

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 2025	
ADDRESS	VALES ROAD, MANNERING PARK NSW	

Compliance Summary

Were all licence monitoring limits met this month?

No

Details of any licence monitoring limit not complied with this month if applicable:

EPL Point	Air/Water/Noise/Other	Pollutant	Value Measured	Licence Limit	Comments
EPA 25	Water	pH	9.02 - 9.41	6.5 - 9.0	pH downstream of EPA 25 discharge was measured to be between 6.85 and 7.92 during exceedances of the pH licence limit.
EPA 25	Water	TSS	60	50	TSS measured at EPA25 the day prior to and day after the exceedance were both below the licence limit.

Monitoring Locations

The location of Environment Protection Licence monitoring points within the Vales Point Power Station premises can be found at <https://www.de.com.au/environment/environmental-licences-and-monitoring> . Click the heading "Vales Point Licence Points" to open the pdf document.

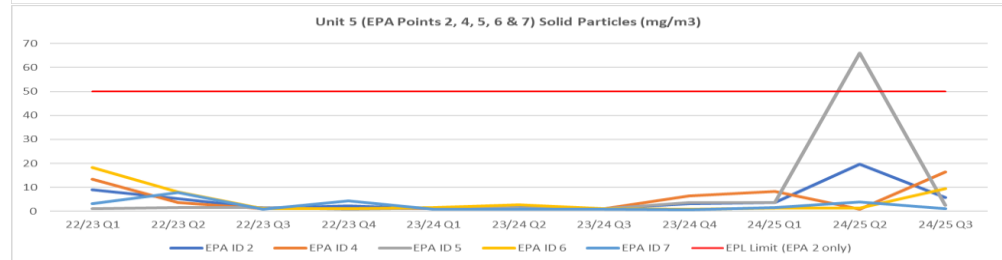
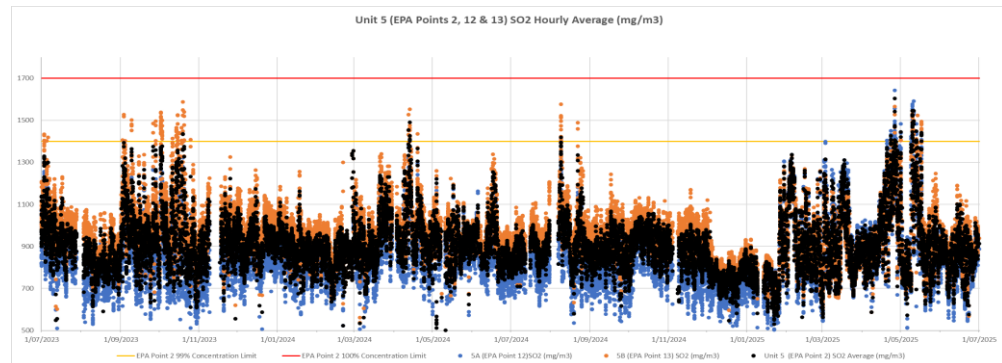
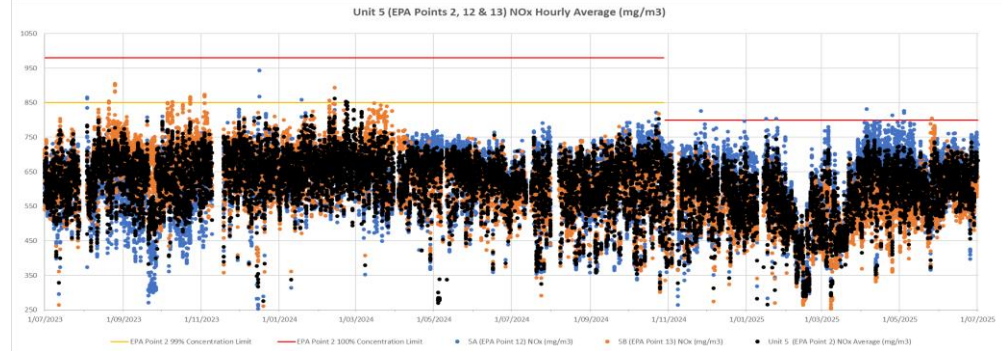
Comments

Discharge from EPA 25 during May & June was associated with the NSW East Coast severe weather event. Vales Point power station recorded 544mm of rain within a 31-day period. Discharge at EPA25 ceased on 5 June 2025.



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-25	Cadmium	(mg/m ³)	Every 6 months							0.03	No	
Jun-25	Chlorine	(mg/m ³)	Every 6 months							4	No	
Jun-25	Fluorine	(mg/m ³)	Every 6 months							30	No	
Jun-25	Hydrogen chloride	(mg/m ³)	Every 6 months							50	No	
Jun-25	Mercury	(mg/m ³)	Every 6 months							0.03	No	
Jun-25	Nitrogen Oxides	(mg/m ³)	Continuous	99.3%	Jun-25	456	620	735		800	No	
Jun-25	Solid Particles	(mg/m ³)	Quarterly							50	No	
Jun-25	Sulfur dioxide	(mg/m ³)	Continuous	99.3%	Jun-25	576	855	1100	1400	1700	No	
Jun-25	Sulfuric acid mist and sulfur trioxide (as SO ₃)	(mg/m ³)	Every 6 months							100	No	
Jun-25	Type 1 and Type 2 substances in aggregate	(mg/m ³)	Every 6 months							0.6	No	
Jun-25	VOC's as n-propane equivalent	(mg/m ³)	Every 6 months							8	No	

The 100% Concentration limits in the below graphs apply to EPA Point 2 only. EPA Point 2 is the combined emissions from EPA Points 12 & 13 for NOx and SO2 and EPA Points 4, 5, 6 & 7 for Particulates.



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-25	Cadmium	(mg/m ³)	Every 6 months							0.03	No	
Jun-25	Chlorine	(mg/m ³)	Every 6 months							4	No	
Jun-25	Fluorine	(mg/m ³)	Every 6 months							30	No	
Jun-25	Hydrogen chloride	(mg/m ³)	Every 6 months							50	No	
Jun-25	Mercury	(mg/m ³)	Every 6 months							0.03	No	
Jun-25	Nitrogen Oxides	(mg/m ³)	Continuous	98.1%	Jun-25	377	543	690		800	No	
Jun-25	Solid Particles	(mg/m ³)	Quarterly							50	No	
Jun-25	Sulfur dioxide	(mg/m ³)	Continuous	98.2%	Jun-25	589	861	1096	1400	1700	No	
Jun-25	Sulfuric acid mist and sulfur trioxide (as SO ₃)	(mg/m ³)	Every 6 months							100	No	
Jun-25	Type 1 and Type 2 substances in aggregate	(mg/m ³)	Every 6 months							0.6	No	
Jun-25	VOC's as n-propane equivalent	(mg/m ³)	Every 6 months							8	No	

The 100% Concentration limits in the below graphs apply to EPA Point 3 only. EPA Point 3 is the combined Emissions from EPA Points 14 & 15 for NOx and SO2 and EPA Points 8, 9, 10 & 11 for Particulates.



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-25	Cadmium	(mg/m3)	Every 6 months								N/A	
Jun-25	Carbon dioxide	(%)	Every 6 months								N/A	
Jun-25	Chlorine	(mg/m3)	Every 6 months								N/A	
Jun-25	Fluorine	(mg/m3)	Every 6 months								N/A	
Jun-25	Hydrogen chloride	(mg/m3)	Every 6 months								N/A	
Jun-25	Mercury	(mg/m3)	Every 6 months								N/A	
Jun-25	Solid Particles	(mg/m3)	Quarterly								N/A	
Jun-25	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months								N/A	
Jun-25	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	
Jun-25	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
Jun-25	Cadmium	(mg/m3)	Every 6 months								N/A	
Jun-25	Mercury	(mg/m3)	Every 6 months								N/A	
Jun-25	Solid Particles	(mg/m3)	Quarterly								N/A	
Jun-25	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-25	Cadmium	(mg/m3)	Every 6 months								N/A	
Jun-25	Carbon dioxide	(%)	Every 6 months								N/A	
Jun-25	Chlorine	(mg/m3)	Every 6 months								N/A	
Jun-25	Fluorine	(mg/m3)	Every 6 months								N/A	
Jun-25	Hydrogen chloride	(mg/m3)	Every 6 months								N/A	
Jun-25	Mercury	(mg/m3)	Every 6 months								N/A	
Jun-25	Solid Particles	(mg/m3)	Quarterly								N/A	
Jun-25	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months								N/A	
Jun-25	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	
Jun-25	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-25	Cadmium	(mg/m3)	Every 6 months								N/A	
Jun-25	Mercury	(mg/m3)	Every 6 months								N/A	
Jun-25	Solid Particles	(mg/m3)	Quarterly								N/A	
Jun-25	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-25	Cadmium	(mg/m3)	Every 6 months								N/A	
Jun-25	Carbon dioxide	(%)	Every 6 months								N/A	
Jun-25	Chlorine	(mg/m3)	Every 6 months								N/A	
Jun-25	Fluorine	(mg/m3)	Every 6 months								N/A	
Jun-25	Hydrogen chloride	(mg/m3)	Every 6 months								N/A	
Jun-25	Mercury	(mg/m3)	Every 6 months								N/A	
Jun-25	Solid Particles	(mg/m3)	Quarterly								N/A	
Jun-25	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months								N/A	
Jun-25	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	
Jun-25	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-25	Cadmium	(mg/m3)	Every 6 months								N/A	
Jun-25	Mercury	(mg/m3)	Every 6 months								N/A	
Jun-25	Solid Particles	(mg/m3)	Quarterly								N/A	
Jun-25	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-25	Cadmium	(mg/m3)	Every 6 months								N/A	
Jun-25	Carbon dioxide	(%)	Every 6 months								N/A	
Jun-25	Chlorine	(mg/m3)	Every 6 months								N/A	
Jun-25	Fluorine	(mg/m3)	Every 6 months								N/A	
Jun-25	Hydrogen chloride	(mg/m3)	Every 6 months								N/A	
Jun-25	Mercury	(mg/m3)	Every 6 months								N/A	
Jun-25	Solid Particles	(mg/m3)	Quarterly								N/A	
Jun-25	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months								N/A	
Jun-25	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	
Jun-25	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-25	Cadmium	(mg/m3)	Every 6 months								N/A	
Jun-25	Mercury	(mg/m3)	Every 6 months								N/A	
Jun-25	Solid Particles	(mg/m3)	Quarterly								N/A	
Jun-25	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-25	Nitrogen Oxides	(mg/m3)	Continuous	99.3%	Jun-25	398	640	765			N/A	
Jun-25	Sulfur dioxide	(mg/m3)	Continuous	99.3%	Jun-25	545	814	1054			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-25	Nitrogen Oxides	(mg/m3)	Continuous	99.3%	Jun-25	481	600	739			N/A	
Jun-25	Sulfur dioxide	(mg/m3)	Continuous	99.3%	Jun-25	568	897	1189			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-25	Nitrogen Oxides	(mg/m3)	Continuous	97.8%	Jun-25	326	512	694			N/A	
Jun-25	Sulfur dioxide	(mg/m3)	Continuous	97.8%	Jun-25	387	930	1209			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-25	Nitrogen Oxides	(mg/m3)	Continuous	98.4%	Jun-25	409	575	714			N/A	
Jun-25	Sulfur dioxide	(mg/m3)	Continuous	98.6%	Jun-25	531	792	1015			N/A	

POINT 22 Discharge of cooling water from the cooling water outlet canal to Wyee 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-25	Chlorine (free residual)	(mg/L)	Monthly during discharge	1	3/06/2025	0	0	0		0.2	No	
Jun-25	Copper	(mg/L)	Monthly during discharge	1	3/06/2025	0.001	0.001	0.001		0.005	No	
Jun-25	Iron	(mg/L)	Monthly during discharge	1	3/06/2025	0.18	0.18	0.18		0.3	No	
Jun-25	Oil and Grease	Visible	Continuous during discharge	100%	Jun-25	NIL	NIL	NIL				
Jun-25	Selenium	(mg/L)	Monthly during discharge	1	3/06/2025	0.001	0.001	0.001		0.005	No	
Jun-25	Temperature	(°C)	Continuous during discharge	100%	Jun-25	19.8	24.7	29.7	35	37.5	No	

POINT 23 Discharge of supernatant water from the ash dam to the cooling water outlet canal to Wyee 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-25	Aluminium	(mg/L)	Monthly during discharge	1	3/06/2025	0.07	0.07	0.07				
Jun-25	Ammonia	(mg/L)	Monthly during discharge	1	3/06/2025	0.110	0.110	0.110				
Jun-25	Arsenic (III)	(mg/L)	Monthly during discharge	1	3/06/2025	<0.001	<0.001	<0.001				
Jun-25	Arsenic (V)	(mg/L)	Monthly during discharge	1	3/06/2025	0.009	0.009	0.009				
Jun-25	Cadmium	(mg/L)	Monthly during discharge	1	3/06/2025	<0.0001	<0.0001	<0.0001				
Jun-25	Chromium (trivalent)	(mg/L)	Monthly during discharge	1	3/06/2025	<0.005	<0.005	<0.005				
Jun-25	Chromium (VI) Compounds	(mg/L)	Monthly during discharge	1	3/06/2025	0.02	0.02	0.02				
Jun-25	Copper	(mg/L)	Monthly during discharge	1	3/06/2025	0.003	0.003	0.003				
Jun-25	Iron	(mg/L)	Monthly during discharge	1	3/06/2025	0.22	0.22	0.22				
Jun-25	Lead	(mg/L)	Monthly during discharge	1	3/06/2025	<0.001	<0.001	<0.001				
Jun-25	Manganese	(mg/L)	Monthly during discharge	1	3/06/2025	0.015	0.015	0.015				
Jun-25	Nickel	(mg/L)	Monthly during discharge	1	3/06/2025	<0.001	<0.001	<0.001				
Jun-25	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Monthly during discharge	1	3/06/2025	5.15	5.15	5.15				
Jun-25	Nitrogen	(mg/L)	Monthly during discharge	1	3/06/2025	5.4	5.4	5.4				
Jun-25	pH	pH	Monthly during discharge	1	3/06/2025	9.09	9.09	9.09		6.5 - 9.5	No	
Jun-25	Phosphorus	(mg/L)	Monthly during discharge	1	3/06/2025	0.08	0.08	0.08				
Jun-25	Reactive Phosphorus	(mg/L)	Monthly during discharge	1	3/06/2025	0.05	0.05	0.05				
Jun-25	Selenium	(mg/L)	Monthly during discharge	1	3/06/2025	0.029	0.029	0.029				
Jun-25	Total Kjeldahl Nitrogen	(mg/L)	Monthly during discharge	1	3/06/2025	0.2	0.2	0.2				
Jun-25	Total Suspended Solids	(mg/L)	Monthly during discharge	1	3/06/2025	<5	<5	<5		50	No	
Jun-25	Vanadium	(mg/L)	Monthly during discharge	1	3/06/2025	0.065	0.065	0.065				
Jun-25	Zinc	(mg/L)	Monthly during discharge	1	3/06/2025	0.013	0.013	0.013				

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-25	Aluminium	(mg/L)	Monthly during discharge	1	3/06/2025				No			
Jun-25	Ammonia	(mg/L)	Monthly during discharge	1	3/06/2025				No			
Jun-25	Arsenic (III)	(mg/L)	Monthly during discharge	1	3/06/2025				No			
Jun-25	Arsenic (V)	(mg/L)	Monthly during discharge	1	3/06/2025				No			
Jun-25	Cadmium	(mg/L)	Monthly during discharge	1	3/06/2025				No			
Jun-25	Chromium (trivalent)	(mg/L)	Monthly during discharge	1	3/06/2025				No			
Jun-25	Chromium (VI) Compounds	(mg/L)	Monthly during discharge	1	3/06/2025				No			
Jun-25	Copper	(mg/L)	Monthly during discharge	1	3/06/2025				No			
Jun-25	Iron	(mg/L)	Monthly during discharge	1	3/06/2025				No			
Jun-25	Lead	(mg/L)	Monthly during discharge	1	3/06/2025				No			
Jun-25	Manganese	(mg/L)	Monthly during discharge	1	3/06/2025				No			
Jun-25	Nickel	(mg/L)	Monthly during discharge	1	3/06/2025				No			
Jun-25	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Monthly during discharge	1	3/06/2025				No			
Jun-25	Nitrogen	(mg/L)	Monthly during discharge	1	3/06/2025				No			
Jun-25	pH	pH	Monthly during discharge	1	3/06/2025				No	6.5 - 9.5	No	
Jun-25	Phosphorus	(mg/L)	Monthly during discharge	1	3/06/2025				No			
Jun-25	Reactive Phosphorus	(mg/L)	Monthly during discharge	1	3/06/2025				No			
Jun-25	Selenium	(mg/L)	Monthly during discharge	1	3/06/2025				No			
Jun-25	Total Kjeldahl Nitrogen	(mg/L)	Monthly during discharge	1	3/06/2025				No			
Jun-25	Total Suspended Solids	(mg/L)	Monthly during discharge	1	3/06/2025				No	50	No	
Jun-25	Vanadium	(mg/L)	Monthly during discharge	1	3/06/2025				No			
Jun-25	Zinc	(mg/L)	Monthly during discharge	1	3/06/2025				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-25	Aluminium	(mg/L)	Daily for any discharge >2 hrs	5	June 2025	0.15	0.2	0.27	Yes			
Jun-25	Ammonia	(mg/L)	Daily for any discharge >2 hrs	5	June 2025	0.006	0.0	0.059	Yes			
Jun-25	Arsenic (III)	(mg/L)	Daily for any discharge >2 hrs	5	June 2025	<0.001	<0.001	<0.001	Yes			
Jun-25	Arsenic (V)	(mg/L)	Daily for any discharge >2 hrs	5	June 2025	0.006	0.008	0.01	Yes			
Jun-25	Cadmium	(mg/L)	Daily for any discharge >2 hrs	5	June 2025	<0.0001	<0.0001	<0.0001	Yes			
Jun-25	Chromium (trivalent)	(mg/L)	Daily for any discharge >2 hrs	5	June 2025	<0.005	0.0022	0.01	Yes			
Jun-25	Chromium (VI) Compounds	(mg/L)	Daily for any discharge >2 hrs	5	June 2025	0.02	0.02	0.02	Yes			
Jun-25	Copper	(mg/L)	Daily for any discharge >2 hrs	5	June 2025	<0.001	0.0012	0.002	Yes			
Jun-25	Iron	(mg/L)	Daily for any discharge >2 hrs	5	June 2025	0.18	0.22	0.24	Yes			
Jun-25	Lead	(mg/L)	Daily for any discharge >2 hrs	5	June 2025	<0.001	<0.001	<0.001	Yes			
Jun-25	Manganese	(mg/L)	Daily for any discharge >2 hrs	5	June 2025	0.007	0.009	0.010	Yes			
Jun-25	Nickel	(mg/L)	Daily for any discharge >2 hrs	5	June 2025	<0.001	0.0004	0.001	Yes			
Jun-25	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Daily for any discharge >2 hrs	5	June 2025	0.15	0.57	0.98	Yes			
Jun-25	Nitrogen	(mg/L)	Daily for any discharge >2 hrs	5	June 2025	0.5	0.8	1	Yes			
Jun-25	pH	pH	Daily for any discharge >2 hrs	5	June 2025	9.02	9.29	9.41	Yes	6.5 - 9	Yes	
Jun-25	Phosphorus	(mg/L)	Daily for any discharge >2 hrs	5	June 2025	<0.05	0.05	0.08	Yes			
Jun-25	Reactive Phosphorus	(mg/L)	Daily for any discharge >2 hrs	5	June 2025	0.030	0.032	0.040	Yes			
Jun-25	Selenium	(mg/L)	Daily for any discharge >2 hrs	5	June 2025	0.022	0.030	0.039	Yes			
Jun-25	Total Kjeldahl Nitrogen	(mg/L)	Daily for any discharge >2 hrs	5	June 2025	<0.1	0.3	0.4	Yes			
Jun-25	Total Suspended Solids	(mg/L)	Daily for any discharge >2 hrs	5	June 2025	10	25	60	Yes	50	Yes	
Jun-25	Vanadium	(mg/L)	Daily for any discharge >2 hrs	5	June 2025	0.061	0.07	0.089	Yes			
Jun-25	Zinc	(mg/L)	Daily for any discharge >2 hrs	5	June 2025	0.007	0.017	0.03	Yes			

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-25	Aluminium	(mg/L)	Quarterly									
Jun-25	Ammonia	(mg/L)	Quarterly									
Jun-25	Arsenic (III)	(mg/L)	Quarterly									
Jun-25	Arsenic (V)	(mg/L)	Quarterly									
Jun-25	Cadmium	(mg/L)	Quarterly									
Jun-25	Chromium (trivalent)	(mg/L)	Quarterly									
Jun-25	Chromium (VI) Compounds	(mg/L)	Quarterly									
Jun-25	Copper	(mg/L)	Quarterly									
Jun-25	Electrical Conductivity	(us/cm)	Quarterly									
Jun-25	Iron	(mg/L)	Quarterly									
Jun-25	Lead	(mg/L)	Quarterly									Next round of quarterly groundwater sampling scheduled for July 2025
Jun-25	Magnesium	(mg/L)	Quarterly									
Jun-25	Manganese	(mg/L)	Quarterly									
Jun-25	Nickel	(mg/L)	Quarterly									
Jun-25	pH	pH	Quarterly									
Jun-25	Potassium	(mg/L)	Quarterly									
Jun-25	Selenium	(mg/L)	Quarterly									
Jun-25	Sodium	(mg/L)	Quarterly									
Jun-25	Standing Water Level	(m)	Quarterly									
Jun-25	Vanadium	(mg/L)	Quarterly									
Jun-25	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-25	Aluminium	(mg/L)	Quarterly									
Jun-25	Ammonia	(mg/L)	Quarterly									
Jun-25	Arsenic (III)	(mg/L)	Quarterly									
Jun-25	Arsenic (V)	(mg/L)	Quarterly									
Jun-25	Cadmium	(mg/L)	Quarterly									
Jun-25	Chromium (trivalent)	(mg/L)	Quarterly									
Jun-25	Chromium (VI) Compounds	(mg/L)	Quarterly									
Jun-25	Copper	(mg/L)	Quarterly									
Jun-25	Electrical Conductivity	(us/cm)	Quarterly									
Jun-25	Iron	(mg/L)	Quarterly									
Jun-25	Lead	(mg/L)	Quarterly									Next round of quarterly groundwater sampling scheduled for July 2025
Jun-25	Magnesium	(mg/L)	Quarterly									
Jun-25	Manganese	(mg/L)	Quarterly									
Jun-25	Nickel	(mg/L)	Quarterly									
Jun-25	pH	pH	Quarterly									
Jun-25	Potassium	(mg/L)	Quarterly									
Jun-25	Selenium	(mg/L)	Quarterly									
Jun-25	Sodium	(mg/L)	Quarterly									
Jun-25	Standing Water Level	(m)	Quarterly									
Jun-25	Vanadium	(mg/L)	Quarterly									
Jun-25	Zinc	(mg/L)	Quarterly									

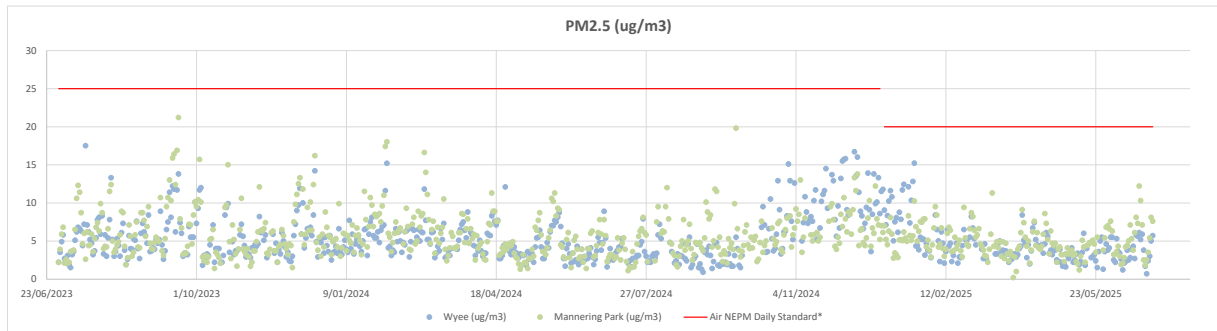
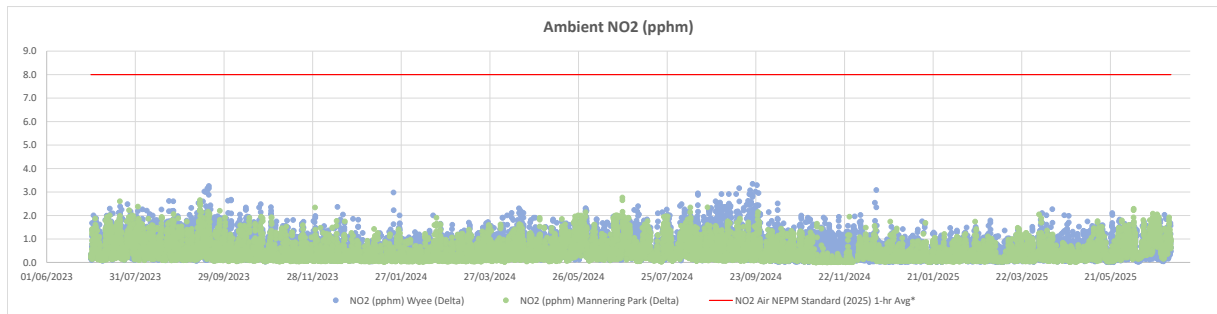
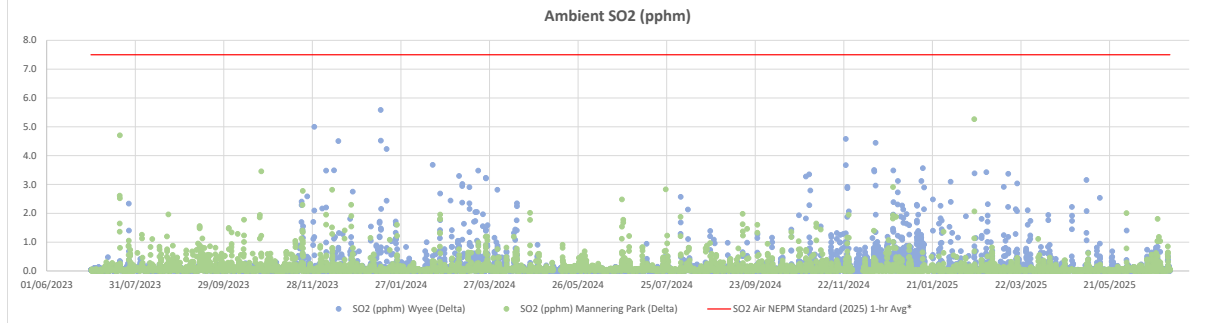
POINT 32 Groundwater quality monitoring bore marked and shown as EPA ID 32 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).												
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
Jun-25	Aluminium	(mg/L)	Quarterly									
Jun-25	Ammonia	(mg/L)	Quarterly									
Jun-25	Arsenic (III)	(mg/L)	Quarterly									
Jun-25	Arsenic (V)	(mg/L)	Quarterly									
Jun-25	Cadmium	(mg/L)	Quarterly									
Jun-25	Chromium (trivalent)	(mg/L)	Quarterly									
Jun-25	Chromium (VI) Compounds	(mg/L)	Quarterly									
Jun-25	Copper	(mg/L)	Quarterly									
Jun-25	Electrical Conductivity	(us/cm)	Quarterly									
Jun-25	Iron	(mg/L)	Quarterly									
Jun-25	Lead	(mg/L)	Quarterly									Next round of quarterly groundwater sampling scheduled for July 2025
Jun-25	Magnesium	(mg/L)	Quarterly									
Jun-25	Manganese	(mg/L)	Quarterly									
Jun-25	Nickel	(mg/L)	Quarterly									
Jun-25	pH	pH	Quarterly									
Jun-25	Potassium	(mg/L)	Quarterly									
Jun-25	Selenium	(mg/L)	Quarterly									
Jun-25	Sodium	(mg/L)	Quarterly									
Jun-25	Standing Water Level	(m)	Quarterly									
Jun-25	Vanadium	(mg/L)	Quarterly									
Jun-25	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
Jun-25	Aluminium	(mg/L)	Quarterly									
Jun-25	Ammonia	(mg/L)	Quarterly									
Jun-25	Arsenic (III)	(mg/L)	Quarterly									
Jun-25	Arsenic (V)	(mg/L)	Quarterly									
Jun-25	Cadmium	(mg/L)	Quarterly									
Jun-25	Chromium (trivalent)	(mg/L)	Quarterly									
Jun-25	Chromium (VI) Compounds	(mg/L)	Quarterly									
Jun-25	Copper	(mg/L)	Quarterly									
Jun-25	Electrical Conductivity	(us/cm)	Quarterly									
Jun-25	Iron	(mg/L)	Quarterly									
Jun-25	Lead	(mg/L)	Quarterly									Next round of quarterly groundwater sampling scheduled for July 2025
Jun-25	Magnesium	(mg/L)	Quarterly									
Jun-25	Manganese	(mg/L)	Quarterly									
Jun-25	Nickel	(mg/L)	Quarterly									
Jun-25	pH	pH	Quarterly									
Jun-25	Potassium	(mg/L)	Quarterly									
Jun-25	Selenium	(mg/L)	Quarterly									
Jun-25	Sodium	(mg/L)	Quarterly									
Jun-25	Standing Water Level	(m)	Quarterly									
Jun-25	Vanadium	(mg/L)	Quarterly									
Jun-25	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/M 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-25	Aluminium	(mg/L)	Quarterly									
Jun-25	Ammonia	(mg/L)	Quarterly									
Jun-25	Arsenic (III)	(mg/L)	Quarterly									
Jun-25	Arsenic (V)	(mg/L)	Quarterly									
Jun-25	Cadmium	(mg/L)	Quarterly									
Jun-25	Chromium (trivalent)	(mg/L)	Quarterly									
Jun-25	Chromium (VI) Compounds	(mg/L)	Quarterly									
Jun-25	Copper	(mg/L)	Quarterly									
Jun-25	Electrical Conductivity	(us/cm)	Quarterly									
Jun-25	Iron	(mg/L)	Quarterly									
Jun-25	Lead	(mg/L)	Quarterly									Next round of quarterly groundwater sampling scheduled for July 2025
Jun-25	Magnesium	(mg/L)	Quarterly									
Jun-25	Manganese	(mg/L)	Quarterly									
Jun-25	Nickel	(mg/L)	Quarterly									
Jun-25	pH	pH	Quarterly									
Jun-25	Potassium	(mg/L)	Quarterly									
Jun-25	Selenium	(mg/L)	Quarterly									
Jun-25	Sodium	(mg/L)	Quarterly									
Jun-25	Standing Water Level	(m)	Quarterly									
Jun-25	Vanadium	(mg/L)	Quarterly									
Jun-25	Zinc	(mg/L)	Quarterly									

Ambient Air Quality Graphs

POINTS 16 & 35 Meteorological and ambient air quality monitoring stations at Wyee & 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>>.
changed from 25ug/m³ to 20ug/m³ in 2025. This reduction is reflected in the PM_{2.5} graph above.

**The Air NEPM daily standard for PM_{2.5}