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	February 2021	
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	Exceedance (yes/no)	Comments
Feb-21	Cadmium	(mg/m3)	Every 6 months							0.2	No	
Feb-21	Chlorine	(mg/m3)	Every 6 months							20		
Feb-21	Fluorine	(mg/m3)	Every 6 months							30		
Feb-21	Hydrogen chloride	(mg/m3)	Every 6 months							50		
Feb-21	Mercury	(mg/m3)	Every 6 months							0.05	No	
Feb-21	Nitrogen Oxides	(mg/m3)	Continuous	100%	Feb-21	376	513	651	1100	1500	No	
Feb-21	Solid Particles	(mg/m3)	Quarterly							50		
Feb-21	Sulfur dioxide	(mg/m3)	Continuous	100%	Feb-21	452	605	756	1400	1700	No	
Feb-21	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months							100		
Feb-21	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months							0.75		
Feb-21	VOC's as n-propane equivalent	(mg/m3)	Every 6 months							10		

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	Exceedance (yes/no)	Comments
Feb-21	Cadmium	(mg/m3)	Every 6 months							0.2		
Feb-21	Chlorine	(mg/m3)	Every 6 months							20		
Feb-21	Fluorine	(mg/m3)	Every 6 months							30		
Feb-21	Hydrogen chloride	(mg/m3)	Every 6 months							50		
Feb-21	Mercury	(mg/m3)	Every 6 months							0.05		
Feb-21	Nitrogen Oxides	(mg/m3)	Continuous	100%	Feb-21	489	693	919	1100	1500	No	
Feb-21	Solid Particles	(mg/m3)	Quarterly							50		
Feb-21	Sulfur dioxide	(mg/m3)	Continuous	100%	Feb-21	443	621	798	1400	1700	No	
Feb-21	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months							100		
Feb-21	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months							0.75		
Feb-21	VOC's as n-propane equivalent	(mg/m3)	Every 6 months							10		

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
Feb-21	Cadmium	(mg/m3)	Every 6 months									
Feb-21	Carbon dioxide	(%)	Every 6 months									
Feb-21	Chlorine	(mg/m3)	Every 6 months									
Feb-21	Flow rate	(m3/s)	Continuous									Not required until 31 October 2021
Feb-21	Fluorine	(mg/m3)	Every 6 months									
Feb-21	Hydrogen chloride	(mg/m3)	Every 6 months									
Feb-21	Mercury	(mg/m3)	Every 6 months									
Feb-21	Moisture	(%)	Continuous									Not required until 31 October 2021
Feb-21	Oxygen (O2)	(%)	Continuous									Not required until 31 October 2021
Feb-21	Solid Particles	(mg/m3)	Quarterly									
Feb-21	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months									
Feb-21	Temperature	(°C)	Continuous									Not required until 31 October 2021
Feb-21	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months									
Feb-21	VOC's as n-propane equivalent	(mg/m3)	Every 6 months									

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
Feb-21	Cadmium	(mg/m3)	Every 6 months									
Feb-21	Flow rate	(m3/s)	Continuous									Not required until 31 October 2021
Feb-21	Mercury	(mg/m3)	Every 6 months									
Feb-21	Moisture	(%)	Continuous									Not required until 31 October 2021
Feb-21	Oxygen (O2)	(%)	Continuous									Not required until 31 October 2021
Feb-21	Solid Particles	(mg/m3)	Quarterly									
Feb-21	Temperature	(°C)	Continuous									Not required until 31 October 2021
Feb-21	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months									

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
Feb-21	Cadmium	(mg/m3)	Every 6 months									
Feb-21	Carbon dioxide	(%)	Every 6 months									
Feb-21	Chlorine	(mg/m3)	Every 6 months									
Feb-21	Flow rate	(m3/s)	Continuous									Not required until 31 October 2021
Feb-21	Fluorine	(mg/m3)	Every 6 months									
Feb-21	Hydrogen chloride	(mg/m3)	Every 6 months									
Feb-21	Mercury	(mg/m3)	Every 6 months									
Feb-21	Moisture	(%)	Continuous									Not required until 31 October 2021
Feb-21	Oxygen (O2)	(%)	Continuous									Not required until 31 October 2021
Feb-21	Solid Particles	(mg/m3)	Quarterly									
Feb-21	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months									
Feb-21	Temperature	(°C)	Continuous									Not required until 31 October 2021
Feb-21	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months									
Feb-21	VOC's as n-propane equivalent	(mg/m3)	Every 6 months									

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
Feb-21	Cadmium	(mg/m3)	Every 6 months									
Feb-21	Flow rate	(m3/s)	Continuous									Not required until 31 October 2021
Feb-21	Mercury	(mg/m3)	Every 6 months									
Feb-21	Moisture	(%)	Continuous									Not required until 31 October 2021
Feb-21	Oxygen (O2)	(%)	Continuous									Not required until 31 October 2021
Feb-21	Solid Particles	(mg/m3)	Quarterly									
Feb-21	Temperature	(°C)	Continuous									Not required until 31 October 2021
Feb-21	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months									

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
Feb-21	Cadmium	(mg/m3)	Every 6 months									
Feb-21	Carbon dioxide	(%)	Every 6 months									
Feb-21	Chlorine	(mg/m3)	Every 6 months									
Feb-21	Flow rate	(m3/s)	Continuous									Not required until 31 October 2021
Feb-21	Fluorine	(mg/m3)	Every 6 months									
Feb-21	Hydrogen chloride	(mg/m3)	Every 6 months									
Feb-21	Mercury	(mg/m3)	Every 6 months									
Feb-21	Moisture	(%)	Continuous									Not required until 31 October 2021
Feb-21	Oxygen (O2)	(%)	Continuous									Not required until 31 October 2021
Feb-21	Solid Particles	(mg/m3)	Quarterly									
Feb-21	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months									
Feb-21	Temperature	(°C)	Continuous									Not required until 31 October 2021
Feb-21	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months									
Feb-21	VOC's as n-propane equivalent	(mg/m3)	Every 6 months									

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
Feb-21	Cadmium	(mg/m3)	Every 6 months									
Feb-21	Flow rate	(m3/s)	Continuous									Not required until 31 October 2021
Feb-21	Mercury	(mg/m3)	Every 6 months									
Feb-21	Moisture	(%)	Continuous									Not required until 31 October 2021
Feb-21	Oxygen (O2)	(%)	Continuous									Not required until 31 October 2021
Feb-21	Solid Particles	(mg/m3)	Quarterly									
Feb-21	Temperature	(°C)	Continuous									Not required until 31 October 2021
Feb-21	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months									

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
Feb-21	Cadmium	(mg/m3)	Every 6 months									
Feb-21	Carbon dioxide	(%)	Every 6 months									
Feb-21	Chlorine	(mg/m3)	Every 6 months									
Feb-21	Flow rate	(m3/s)	Continuous									Not required until 31 October 2021
Feb-21	Fluorine	(mg/m3)	Every 6 months									
Feb-21	Hydrogen chloride	(mg/m3)	Every 6 months									
Feb-21	Mercury	(mg/m3)	Every 6 months									
Feb-21	Moisture	(%)	Continuous									Not required until 31 October 2021
Feb-21	Oxygen (O2)	(%)	Continuous									Not required until 31 October 2021
Feb-21	Solid Particles	(mg/m3)	Quarterly									
Feb-21	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months									
Feb-21	Temperature	(°C)	Continuous									Not required until 31 October 2021
Feb-21	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months									
Feb-21	VOC's as n-propane equivalent	(mg/m3)	Every 6 months									

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
Feb-21	Cadmium	(mg/m3)	Every 6 months									
Feb-21	Flow rate	(m3/s)	Continuous									Not required until 31 October 2021
Feb-21	Mercury	(mg/m3)	Every 6 months									
Feb-21	Moisture	(%)	Continuous									Not required until 31 October 2021
Feb-21	Oxygen (O2)	(%)	Continuous									Not required until 31 October 2021
Feb-21	Solid Particles	(mg/m3)	Quarterly									
Feb-21	Temperature	(°C)	Continuous									Not required until 31 October 2021
Feb-21	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months									

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
Feb-21	Nitrogen Oxides	(mg/m3)	Continuous	100%	Feb-21	271	426	577			No	
Feb-21	Sulfur dioxide	(mg/m3)	Continuous	100%	Feb-21	325	510	676			No	

POINT 13 **Boiler number 5 combined exhaust - duct C and D (points 6 and 7) marked and shownas 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
Feb-21	Nitrogen Oxides	(mg/m3)	Continuous	100%	Feb-21	426	595	787			No	
Feb-21	Sulfur dioxide	(mg/m3)	Continuous	100%	Feb-21	569	696	756			No	

POINT 14 **Boiler number 6 combined exhaust - duct A and B (points 8 and 9) marked and shownas 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
Feb-21	Nitrogen Oxides	(mg/m3)	Continuous	100%	Feb-21	449	664	921			No	
Feb-21	Sulfur dioxide	(mg/m3)	Continuous	100%	Feb-21	475	672	884			No	

POINT 15 Boiler number 6 combined exhaust - duct C and D (points 10 and 11) marked and shownas 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
Feb-21	Nitrogen Oxides	(mg/m3)	Continuous	100%	Feb-21	546	726	923			No	
Feb-21	Sulfur dioxide	(mg/m3)	Continuous	100%	Feb-21	398	567	717			No	

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	97 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
Feb-21	Chlorine (free residual)	(mg/L)	Monthly during discharge	1	9/2/2021	0.02	0.02	0.02		**0.2**	No	
Feb-21	Copper	(mg/L)	Monthly during discharge	1	9/2/2021	0.003	0.003	0.003		**0.005**	No	
Feb-21	Iron	(mg/L)	Monthly during discharge	1	9/2/2021	0.126	0.126	0.126		**0.3**	No	
Feb-21	Oil and Grease	Visible	Continuous during discharge	100%	Feb-21	NIL	NIL	NIL				
Feb-21	Selenium	(mg/L)	Monthly during discharge	1	9/2/2021	<0.002	<0.002	<0.002		**0.005**	No	
Feb-21	Temperature	(°C)	Continuous during discharge	100%	Feb-21	27.2	30.7	33.8	**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
Feb-21	Aluminium	(mg/L)	Monthly during discharge	1	9/2/2021	0.038	0.038	0.038				
Feb-21	Ammonia	(mg/L)	Monthly during discharge	1	9/2/2021	<0.01	<0.01	<0.01				
Feb-21	Arsenic (III)	(mg/L)	Monthly during discharge	1	9/2/2021	<0.005	<0.005	<0.005				
Feb-21	Arsenic (V)	(mg/L)	Monthly during discharge	1	9/2/2021	<0.005	<0.005	<0.005				
Feb-21	Cadmium	(mg/L)	Monthly during discharge	1	9/2/2021	<0.0002	<0.0002	<0.0002				
Feb-21	Chromium (trivalent)	(mg/L)	Monthly during discharge	1	9/2/2021	0.006	0.006	0.006				
Feb-21	Chromium (VI) Compounds	(mg/L)	Monthly during discharge	1	9/2/2021	<0.005	<0.005	<0.005				
Feb-21	Copper	(mg/L)	Monthly during discharge	1	9/2/2021	<0.001	<0.001	<0.001				
Feb-21	Iron	(mg/L)	Monthly during discharge	1	9/2/2021	0.077	0.077	0.077				
Feb-21	Lead	(mg/L)	Monthly during discharge	1	9/2/2021	<0.0002	<0.0002	<0.0002				
Feb-21	Manganese	(mg/L)	Monthly during discharge	1	9/2/2021	0.0160	0.0160	0.0160				
Feb-21	Nickel	(mg/L)	Monthly during discharge	1	9/2/2021	0.001	0.001	0.001				
Feb-21	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Monthly during discharge	1	9/2/2021	0.13	0.13	0.13				
Feb-21	Nitrogen	(mg/L)	Monthly during discharge	1	9/2/2021	<0.5	<0.5	<0.5				
Feb-21	pH	pH	Monthly during discharge	1	9/2/2021	8.63	8.63	8.63		**6.5 - 9.5**	No	
Feb-21	Phosphorus	(mg/L)	Monthly during discharge	1	9/2/2021	<0.05	<0.05	<0.05				
Feb-21	Reactive Phosphorus	(mg/L)	Monthly during discharge	1	9/2/2021	0.02	0.02	0.02				
Feb-21	Selenium	(mg/L)	Monthly during discharge	1	9/2/2021	0.052	0.052	0.052				
Feb-21	Total Kjeldahl Nitrogen	(mg/L)	Monthly during discharge	1	9/2/2021	<0.5	<0.5	<0.5				
Feb-21	Total Suspended Solids	(mg/L)	Monthly during discharge	1	9/2/2021	5	5	5		**50**	No	
Feb-21	Vanadium	(mg/L)	Monthly during discharge	1	9/2/2021	0.0317	0.0317	0.0317				
Feb-21	Zinc	(mg/L)	Monthly during discharge	1	9/2/2021	<0.005	<0.005	<0.005				

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
Feb-21	Aluminium	(mg/L)	Monthly during discharge	1	9/2/2021	0.08	0.08	0.08	Yes			
Feb-21	Ammonia	(mg/L)	Monthly during discharge	1	9/2/2021	1.59	1.59	1.59	Yes			
Feb-21	Arsenic (III)	(mg/L)	Monthly during discharge	1	9/2/2021	<0.005	<0.005	<0.005	Yes			
Feb-21	Arsenic (V)	(mg/L)	Monthly during discharge	1	9/2/2021	<0.005	<0.005	<0.005	Yes			
Feb-21	Cadmium	(mg/L)	Monthly during discharge	1	9/2/2021	0.0004	0.0004	0.0004	Yes			
Feb-21	Chromium (trivalent)	(mg/L)	Monthly during discharge	1	9/2/2021	<0.001	<0.001	<0.001	Yes			
Feb-21	Chromium (VI) Compounds	(mg/L)	Monthly during discharge	1	9/2/2021	<0.001	<0.001	<0.001	Yes			
Feb-21	Copper	(mg/L)	Monthly during discharge	1	9/2/2021	0.003	0.003	0.003	Yes			
Feb-21	Iron	(mg/L)	Monthly during discharge	1	9/2/2021	0.682	0.682	0.682	Yes			
Feb-21	Lead	(mg/L)	Monthly during discharge	1	9/2/2021	<0.0002	<0.0002	<0.0002	Yes			
Feb-21	Manganese	(mg/L)	Monthly during discharge	1	9/2/2021	0.0983	0.0983	0.0983	Yes			Some flow from seepage pit during 25/2/2021
Feb-21	Nickel	(mg/L)	Monthly during discharge	1	9/2/2021	0.0016	0.0016	0.0016	Yes			
Feb-21	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Monthly during discharge	1	9/2/2021	0.22	0.22	0.22	Yes			
Feb-21	Nitrogen	(mg/L)	Monthly during discharge	1	9/2/2021	1.80	1.80	1.80	Yes			
Feb-21	pH	pH	Monthly during discharge	1	9/2/2021	7.81	7.81	7.81	Yes	6.5 - 9.5		
Feb-21	Phosphorus	(mg/L)	Monthly during discharge	1	9/2/2021	<0.05	<0.05	<0.05	Yes			
Feb-21	Reactive Phosphorus	(mg/L)	Monthly during discharge	1	9/2/2021	<0.01	<0.01	<0.01	Yes			
Feb-21	Selenium	(mg/L)	Monthly during discharge	1	9/2/2021	0.002	0.002	0.002	Yes			
Feb-21	Total Kjeldahl Nitrogen	(mg/L)	Monthly during discharge	1	9/2/2021	1.60	1.60	1.60	Yes			
Feb-21	Total Suspended Solids	(mg/L)	Monthly during discharge	1	9/2/2021	5	5	5	Yes	50		
Feb-21	Vanadium	(mg/L)	Monthly during discharge	1	9/2/2021	0.008	0.008	0.008	Yes			
Feb-21	Zinc	(mg/L)	Monthly during discharge	1	9/2/2021	0.018	0.018	0.018	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
Feb-21	Aluminium	(mg/L)	Daily for any discharge >2 hrs						No			
Feb-21	Ammonia	(mg/L)	Daily for any discharge >2 hrs						No			
Feb-21	Arsenic (III)	(mg/L)	Daily for any discharge >2 hrs						No			
Feb-21	Arsenic (V)	(mg/L)	Daily for any discharge >2 hrs						No			
Feb-21	Cadmium	(mg/L)	Daily for any discharge >2 hrs						No			
Feb-21	Chromium (trivalent)	(mg/L)	Daily for any discharge >2 hrs						No			
Feb-21	Chromium (VI) Compounds	(mg/L)	Daily for any discharge >2 hrs						No			
Feb-21	Copper	(mg/L)	Daily for any discharge >2 hrs						No			
Feb-21	Iron	(mg/L)	Daily for any discharge >2 hrs						No			
Feb-21	Lead	(mg/L)	Daily for any discharge >2 hrs						No			No discharge from EPA Point 25 during February 2021
Feb-21	Manganese	(mg/L)	Daily for any discharge >2 hrs						No			
Feb-21	Nickel	(mg/L)	Daily for any discharge >2 hrs						No			
Feb-21	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Daily for any discharge >2 hrs						No			
Feb-21	Nitrogen	(mg/L)	Daily for any discharge >2 hrs						No			
Feb-21	pH	pH	Daily for any discharge >2 hrs						No	6.5 - 9.5	No	
Feb-21	Phosphorus	(mg/L)	Daily for any discharge >2 hrs						No			
Feb-21	Reactive Phosphorus	(mg/L)	Daily for any discharge >2 hrs						No			
Feb-21	Selenium	(mg/L)	Daily for any discharge >2 hrs						No			
Feb-21	Total Kjeldahl Nitrogen	(mg/L)	Daily for any discharge >2 hrs						No			
Feb-21	Total Suspended Solids	(mg/L)	Daily for any discharge >2 hrs						No	50	No	
Feb-21	Vanadium	(mg/L)	Daily for any discharge >2 hrs						No			
Feb-21	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
Feb-21	Aluminium	(mg/L)	Quarterly									
Feb-21	Ammonia	(mg/L)	Quarterly									
Feb-21	Arsenic (III)	(mg/L)	Quarterly									
Feb-21	Arsenic (V)	(mg/L)	Quarterly									
Feb-21	Cadmium	(mg/L)	Quarterly									
Feb-21	Chromium (trivalent)	(mg/L)	Quarterly									
Feb-21	Chromium (VI) Compounds	(mg/L)	Quarterly									
Feb-21	Copper	(mg/L)	Quarterly									
Feb-21	Electrical Conductivity	(us/cm)	Quarterly									
Feb-21	Iron	(mg/L)	Quarterly									Next sample due April 2021
Feb-21	Lead	(mg/L)	Quarterly									
Feb-21	Magnesium	(mg/L)	Quarterly									
Feb-21	Manganese	(mg/L)	Quarterly									
Feb-21	Nickel	(mg/L)	Quarterly									
Feb-21	pH	pH	Quarterly									
Feb-21	Potassium	(mg/L)	Quarterly									
Feb-21	Selenium	(mg/L)	Quarterly									
Feb-21	Sodium	(mg/L)	Quarterly									
Feb-21	Standing Water Level	(m)	Quarterly									
Feb-21	Vanadium	(mg/L)	Quarterly									
Feb-21	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
Feb-21	Aluminium	(mg/L)	Quarterly									
Feb-21	Ammonia	(mg/L)	Quarterly									
Feb-21	Arsenic (III)	(mg/L)	Quarterly									
Feb-21	Arsenic (V)	(mg/L)	Quarterly									
Feb-21	Cadmium	(mg/L)	Quarterly									
Feb-21	Chromium (trivalent)	(mg/L)	Quarterly									
Feb-21	Chromium (VI) Compounds	(mg/L)	Quarterly									
Feb-21	Copper	(mg/L)	Quarterly									
Feb-21	Electrical Conductivity	(us/cm)	Quarterly									
Feb-21	Iron	(mg/L)	Quarterly									Next sample due April 2021
Feb-21	Lead	(mg/L)	Quarterly									
Feb-21	Magnesium	(mg/L)	Quarterly									
Feb-21	Manganese	(mg/L)	Quarterly									
Feb-21	Nickel	(mg/L)	Quarterly									
Feb-21	pH	pH	Quarterly									
Feb-21	Potassium	(mg/L)	Quarterly									
Feb-21	Selenium	(mg/L)	Quarterly									
Feb-21	Sodium	(mg/L)	Quarterly									
Feb-21	Standing Water Level	(m)	Quarterly									
Feb-21	Vanadium	(mg/L)	Quarterly									
Feb-21	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
Feb-21	Aluminium	(mg/L)	Quarterly									
Feb-21	Ammonia	(mg/L)	Quarterly									
Feb-21	Arsenic (III)	(mg/L)	Quarterly									
Feb-21	Arsenic (V)	(mg/L)	Quarterly									
Feb-21	Cadmium	(mg/L)	Quarterly									
Feb-21	Chromium (trivalent)	(mg/L)	Quarterly									
Feb-21	Chromium (VI) Compounds	(mg/L)	Quarterly									
Feb-21	Copper	(mg/L)	Quarterly									
Feb-21	Electrical Conductivity	(us/cm)	Quarterly									
Feb-21	Iron	(mg/L)	Quarterly									Next sample due April 2021
Feb-21	Lead	(mg/L)	Quarterly									
Feb-21	Magnesium	(mg/L)	Quarterly									
Feb-21	Manganese	(mg/L)	Quarterly									
Feb-21	Nickel	(mg/L)	Quarterly									
Feb-21	pH	pH	Quarterly									
Feb-21	Potassium	(mg/L)	Quarterly									
Feb-21	Selenium	(mg/L)	Quarterly									
Feb-21	Sodium	(mg/L)	Quarterly									
Feb-21	Standing Water Level	(m)	Quarterly									
Feb-21	Vanadium	(mg/L)	Quarterly									
Feb-21	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
Feb-21	Aluminium	(mg/L)	Quarterly									
Feb-21	Ammonia	(mg/L)	Quarterly									
Feb-21	Arsenic (III)	(mg/L)	Quarterly									
Feb-21	Arsenic (V)	(mg/L)	Quarterly									
Feb-21	Cadmium	(mg/L)	Quarterly									
Feb-21	Chromium (trivalent)	(mg/L)	Quarterly									
Feb-21	Chromium (VI) Compounds	(mg/L)	Quarterly									
Feb-21	Copper	(mg/L)	Quarterly									
Feb-21	Electrical Conductivity	(us/cm)	Quarterly									
Feb-21	Iron	(mg/L)	Quarterly									Next sample due April 2021
Feb-21	Lead	(mg/L)	Quarterly									
Feb-21	Magnesium	(mg/L)	Quarterly									
Feb-21	Manganese	(mg/L)	Quarterly									
Feb-21	Nickel	(mg/L)	Quarterly									
Feb-21	pH	pH	Quarterly									
Feb-21	Potassium	(mg/L)	Quarterly									
Feb-21	Selenium	(mg/L)	Quarterly									
Feb-21	Sodium	(mg/L)	Quarterly									
Feb-21	Standing Water Level	(m)	Quarterly									
Feb-21	Vanadium	(mg/L)	Quarterly									
Feb-21	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/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
Feb-21	Aluminium	(mg/L)	Quarterly									
Feb-21	Ammonia	(mg/L)	Quarterly									
Feb-21	Arsenic (III)	(mg/L)	Quarterly									
Feb-21	Arsenic (V)	(mg/L)	Quarterly									
Feb-21	Cadmium	(mg/L)	Quarterly									
Feb-21	Chromium (trivalent)	(mg/L)	Quarterly									
Feb-21	Chromium (VI) Compounds	(mg/L)	Quarterly									
Feb-21	Copper	(mg/L)	Quarterly									
Feb-21	Electrical Conductivity	(us/cm)	Quarterly									
Feb-21	Iron	(mg/L)	Quarterly									Next sample due April 2021
Feb-21	Lead	(mg/L)	Quarterly									
Feb-21	Magnesium	(mg/L)	Quarterly									
Feb-21	Manganese	(mg/L)	Quarterly									
Feb-21	Nickel	(mg/L)	Quarterly									
Feb-21	pH	pH	Quarterly									
Feb-21	Potassium	(mg/L)	Quarterly									
Feb-21	Selenium	(mg/L)	Quarterly									
Feb-21	Sodium	(mg/L)	Quarterly									
Feb-21	Standing Water Level	(m)	Quarterly									
Feb-21	Vanadium	(mg/L)	Quarterly									
Feb-21	Zinc	(mg/L)	Quarterly									

GENERAL COMMENTS