

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	June 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
Jun-24	Cadmium	(mg/m ³)	Every 6 months							0.2	No	
Jun-24	Chlorine	(mg/m ³)	Every 6 months							20	No	
Jun-24	Fluorine	(mg/m ³)	Every 6 months							30	No	
Jun-24	Hydrogen chloride	(mg/m ³)	Every 6 months							50	No	
Jun-24	Mercury	(mg/m ³)	Every 6 months							0.05	No	
Jun-24	Nitrogen Oxides	(mg/m ³)	Continuous	89.7%	Jun-24	368	623	756	850	980	No	
Jun-24	Solid Particles	(mg/m ³)	Quarterly	1	Jun-24	3.27	3.27	3.27		50	No	
Jun-24	Sulfur dioxide	(mg/m ³)	Continuous	89.7%	Jun-24	731	893	1253	1400	1700	No	
Jun-24	Sulfuric acid mist and sulfur trioxide (as SO ₃)	(mg/m ³)	Every 6 months							100	No	
Jun-24	Type 1 and Type 2 substances in aggregate	(mg/m ³)	Every 6 months							0.75	No	
Jun-24	VOC's as n-propane equivalent	(mg/m ³)	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
Jun-24	Cadmium	(mg/m ³)	Every 6 months							0.2	No	
Jun-24	Chlorine	(mg/m ³)	Every 6 months							20	No	
Jun-24	Fluorine	(mg/m ³)	Every 6 months							30	No	
Jun-24	Hydrogen chloride	(mg/m ³)	Every 6 months							50	No	
Jun-24	Mercury	(mg/m ³)	Every 6 months							0.05	No	
Jun-24	Nitrogen Oxides	(mg/m ³)	Continuous	90.1%	Jun-24	466	610	785	850	980	No	
Jun-24	Solid Particles	(mg/m ³)	Quarterly	1	Jun-24	4.89	4.89	4.89		50	No	
Jun-24	Sulfur dioxide	(mg/m ³)	Continuous	90.1%	Jun-24	620	917	1294	1400	1700	No	
Jun-24	Sulfuric acid mist and sulfur trioxide (as SO ₃)	(mg/m ³)	Every 6 months							100	No	
Jun-24	Type 1 and Type 2 substances in aggregate	(mg/m ³)	Every 6 months							0.75	No	
Jun-24	VOC's as n-propane equivalent	(mg/m ³)	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
Jun-24	Cadmium	(mg/m ³)	Every 6 months								N/A	
Jun-24	Carbon dioxide	(%)	Every 6 months								N/A	
Jun-24	Chlorine	(mg/m ³)	Every 6 months								N/A	
Jun-24	Fluorine	(mg/m ³)	Every 6 months								N/A	
Jun-24	Hydrogen chloride	(mg/m ³)	Every 6 months								N/A	
Jun-24	Mercury	(mg/m ³)	Every 6 months								N/A	
Jun-24	Solid Particles	(mg/m ³)	Quarterly	1	5/06/2024	6.5	6.5	6.5			N/A	
Jun-24	Sulfuric acid mist and sulfur trioxide (as SO ₃)	(mg/m ³)	Every 6 months								N/A	
Jun-24	Type 1 and Type 2 substances in aggregate	(mg/m ³)	Every 6 months								N/A	
Jun-24	VOC's as n-propane equivalent	(mg/m ³)	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
Jun-24	Cadmium	(mg/m3)	Every 6 months								N/A	
Jun-24	Mercury	(mg/m3)	Every 6 months								N/A	
Jun-24	Solid Particles	(mg/m3)	Quarterly	1	5/06/2024	3.6	3.6	3.6			N/A	
Jun-24	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
Jun-24	Cadmium	(mg/m3)	Every 6 months								N/A	
Jun-24	Carbon dioxide	(%)	Every 6 months								N/A	
Jun-24	Chlorine	(mg/m3)	Every 6 months								N/A	
Jun-24	Fluorine	(mg/m3)	Every 6 months								N/A	
Jun-24	Hydrogen chloride	(mg/m3)	Every 6 months								N/A	
Jun-24	Mercury	(mg/m3)	Every 6 months								N/A	
Jun-24	Solid Particles	(mg/m3)	Quarterly	1	4/06/2024	0.9	0.9	0.9			N/A	
Jun-24	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months								N/A	
Jun-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	
Jun-24	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
Jun-24	Cadmium	(mg/m3)	Every 6 months								N/A	
Jun-24	Mercury	(mg/m3)	Every 6 months								N/A	
Jun-24	Solid Particles	(mg/m3)	Quarterly	1	4/06/2024	<0.6	<0.6	<0.6			N/A	
Jun-24	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
Jun-24	Cadmium	(mg/m3)	Every 6 months								N/A	
Jun-24	Carbon dioxide	(%)	Every 6 months								N/A	
Jun-24	Chlorine	(mg/m3)	Every 6 months								N/A	
Jun-24	Fluorine	(mg/m3)	Every 6 months								N/A	
Jun-24	Hydrogen chloride	(mg/m3)	Every 6 months								N/A	
Jun-24	Mercury	(mg/m3)	Every 6 months								N/A	
Jun-24	Solid Particles	(mg/m3)	Quarterly	1	6/06/2024	1.5	1.5	1.5			N/A	
Jun-24	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months								N/A	
Jun-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	
Jun-24	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
Jun-24	Cadmium	(mg/m3)	Every 6 months								N/A	
Jun-24	Mercury	(mg/m3)	Every 6 months								N/A	
Jun-24	Solid Particles	(mg/m3)	Quarterly	1	6/06/2024	2.2	2.2	2.2			N/A	
Jun-24	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
Jun-24	Cadmium	(mg/m3)	Every 6 months								N/A	
Jun-24	Carbon dioxide	(%)	Every 6 months								N/A	
Jun-24	Chlorine	(mg/m3)	Every 6 months								N/A	
Jun-24	Fluorine	(mg/m3)	Every 6 months								N/A	
Jun-24	Hydrogen chloride	(mg/m3)	Every 6 months								N/A	
Jun-24	Mercury	(mg/m3)	Every 6 months								N/A	
Jun-24	Solid Particles	(mg/m3)	Quarterly	1	6/06/2024	4.3	4.3	4.3			N/A	
Jun-24	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months								N/A	
Jun-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	
Jun-24	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
Jun-24	Cadmium	(mg/m3)	Every 6 months								N/A	
Jun-24	Mercury	(mg/m3)	Every 6 months								N/A	
Jun-24	Solid Particles	(mg/m3)	Quarterly	1	7/6/2024	13.4	13.4	13.4			N/A	
Jun-24	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
Jun-24	Nitrogen Oxides	(mg/m3)	Continuous	89.7%	Jun-24	359	633	765			N/A	
Jun-24	Sulfur dioxide	(mg/m3)	Continuous	89.7%	Jun-24	633	836	1174			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
Jun-24	Nitrogen Oxides	(mg/m3)	Continuous	89.7%	Jun-24	375	614	747			N/A	
Jun-24	Sulfur dioxide	(mg/m3)	Continuous	89.7%	Jun-24	784	950	1339			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
Jun-24	Nitrogen Oxides	(mg/m3)	Continuous	90.7%	Jun-24	435	606	792			N/A	
Jun-24	Sulfur dioxide	(mg/m3)	Continuous	90.7%	Jun-24	650	954	1383			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
Jun-24	Nitrogen Oxides	(mg/m3)	Continuous	89.6%	Jun-24	480	614	780			N/A	
Jun-24	Sulfur dioxide	(mg/m3)	Continuous	89.6%	Jun-24	591	880	1272			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
Jun-24	Chlorine (free residual)	(mg/L)	Monthly during discharge	1	5/06/2024	0	0	0		0.2	No	
Jun-24	Copper	(mg/L)	Monthly during discharge	1	5/06/2024	0.001	0.001	0.001		0.005	No	
Jun-24	Iron	(mg/L)	Monthly during discharge	1	5/06/2024	0.11	0.11	0.11		0.3	No	
Jun-24	Oil and Grease	Visible	Continuous during discharge	100%	Jun-24	NIL	NIL	NIL				
Jun-24	Selenium	(mg/L)	Monthly during discharge	1	5/06/2024	0.001	0.001	0.001		0.005	No	
Jun-24	Temperature	(°C)	Continuous during discharge	100%	Jun-24	20.4	25.8	30.4	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
Jun-24	Aluminium	(mg/L)	Monthly during discharge	1	5/06/2024	0.15	0.15	0.15				
Jun-24	Ammonia	(mg/L)	Monthly during discharge	1	5/06/2024	0.097	0.097	0.097				
Jun-24	Arsenic (III)	(mg/L)	Monthly during discharge	1	5/06/2024	<0.001	<0.001	<0.001				
Jun-24	Arsenic (V)	(mg/L)	Monthly during discharge	1	5/06/2024	0.004	0.004	0.004				
Jun-24	Cadmium	(mg/L)	Monthly during discharge	1	5/06/2024	<0.0001	<0.0001	<0.0001				
Jun-24	Chromium (trivalent)	(mg/L)	Monthly during discharge	1	5/06/2024	<0.005	<0.005	<0.005				
Jun-24	Chromium (VI) Compounds	(mg/L)	Monthly during discharge	1	5/06/2024	0.020	0.020	0.020				
Jun-24	Copper	(mg/L)	Monthly during discharge	1	5/06/2024	<0.001	<0.001	<0.001				
Jun-24	Iron	(mg/L)	Monthly during discharge	1	5/06/2024	0.280	0.280	0.280				
Jun-24	Lead	(mg/L)	Monthly during discharge	1	5/06/2024	<0.001	<0.001	<0.001				
Jun-24	Manganese	(mg/L)	Monthly during discharge	1	5/06/2024	0.0120	0.0120	0.0120				
Jun-24	Nickel	(mg/L)	Monthly during discharge	1	5/06/2024	0.001	0.001	0.001				
Jun-24	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Monthly during discharge	1	5/06/2024	0.088	0.088	0.088				
Jun-24	Nitrogen	(mg/L)	Monthly during discharge	1	5/06/2024	0.40	0.40	0.40				
Jun-24	pH	pH	Monthly during discharge	1	5/06/2024	8.67	8.67	8.67		6.5 - 9.5	No	
Jun-24	Phosphorus	(mg/L)	Monthly during discharge	1	5/06/2024	0.07	0.07	0.07				
Jun-24	Reactive Phosphorus	(mg/L)	Monthly during discharge	1	5/06/2024	0.04	0.04	0.04				
Jun-24	Selenium	(mg/L)	Monthly during discharge	1	5/06/2024	0.022	0.022	0.022				
Jun-24	Total Kjeldahl Nitrogen	(mg/L)	Monthly during discharge	1	5/06/2024	0.3	0.3	0.3				
Jun-24	Total Suspended Solids	(mg/L)	Monthly during discharge	1	5/06/2024	9	9	9		50	No	
Jun-24	Vanadium	(mg/L)	Monthly during discharge	1	5/06/2024	0.04	0.04	0.04				
Jun-24	Zinc	(mg/L)	Monthly during discharge	1	5/06/2024	0.007	0.007	0.007				

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
Jun-24	Aluminium	(mg/L)	Monthly during discharge	1	5/06/2024				No			
Jun-24	Ammonia	(mg/L)	Monthly during discharge	1	5/06/2024				No			
Jun-24	Arsenic (III)	(mg/L)	Monthly during discharge	1	5/06/2024				No			
Jun-24	Arsenic (V)	(mg/L)	Monthly during discharge	1	5/06/2024				No			
Jun-24	Cadmium	(mg/L)	Monthly during discharge	1	5/06/2024				No			
Jun-24	Chromium (trivalent)	(mg/L)	Monthly during discharge	1	5/06/2024				No			
Jun-24	Chromium (VI) Compounds	(mg/L)	Monthly during discharge	1	5/06/2024				No			
Jun-24	Copper	(mg/L)	Monthly during discharge	1	5/06/2024				No			
Jun-24	Iron	(mg/L)	Monthly during discharge	1	5/06/2024				No			
Jun-24	Lead	(mg/L)	Monthly during discharge	1	5/06/2024				No			
Jun-24	Manganese	(mg/L)	Monthly during discharge	1	5/06/2024				No			No discharge from EPA Point 24 during June 2024
Jun-24	Nickel	(mg/L)	Monthly during discharge	1	5/06/2024				No			
Jun-24	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Monthly during discharge	1	5/06/2024				No			
Jun-24	Nitrogen	(mg/L)	Monthly during discharge	1	5/06/2024				No			
Jun-24	pH	pH	Monthly during discharge	1	5/06/2024				No	6.5 - 9.5	No	
Jun-24	Phosphorus	(mg/L)	Monthly during discharge	1	5/06/2024				No			
Jun-24	Reactive Phosphorus	(mg/L)	Monthly during discharge	1	5/06/2024				No			
Jun-24	Selenium	(mg/L)	Monthly during discharge	1	5/06/2024				No			
Jun-24	Total Kjeldahl Nitrogen	(mg/L)	Monthly during discharge	1	5/06/2024				No			
Jun-24	Total Suspended Solids	(mg/L)	Monthly during discharge	1	5/06/2024				No	50	No	
Jun-24	Vanadium	(mg/L)	Monthly during discharge	1	5/06/2024				No			
Jun-24	Zinc	(mg/L)	Monthly during discharge	1	5/06/2024				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
Jun-24	Aluminium	(mg/L)	Daily for any discharge >2 hrs						No			
Jun-24	Ammonia	(mg/L)	Daily for any discharge >2 hrs						No			
Jun-24	Arsenic (III)	(mg/L)	Daily for any discharge >2 hrs						No			
Jun-24	Arsenic (V)	(mg/L)	Daily for any discharge >2 hrs						No			
Jun-24	Cadmium	(mg/L)	Daily for any discharge >2 hrs						No			
Jun-24	Chromium (trivalent)	(mg/L)	Daily for any discharge >2 hrs						No			
Jun-24	Chromium (VI) Compounds	(mg/L)	Daily for any discharge >2 hrs						No			
Jun-24	Copper	(mg/L)	Daily for any discharge >2 hrs						No			
Jun-24	Iron	(mg/L)	Daily for any discharge >2 hrs						No			
Jun-24	Lead	(mg/L)	Daily for any discharge >2 hrs						No			
Jun-24	Manganese	(mg/L)	Daily for any discharge >2 hrs						No			
Jun-24	Nickel	(mg/L)	Daily for any discharge >2 hrs						No			No discharge from EPA Point 25 during June 2024
Jun-24	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Daily for any discharge >2 hrs						No			
Jun-24	Nitrogen	(mg/L)	Daily for any discharge >2 hrs						No			
Jun-24	pH	pH	Daily for any discharge >2 hrs						No	6.5 - 9.5		
Jun-24	Phosphorus	(mg/L)	Daily for any discharge >2 hrs						No			
Jun-24	Reactive Phosphorus	(mg/L)	Daily for any discharge >2 hrs						No			
Jun-24	Selenium	(mg/L)	Daily for any discharge >2 hrs						No			
Jun-24	Total Kjeldahl Nitrogen	(mg/L)	Daily for any discharge >2 hrs						No			
Jun-24	Total Suspended Solids	(mg/L)	Daily for any discharge >2 hrs						No	50		
Jun-24	Vanadium	(mg/L)	Daily for any discharge >2 hrs						No			
Jun-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
Jun-24	Aluminium	(mg/L)	Quarterly									
Jun-24	Ammonia	(mg/L)	Quarterly									
Jun-24	Arsenic (III)	(mg/L)	Quarterly									
Jun-24	Arsenic (V)	(mg/L)	Quarterly									
Jun-24	Cadmium	(mg/L)	Quarterly									
Jun-24	Chromium (trivalent)	(mg/L)	Quarterly									
Jun-24	Chromium (VI) Compounds	(mg/L)	Quarterly									
Jun-24	Copper	(mg/L)	Quarterly									
Jun-24	Electrical Conductivity	(us/cm)	Quarterly									
Jun-24	Iron	(mg/L)	Quarterly									
Jun-24	Lead	(mg/L)	Quarterly									
Jun-24	Magnesium	(mg/L)	Quarterly									
Jun-24	Manganese	(mg/L)	Quarterly									
Jun-24	Nickel	(mg/L)	Quarterly									
Jun-24	pH	pH	Quarterly									
Jun-24	Potassium	(mg/L)	Quarterly									
Jun-24	Selenium	(mg/L)	Quarterly									
Jun-24	Sodium	(mg/L)	Quarterly									
Jun-24	Standing Water Level	(m)	Quarterly									
Jun-24	Vanadium	(mg/L)	Quarterly									
Jun-24	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
Jun-24	Aluminium	(mg/L)	Quarterly									
Jun-24	Ammonia	(mg/L)	Quarterly									
Jun-24	Arsenic (III)	(mg/L)	Quarterly									
Jun-24	Arsenic (V)	(mg/L)	Quarterly									
Jun-24	Cadmium	(mg/L)	Quarterly									
Jun-24	Chromium (trivalent)	(mg/L)	Quarterly									
Jun-24	Chromium (VI) Compounds	(mg/L)	Quarterly									
Jun-24	Copper	(mg/L)	Quarterly									
Jun-24	Electrical Conductivity	(us/cm)	Quarterly									
Jun-24	Iron	(mg/L)	Quarterly									
Jun-24	Lead	(mg/L)	Quarterly									
Jun-24	Magnesium	(mg/L)	Quarterly									
Jun-24	Manganese	(mg/L)	Quarterly									
Jun-24	Nickel	(mg/L)	Quarterly									
Jun-24	pH	pH	Quarterly									
Jun-24	Potassium	(mg/L)	Quarterly									
Jun-24	Selenium	(mg/L)	Quarterly									
Jun-24	Sodium	(mg/L)	Quarterly									
Jun-24	Standing Water Level	(m)	Quarterly									
Jun-24	Vanadium	(mg/L)	Quarterly									
Jun-24	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
Jun-24	Aluminium	(mg/L)	Quarterly									
Jun-24	Ammonia	(mg/L)	Quarterly									
Jun-24	Arsenic (III)	(mg/L)	Quarterly									
Jun-24	Arsenic (V)	(mg/L)	Quarterly									
Jun-24	Cadmium	(mg/L)	Quarterly									
Jun-24	Chromium (trivalent)	(mg/L)	Quarterly									
Jun-24	Chromium (VI) Compounds	(mg/L)	Quarterly									
Jun-24	Copper	(mg/L)	Quarterly									
Jun-24	Electrical Conductivity	(us/cm)	Quarterly									
Jun-24	Iron	(mg/L)	Quarterly									
Jun-24	Lead	(mg/L)	Quarterly									
Jun-24	Magnesium	(mg/L)	Quarterly									
Jun-24	Manganese	(mg/L)	Quarterly									
Jun-24	Nickel	(mg/L)	Quarterly									
Jun-24	pH	pH	Quarterly									
Jun-24	Potassium	(mg/L)	Quarterly									
Jun-24	Selenium	(mg/L)	Quarterly									
Jun-24	Sodium	(mg/L)	Quarterly									
Jun-24	Standing Water Level	(m)	Quarterly									
Jun-24	Vanadium	(mg/L)	Quarterly									
Jun-24	Zinc	(mg/L)	Quarterly									

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

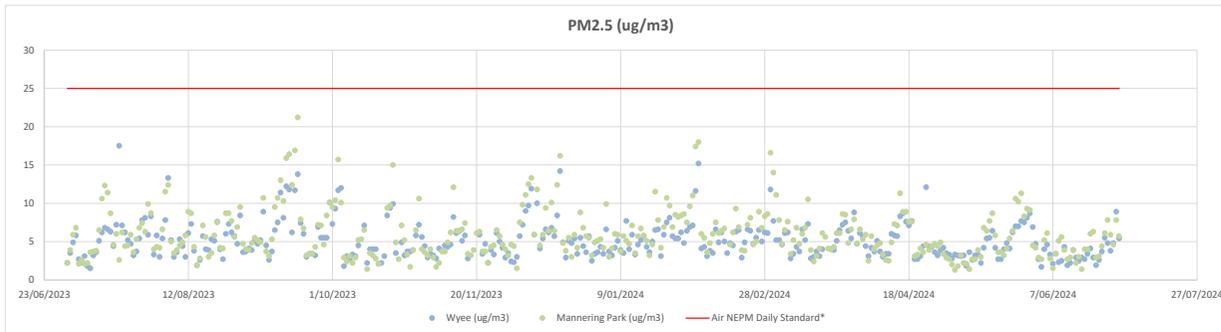
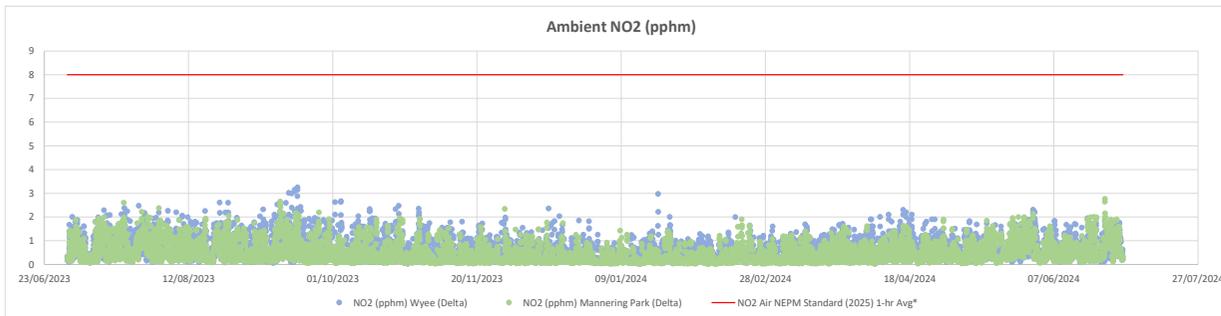
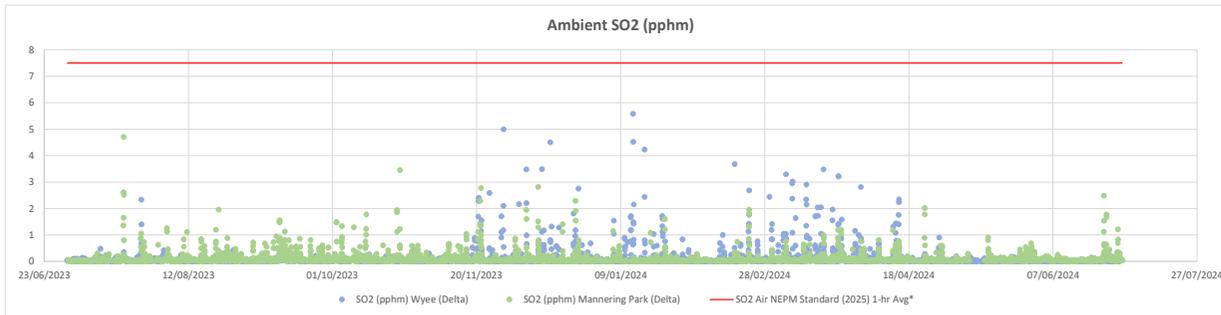
Next sample scheduled for July 2024

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

Ambient Air Quality Graphs

POINTS 16 & 35 Meteorological and ambient air quality monitoring stations at Wyeec & Mannering 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>>