

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	September 2023	
ADDRESS	VALES ROAD, MANNERING PARK NSW	

POINT 2 Combined air emissions from boiler 5 via Points 4 to 7 to Point 1 marked and shown as EPA ID 2 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceed 100% Limit (yes/no)	Comments
Sep-23	Cadmium	(mg/m ³)	Every 6 months							0.2	No	
Sep-23	Chlorine	(mg/m ³)	Every 6 months							20	No	
Sep-23	Fluorine	(mg/m ³)	Every 6 months							30	No	
Sep-23	Hydrogen chloride	(mg/m ³)	Every 6 months							50	No	
Sep-23	Mercury	(mg/m ³)	Every 6 months							0.05	No	
Sep-23	Nitrogen Oxides	(mg/m ³)	Continuous	99.3%	Sep-23	266	607	797	850	980	No	
Sep-23	Solid Particles	(mg/m ³)	Quarterly							50	No	
Sep-23	Sulfur dioxide	(mg/m ³)	Continuous	99.3%	Sep-23	452	956	1393	1400	1700	No	
Sep-23	Sulfuric acid mist and sulfur trioxide (as SO ₃)	(mg/m ³)	Every 6 months							100	No	
Sep-23	Type 1 and Type 2 substances in aggregate	(mg/m ³)	Every 6 months							0.75	No	
Sep-23	VOC's as n-propane equivalent	(mg/m ³)	Every 6 months							10	No	

POINT 3 Combined air emissions from boiler 6 via Points 8 to 11 to Point 1 marked and shown as EPA ID 3 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceed 100% Limit (yes/no)	Comments
Sep-23	Cadmium	(mg/m ³)	Every 6 months							0.2	No	
Sep-23	Chlorine	(mg/m ³)	Every 6 months							20	No	
Sep-23	Fluorine	(mg/m ³)	Every 6 months							30	No	
Sep-23	Hydrogen chloride	(mg/m ³)	Every 6 months							50	No	
Sep-23	Mercury	(mg/m ³)	Every 6 months							0.05	No	
Sep-23	Nitrogen Oxides	(mg/m ³)	Continuous	99.2%	Sep-23	229	582	796	850	980	No	
Sep-23	Solid Particles	(mg/m ³)	Quarterly							50	No	
Sep-23	Sulfur dioxide	(mg/m ³)	Continuous	99.3%	Sep-23	476	1017	1481	1400	1700	No	
Sep-23	Sulfuric acid mist and sulfur trioxide (as SO ₃)	(mg/m ³)	Every 6 months							100	No	
Sep-23	Type 1 and Type 2 substances in aggregate	(mg/m ³)	Every 6 months							0.75	No	
Sep-23	VOC's as n-propane equivalent	(mg/m ³)	Every 6 months							10	No	

POINT 4 Boiler number 5 exhaust - duct A marked and shown as EPA ID 4 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
Sep-23	Cadmium	(mg/m ³)	Every 6 months								N/A	
Sep-23	Carbon dioxide	(%)	Every 6 months								N/A	
Sep-23	Chlorine	(mg/m ³)	Every 6 months								N/A	
Sep-23	Fluorine	(mg/m ³)	Every 6 months								N/A	
Sep-23	Hydrogen chloride	(mg/m ³)	Every 6 months								N/A	
Sep-23	Mercury	(mg/m ³)	Every 6 months								N/A	
Sep-23	Solid Particles	(mg/m ³)	Quarterly								N/A	
Sep-23	Sulfuric acid mist and sulfur trioxide (as SO ₃)	(mg/m ³)	Every 6 months								N/A	
Sep-23	Type 1 and Type 2 substances in aggregate	(mg/m ³)	Every 6 months								N/A	
Sep-23	VOC's as n-propane equivalent	(mg/m ³)	Every 6 months								N/A	

POINT 5 Boiler number 5 exhaust - duct B marked and shown as EPA ID 5 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
Sep-23	Cadmium	(mg/m3)	Every 6 months								N/A	
Sep-23	Mercury	(mg/m3)	Every 6 months								N/A	
Sep-23	Solid Particles	(mg/m3)	Quarterly								N/A	
Sep-23	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
Sep-23	Cadmium	(mg/m3)	Every 6 months								N/A	
Sep-23	Carbon dioxide	(%)	Every 6 months								N/A	
Sep-23	Chlorine	(mg/m3)	Every 6 months								N/A	
Sep-23	Fluorine	(mg/m3)	Every 6 months								N/A	
Sep-23	Hydrogen chloride	(mg/m3)	Every 6 months								N/A	
Sep-23	Mercury	(mg/m3)	Every 6 months								N/A	
Sep-23	Solid Particles	(mg/m3)	Quarterly								N/A	
Sep-23	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months								N/A	
Sep-23	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	
Sep-23	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
Sep-23	Cadmium	(mg/m3)	Every 6 months								N/A	
Sep-23	Mercury	(mg/m3)	Every 6 months								N/A	
Sep-23	Solid Particles	(mg/m3)	Quarterly								N/A	
Sep-23	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
Sep-23	Cadmium	(mg/m3)	Every 6 months								N/A	
Sep-23	Carbon dioxide	(%)	Every 6 months								N/A	
Sep-23	Chlorine	(mg/m3)	Every 6 months								N/A	
Sep-23	Fluorine	(mg/m3)	Every 6 months								N/A	
Sep-23	Hydrogen chloride	(mg/m3)	Every 6 months								N/A	
Sep-23	Mercury	(mg/m3)	Every 6 months								N/A	
Sep-23	Solid Particles	(mg/m3)	Quarterly								N/A	
Sep-23	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months								N/A	
Sep-23	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	
Sep-23	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
Sep-23	Cadmium	(mg/m3)	Every 6 months								N/A	
Sep-23	Mercury	(mg/m3)	Every 6 months								N/A	
Sep-23	Solid Particles	(mg/m3)	Quarterly								N/A	
Sep-23	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
Sep-23	Cadmium	(mg/m3)	Every 6 months								N/A	
Sep-23	Carbon dioxide	(%)	Every 6 months								N/A	
Sep-23	Chlorine	(mg/m3)	Every 6 months								N/A	
Sep-23	Fluorine	(mg/m3)	Every 6 months								N/A	
Sep-23	Hydrogen chloride	(mg/m3)	Every 6 months								N/A	
Sep-23	Mercury	(mg/m3)	Every 6 months								N/A	
Sep-23	Solid Particles	(mg/m3)	Quarterly								N/A	
Sep-23	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months								N/A	
Sep-23	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	
Sep-23	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
Sep-23	Cadmium	(mg/m3)	Every 6 months								N/A	
Sep-23	Mercury	(mg/m3)	Every 6 months								N/A	
Sep-23	Solid Particles	(mg/m3)	Quarterly								N/A	
Sep-23	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
Sep-23	Nitrogen Oxides	(mg/m3)	Continuous	99.3%	Sep-23	260	548	808			N/A	
Sep-23	Sulfur dioxide	(mg/m3)	Continuous	99.3%	Sep-23	418	872	1267			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
Sep-23	Nitrogen Oxides	(mg/m3)	Continuous	99.3%	Sep-23	272	666	809			N/A	
Sep-23	Sulfur dioxide	(mg/m3)	Continuous	99.3%	Sep-23	486	1040	1526			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
Sep-23	Nitrogen Oxides	(mg/m3)	Continuous	99.2%	Sep-23	221	620	894			N/A	
Sep-23	Sulfur dioxide	(mg/m3)	Continuous	99.3%	Sep-23	505	1076	1537			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
Sep-23	Nitrogen Oxides	(mg/m3)	Continuous	99.3%	Sep-23	237	544	748			N/A	
Sep-23	Sulfur dioxide	(mg/m3)	Continuous	99.3%	Sep-23	447	957	1426			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
Sep-23	Chlorine (free residual)	(mg/L)	Monthly during discharge	1	5/09/2023	<0.1	<0.1	<0.1		0.2	No	
Sep-23	Copper	(mg/L)	Monthly during discharge	1	5/09/2023	<0.001	<0.001	<0.001		0.005	No	
Sep-23	Iron	(mg/L)	Monthly during discharge	1	5/09/2023	0.06	0.06	0.06		0.3	No	
Sep-23	Oil and Grease	Visible	Continuous during discharge	100%	Sep-23	NIL	NIL	NIL				
Sep-23	Selenium	(mg/L)	Monthly during discharge	1	5/09/2023	0.003	0.003	0.003		0.005	No	
Sep-23	Temperature	(°C)	Continuous during discharge	100%	Sep-23	22.2	27.5	32.2	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
Sep-23	Aluminium	(mg/L)	Monthly during discharge	1	16/09/2023	0.01	0.01	0.01				
Sep-23	Ammonia	(mg/L)	Monthly during discharge	1	16/09/2023	<0.005	<0.005	<0.005				
Sep-23	Arsenic (III)	(mg/L)	Monthly during discharge	1	16/09/2023	<0.001	<0.001	<0.001				
Sep-23	Arsenic (V)	(mg/L)	Monthly during discharge	1	16/09/2023	0.015	0.015	0.015				
Sep-23	Cadmium	(mg/L)	Monthly during discharge	1	16/09/2023	0.0001	0.0001	0.0001				
Sep-23	Chromium (trivalent)	(mg/L)	Monthly during discharge	1	16/09/2023	<0.005	<0.005	<0.005				
Sep-23	Chromium (VI) Compounds	(mg/L)	Monthly during discharge	1	16/09/2023	0.020	0.020	0.020				
Sep-23	Copper	(mg/L)	Monthly during discharge	1	16/09/2023	<0.001	<0.001	<0.001				
Sep-23	Iron	(mg/L)	Monthly during discharge	1	16/09/2023	0.080	0.080	0.080				
Sep-23	Lead	(mg/L)	Monthly during discharge	1	16/09/2023	<0.001	<0.001	<0.001				
Sep-23	Manganese	(mg/L)	Monthly during discharge	1	16/09/2023	<0.005	<0.005	<0.005				
Sep-23	Nickel	(mg/L)	Monthly during discharge	1	16/09/2023	<0.001	<0.001	<0.001				
Sep-23	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Monthly during discharge	1	16/09/2023	<0.005	<0.005	<0.005				
Sep-23	Nitrogen	(mg/L)	Monthly during discharge	1	16/09/2023	0.30	0.30	0.30				
Sep-23	pH	pH	Monthly during discharge	1	16/09/2023	9.4	9.4	9.4		6.5 - 9.5	No	
Sep-23	Phosphorus	(mg/L)	Monthly during discharge	1	16/09/2023	0.10	0.10	0.10				
Sep-23	Reactive Phosphorus	(mg/L)	Monthly during discharge	1	16/09/2023	<0.005	<0.005	<0.005				
Sep-23	Selenium	(mg/L)	Monthly during discharge	1	16/09/2023	0.088	0.088	0.088				
Sep-23	Total Kjeldahl Nitrogen	(mg/L)	Monthly during discharge	1	16/09/2023	0.3	0.3	0.3				
Sep-23	Total Suspended Solids	(mg/L)	Monthly during discharge	1	16/09/2023	8	8	8		50	No	
Sep-23	Vanadium	(mg/L)	Monthly during discharge	1	16/09/2023	0.16	0.16	0.16				
Sep-23	Zinc	(mg/L)	Monthly during discharge	1	16/09/2023	0.002	0.002	0.002				

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
Sep-23	Aluminium	(mg/L)	Monthly during discharge	1	5/09/2023	0.09	0.09	0.09	Yes			
Sep-23	Ammonia	(mg/L)	Monthly during discharge	1	5/09/2023	1.50	1.50	1.50	Yes			
Sep-23	Arsenic (III)	(mg/L)	Monthly during discharge	1	5/09/2023	<0.001	<0.001	<0.001	Yes			
Sep-23	Arsenic (V)	(mg/L)	Monthly during discharge	1	5/09/2023	<0.001	<0.001	<0.001	Yes			
Sep-23	Cadmium	(mg/L)	Monthly during discharge	1	5/09/2023	0.0002	0.0002	0.0002	Yes			
Sep-23	Chromium (trivalent)	(mg/L)	Monthly during discharge	1	5/09/2023	<0.005	<0.005	<0.005	Yes			
Sep-23	Chromium (VI) Compounds	(mg/L)	Monthly during discharge	1	5/09/2023	<0.005	<0.005	<0.005	Yes			
Sep-23	Copper	(mg/L)	Monthly during discharge	1	5/09/2023	<0.001	<0.001	<0.001	Yes			
Sep-23	Iron	(mg/L)	Monthly during discharge	1	5/09/2023	0.59	0.59	0.59	Yes			
Sep-23	Lead	(mg/L)	Monthly during discharge	1	5/09/2023	<0.001	<0.001	<0.001	Yes			
Sep-23	Manganese	(mg/L)	Monthly during discharge	1	5/09/2023	0.13	0.13	0.13	Yes			
Sep-23	Nickel	(mg/L)	Monthly during discharge	1	5/09/2023	0.0010	0.0010	0.0010	Yes			
Sep-23	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Monthly during discharge	1	5/09/2023	0.30	0.30	0.30	Yes			
Sep-23	Nitrogen	(mg/L)	Monthly during discharge	1	5/09/2023	1.70	1.70	1.70	Yes			
Sep-23	pH	pH	Monthly during discharge	1	5/09/2023	6.5	6.5	6.5	Yes	6.5 - 9.5	No	
Sep-23	Phosphorus	(mg/L)	Monthly during discharge	1	5/09/2023	<0.1	<0.1	<0.1	Yes			
Sep-23	Reactive Phosphorus	(mg/L)	Monthly during discharge	1	5/09/2023	<0.005	<0.005	<0.005	Yes			
Sep-23	Selenium	(mg/L)	Monthly during discharge	1	5/09/2023	0.001	0.001	0.001	Yes			
Sep-23	Total Kjeldahl Nitrogen	(mg/L)	Monthly during discharge	1	5/09/2023	1.50	1.50	1.50	Yes			
Sep-23	Total Suspended Solids	(mg/L)	Monthly during discharge	1	5/09/2023	7	7	7	Yes	50	No	
Sep-23	Vanadium	(mg/L)	Monthly during discharge	1	5/09/2023	0.01	0.01	0.01	Yes			
Sep-23	Zinc	(mg/L)	Monthly during discharge	1	5/09/2023	0.011	0.011	0.011	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
Sep-23	Aluminium	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-23	Ammonia	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-23	Arsenic (III)	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-23	Arsenic (V)	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-23	Cadmium	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-23	Chromium (trivalent)	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-23	Chromium (VI) Compounds	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-23	Copper	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-23	Iron	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-23	Lead	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-23	Manganese	(mg/L)	Daily for any discharge >2 hrs						No			No discharge from EPA Point 25 during September 2023
Sep-23	Nickel	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-23	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-23	Nitrogen	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-23	pH	pH	Daily for any discharge >2 hrs						No	6.5 - 9.5	No	
Sep-23	Phosphorus	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-23	Reactive Phosphorus	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-23	Selenium	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-23	Total Kjeldahl Nitrogen	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-23	Total Suspended Solids	(mg/L)	Daily for any discharge >2 hrs						No	50	No	
Sep-23	Vanadium	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-23	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
Sep-23	Aluminium	(mg/L)	Quarterly									
Sep-23	Ammonia	(mg/L)	Quarterly									
Sep-23	Arsenic (III)	(mg/L)	Quarterly									
Sep-23	Arsenic (V)	(mg/L)	Quarterly									
Sep-23	Cadmium	(mg/L)	Quarterly									
Sep-23	Chromium (trivalent)	(mg/L)	Quarterly									
Sep-23	Chromium (VI) Compounds	(mg/L)	Quarterly									
Sep-23	Copper	(mg/L)	Quarterly									
Sep-23	Electrical Conductivity	(us/cm)	Quarterly									
Sep-23	Iron	(mg/L)	Quarterly									
Sep-23	Lead	(mg/L)	Quarterly									Next sample scheduled for October 2023
Sep-23	Magnesium	(mg/L)	Quarterly									
Sep-23	Manganese	(mg/L)	Quarterly									
Sep-23	Nickel	(mg/L)	Quarterly									
Sep-23	pH	pH	Quarterly									
Sep-23	Potassium	(mg/L)	Quarterly									
Sep-23	Selenium	(mg/L)	Quarterly									
Sep-23	Sodium	(mg/L)	Quarterly									
Sep-23	Standing Water Level	(m)	Quarterly									
Sep-23	Vanadium	(mg/L)	Quarterly									
Sep-23	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
Sep-23	Aluminium	(mg/L)	Quarterly									
Sep-23	Ammonia	(mg/L)	Quarterly									
Sep-23	Arsenic (III)	(mg/L)	Quarterly									
Sep-23	Arsenic (V)	(mg/L)	Quarterly									
Sep-23	Cadmium	(mg/L)	Quarterly									
Sep-23	Chromium (trivalent)	(mg/L)	Quarterly									
Sep-23	Chromium (VI) Compounds	(mg/L)	Quarterly									
Sep-23	Copper	(mg/L)	Quarterly									
Sep-23	Electrical Conductivity	(us/cm)	Quarterly									
Sep-23	Iron	(mg/L)	Quarterly									
Sep-23	Lead	(mg/L)	Quarterly									Next sample scheduled for October 2023
Sep-23	Magnesium	(mg/L)	Quarterly									
Sep-23	Manganese	(mg/L)	Quarterly									
Sep-23	Nickel	(mg/L)	Quarterly									
Sep-23	pH	pH	Quarterly									
Sep-23	Potassium	(mg/L)	Quarterly									
Sep-23	Selenium	(mg/L)	Quarterly									
Sep-23	Sodium	(mg/L)	Quarterly									
Sep-23	Standing Water Level	(m)	Quarterly									
Sep-23	Vanadium	(mg/L)	Quarterly									
Sep-23	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
Sep-23	Aluminium	(mg/L)	Quarterly									
Sep-23	Ammonia	(mg/L)	Quarterly									
Sep-23	Arsenic (III)	(mg/L)	Quarterly									
Sep-23	Arsenic (V)	(mg/L)	Quarterly									
Sep-23	Cadmium	(mg/L)	Quarterly									
Sep-23	Chromium (trivalent)	(mg/L)	Quarterly									
Sep-23	Chromium (VI) Compounds	(mg/L)	Quarterly									
Sep-23	Copper	(mg/L)	Quarterly									
Sep-23	Electrical Conductivity	(us/cm)	Quarterly									
Sep-23	Iron	(mg/L)	Quarterly									
Sep-23	Lead	(mg/L)	Quarterly									
Sep-23	Magnesium	(mg/L)	Quarterly									
Sep-23	Manganese	(mg/L)	Quarterly									
Sep-23	Nickel	(mg/L)	Quarterly									
Sep-23	pH	pH	Quarterly									
Sep-23	Potassium	(mg/L)	Quarterly									
Sep-23	Selenium	(mg/L)	Quarterly									
Sep-23	Sodium	(mg/L)	Quarterly									
Sep-23	Standing Water Level	(m)	Quarterly									
Sep-23	Vanadium	(mg/L)	Quarterly									
Sep-23	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
Sep-23	Aluminium	(mg/L)	Quarterly									
Sep-23	Ammonia	(mg/L)	Quarterly									
Sep-23	Arsenic (III)	(mg/L)	Quarterly									
Sep-23	Arsenic (V)	(mg/L)	Quarterly									
Sep-23	Cadmium	(mg/L)	Quarterly									
Sep-23	Chromium (trivalent)	(mg/L)	Quarterly									
Sep-23	Chromium (VI) Compounds	(mg/L)	Quarterly									
Sep-23	Copper	(mg/L)	Quarterly									
Sep-23	Electrical Conductivity	(us/cm)	Quarterly									
Sep-23	Iron	(mg/L)	Quarterly									
Sep-23	Lead	(mg/L)	Quarterly									
Sep-23	Magnesium	(mg/L)	Quarterly									
Sep-23	Manganese	(mg/L)	Quarterly									
Sep-23	Nickel	(mg/L)	Quarterly									
Sep-23	pH	pH	Quarterly									
Sep-23	Potassium	(mg/L)	Quarterly									
Sep-23	Selenium	(mg/L)	Quarterly									
Sep-23	Sodium	(mg/L)	Quarterly									
Sep-23	Standing Water Level	(m)	Quarterly									
Sep-23	Vanadium	(mg/L)	Quarterly									
Sep-23	Zinc	(mg/L)	Quarterly									

Next sample scheduled for October 2023

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
Sep-23	Aluminium	(mg/L)	Quarterly									
Sep-23	Ammonia	(mg/L)	Quarterly									
Sep-23	Arsenic (III)	(mg/L)	Quarterly									
Sep-23	Arsenic (V)	(mg/L)	Quarterly									
Sep-23	Cadmium	(mg/L)	Quarterly									
Sep-23	Chromium (trivalent)	(mg/L)	Quarterly									
Sep-23	Chromium (VI) Compounds	(mg/L)	Quarterly									
Sep-23	Copper	(mg/L)	Quarterly									
Sep-23	Electrical Conductivity	(us/cm)	Quarterly									
Sep-23	Iron	(mg/L)	Quarterly									
Sep-23	Lead	(mg/L)	Quarterly									
Sep-23	Magnesium	(mg/L)	Quarterly									Next sample scheduled for October 2023
Sep-23	Manganese	(mg/L)	Quarterly									
Sep-23	Nickel	(mg/L)	Quarterly									
Sep-23	pH	pH	Quarterly									
Sep-23	Potassium	(mg/L)	Quarterly									
Sep-23	Selenium	(mg/L)	Quarterly									
Sep-23	Sodium	(mg/L)	Quarterly									
Sep-23	Standing Water Level	(m)	Quarterly									
Sep-23	Vanadium	(mg/L)	Quarterly									
Sep-23	Zinc	(mg/L)	Quarterly									

GENERAL COMMENTS