

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	May 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	TSS	95 mg/L	50 mg/L	Non compliance was during extreme weather event in which the catchment recorded >120mm of rain within 24hrs. Background water quality in receiving waters was very poor.
EPA 25	Water	pH	9.05 - 9.08	6.5 - 9.0	pH downstream of EPA 25 discharge measured to be between 7.35 and 7.84 during exceedances of licence limit.
EPA 3	Air	SO2	1608 mg/m3	1400 mg/m3	The 99th percentile limit for SO2 at EPA 3 was exceeded on 12 May 2025. The 100 percentile limit of 1700 mg/m3 was not exceeded. Max SO2 concentration during May 1608 mg/m3.

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.

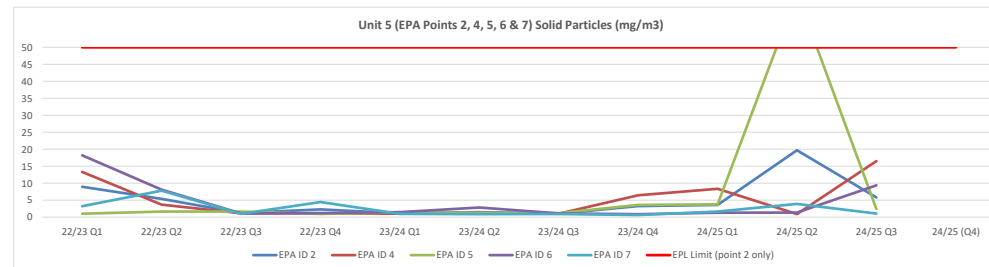
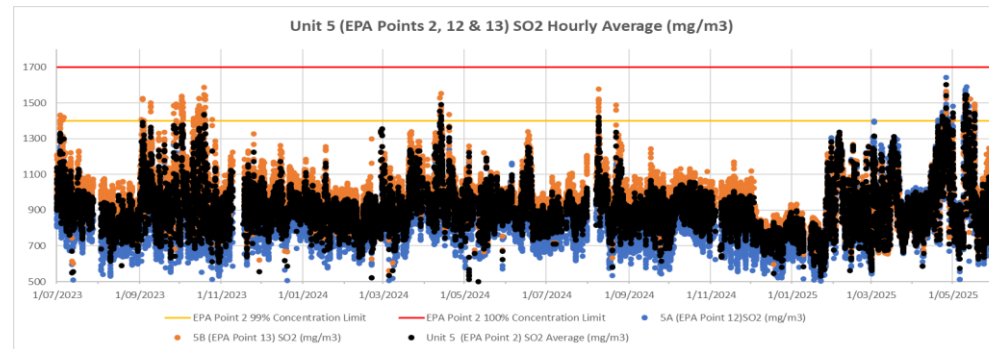
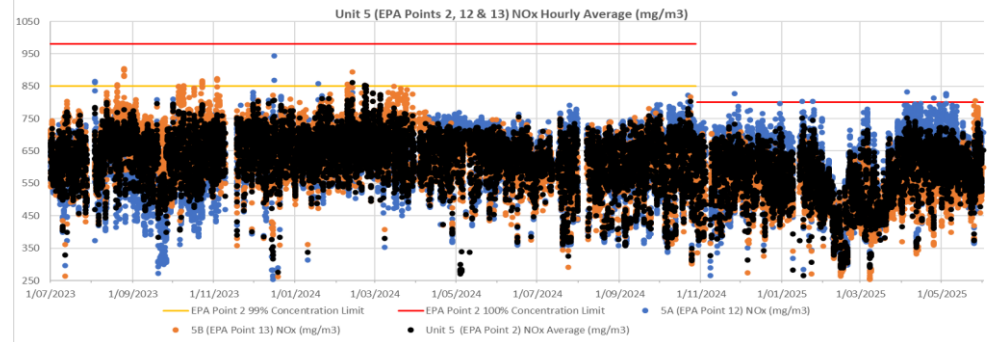
Comments

Discharge from EPA 25 during May was associated with the recent NSW East Coast severe weather event. Vales Point power station recorded 544mm of rain within a 31-day period.



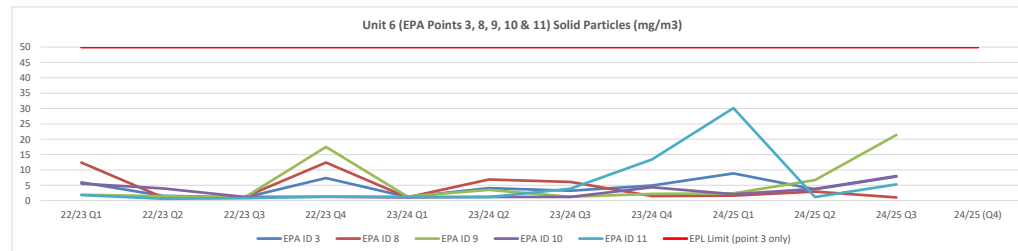
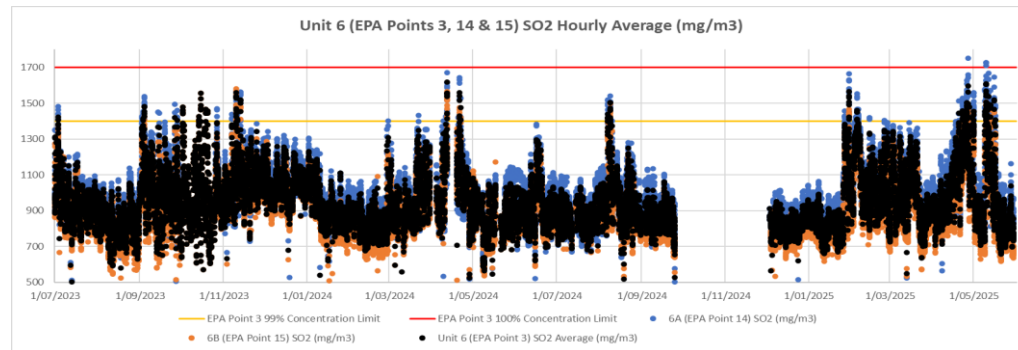
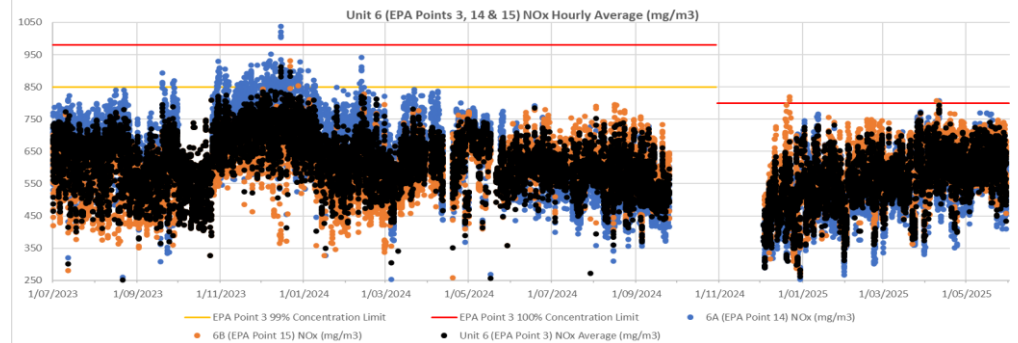
POINT 2 Combined air emissions from boiler 5 via Points 4 to 7 to Point 1 marked and shown as EPA ID 2 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).												
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	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
May-25	Cadmium	(mg/m3)	Every 6 months	1	Feb - Apr 2025	0.001150	0.001150	0.001150		0.03	No	
May-25	Chlorine	(mg/m3)	Every 6 months	1	Feb - Apr 2025	<0.466	<0.466	<0.466		4	No	
May-25	Fluorine	(mg/m3)	Every 6 months	1	Feb - Apr 2025	5.120	5.120	5.120		30	No	
May-25	Hydrogen chloride	(mg/m3)	Every 6 months	1	Feb - Apr 2025	4.9	4.9	4.9		50	No	
May-25	Mercury	(mg/m3)	Every 6 months	1	Feb - Apr 2025	0.0012	0.0012	0.0012		0.03	No	
May-25	Nitrogen Oxides	(mg/m3)	Continuous	100.0%	May-25	373	599	736		800	No	
May-25	Solid Particles	(mg/m3)	Quarterly	1	Feb - Apr 2025	5.8	5.8	5.8		50	No	
May-25	Sulfur dioxide	(mg/m3)	Continuous	99.9%	May-25	573	934	1545	1400	1700	No	
May-25	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months	1	Feb - Apr 2025	5.0	5.0	5.0		100	No	
May-25	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	Feb - Apr 2025	0.050	0.050	0.050		0.6	No	
May-25	VOC's as n-propane equivalent	(mg/m3)	Every 6 months	1	Feb - Apr 2025	<0.47	<0.47	<0.47		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
May-25	Cadmium	(mg/m3)	Every 6 months	1	Feb - Apr 2025	0.00250	0.00250	0.00250		0.03	No	
May-25	Chlorine	(mg/m3)	Every 6 months	1	Feb - Apr 2025	3.870	3.870	3.870		4	No	
May-25	Fluorine	(mg/m3)	Every 6 months	1	Feb - Apr 2025	6.580	6.580	6.580		30	No	
May-25	Hydrogen chloride	(mg/m3)	Every 6 months	1	Feb - Apr 2025	4.76	4.76	4.76		50	No	
May-25	Mercury	(mg/m3)	Every 6 months	1	Feb - Apr 2025	0.0008	0.0008	0.0008		0.03	No	
May-25	Nitrogen Oxides	(mg/m3)	Continuous	99.9%	May-25	434	608	740		800	No	
May-25	Solid Particles	(mg/m3)	Quarterly	1	Feb - Apr 2025	7.8	7.8	7.8		50	No	
May-25	Sulfur dioxide	(mg/m3)	Continuous	99.9%	May-25	658	951	1608	1400	1700	No	99th percentile concentration limit exceeded on 12 May 2025
May-25	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months	1	Feb - Apr 2025	5.1	5.1	5.1		100	No	
May-25	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	Feb - Apr 2025	0.063	0.063	0.063		0.6	No	
May-25	VOC's as n-propane equivalent	(mg/m3)	Every 6 months	1	Feb - Apr 2025	<0.464	<0.464	<0.464		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
May-25	Cadmium	(mg/m3)	Every 6 months	1	Apr 2025	0.00195	0.00195	0.00195			N/A	
May-25	Carbon dioxide	(%)	Every 6 months	1	Apr 2025	10.3	10.3	10.3			N/A	
May-25	Chlorine	(mg/m3)	Every 6 months	1	Apr 2025	<0.514	<0.514	<0.514			N/A	
May-25	Fluorine	(mg/m3)	Every 6 months	1	Apr 2025	3.15	3.15	3.15			N/A	
May-25	Hydrogen chloride	(mg/m3)	Every 6 months	1	Apr 2025	5.1	5.1	5.1			N/A	
May-25	Mercury	(mg/m3)	Every 6 months	1	Apr 2025	0.00055	0.00055	0.00055			N/A	
May-25	Solid Particles	(mg/m3)	Quarterly	1	Apr 2025	16.5	16.5	16.5			N/A	
May-25	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months	1	Apr 2025	5.3	5.3	5.3			N/A	
May-25	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	Apr 2025	0.027	0.027	0.027			N/A	
May-25	VOC's as n-propane equivalent	(mg/m3)	Every 6 months	1	Apr 2025	<0.471	<0.471	<0.471			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
May-25	Cadmium	(mg/m3)	Every 6 months	1	Feb 2025	0.00108	0.00108	0.00108			N/A	
May-25	Mercury	(mg/m3)	Every 6 months	1	Feb 2025	0.0011	0.0011	0.0011			N/A	
May-25	Solid Particles	(mg/m3)	Quarterly	1	Feb 2025	2.4	2.4	2.4			N/A	
May-25	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	Feb 2025	0.01081	0.01081	0.01081			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
May-25	Cadmium	(mg/m3)	Every 6 months	1	Apr 2025	0.00019	0.00019	0.00019			N/A	
May-25	Carbon dioxide	(%)	Every 6 months	1	Apr 2025	11.1	11.1	11.1			N/A	
May-25	Chlorine	(mg/m3)	Every 6 months	1	Apr 2025	<0.424	<0.424	<0.424			N/A	
May-25	Fluorine	(mg/m3)	Every 6 months	1	Apr 2025	6.890	6.890	6.890			N/A	
May-25	Hydrogen chloride	(mg/m3)	Every 6 months	1	Apr 2025	4.7	4.7	4.7			N/A	
May-25	Mercury	(mg/m3)	Every 6 months	1	Apr 2025	0.00020	0.00020	0.00020			N/A	
May-25	Solid Particles	(mg/m3)	Quarterly	1	Apr 2025	9.4	9.4	9.4			N/A	
May-25	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months	1	Apr 2025	4.77	4.77	4.77			N/A	
May-25	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	Apr 2025	0.141	0.141	0.141			N/A	
May-25	VOC's as n-propane equivalent	(mg/m3)	Every 6 months	1	Apr 2025	<0.469	<0.469	<0.469			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
May-25	Cadmium	(mg/m3)	Every 6 months	1	Feb 2025	0.00143	0.00143	0.00143			N/A	
May-25	Mercury	(mg/m3)	Every 6 months	1	Feb 2025	0.00254	0.00254	0.00254			N/A	
May-25	Solid Particles	(mg/m3)	Quarterly	1	Feb 2025	<1.06	<1.06	<1.06			N/A	
May-25	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	Feb 2025	0.05470	0.05470	0.05470			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
May-25	Cadmium	(mg/m3)	Every 6 months	1	Feb 2025	0.00324	0.00324	0.00324			N/A	
May-25	Carbon dioxide	(%)	Every 6 months	1	Feb 2025	10.9	10.9	10.9			N/A	
May-25	Chlorine	(mg/m3)	Every 6 months	1	Feb 2025	5.7	5.7	5.7			N/A	
May-25	Fluorine	(mg/m3)	Every 6 months	1	Feb 2025	9.350	9.350	9.350			N/A	
May-25	Hydrogen chloride	(mg/m3)	Every 6 months	1	Feb 2025	<4.71	<4.71	<4.71			N/A	
May-25	Mercury	(mg/m3)	Every 6 months	1	Feb 2025	0.00059	0.00059	0.00059			N/A	
May-25	Solid Particles	(mg/m3)	Quarterly	1	Feb 2025	<1.04	<1.04	<1.04			N/A	
May-25	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months	1	Feb 2025	4.9	4.9	4.9			N/A	
May-25	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	Feb 2025	0.05440	0.05440	0.05440			N/A	
May-25	VOC's as n-propane equivalent	(mg/m3)	Every 6 months	1	Feb 2025	<0.466	<0.466	<0.466			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
May-25	Cadmium	(mg/m3)	Every 6 months	1	Feb 2025	0.00352	0.00352	0.00352			N/A	
May-25	Mercury	(mg/m3)	Every 6 months	1	Feb 2025	0.000619	0.000619	0.000619			N/A	
May-25	Solid Particles	(mg/m3)	Quarterly	1	Feb 2025	21.4	21.4	21.4			N/A	
May-25	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	Feb 2025	0.03390	0.03390	0.03390			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
May-25	Cadmium	(mg/m3)	Every 6 months	1	Apr 2025	0.00011	0.00011	0.00011			N/A	
May-25	Carbon dioxide	(%)	Every 6 months	1	Apr 2025	10.4	10.4	10.4			N/A	
May-25	Chlorine	(mg/m3)	Every 6 months	1	Apr 2025	<0.573	<0.573	<0.573			N/A	
May-25	Fluorine	(mg/m3)	Every 6 months	1	Apr 2025	1.530	1.530	1.530			N/A	
May-25	Hydrogen chloride	(mg/m3)	Every 6 months	1	Apr 2025	4.9	4.9	4.9			N/A	
May-25	Mercury	(mg/m3)	Every 6 months	1	Apr 2025	0.00268	0.00268	0.00268			N/A	
May-25	Solid Particles	(mg/m3)	Quarterly	1	Apr 2025	8.0	8.0	8.0			N/A	
May-25	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months	1	Apr 2025	5.4	5.4	5.4			N/A	
May-25	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	Apr 2025	0.09190	0.09190	0.09190			N/A	
May-25	VOC's as n-propane equivalent	(mg/m3)	Every 6 months	1	Apr 2025	<0.461	<0.461	<0.461			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
May-25	Cadmium	(mg/m3)	Every 6 months	1	Feb 2025	0.00239	0.00239	0.00239			N/A	
May-25	Mercury	(mg/m3)	Every 6 months	1	Feb 2025	0.00014	0.00014	0.00014			N/A	
May-25	Solid Particles	(mg/m3)	Quarterly	1	Feb 2025	5.3	5.3	5.3			N/A	
May-25	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	Feb 2025	0.07490	0.07490	0.07490			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
May-25	Nitrogen Oxides	(mg/m3)	Continuous	100.0%	May-25	366	626	827			N/A	
May-25	Sulfur dioxide	(mg/m3)	Continuous	100.0%	May-25	396	903	1591			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
May-25	Nitrogen Oxides	(mg/m3)	Continuous	100.0%	May-25	380	573	805			N/A	
May-25	Sulfur dioxide	(mg/m3)	Continuous	99.9%	May-25	638	965	1530			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
May-25	Nitrogen Oxides	(mg/m3)	Continuous	99.7%	May-25	409	594	770			N/A	
May-25	Sulfur dioxide	(mg/m3)	Continuous	99.9%	May-25	690	1023	1727			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
May-25	Nitrogen Oxides	(mg/m3)	Continuous	99.7%	May-25	458	623	747			N/A	
May-25	Sulfur dioxide	(mg/m3)	Continuous	99.9%	May-25	618	879	1506			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
May-25	Chlorine (free residual)	(mg/L)	Monthly during discharge	1	8/05/2025	0	0	0		0.2	No	
May-25	Copper	(mg/L)	Monthly during discharge	1	8/05/2025	0.002	0.002	0.002		0.005	No	
May-25	Iron	(mg/L)	Monthly during discharge	1	8/05/2025	0.06	0.06	0.06		0.3	No	
May-25	Oil and Grease	Visible	Continuous during discharge	100%	May-25	NIL	NIL	NIL				
May-25	Selenium	(mg/L)	Monthly during discharge	1	8/05/2025	0.002	0.002	0.002		0.005	No	
May-25	Temperature	(°C)	Continuous during discharge	100%	May-25	23.1	28.0	33.3	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
May-25	Aluminium	(mg/L)	Monthly during discharge	1	8/05/2025	0.06	0.06	0.06				
May-25	Ammonia	(mg/L)	Monthly during discharge	1	8/05/2025	0.089	0.089	0.089				
May-25	Arsenic (III)	(mg/L)	Monthly during discharge	1	8/05/2025	<0.001	<0.001	<0.001				
May-25	Arsenic (V)	(mg/L)	Monthly during discharge	1	8/05/2025	0.01	0.01	0.01				
May-25	Cadmium	(mg/L)	Monthly during discharge	1	8/05/2025	0.0001	0.0001	0.0001				
May-25	Chromium (trivalent)	(mg/L)	Monthly during discharge	1	8/05/2025	<0.005	<0.005	<0.005				
May-25	Chromium (VI) Compounds	(mg/L)	Monthly during discharge	1	8/05/2025	0.01	0.01	0.01				
May-25	Copper	(mg/L)	Monthly during discharge	1	8/05/2025	0.001	0.001	0.001				
May-25	Iron	(mg/L)	Monthly during discharge	1	8/05/2025	0.44	0.44	0.44				
May-25	Lead	(mg/L)	Monthly during discharge	1	8/05/2025	<0.001	<0.001	<0.001				
May-25	Manganese	(mg/L)	Monthly during discharge	1	8/05/2025	0.047	0.047	0.047				
May-25	Nickel	(mg/L)	Monthly during discharge	1	8/05/2025	0.003	0.003	0.003				
May-25	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Monthly during discharge	1	8/05/2025	0.270	0.270	0.270				
May-25	Nitrogen	(mg/L)	Monthly during discharge	1	8/05/2025	0.6	0.6	0.6				
May-25	pH	pH	Monthly during discharge	1	8/05/2025	8.79	8.79	8.79		6.5 - 9.5	No	
May-25	Phosphorus	(mg/L)	Monthly during discharge	1	8/05/2025	0.1	0.1	0.1				
May-25	Reactive Phosphorus	(mg/L)	Monthly during discharge	1	8/05/2025	0.05	0.05	0.05				
May-25	Selenium	(mg/L)	Monthly during discharge	1	8/05/2025	0.03	0.03	0.03				
May-25	Total Kjeldahl Nitrogen	(mg/L)	Monthly during discharge	1	8/05/2025	0.3	0.3	0.3				
May-25	Total Suspended Solids	(mg/L)	Monthly during discharge	1	8/05/2025	25	25	25		50	No	
May-25	Vanadium	(mg/L)	Monthly during discharge	1	8/05/2025	0.06	0.06	0.06				
May-25	Zinc	(mg/L)	Monthly during discharge	1	8/05/2025	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
May-25	Aluminium	(mg/L)	Monthly during discharge	1	8/05/2025	0.09	0.09	0.09	Yes			
May-25	Ammonia	(mg/L)	Monthly during discharge	1	8/05/2025	1.70	1.70	1.70	Yes			
May-25	Arsenic (III)	(mg/L)	Monthly during discharge	1	8/05/2025	0.00	0.00	0.00	Yes			
May-25	Arsenic (V)	(mg/L)	Monthly during discharge	1	8/05/2025	<0.001	<0.001	<0.001	Yes			
May-25	Cadmium	(mg/L)	Monthly during discharge	1	8/05/2025	0.0001	0.0001	0.0001	Yes			
May-25	Chromium (trivalent)	(mg/L)	Monthly during discharge	1	8/05/2025	<0.005	<0.005	<0.005	Yes			
May-25	Chromium (VI) Compounds	(mg/L)	Monthly during discharge	1	8/05/2025	<0.005	<0.005	<0.005	Yes			
May-25	Copper	(mg/L)	Monthly during discharge	1	8/05/2025	<0.001	<0.001	<0.001	Yes			
May-25	Iron	(mg/L)	Monthly during discharge	1	8/05/2025	0.96	0.96	0.96	Yes			
May-25	Lead	(mg/L)	Monthly during discharge	1	8/05/2025	<0.001	<0.001	<0.001	Yes			
May-25	Manganese	(mg/L)	Monthly during discharge	1	8/05/2025	0.150	0.150	0.150	Yes			
May-25	Nickel	(mg/L)	Monthly during discharge	1	8/05/2025	<0.001	<0.001	<0.001	Yes			
May-25	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Monthly during discharge	1	8/05/2025	0.26	0.26	0.26	Yes			
May-25	Nitrogen	(mg/L)	Monthly during discharge	1	8/05/2025	2.00	2.00	2.00	Yes			
May-25	pH	pH	Monthly during discharge	1	8/05/2025	8.26	8.26	8.26	Yes	6.5 - 9.5	No	
May-25	Phosphorus	(mg/L)	Monthly during discharge	1	8/05/2025	<0.05	<0.05	<0.05	Yes			
May-25	Reactive Phosphorus	(mg/L)	Monthly during discharge	1	8/05/2025	<0.005	<0.005	<0.005	Yes			
May-25	Selenium	(mg/L)	Monthly during discharge	1	8/05/2025	0.002	0.002	0.002	Yes			
May-25	Total Kjeldahl Nitrogen	(mg/L)	Monthly during discharge	1	8/05/2025	1.70	1.70	1.70	Yes			
May-25	Total Suspended Solids	(mg/L)	Monthly during discharge	1	8/05/2025	10	10	10	Yes	50	No	
May-25	Vanadium	(mg/L)	Monthly during discharge	1	8/05/2025	0.01	0.01	0.01	Yes			
May-25	Zinc	(mg/L)	Monthly during discharge	1	8/05/2025	0.006	0.006	0.006	Yes			

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
May-25	Aluminium	(mg/L)	Daily for any discharge >2 hrs	31	May 2025	0.08	0.3	1.1	Yes			
May-25	Ammonia	(mg/L)	Daily for any discharge >2 hrs	31	May 2025	<0.005	0.0	0.14	Yes			
May-25	Arsenic (III)	(mg/L)	Daily for any discharge >2 hrs	31	May 2025	<0.001	<0.001	<0.001	Yes			
May-25	Arsenic (V)	(mg/L)	Daily for any discharge >2 hrs	31	May 2025	0.005	0.009	0.012	Yes			
May-25	Cadmium	(mg/L)	Daily for any discharge >2 hrs	31	May 2025	<0.0001	<0.0001	<0.0001	Yes			
May-25	Chromium (trivalent)	(mg/L)	Daily for any discharge >2 hrs	31	May 2025	<0.005	0.0005	0.01	Yes			
May-25	Chromium (VI) Compounds	(mg/L)	Daily for any discharge >2 hrs	31	May 2025	<0.005	0.013	0.03	Yes			
May-25	Copper	(mg/L)	Daily for any discharge >2 hrs	31	May 2025	<0.001	0.0012	0.004	Yes			
May-25	Iron	(mg/L)	Daily for any discharge >2 hrs	31	May 2025	0.001	0	0.77	Yes			
May-25	Lead	(mg/L)	Daily for any discharge >2 hrs	31	May 2025	<0.001	<0.001	<0.001	Yes			
May-25	Manganese	(mg/L)	Daily for any discharge >2 hrs	31	May 2025	<0.005	0.0	0.025	Yes			Discharge from EPA 25 during May was associated with the recent NSW East Coast severe weather event. Vales Point power station recorded 544mm of rain within a 31-day period.
May-25	Nickel	(mg/L)	Daily for any discharge >2 hrs	31	May 2025	<0.001	0.0011	0.005	Yes			
May-25	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Daily for any discharge >2 hrs	31	May 2025	0.02	0.3	0.91	Yes			
May-25	Nitrogen	(mg/L)	Daily for any discharge >2 hrs	31	May 2025	0.2	0.5	1	Yes			
May-25	pH	pH	Daily for any discharge >2 hrs	31	May 2025	8.16	8.71	9.08	Yes	6.5 - 9.5	Yes	
May-25	Phosphorus	(mg/L)	Daily for any discharge >2 hrs	31	May 2025	<0.05	0.1	0.1	Yes			
May-25	Reactive Phosphorus	(mg/L)	Daily for any discharge >2 hrs	31	May 2025	0.007	0.0	0.07	Yes			
May-25	Selenium	(mg/L)	Daily for any discharge >2 hrs	31	May 2025	0.011	0.019	0.032	Yes			
May-25	Total Kjeldahl Nitrogen	(mg/L)	Daily for any discharge >2 hrs	31	May 2025	<0.1	0.2	0.9	Yes			
May-25	Total Suspended Solids	(mg/L)	Daily for any discharge >2 hrs	31	May 2025	<5	14	91	Yes	50	Yes	
May-25	Vanadium	(mg/L)	Daily for any discharge >2 hrs	31	May 2025	0.029	0.04	0.064	Yes			
May-25	Zinc	(mg/L)	Daily for any discharge >2 hrs	31	May 2025	0.002	0.009	0.017	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
May-25	Aluminium	(mg/L)	Quarterly									
May-25	Ammonia	(mg/L)	Quarterly									
May-25	Arsenic (III)	(mg/L)	Quarterly									
May-25	Arsenic (V)	(mg/L)	Quarterly									
May-25	Cadmium	(mg/L)	Quarterly									
May-25	Chromium (trivalent)	(mg/L)	Quarterly									
May-25	Chromium (VI) Compounds	(mg/L)	Quarterly									
May-25	Copper	(mg/L)	Quarterly									
May-25	Electrical Conductivity	(us/cm)	Quarterly									
May-25	Iron	(mg/L)	Quarterly									
May-25	Lead	(mg/L)	Quarterly									Next round of quarterly groundwater sampling scheduled for July 2025
May-25	Magnesium	(mg/L)	Quarterly									
May-25	Manganese	(mg/L)	Quarterly									
May-25	Nickel	(mg/L)	Quarterly									
May-25	pH	pH	Quarterly									
May-25	Potassium	(mg/L)	Quarterly									
May-25	Selenium	(mg/L)	Quarterly									
May-25	Sodium	(mg/L)	Quarterly									
May-25	Standing Water Level	(m)	Quarterly									
May-25	Vanadium	(mg/L)	Quarterly									
May-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
May-25	Aluminium	(mg/L)	Quarterly									
May-25	Ammonia	(mg/L)	Quarterly									
May-25	Arsenic (III)	(mg/L)	Quarterly									
May-25	Arsenic (V)	(mg/L)	Quarterly									
May-25	Cadmium	(mg/L)	Quarterly									
May-25	Chromium (trivalent)	(mg/L)	Quarterly									
May-25	Chromium (VI) Compounds	(mg/L)	Quarterly									
May-25	Copper	(mg/L)	Quarterly									
May-25	Electrical Conductivity	(us/cm)	Quarterly									
May-25	Iron	(mg/L)	Quarterly									
May-25	Lead	(mg/L)	Quarterly									Next round of quarterly groundwater sampling scheduled for July 2025
May-25	Magnesium	(mg/L)	Quarterly									
May-25	Manganese	(mg/L)	Quarterly									
May-25	Nickel	(mg/L)	Quarterly									
May-25	pH	pH	Quarterly									
May-25	Potassium	(mg/L)	Quarterly									
May-25	Selenium	(mg/L)	Quarterly									
May-25	Sodium	(mg/L)	Quarterly									
May-25	Standing Water Level	(m)	Quarterly									
May-25	Vanadium	(mg/L)	Quarterly									
May-25	Zinc	(mg/L)	Quarterly									

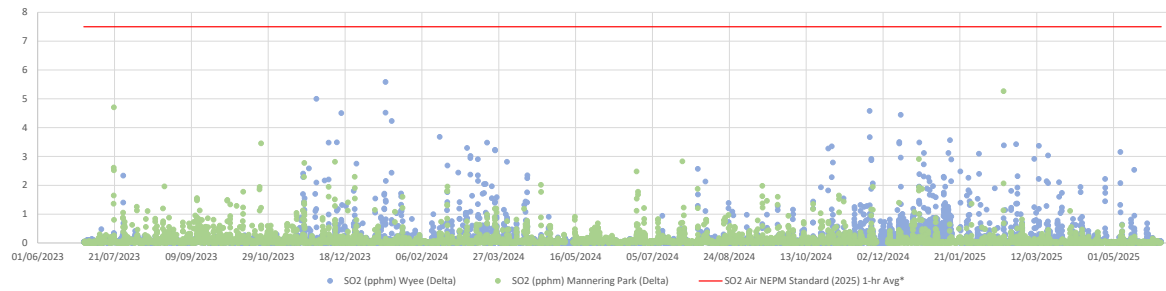
POINT 32 Groundwater quality monitoring bore marked and shown as EPA ID 32 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).												
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample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

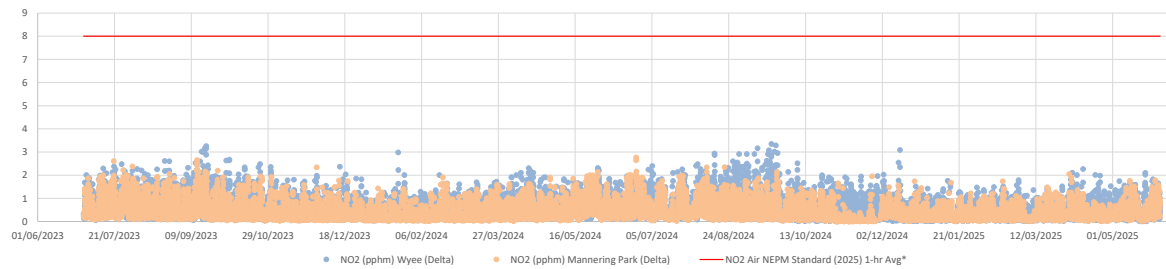
Ambient Air Quality Graphs

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.

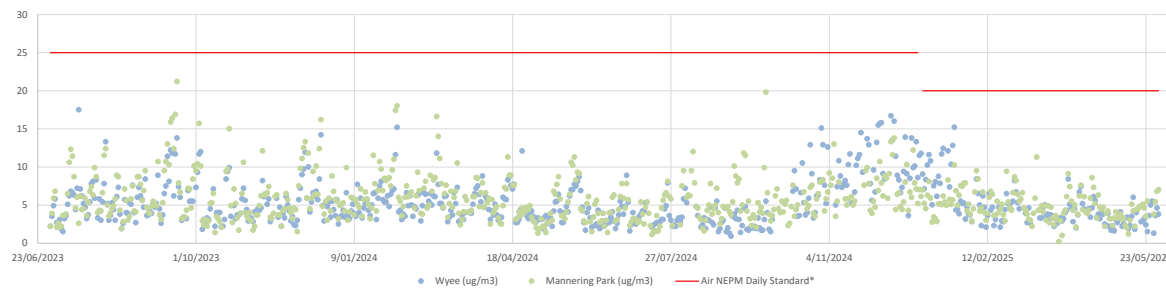
Ambient SO₂ (pphm)



Ambient NO₂ (pphm)



PM_{2.5} (ug/m³)



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}