

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	April 2025	
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

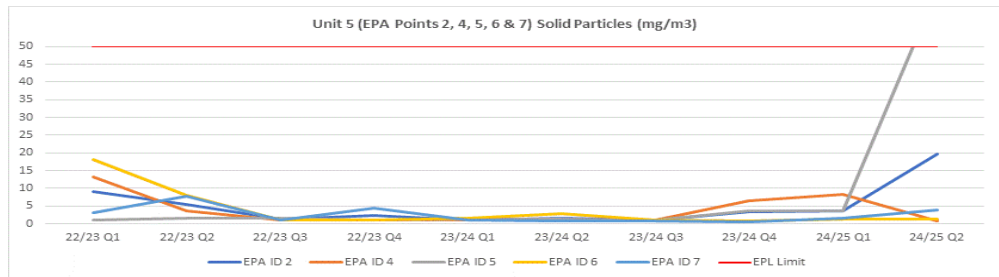
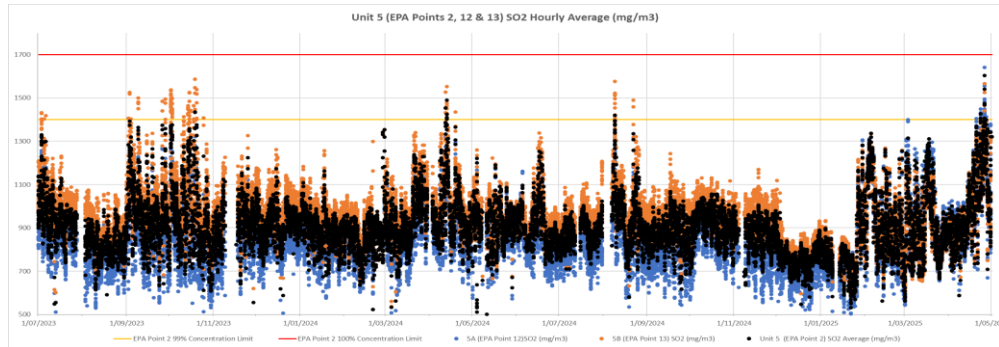
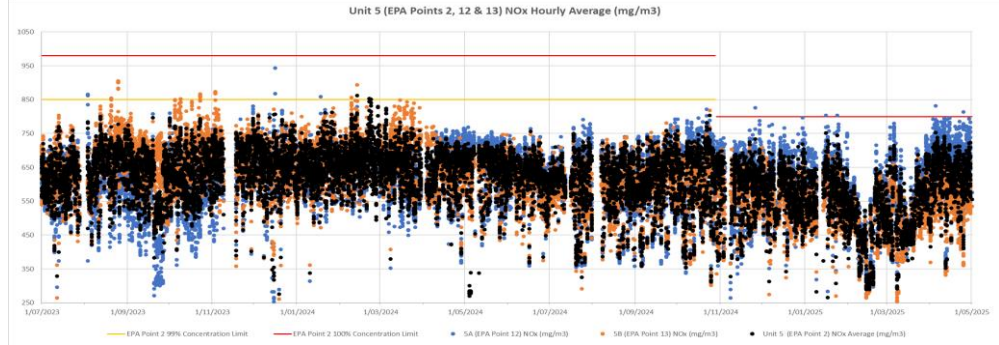
Monitoring Locations

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.



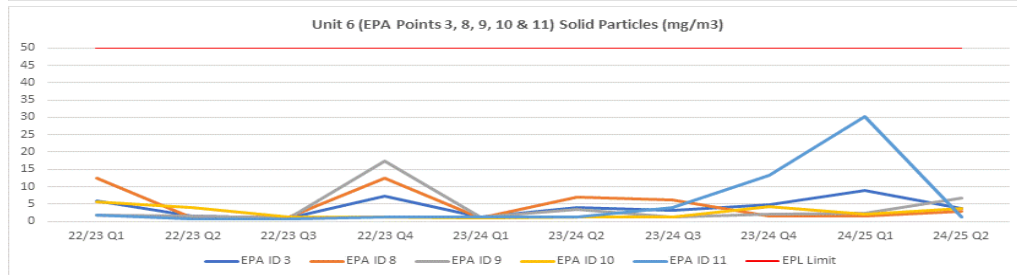
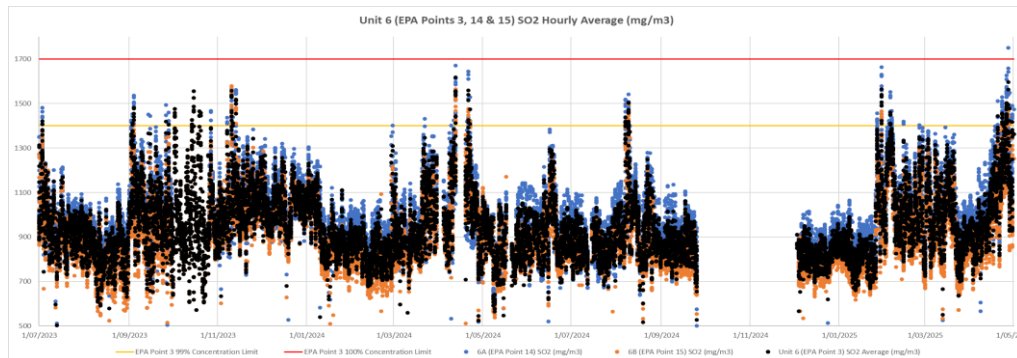
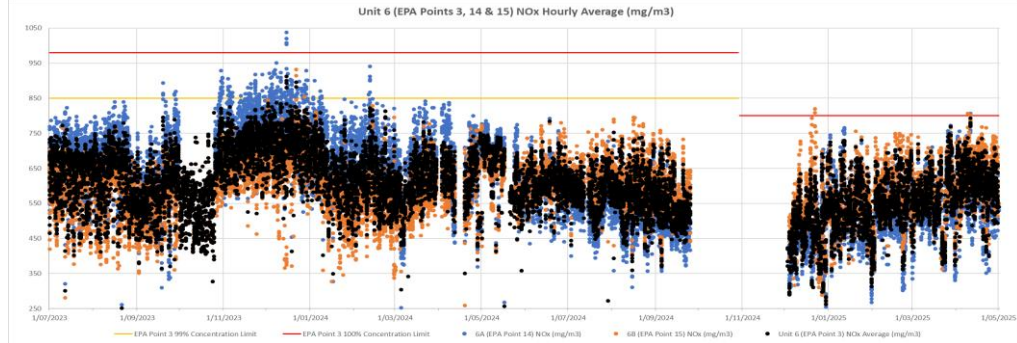
POINT 2 Combined air emissions from boiler 5 via Points 4 to 7 to Point 1 marked and shown as EPA ID 2 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).												
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	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
Apr-25	Cadmium	(mg/m3)	Every 6 months							0.2	No	
Apr-25	Chlorine	(mg/m3)	Every 6 months							20	No	
Apr-25	Fluorine	(mg/m3)	Every 6 months							30	No	
Apr-25	Hydrogen chloride	(mg/m3)	Every 6 months							50	No	
Apr-25	Mercury	(mg/m3)	Every 6 months							0.05	No	
Apr-25	Nitrogen Oxides	(mg/m3)	Continuous	100.0%	Apr-25	352	615	752		800	No	
Apr-25	Solid Particles	(mg/m3)	Quarterly							50	No	
Apr-25	Sulfur dioxide	(mg/m3)	Continuous	100.0%	Apr-25	587	999	1604	1400	1700	No	
Apr-25	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months							100	No	
Apr-25	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months							0.75	No	
Apr-25	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. 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
Apr-25	Cadmium	(mg/m3)	Every 6 months							0.2	No	
Apr-25	Chlorine	(mg/m3)	Every 6 months							20	No	
Apr-25	Fluorine	(mg/m3)	Every 6 months							30	No	
Apr-25	Hydrogen chloride	(mg/m3)	Every 6 months							50	No	
Apr-25	Mercury	(mg/m3)	Every 6 months							0.05	No	
Apr-25	Nitrogen Oxides	(mg/m3)	Continuous	100.0%	Apr-25	390	607	793		800	No	
Apr-25	Solid Particles	(mg/m3)	Quarterly							50	No	
Apr-25	Sulfur dioxide	(mg/m3)	Continuous	100.0%	Apr-25	707	1055	1597	1400	1700	No	
Apr-25	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months							100	No	
Apr-25	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months							0.75	No	
Apr-25	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 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
Apr-25	Cadmium	(mg/m3)	Every 6 months								N/A	
Apr-25	Carbon dioxide	(%)	Every 6 months								N/A	
Apr-25	Chlorine	(mg/m3)	Every 6 months								N/A	
Apr-25	Fluorine	(mg/m3)	Every 6 months								N/A	
Apr-25	Hydrogen chloride	(mg/m3)	Every 6 months								N/A	
Apr-25	Mercury	(mg/m3)	Every 6 months								N/A	
Apr-25	Solid Particles	(mg/m3)	Quarterly								N/A	
Apr-25	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months								N/A	
Apr-25	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	
Apr-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
Apr-25	Cadmium	(mg/m3)	Every 6 months								N/A	
Apr-25	Mercury	(mg/m3)	Every 6 months								N/A	
Apr-25	Solid Particles	(mg/m3)	Quarterly								N/A	
Apr-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
Apr-25	Cadmium	(mg/m3)	Every 6 months								N/A	
Apr-25	Carbon dioxide	(%)	Every 6 months								N/A	
Apr-25	Chlorine	(mg/m3)	Every 6 months								N/A	
Apr-25	Fluorine	(mg/m3)	Every 6 months								N/A	
Apr-25	Hydrogen chloride	(mg/m3)	Every 6 months								N/A	
Apr-25	Mercury	(mg/m3)	Every 6 months								N/A	
Apr-25	Solid Particles	(mg/m3)	Quarterly								N/A	
Apr-25	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months								N/A	
Apr-25	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	
Apr-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
Apr-25	Cadmium	(mg/m3)	Every 6 months								N/A	
Apr-25	Mercury	(mg/m3)	Every 6 months								N/A	
Apr-25	Solid Particles	(mg/m3)	Quarterly								N/A	
Apr-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
Apr-25	Cadmium	(mg/m3)	Every 6 months								N/A	
Apr-25	Carbon dioxide	(%)	Every 6 months								N/A	
Apr-25	Chlorine	(mg/m3)	Every 6 months								N/A	
Apr-25	Fluorine	(mg/m3)	Every 6 months								N/A	
Apr-25	Hydrogen chloride	(mg/m3)	Every 6 months								N/A	
Apr-25	Mercury	(mg/m3)	Every 6 months								N/A	
Apr-25	Solid Particles	(mg/m3)	Quarterly								N/A	
Apr-25	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months								N/A	
Apr-25	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	
Apr-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
Apr-25	Cadmium	(mg/m3)	Every 6 months								N/A	
Apr-25	Mercury	(mg/m3)	Every 6 months								N/A	
Apr-25	Solid Particles	(mg/m3)	Quarterly								N/A	
Apr-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
Apr-25	Cadmium	(mg/m3)	Every 6 months								N/A	
Apr-25	Carbon dioxide	(%)	Every 6 months								N/A	
Apr-25	Chlorine	(mg/m3)	Every 6 months								N/A	
Apr-25	Fluorine	(mg/m3)	Every 6 months								N/A	
Apr-25	Hydrogen chloride	(mg/m3)	Every 6 months								N/A	
Apr-25	Mercury	(mg/m3)	Every 6 months								N/A	
Apr-25	Solid Particles	(mg/m3)	Quarterly								N/A	
Apr-25	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months								N/A	
Apr-25	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	
Apr-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
Apr-25	Cadmium	(mg/m3)	Every 6 months								N/A	
Apr-25	Mercury	(mg/m3)	Every 6 months								N/A	
Apr-25	Solid Particles	(mg/m3)	Quarterly								N/A	
Apr-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
Apr-25	Nitrogen Oxides	(mg/m3)	Continuous	100%	Apr-25	372	671	832			N/A	
Apr-25	Sulfur dioxide	(mg/m3)	Continuous	100%	Apr-25	587	1004	1642			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
Apr-25	Nitrogen Oxides	(mg/m3)	Continuous	100%	Apr-25	332	559	698			N/A	
Apr-25	Sulfur dioxide	(mg/m3)	Continuous	100%	Apr-25	587	995	1566			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
Apr-25	Nitrogen Oxides	(mg/m3)	Continuous	100%	Apr-25	351	580	807			N/A	
Apr-25	Sulfur dioxide	(mg/m3)	Continuous	100%	Apr-25	566	1124	1750			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
Apr-25	Nitrogen Oxides	(mg/m3)	Continuous	100%	Apr-25	428	635	807			N/A	
Apr-25	Sulfur dioxide	(mg/m3)	Continuous	100%	Apr-25	663	986	1465			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
Apr-25	Chlorine (free residual)	(mg/L)	Monthly during discharge	1	7/04/2025	<0.02	<0.02	<0.02		0.2	No	
Apr-25	Copper	(mg/L)	Monthly during discharge	1	7/04/2025	0.002	0.002	0.002		0.005	No	
Apr-25	Iron	(mg/L)	Monthly during discharge	1	7/04/2025	0.15	0.15	0.15		0.3	No	
Apr-25	Oil and Grease	Visible	Continuous during discharge	100%	Apr-25	NIL	NIL	NIL				
Apr-25	Selenium	(mg/L)	Monthly during discharge	1	7/04/2025	0.003	0.003	0.003		0.005	No	
Apr-25	Temperature	(°C)	Continuous during discharge	100%	Apr-25	26.3	30.0	34.4	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
Apr-25	Aluminium	(mg/L)	Monthly during discharge	1	7/04/2025	0.04	0.04	0.04				
Apr-25	Ammonia	(mg/L)	Monthly during discharge	1	7/04/2025	0.130	0.130	0.130				
Apr-25	Arsenic (III)	(mg/L)	Monthly during discharge	1	7/04/2025	<0.001	<0.001	<0.001				
Apr-25	Arsenic (V)	(mg/L)	Monthly during discharge	1	7/04/2025	0.01	0.01	0.01				
Apr-25	Cadmium	(mg/L)	Monthly during discharge	1	7/04/2025	<0.0001	<0.0001	<0.0001				
Apr-25	Chromium (trivalent)	(mg/L)	Monthly during discharge	1	7/04/2025	<0.005	<0.005	<0.005				
Apr-25	Chromium (VI) Compounds	(mg/L)	Monthly during discharge	1	7/04/2025	0.02	0.02	0.02				
Apr-25	Copper	(mg/L)	Monthly during discharge	1	7/04/2025	0.001	0.001	0.001				
Apr-25	Iron	(mg/L)	Monthly during discharge	1	7/04/2025	0.04	0.04	0.04				
Apr-25	Lead	(mg/L)	Monthly during discharge	1	7/04/2025	0.001	0.001	0.001				
Apr-25	Manganese	(mg/L)	Monthly during discharge	1	7/04/2025	0.008	0.008	0.008				
Apr-25	Nickel	(mg/L)	Monthly during discharge	1	7/04/2025	0.006	0.006	0.006				
Apr-25	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Monthly during discharge	1	7/04/2025	0.072	0.072	0.072				
Apr-25	Nitrogen	(mg/L)	Monthly during discharge	1	7/04/2025	0.5	0.5	0.5				
Apr-25	pH	pH	Monthly during discharge	1	7/04/2025	9.23	9.23	9.23		6.5 - 9.5	No	
Apr-25	Phosphorus	(mg/L)	Monthly during discharge	1	7/04/2025	0.1	0.1	0.1				
Apr-25	Reactive Phosphorus	(mg/L)	Monthly during discharge	1	7/04/2025	0.10	0.10	0.10				
Apr-25	Selenium	(mg/L)	Monthly during discharge	1	7/04/2025	0.051	0.051	0.051				
Apr-25	Total Kjeldahl Nitrogen	(mg/L)	Monthly during discharge	1	7/04/2025	0.4	0.4	0.4				
Apr-25	Total Suspended Solids	(mg/L)	Monthly during discharge	1	7/04/2025	6	6	6		50	No	
Apr-25	Vanadium	(mg/L)	Monthly during discharge	1	7/04/2025	0.11	0.11	0.11				
Apr-25	Zinc	(mg/L)	Monthly during discharge	1	7/04/2025	0.006	0.006	0.006				

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
Apr-25	Aluminium	(mg/L)	Monthly during discharge	1	7/04/2025	0.09	0.09	0.09	Yes			
Apr-25	Ammonia	(mg/L)	Monthly during discharge	1	7/04/2025	1.50	1.50	1.50	Yes			
Apr-25	Arsenic (III)	(mg/L)	Monthly during discharge	1	7/04/2025	<0.001	<0.001	<0.001	Yes			
Apr-25	Arsenic (V)	(mg/L)	Monthly during discharge	1	7/04/2025	<0.001	<0.001	<0.001	Yes			
Apr-25	Cadmium	(mg/L)	Monthly during discharge	1	7/04/2025	<0.0001	<0.0001	<0.0001	Yes			
Apr-25	Chromium (trivalent)	(mg/L)	Monthly during discharge	1	7/04/2025	<0.005	<0.005	<0.005	Yes			
Apr-25	Chromium (VI) Compounds	(mg/L)	Monthly during discharge	1	7/04/2025	<0.005	<0.005	<0.005	Yes			
Apr-25	Copper	(mg/L)	Monthly during discharge	1	7/04/2025	<0.001	<0.001	<0.001	Yes			
Apr-25	Iron	(mg/L)	Monthly during discharge	1	7/04/2025	0.40	0.40	0.40	Yes			
Apr-25	Lead	(mg/L)	Monthly during discharge	1	7/04/2025	<0.001	<0.001	<0.001	Yes			
Apr-25	Manganese	(mg/L)	Monthly during discharge	1	7/04/2025	0.140	0.140	0.140	Yes			
Apr-25	Nickel	(mg/L)	Monthly during discharge	1	7/04/2025	0.0050	0.0050	0.0050	Yes			
Apr-25	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Monthly during discharge	1	7/04/2025	0.32	0.32	0.32	Yes			
Apr-25	Nitrogen	(mg/L)	Monthly during discharge	1	7/04/2025	1.80	1.80	1.80	Yes			
Apr-25	pH	pH	Monthly during discharge	1	7/04/2025	8.13	8.13	8.13	Yes	6.5 - 9.5	No	
Apr-25	Phosphorus	(mg/L)	Monthly during discharge	1	7/04/2025	<0.05	<0.05	<0.05	Yes			
Apr-25	Reactive Phosphorus	(mg/L)	Monthly during discharge	1	7/04/2025	<0.005	<0.005	<0.005	Yes			
Apr-25	Selenium	(mg/L)	Monthly during discharge	1	7/04/2025	0.001	0.001	0.001	Yes			
Apr-25	Total Kjeldahl Nitrogen	(mg/L)	Monthly during discharge	1	7/04/2025	1.60	1.60	1.60	Yes			
Apr-25	Total Suspended Solids	(mg/L)	Monthly during discharge	1	7/04/2025	<5	<5	<5	Yes	50	No	
Apr-25	Vanadium	(mg/L)	Monthly during discharge	1	7/04/2025	0.01	0.01	0.01	Yes			
Apr-25	Zinc	(mg/L)	Monthly during discharge	1	7/04/2025	0.030	0.030	0.030	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
Apr-25	Aluminium	(mg/L)	Daily for any discharge >2 hrs						No			
Apr-25	Ammonia	(mg/L)	Daily for any discharge >2 hrs						No			
Apr-25	Arsenic (III)	(mg/L)	Daily for any discharge >2 hrs						No			
Apr-25	Arsenic (V)	(mg/L)	Daily for any discharge >2 hrs						No			
Apr-25	Cadmium	(mg/L)	Daily for any discharge >2 hrs						No			
Apr-25	Chromium (trivalent)	(mg/L)	Daily for any discharge >2 hrs						No			
Apr-25	Chromium (VI) Compounds	(mg/L)	Daily for any discharge >2 hrs						No			
Apr-25	Copper	(mg/L)	Daily for any discharge >2 hrs						No			
Apr-25	Iron	(mg/L)	Daily for any discharge >2 hrs						No			
Apr-25	Lead	(mg/L)	Daily for any discharge >2 hrs						No			
Apr-25	Manganese	(mg/L)	Daily for any discharge >2 hrs						No			
Apr-25	Nickel	(mg/L)	Daily for any discharge >2 hrs						No			No discharge from EPA25 during April 2025
Apr-25	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Daily for any discharge >2 hrs						No			
Apr-25	Nitrogen	(mg/L)	Daily for any discharge >2 hrs						No			
Apr-25	pH	pH	Daily for any discharge >2 hrs						No	6.5 - 9.5		
Apr-25	Phosphorus	(mg/L)	Daily for any discharge >2 hrs						No			
Apr-25	Reactive Phosphorus	(mg/L)	Daily for any discharge >2 hrs						No			
Apr-25	Selenium	(mg/L)	Daily for any discharge >2 hrs						No			
Apr-25	Total Kjeldahl Nitrogen	(mg/L)	Daily for any discharge >2 hrs						No			
Apr-25	Total Suspended Solids	(mg/L)	Daily for any discharge >2 hrs						No	50		
Apr-25	Vanadium	(mg/L)	Daily for any discharge >2 hrs						No			
Apr-25	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
Apr-25	Aluminium	(mg/L)	Quarterly	1	7/04/2025	1.10	1.10	1.10				
Apr-25	Ammonia	(mg/L)	Quarterly	1	7/04/2025	4.0	4.0	4.0				
Apr-25	Arsenic (III)	(mg/L)	Quarterly	1	7/04/2025	<0.001	<0.001	<0.001				
Apr-25	Arsenic (V)	(mg/L)	Quarterly	1	7/04/2025	<0.001	<0.001	<0.001				
Apr-25	Cadmium	(mg/L)	Quarterly	1	7/04/2025	<0.0001	<0.0001	<0.0001				
Apr-25	Chromium (trivalent)	(mg/L)	Quarterly	1	7/04/2025	<0.005	<0.005	<0.005				
Apr-25	Chromium (VI) Compounds	(mg/L)	Quarterly	1	7/04/2025	<0.005	<0.005	<0.005				
Apr-25	Copper	(mg/L)	Quarterly	1	7/04/2025	0.004	0.004	0.004				
Apr-25	Electrical Conductivity	(us/cm)	Quarterly	1	7/04/2025	18071	18071	18071				
Apr-25	Iron	(mg/L)	Quarterly	1	7/04/2025	69.0	69.0	69.0				
Apr-25	Lead	(mg/L)	Quarterly	1	7/04/2025	0.002	0.002	0.002				Next round of quarterly groundwater sampling scheduled for July 2025
Apr-25	Magnesium	(mg/L)	Quarterly	1	7/04/2025	1000	1000	1000				
Apr-25	Manganese	(mg/L)	Quarterly	1	7/04/2025	4.5	4.5	4.5				
Apr-25	Nickel	(mg/L)	Quarterly	1	7/04/2025	0.030	0.030	0.030				
Apr-25	pH	pH	Quarterly	1	7/04/2025	6.01	6.01	6.01				
Apr-25	Potassium	(mg/L)	Quarterly	1	7/04/2025	140	140	140				
Apr-25	Selenium	(mg/L)	Quarterly	1	7/04/2025	<0.001	<0.001	<0.001				
Apr-25	Sodium	(mg/L)	Quarterly	1	7/04/2025	5300	5300	5300				
Apr-25	Standing Water Level	(m)	Quarterly	1	7/04/2025	3.82	3.82	3.82				
Apr-25	Vanadium	(mg/L)	Quarterly	1	7/04/2025	0.003	0.003	0.003				
Apr-25	Zinc	(mg/L)	Quarterly	1	7/04/2025	0.018	0.018	0.018				

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
Apr-25	Aluminium	(mg/L)	Quarterly	1	7/04/2025	1.00	1.00	1.00				
Apr-25	Ammonia	(mg/L)	Quarterly	1	7/04/2025	1.10	1.10	1.10				
Apr-25	Arsenic (III)	(mg/L)	Quarterly	1	7/04/2025	<0.001	<0.001	<0.001				
Apr-25	Arsenic (V)	(mg/L)	Quarterly	1	7/04/2025	<0.001	<0.001	<0.001				
Apr-25	Cadmium	(mg/L)	Quarterly	1	7/04/2025	<0.0001	<0.0001	<0.0001				
Apr-25	Chromium (trivalent)	(mg/L)	Quarterly	1	7/04/2025	<0.005	<0.005	<0.005				
Apr-25	Chromium (VI) Compounds	(mg/L)	Quarterly	1	7/04/2025	<0.005	<0.005	<0.005				
Apr-25	Copper	(mg/L)	Quarterly	1	7/04/2025	0.013	0.013	0.013				
Apr-25	Electrical Conductivity	(us/cm)	Quarterly	1	7/04/2025	12855	12855	12855				
Apr-25	Iron	(mg/L)	Quarterly	1	7/04/2025	93	93	93				
Apr-25	Lead	(mg/L)	Quarterly	1	7/04/2025	0.006	0.006	0.006				Next round of quarterly groundwater sampling scheduled for July 2025
Apr-25	Magnesium	(mg/L)	Quarterly	1	7/04/2025	430	430	430				
Apr-25	Manganese	(mg/L)	Quarterly	1	7/04/2025	2.0	2.0	2.0				
Apr-25	Nickel	(mg/L)	Quarterly	1	7/04/2025	0.045	0.045	0.045				
Apr-25	pH	pH	Quarterly	1	7/04/2025	5.57	5.57	5.57				
Apr-25	Potassium	(mg/L)	Quarterly	1	7/04/2025	28.0	28.0	28.0				
Apr-25	Selenium	(mg/L)	Quarterly	1	7/04/2025	0.002	0.002	0.002				
Apr-25	Sodium	(mg/L)	Quarterly	1	7/04/2025	3100	3100	3100				
Apr-25	Standing Water Level	(m)	Quarterly	1	7/04/2025	1.56	1.56	1.56				
Apr-25	Vanadium	(mg/L)	Quarterly	1	7/04/2025	0.005	0.005	0.005				
Apr-25	Zinc	(mg/L)	Quarterly	1	7/04/2025	0.60	0.60	0.60				

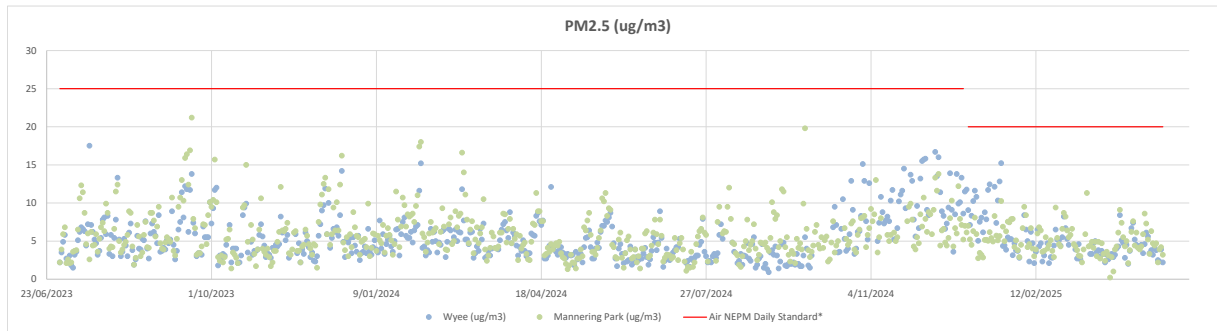
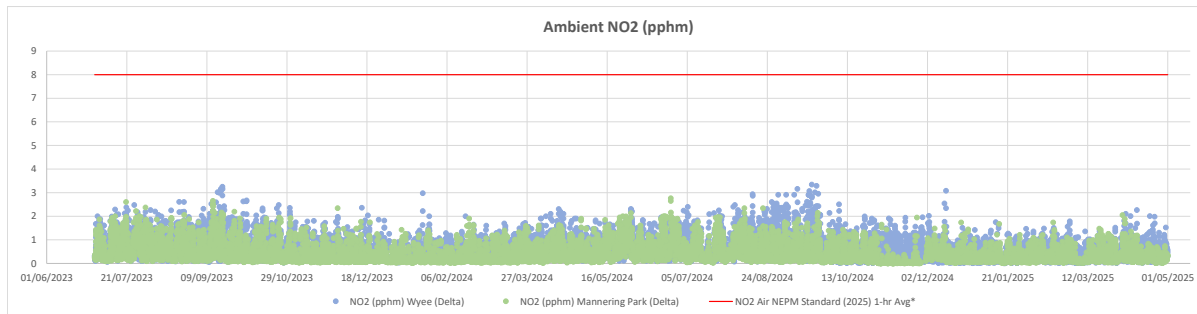
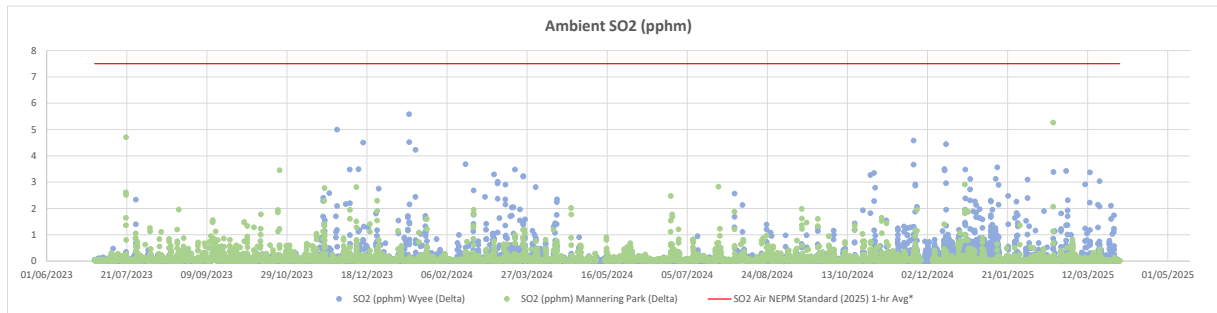
POINT 32 Groundwater quality monitoring bore marked and shown as EPA ID 32 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).												
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
Apr-25	Aluminium	(mg/L)	Quarterly	1	7/04/2025	1.10	1.10	1.10				
Apr-25	Ammonia	(mg/L)	Quarterly	1	7/04/2025	0.13	0.13	0.13				
Apr-25	Arsenic (III)	(mg/L)	Quarterly	1	7/04/2025	<0.001	<0.001	<0.001				
Apr-25	Arsenic (V)	(mg/L)	Quarterly	1	7/04/2025	<0.001	<0.001	<0.001				
Apr-25	Cadmium	(mg/L)	Quarterly	1	7/04/2025	<0.0001	<0.0001	<0.0001				
Apr-25	Chromium (trivalent)	(mg/L)	Quarterly	1	7/04/2025	<0.005	<0.005	<0.005				
Apr-25	Chromium (VI) Compounds	(mg/L)	Quarterly	1	7/04/2025	<0.005	<0.005	<0.005				
Apr-25	Copper	(mg/L)	Quarterly	1	7/04/2025	0.005	0.005	0.005				
Apr-25	Electrical Conductivity	(us/cm)	Quarterly	1	7/04/2025	1018	1018	1018				
Apr-25	Iron	(mg/L)	Quarterly	1	7/04/2025	9	9	9				
Apr-25	Lead	(mg/L)	Quarterly	1	7/04/2025	0.002	0.002	0.002				Next round of quarterly groundwater sampling scheduled for July 2025
Apr-25	Magnesium	(mg/L)	Quarterly	1	7/04/2025	13	13	13				
Apr-25	Manganese	(mg/L)	Quarterly	1	7/04/2025	0.100	0.100	0.100				
Apr-25	Nickel	(mg/L)	Quarterly	1	7/04/2025	0.005	0.005	0.005				
Apr-25	pH	pH	Quarterly	1	7/04/2025	6.33	6.33	6.33				
Apr-25	Potassium	(mg/L)	Quarterly	1	7/04/2025	4.0	4.0	4.0				
Apr-25	Selenium	(mg/L)	Quarterly	1	7/04/2025	<0.001	<0.001	<0.001				
Apr-25	Sodium	(mg/L)	Quarterly	1	7/04/2025	100	100	100				
Apr-25	Standing Water Level	(m)	Quarterly	1	7/04/2025	3.76	3.76	3.76				
Apr-25	Vanadium	(mg/L)	Quarterly	1	7/04/2025	0.002	0.002	0.002				
Apr-25	Zinc	(mg/L)	Quarterly	1	7/04/2025	0.023	0.023	0.023				

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
Apr-25	Aluminium	(mg/L)	Quarterly	1	7/04/2025	1.20	1.20	1.20				
Apr-25	Ammonia	(mg/L)	Quarterly	1	7/04/2025	0.10	0.10	0.10				
Apr-25	Arsenic (III)	(mg/L)	Quarterly	1	7/04/2025	<0.001	<0.001	<0.001				
Apr-25	Arsenic (V)	(mg/L)	Quarterly	1	7/04/2025	<0.001	<0.001	<0.001				
Apr-25	Cadmium	(mg/L)	Quarterly	1	7/04/2025	0.0001	0.0001	0.0001				
Apr-25	Chromium (trivalent)	(mg/L)	Quarterly	1	7/04/2025	<0.005	<0.005	<0.005				
Apr-25	Chromium (VI) Compounds	(mg/L)	Quarterly	1	7/04/2025	<0.005	<0.005	<0.005				
Apr-25	Copper	(mg/L)	Quarterly	1	7/04/2025	0.004	0.004	0.004				
Apr-25	Electrical Conductivity	(us/cm)	Quarterly	1	7/04/2025	24966	24966	24966				
Apr-25	Iron	(mg/L)	Quarterly	1	7/04/2025	58	58	58				
Apr-25	Lead	(mg/L)	Quarterly	1	7/04/2025	0.003	0.003	0.003				Next round of quarterly groundwater sampling scheduled for July 2025
Apr-25	Magnesium	(mg/L)	Quarterly	1	7/04/2025	1600	1600	1600				
Apr-25	Manganese	(mg/L)	Quarterly	1	7/04/2025	0.66	0.66	0.66				
Apr-25	Nickel	(mg/L)	Quarterly	1	7/04/2025	0.004	0.004	0.004				
Apr-25	pH	pH	Quarterly	1	7/04/2025	6.99	6.99	6.99				
Apr-25	Potassium	(mg/L)	Quarterly	1	7/04/2025	450	450	450				
Apr-25	Selenium	(mg/L)	Quarterly	1	7/04/2025	0.001	0.001	0.001				
Apr-25	Sodium	(mg/L)	Quarterly	1	7/04/2025	9000	9000	9000				
Apr-25	Standing Water Level	(m)	Quarterly	1	7/04/2025	0.45	0.45	0.45				
Apr-25	Vanadium	(mg/L)	Quarterly	1	7/04/2025	0.012	0.012	0.012				
Apr-25	Zinc	(mg/L)	Quarterly	1	7/04/2025	0.044	0.044	0.044				

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/Masurement 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
Apr-25	Aluminium	(mg/L)	Quarterly	1	7/04/2025	0.4	0.4	0.4				
Apr-25	Ammonia	(mg/L)	Quarterly	1	7/04/2025	0.160	0.160	0.160				
Apr-25	Arsenic (III)	(mg/L)	Quarterly	1	7/04/2025	<0.001	<0.001	<0.001				
Apr-25	Arsenic (V)	(mg/L)	Quarterly	1	7/04/2025	<0.001	<0.001	<0.001				
Apr-25	Cadmium	(mg/L)	Quarterly	1	7/04/2025	<0.0001	<0.0001	<0.0001				
Apr-25	Chromium (trivalent)	(mg/L)	Quarterly	1	7/04/2025	<0.005	<0.005	<0.005				
Apr-25	Chromium (VI) Compounds	(mg/L)	Quarterly	1	7/04/2025	<0.005	<0.005	<0.005				
Apr-25	Copper	(mg/L)	Quarterly	1	7/04/2025	0.003	0.003	0.003				
Apr-25	Electrical Conductivity	(us/cm)	Quarterly	1	7/04/2025	372	372	372				
Apr-25	Iron	(mg/L)	Quarterly	1	7/04/2025	1.6	1.6	1.6				
Apr-25	Lead	(mg/L)	Quarterly	1	7/04/2025	0.001	0.001	0.001				Next round of quarterly groundwater sampling scheduled for July 2025
Apr-25	Magnesium	(mg/L)	Quarterly	1	7/04/2025	12.0	12.0	12.0				
Apr-25	Manganese	(mg/L)	Quarterly	1	7/04/2025	0.110	0.110	0.110				
Apr-25	Nickel	(mg/L)	Quarterly	1	7/04/2025	0.009	0.009	0.009				
Apr-25	pH	pH	Quarterly	1	7/04/2025	5.46	5.46	5.46				
Apr-25	Potassium	(mg/L)	Quarterly	1	7/04/2025	3	3	3				
Apr-25	Selenium	(mg/L)	Quarterly	1	7/04/2025	<0.001	<0.002	<0.003				
Apr-25	Sodium	(mg/L)	Quarterly	1	7/04/2025	110	110	110				
Apr-25	Standing Water Level	(m)	Quarterly	1	7/04/2025	0.41	0.41	0.41				
Apr-25	Vanadium	(mg/L)	Quarterly	1	7/04/2025	0.002	0.002	0.002				
Apr-25	Zinc	(mg/L)	Quarterly	1	7/04/2025	0.057	0.057	0.057				

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}