID 16 & EPA ID 35 respectively on The Plan.



GENERAL COMMENTS

*For more information about the Australian Governments National Environment Protection (Ambient Air Quality) Measure (Air NEPM) visit <<https://www.nepc.gov.au/nepms/ambient-air-quality>>