

## 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	December 2024	
ADDRESS	VALES ROAD, MANNERING PARK NSW	

### Compliance Summary

Were all licence monitoring limits met this month?

**Yes**

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

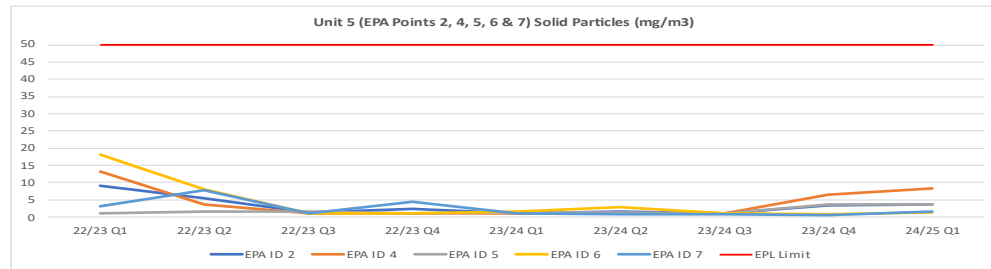
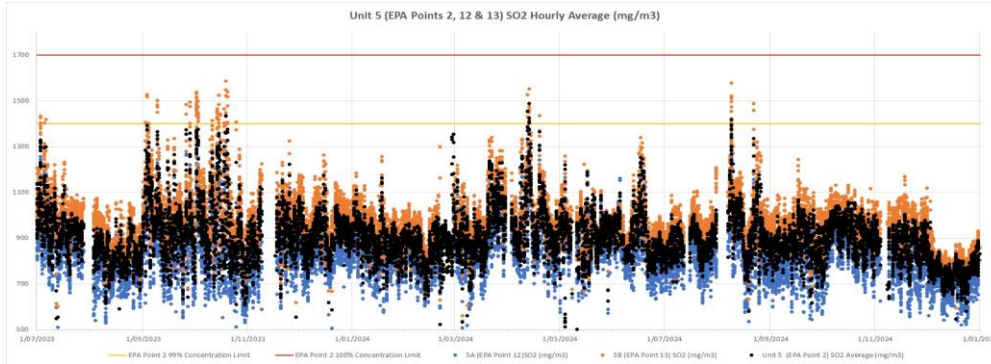
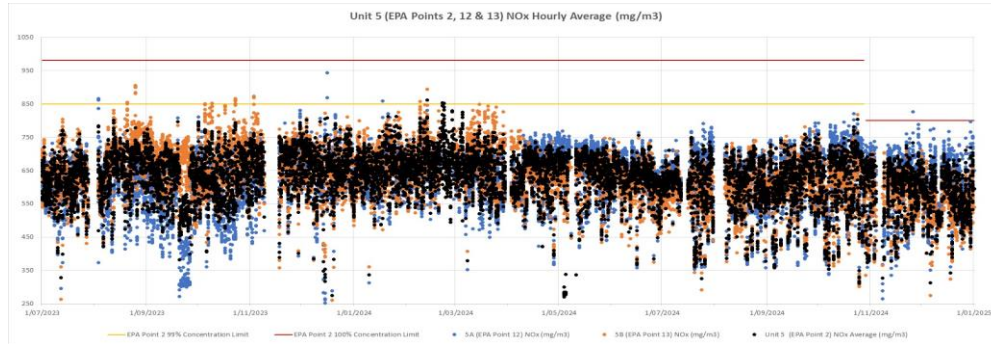
### Monitoring Locations

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.

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
Dec-24	Cadmium	(mg/m3)	Every 6 months							0.2	No	
Dec-24	Chlorine	(mg/m3)	Every 6 months							20	No	
Dec-24	Fluorine	(mg/m3)	Every 6 months							30	No	
Dec-24	Hydrogen chloride	(mg/m3)	Every 6 months							50	No	
Dec-24	Mercury	(mg/m3)	Every 6 months							0.05	No	
Dec-24	Nitrogen Oxides	(mg/m3)	Continuous	99.5%	Dec-24	313	571	719		800	No	
Dec-24	Solid Particles	(mg/m3)	Quarterly							50	No	
Dec-24	Sulfur dioxide	(mg/m3)	Continuous	99.5%	Dec-24	546	758	970	1400	1700	No	
Dec-24	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months							100	No	
Dec-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months							0.75	No	
Dec-24	VOC's as n-propane equivalent	(mg/m3)	Every 6 months							10	No	

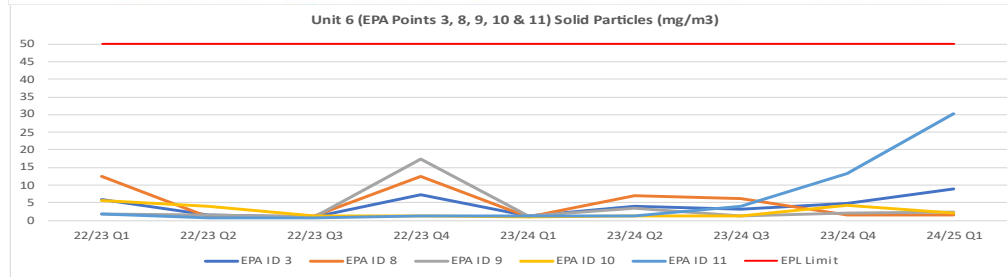
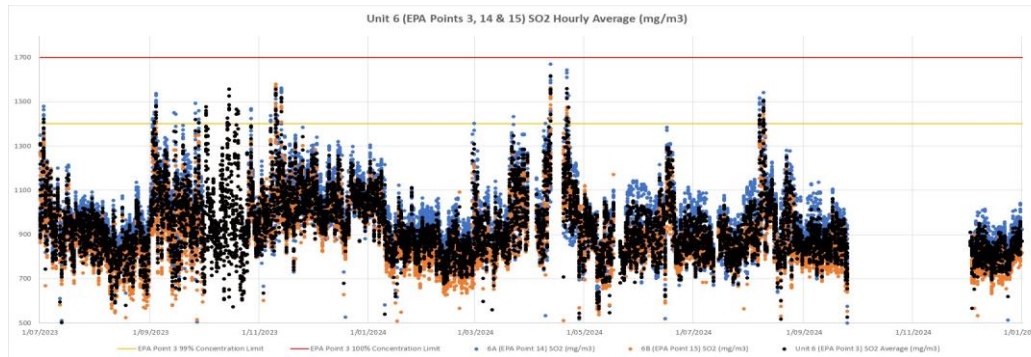
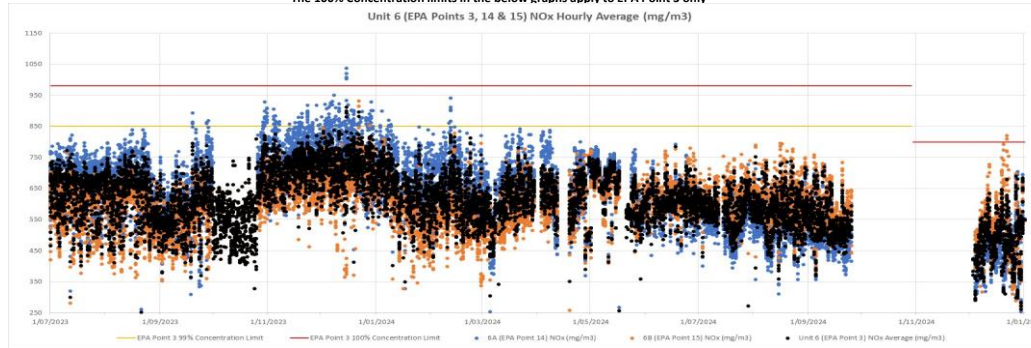
The 100% Concentration limits in the below graphs apply to EPA Point 2 only



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
Dec-24	Cadmium	(mg/m <sup>3</sup> )	Every 6 months							0.2	No	
Dec-24	Chlorine	(mg/m <sup>3</sup> )	Every 6 months							20	No	
Dec-24	Fluorine	(mg/m <sup>3</sup> )	Every 6 months							30	No	
Dec-24	Hydrogen chloride	(mg/m <sup>3</sup> )	Every 6 months							50	No	
Dec-24	Mercury	(mg/m <sup>3</sup> )	Every 6 months							0.05	No	
Dec-24	Nitrogen Oxides	(mg/m <sup>3</sup> )	Continuous	91.8%	Dec-24	262	492	690		800	No	
Dec-24	Solid Particles	(mg/m <sup>3</sup> )	Quarterly							50	No	
Dec-24	Sulfur dioxide	(mg/m <sup>3</sup> )	Continuous	94.1%	Dec-24	565	829	959	1400	1700	No	
Dec-24	Sulfuric acid mist and sulfur trioxide (as SO <sub>3</sub> )	(mg/m <sup>3</sup> )	Every 6 months							100	No	
Dec-24	Type 1 and Type 2 substances in aggregate	(mg/m <sup>3</sup> )	Every 6 months							0.75	No	
Dec-24	VOC's as n-propane equivalent	(mg/m <sup>3</sup> )	Every 6 months							10	No	

The 100% Concentration limits in the below graphs apply to EPA Point 3 only



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
Dec-24	Cadmium	(mg/m3)	Every 6 months								N/A	
Dec-24	Carbon dioxide	(%)	Every 6 months								N/A	
Dec-24	Chlorine	(mg/m3)	Every 6 months								N/A	
Dec-24	Fluorine	(mg/m3)	Every 6 months								N/A	
Dec-24	Hydrogen chloride	(mg/m3)	Every 6 months								N/A	
Dec-24	Mercury	(mg/m3)	Every 6 months								N/A	
Dec-24	Solid Particles	(mg/m3)	Quarterly								N/A	
Dec-24	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months								N/A	
Dec-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	
Dec-24	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
Dec-24	Cadmium	(mg/m3)	Every 6 months								N/A	
Dec-24	Mercury	(mg/m3)	Every 6 months								N/A	
Dec-24	Solid Particles	(mg/m3)	Quarterly								N/A	
Dec-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
Dec-24	Cadmium	(mg/m3)	Every 6 months								N/A	
Dec-24	Carbon dioxide	(%)	Every 6 months								N/A	
Dec-24	Chlorine	(mg/m3)	Every 6 months								N/A	
Dec-24	Fluorine	(mg/m3)	Every 6 months								N/A	
Dec-24	Hydrogen chloride	(mg/m3)	Every 6 months								N/A	
Dec-24	Mercury	(mg/m3)	Every 6 months								N/A	
Dec-24	Solid Particles	(mg/m3)	Quarterly								N/A	
Dec-24	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months								N/A	
Dec-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	
Dec-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
Dec-24	Cadmium	(mg/m3)	Every 6 months								N/A	
Dec-24	Mercury	(mg/m3)	Every 6 months								N/A	
Dec-24	Solid Particles	(mg/m3)	Quarterly								N/A	
Dec-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
Dec-24	Cadmium	(mg/m3)	Every 6 months								N/A	
Dec-24	Carbon dioxide	(%)	Every 6 months								N/A	
Dec-24	Chlorine	(mg/m3)	Every 6 months								N/A	
Dec-24	Fluorine	(mg/m3)	Every 6 months								N/A	
Dec-24	Hydrogen chloride	(mg/m3)	Every 6 months								N/A	
Dec-24	Mercury	(mg/m3)	Every 6 months								N/A	
Dec-24	Solid Particles	(mg/m3)	Quarterly								N/A	
Dec-24	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months								N/A	
Dec-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	
Dec-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
Dec-24	Cadmium	(mg/m3)	Every 6 months								N/A	
Dec-24	Mercury	(mg/m3)	Every 6 months								N/A	
Dec-24	Solid Particles	(mg/m3)	Quarterly								N/A	
Dec-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
Dec-24	Cadmium	(mg/m3)	Every 6 months								N/A	
Dec-24	Carbon dioxide	(%)	Every 6 months								N/A	
Dec-24	Chlorine	(mg/m3)	Every 6 months								N/A	
Dec-24	Fluorine	(mg/m3)	Every 6 months								N/A	
Dec-24	Hydrogen chloride	(mg/m3)	Every 6 months								N/A	
Dec-24	Mercury	(mg/m3)	Every 6 months								N/A	
Dec-24	Solid Particles	(mg/m3)	Quarterly								N/A	
Dec-24	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months								N/A	
Dec-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	
Dec-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
Dec-24	Cadmium	(mg/m3)	Every 6 months								N/A	
Dec-24	Mercury	(mg/m3)	Every 6 months								N/A	
Dec-24	Solid Particles	(mg/m3)	Quarterly								N/A	
Dec-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
Dec-24	Nitrogen Oxides	(mg/m3)	Continuous	99.7%	Dec-24	351	598	797			N/A	
Dec-24	Sulfur dioxide	(mg/m3)	Continuous	99.7%	Dec-24	468	699	916			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
Dec-24	Nitrogen Oxides	(mg/m3)	Continuous	99.2%	Dec-24	275	543	709			N/A	
Dec-24	Sulfur dioxide	(mg/m3)	Continuous	99.2%	Dec-24	596	816	1119			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
Dec-24	Nitrogen Oxides	(mg/m3)	Continuous	97.3%	Dec-24	254	458	704			N/A	
Dec-24	Sulfur dioxide	(mg/m3)	Continuous	97.3%	Dec-24	514	870	1042			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
Dec-24	Nitrogen Oxides	(mg/m3)	Continuous	86.3%	Dec-24	269	526	820			N/A	
Dec-24	Sulfur dioxide	(mg/m3)	Continuous	90.9%	Dec-24	308	787	916			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
Dec-24	Chlorine (free residual)	(mg/L)	Monthly during discharge	1	3/12/2024	0	0	0		0.2	No	
Dec-24	Copper	(mg/L)	Monthly during discharge	1	3/12/2024	0.003	0.003	0.003		0.005	No	
Dec-24	Iron	(mg/L)	Monthly during discharge	1	3/12/2024	0.08	0.08	0.08		0.3	No	
Dec-24	Oil and Grease	Visible	Continuous during discharge	100%	Dec-24	NIL	NIL	NIL				
Dec-24	Selenium	(mg/L)	Monthly during discharge	1	3/12/2024	0.002	0.002	0.002		0.005	No	
Dec-24	Temperature	(°C)	Continuous during discharge	100%	Dec-24	14.5	31.6	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
Dec-24	Aluminium	(mg/L)	Monthly during discharge	1	3/12/2024	0.03	0.03	0.03				
Dec-24	Ammonia	(mg/L)	Monthly during discharge	1	3/12/2024	0.058	0.058	0.058				
Dec-24	Arsenic (III)	(mg/L)	Monthly during discharge	1	3/12/2024	<0.001	<0.001	<0.001				
Dec-24	Arsenic (V)	(mg/L)	Monthly during discharge	1	3/12/2024	0.01	0.01	0.01				
Dec-24	Cadmium	(mg/L)	Monthly during discharge	1	3/12/2024	<0.0001	<0.0001	<0.0001				
Dec-24	Chromium (trivalent)	(mg/L)	Monthly during discharge	1	3/12/2024	<0.005	<0.005	<0.005				
Dec-24	Chromium (VI) Compounds	(mg/L)	Monthly during discharge	1	3/12/2024	0.01	0.01	0.01				
Dec-24	Copper	(mg/L)	Monthly during discharge	1	3/12/2024	0.001	0.001	0.001				
Dec-24	Iron	(mg/L)	Monthly during discharge	1	3/12/2024	0.04	0.04	0.04				
Dec-24	Lead	(mg/L)	Monthly during discharge	1	3/12/2024	<0.001	<0.001	<0.001				
Dec-24	Manganese	(mg/L)	Monthly during discharge	1	3/12/2024	0.011	0.011	0.011				
Dec-24	Nickel	(mg/L)	Monthly during discharge	1	3/12/2024	<0.001	<0.001	<0.001				
Dec-24	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Monthly during discharge	1	3/12/2024	3.209	3.209	3.209				
Dec-24	Nitrogen	(mg/L)	Monthly during discharge	1	3/12/2024	3.3	3.3	3.3				
Dec-24	pH	pH	Monthly during discharge	1	3/12/2024	8.75	8.75	8.75		6.5 - 9.5	No	
Dec-24	Phosphorus	(mg/L)	Monthly during discharge	1	3/12/2024	0.1	0.1	0.1				
Dec-24	Reactive Phosphorus	(mg/L)	Monthly during discharge	1	3/12/2024	0.07	0.07	0.07				
Dec-24	Selenium	(mg/L)	Monthly during discharge	1	3/12/2024	0.036	0.036	0.036				
Dec-24	Total Kjeldahl Nitrogen	(mg/L)	Monthly during discharge	1	3/12/2024	0.1	0.1	0.1				
Dec-24	Total Suspended Solids	(mg/L)	Monthly during discharge	1	3/12/2024	10	10	10		50	No	
Dec-24	Vanadium	(mg/L)	Monthly during discharge	1	3/12/2024	0.06	0.06	0.06				
Dec-24	Zinc	(mg/L)	Monthly during discharge	1	3/12/2024	0.033	0.033	0.033				

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

Next sample scheduled for January 2025

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

Next sample scheduled for January 2025

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

Next sample scheduled for January 2025

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

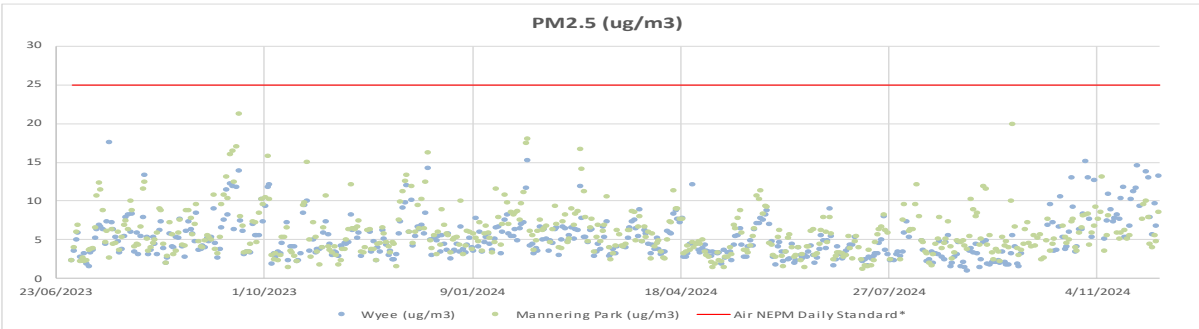
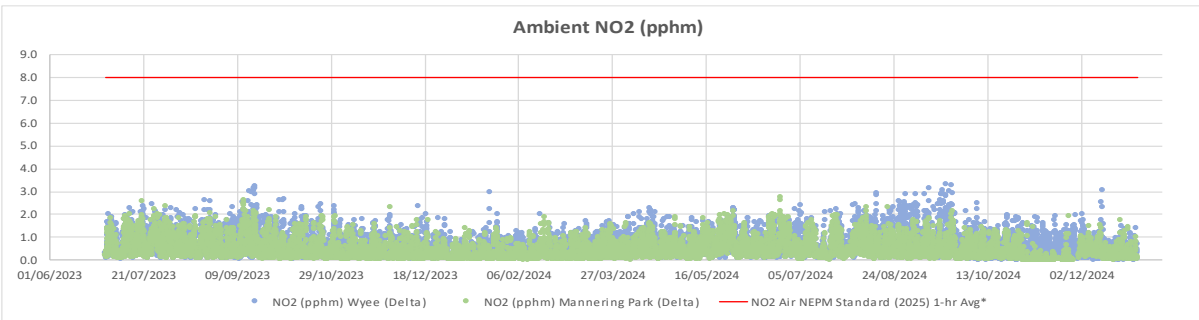
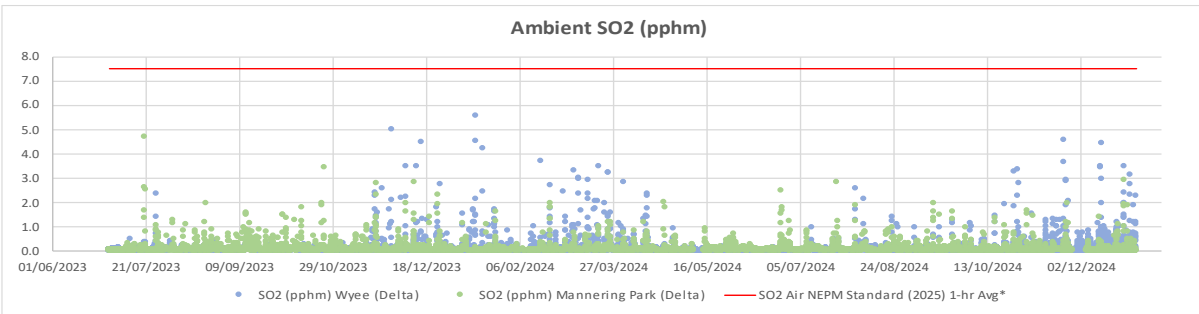
Next sample scheduled for January 2025

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
Dec-24	Aluminium	(mg/L)	Quarterly									
Dec-24	Ammonia	(mg/L)	Quarterly									
Dec-24	Arsenic (III)	(mg/L)	Quarterly									
Dec-24	Arsenic (V)	(mg/L)	Quarterly									
Dec-24	Cadmium	(mg/L)	Quarterly									
Dec-24	Chromium (trivalent)	(mg/L)	Quarterly									
Dec-24	Chromium (VI) Compounds	(mg/L)	Quarterly									
Dec-24	Copper	(mg/L)	Quarterly									
Dec-24	Electrical Conductivity	(us/cm)	Quarterly									
Dec-24	Iron	(mg/L)	Quarterly									Next sample scheduled for January 2025
Dec-24	Lead	(mg/L)	Quarterly									
Dec-24	Magnesium	(mg/L)	Quarterly									
Dec-24	Manganese	(mg/L)	Quarterly									
Dec-24	Nickel	(mg/L)	Quarterly									
Dec-24	pH	pH	Quarterly									
Dec-24	Potassium	(mg/L)	Quarterly									
Dec-24	Selenium	(mg/L)	Quarterly									
Dec-24	Sodium	(mg/L)	Quarterly									
Dec-24	Standing Water Level	(m)	Quarterly									
Dec-24	Vanadium	(mg/L)	Quarterly									
Dec-24	Zinc	(mg/L)	Quarterly									

## Ambient Air Quality Graphs

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