# 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	July 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). 99 Percentile 100 Percentile Samples Collected 8 Concentration Lowest Sampl Mean of Highest Sampl oncentration Exceedance Unit of Measure (yes/no) Month Pollutant Sample/Measurement Frequ Analysed **Date Sampled** Value Samples Value Limit Limit Comments 0.2 Jul-21 Cadmium (mg/m3) Every 6 months Jul-21 Chlorine (mg/m3) Every 6 months 20 Jul-21 Fluorine (mg/m3) Every 6 months 30 Jul-21 Hydrogen chloride 50 (mg/m3) Every 6 months Jul-21 Mercury (mg/m3) Every 6 months 0.05 92.8% 456 617 732 1100 1500 Jul-21 Jul-21 Nitrogen Oxides (mg/m3) Continuous No Jul-21 Solid Particles (mg/m3) Quarterly May 2021 2.9 2.9 2.9 50 No Jul-21 Sulfur dioxide (mg/m3) Continuous 92.8% Jul-21 586 728 941 1400 1700 No Jul-21 Sulfuric acid mist and sulfur trioxide (as SO3) (mg/m3) Every 6 months 100 Type 1 and Type 2 substances in aggregate Every 6 months 0.75 Jul-21 (mg/m3) Jul-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).													
				Samples Collected &		Lowest Sample	Mean of	Highest Sample		100 Percentile Concentration				
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments		
Jul-21	Cadmium	(mg/m3)	Every 6 months							0.2				
Jul-21	Chlorine	(mg/m3)	Every 6 months							20				
Jul-21	Fluorine	(mg/m3)	Every 6 months							30				
Jul-21	Hydrogen chloride	(mg/m3)	Every 6 months							50				
Jul-21	Mercury	(mg/m3)	Every 6 months							0.05				
Jul-21	Nitrogen Oxides	(mg/m3)	Continuous	99.0%	Jul-21	158	509	741	1100	1500	No			
Jul-21	Solid Particles	(mg/m3)	Quarterly							50				
Jul-21	Sulfur dioxide	(mg/m3)	Continuous	99.0%	Jul-21	334	666	945	1400	1700	No			
Jul-21	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months							100				
Jul-21	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months							0.75				
Jul-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).

				Samples						100 Percentile		
				Collected &		Lowest Sample	Mean of	Highest Sample				
Month	Pollutant		Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments
Jul-21	Cadmium	(mg/m3)	Every 6 months									
Jul-21	Carbon dioxide	(%)	Every 6 months									
Jul-21	Chlorine	(mg/m3)	Every 6 months									
Jul-21	Flow rate	(m3/s)	Continuous									Not required until 31 October 2021
Jul-21	Fluorine	(mg/m3)	Every 6 months									
Jul-21	Hydrogen chloride	(mg/m3)	Every 6 months									
Jul-21	Mercury	(mg/m3)	Every 6 months									
Jul-21	Moisture	(%)	Continuous									Not required until 31 October 2021
Jul-21	Oxygen (O2)	(%)	Continuous									Not required until 31 October 2021
Jul-21	Solid Particles	(mg/m3)	Quarterly	1	25/5/2021	2.4	2.4	2.4				
Jul-21	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months									
Jul-21	Temperature	(°C)	Continuous									Not required until 31 October 2021
Jul-21	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months									
Jul-21	VOC's as n-propane equivalent	(mg/m3)	Every 6 months									

POINT 5	Boiler number 5 exhaust - duct B marked and show	n as EPA ID 5 on The F	lans ("VX837351-1 AND "VX837351	-2" 03/06/202	20 EPA REFERENCE	DOC20/476695 AM	ND DOC20/47669	95-1).				
				Samples Collected &		Lowest Sample	Mean of	Highest Sample		100 Percentile Concentration		
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments
Jul-21	Cadmium	(mg/m3)	Every 6 months									
Jul-21	Flow rate	(m3/s)	Continuous									Not required until 31 October 2021
Jul-21	Mercury	(mg/m3)	Every 6 months									
Jul-21	Moisture	(%)	Continuous									Not required until 31 October 2021
Jul-21	Oxygen (O2)	(%)	Continuous									Not required until 31 October 2021
Jul-21	Solid Particles	(mg/m3)	Quarterly	1	24/5/2021	4	4	4				
Jul-21	Temperature	(°C)	Continuous									Not required until 31 October 2021
Jul-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).

				Samples					99 Percentile	100 Percentile		
				Collected &		Lowest Sample	Mean of	Highest Sample	Concentration	Concentration	Exceedance	
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments
Jul-21	Cadmium	(mg/m3)	Every 6 months									
Jul-21	Carbon dioxide	(%)	Every 6 months									
Jul-21	Chlorine	(mg/m3)	Every 6 months									
Jul-21	Flow rate	(m3/s)	Continuous									Not required until 31 October 2021
Jul-21	Fluorine	(mg/m3)	Every 6 months									
Jul-21	Hydrogen chloride	(mg/m3)	Every 6 months									
Jul-21	Mercury	(mg/m3)	Every 6 months									
Jul-21	Moisture	(%)	Continuous									Not required until 31 October 2021
Jul-21	Oxygen (O2)	(%)	Continuous									Not required until 31 October 2021
Jul-21	Solid Particles	(mg/m3)	Quarterly	1	21/5/2021	1.5	1.5	1.5				
Jul-21	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months									
Jul-21	Temperature	(°C)	Continuous									Not required until 31 October 2021
Jul-21	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months									
Jul-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).

				Samples					99 Percentile	100 Percentile		
				Collected &		Lowest Sample	Mean of	Highest Sample	Concentration	Concentration	Exceedance	
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments
Jul-21	Cadmium	(mg/m3)	Every 6 months									
Jul-21	Flow rate	(m3/s)	Continuous									Not required until 31 October 2021
Jul-21	Mercury	(mg/m3)	Every 6 months									
Jul-21	Moisture	(%)	Continuous									Not required until 31 October 2021
Jul-21	Oxygen (O2)	(%)	Continuous									Not required until 31 October 2021
Jul-21	Solid Particles	(mg/m3)	Quarterly	1	20/5/2021	3.9	3.9	3.9				
Jul-21	Temperature	(°C)	Continuous									Not required until 31 October 2021
Jul-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).

PUINT 8	Boller humber 6 exhaust - duct A marked and show	ii as EPA ID 8 On The F	Idiis ( VA05/551-1 AND VA05/551		U EPA REFERENCE	DUC20/4/0095 A	ND DUC20/4/005	,5-1).		-		
				Samples					99 Percentile	100 Percentile		
				Collected &		Lowest Sample	Mean of	<b>Highest Sample</b>	Concentration	Concentration	Exceedance	
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments
Jul-21	Cadmium	(mg/m3)	Every 6 months									
Jul-21	Carbon dioxide	(%)	Every 6 months									
Jul-21	Chlorine	(mg/m3)	Every 6 months									
Jul-21	Flow rate	(m3/s)	Continuous									Not required until 31 October 2021
Jul-21	Fluorine	(mg/m3)	Every 6 months									
Jul-21	Hydrogen chloride	(mg/m3)	Every 6 months									
Jul-21	Mercury	(mg/m3)	Every 6 months									
Jul-21	Moisture	(%)	Continuous									Not required until 31 October 2021
Jul-21	Oxygen (O2)	(%)	Continuous									Not required until 31 October 2021
Jul-21	Solid Particles	(mg/m3)	Quarterly									
Jul-21	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months									
Jul-21	Temperature	(°C)	Continuous									Not required until 31 October 2021
Jul-21	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months									
Jul-21	VOC's as n-propane equivalent	(mg/m3)	Every 6 months									

POINT 9														
				Samples Collected &		Lowest Sample	Mean of	Highest Sample		100 Percentile Concentration				
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments		
Jul-21	Cadmium	(mg/m3)	Every 6 months											
Jul-21	Flow rate	(m3/s)	Continuous									Not required until 31 October 2021		
Jul-21	Mercury	(mg/m3)	Every 6 months											
Jul-21	Moisture	(%)	Continuous									Not required until 31 October 2021		
Jul-21	Oxygen (O2)	(%)	Continuous									Not required until 31 October 2021		
Jul-21	Solid Particles	(mg/m3)	Quarterly											
Jul-21	Temperature	(°C)	Continuous									Not required until 31 October 2021		
Jul-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).

				Samples					99 Percentile	100 Percentile		
				Collected &		Lowest Sample	Mean of	Highest Sample	Concentration	Concentration	Exceedance	
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments
Jul-21	Cadmium	(mg/m3)	Every 6 months									
Jul-21	Carbon dioxide	(%)	Every 6 months									
Jul-21	Chlorine	(mg/m3)	Every 6 months									
Jul-21	Flow rate	(m3/s)	Continuous									Not required until 31 October 2021
Jul-21	Fluorine	(mg/m3)	Every 6 months									
Jul-21	Hydrogen chloride	(mg/m3)	Every 6 months									
Jul-21	Mercury	(mg/m3)	Every 6 months									
Jul-21	Moisture	(%)	Continuous									Not required until 31 October 2021
Jul-21	Oxygen (O2)	(%)	Continuous									Not required until 31 October 2021
Jul-21	Solid Particles	(mg/m3)	Quarterly									
Jul-21	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months									
Jul-21	Temperature	(°C)	Continuous									Not required until 31 October 2021
Jul-21	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months									
Jul-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).

				Samples						100 Percentile		
				Collected &		Lowest Sample	Mean of	Highest Sample	Concentration	Concentration	Exceedance	
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments
Jul-21	Cadmium	(mg/m3)	Every 6 months									
Jul-21	Flow rate	(m3/s)	Continuous									Not required until 31 October 2021
Jul-21	Mercury	(mg/m3)	Every 6 months									
Jul-21	Moisture	(%)	Continuous									Not required until 31 October 2021
Jul-21	Oxygen (O2)	(%)	Continuous									Not required until 31 October 2021
Jul-21	Solid Particles	(mg/m3)	Quarterly									
Jul-21	Temperature	(°C)	Continuous									Not required until 31 October 2021
Jul-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 (po	piler 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).												
				Samples					99 Percentile	100 Percentile				
				Collected &		Lowest Sample	Mean of	Highest Sample	Concentration	Concentration	Exceedance			
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments		
Jul-21	Nitrogen Oxides	(mg/m3)	Continuous	93.5%	Jul-21	375	587	753			No			
Jul-21	Sulfur dioxide	(mg/m3)	Continuous	93.5%	Jul-21	432	696	907			No			

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). POINT 13 100 Percentile Samples 99 Percentile Collected & Lowest Sample Mean of **Highest Sample Concentration** Concentration Exceedance Month Pollutant Unit of Measure e/Measurement Fre Analysed Date Sampled Value Samples Value Limit Limit (yes/no) Comments Jul-21 (mg/m3) Continuous 92.8% Jul-21 445 645 799 No Nitrogen Oxides Jul-21 Sulfur dioxide Continuous 92.8% Jul-21 594 758 982 No (mg/m3)

POINT 14	Boiler number 6 combined exhaust - duct A and 8 (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).													
				Samples					99 Percentile	<b>100</b> Percentile				
				Collected &		Lowest Sample	Mean of	Highest Sample	Concentration	Concentration	Exceedance			
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments		
Jul-21	Nitrogen Oxides	(mg/m3)	Continuous	99.0%	Jul-21	259	513	740			No			
Jul-21	Sulfur dioxide	(mg/m3)	Continuous	99.0%	Jul-21	606	753	1008			No			

POINT 15	Boiler number 6 combined exhaust - duct C and D (po	ler 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).												
				Samples					99 Percentile	100 Percentile				
				Collected &		Lowest Sample	Mean of	<b>Highest Sample</b>	Concentration	Concentration	Exceedance			
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments		
Jul-21	Nitrogen Oxides	(mg/m3)	Continuous	90.9%	Jul-21	353	550	787			No			
Jul-21	Sulfur dioxide	(mg/m3)	Continuous	90.9%	Jul-21	442	629	881			No			

POINT 22	Discharge of cooling water from the cooling water ou	tlet canal to Wyee B	ay marked and shown as EPA ID 22	on The Plans	("VX837351-1 AND	VX837351-2" 03	06/2020 EPA R	EFERENCE DOC20/4	76695 AND DO	220/476695-1).		
				Samples					97 Percentile	100 Percentile		
				Collected &		Lowest Sample	Mean of	Highest Sample	Concentration	Concentration	Exceedance	
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments
Jul-21	Chlorine (free residual)	(mg/L)	Monthly during discharge	1	29/07/2021	<0.1	<0.1	<0.1		0.2	No	
Jul-21	Copper	(mg/L)	Monthly during discharge	1	29/07/2021	0.007	0.007	0.007		0.005	Yes	
Jul-21	Iron	(mg/L)	Monthly during discharge	1	29/07/2021	0.141	0.141	0.141		0.3	No	
Jul-21	Oil and Grease	Visible	Continuous during discharge	100%	Jul-21	NIL	NIL	NIL				
Jul-21	Selenium	(mg/L)	Monthly during discharge	1	29/07/2021	<0.002	<0.002	< 0.002		0.005	No	
Jul-21	Temperature	(°C)	Continuous during discharge	100%	Jul-21	18.3	22.6	25.7	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).

1011125	Discharge of supernatant water from the ash dam to			Samples						100 Percentile		
				Collected &		Lowest Sample	Mean of	Highest Sample				
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency		Date Sampled	Value	Samples	Value	Limit	Limit	(ves/no)	Comments
Jul-21	Aluminium	(mg/L)	Monthly during discharge	1	29/07/2021	0.020	0.020	0.020	Linit	Linit	(yes/110/	connicits
Jul-21	Ammonia	(mg/L)	Monthly during discharge	1	29/07/2021	0.38	0.38	0.38				
Jul-21	Arsenic (III)	(mg/L)	Monthly during discharge	1	29/07/2021	<0.0005	<0.0005	<0.0005				
Jul-21	Arsenic (V)	(mg/L)	Monthly during discharge	1	29/07/2021	0.0045	0.0045	0.0045				
Jul-21	Cadmium	(mg/L)	Monthly during discharge	1	29/07/2021	< 0.00005	< 0.00005	< 0.00005				
Jul-21	Chromium (trivalent)	(mg/L)	Monthly during discharge	1	29/07/2021	< 0.001	< 0.001	< 0.001				
Jul-21	Chromium (VI) Compounds	(mg/L)	Monthly during discharge	1	29/07/2021	0.031	0.031	0.031				
Jul-21	Copper	(mg/L)	Monthly during discharge	1	29/07/2021	< 0.0005	< 0.0005	< 0.0005				
Jul-21	Iron	(mg/L)	Monthly during discharge	1	29/07/2021	0.019	0.019	0.019				
Jul-21	Lead	(mg/L)	Monthly during discharge	1	29/07/2021	< 0.0001	< 0.0001	<0.0001				
Jul-21	Manganese	(mg/L)	Monthly during discharge	1	29/07/2021	0.0054	0.0054	0.0054				
Jul-21	Nickel	(mg/L)	Monthly during discharge	1	29/07/2021	0.0013	0.0013	0.0013				
Jul-21	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Monthly during discharge	1	29/07/2021	0.24	0.24	0.24				
Jul-21	Nitrogen	(mg/L)	Monthly during discharge	1	29/07/2021	0.70	0.70	0.70				
Jul-21	pH	рН	Monthly during discharge	1	29/07/2021	9.32	9.32	9.32		6.5 - 9.5	No	
Jul-21	Phosphorus	(mg/L)	Monthly during discharge	1	29/07/2021	0.06	0.06	0.06				
Jul-21	Reactive Phosphorus	(mg/L)	Monthly during discharge	1	29/07/2021	0.02	0.02	0.02				
Jul-21	Selenium	(mg/L)	Monthly during discharge	1	29/07/2021	0.0701	0.0701	0.0701				
Jul-21	Total Kjeldahl Nitrogen	(mg/L)	Monthly during discharge	1	29/07/2021	0.5	0.5	0.5				
Jul-21	Total Suspended Solids	(mg/L)	Monthly during discharge	1	29/07/2021	4	4	4		50	No	
Jul-21	Vanadium	(mg/L)	Monthly during discharge	1	29/07/2021	0.0468	0.0468	0.0468				
Jul-21	Zinc	(mg/L)	Monthly during discharge	1	29/07/2021	0.002	0.002	0.002				

POINT 24	Discharge of seepage water from the ash dam rehab	ilitation area to Manı	nering Bay marked and shown as E	PA ID 24 on Th	e Plans ("VX8373	51-1 AND "VX83735	51-2" 03/06/202	O EPA REFERENCE I	OC20/476695	AND DOC20/476	695-1).	
				Samples Collected &		Lowest Sample	Mean of	Highest Sample	Discharge (yes/no)	100 Percentile Concentration	Exceedance	
Month	Pollutant		Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value		Limit	(yes/no)	Comments
Jul-21	Aluminium	(mg/L)	Monthly during discharge	1	29/07/2021				No			
Jul-21	Ammonia	(mg/L)	Monthly during discharge	1	29/07/2021				No			
Jul-21	Arsenic (III)	(mg/L)	Monthly during discharge	1	29/07/2021				No			
Jul-21	Arsenic (V)	(mg/L)	Monthly during discharge	1	29/07/2021				No			
Jul-21	Cadmium	(mg/L)	Monthly during discharge	1	29/07/2021				No			
Jul-21	Chromium (trivalent)	(mg/L)	Monthly during discharge	1	29/07/2021				No			
Jul-21	Chromium (VI) Compounds	(mg/L)	Monthly during discharge	1	29/07/2021				No			
Jul-21	Copper	(mg/L)	Monthly during discharge	1	29/07/2021				No			
Jul-21	Iron	(mg/L)	Monthly during discharge	1	29/07/2021				No			
Jul-21	Lead	(mg/L)	Monthly during discharge	1	29/07/2021				No			No discharge from EPA Point 24 during July 2021
Jul-21	Manganese	(mg/L)	Monthly during discharge	1	29/07/2021				No			
Jul-21	Nickel	(mg/L)	Monthly during discharge	1	29/07/2021				No			
Jul-21	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Monthly during discharge	1	29/07/2021				No			
Jul-21	Nitrogen	(mg/L)	Monthly during discharge	1	29/07/2021				No			
Jul-21	pH	рH	Monthly during discharge	1	29/07/2021				No	6.5 - 9.5	No	
Jul-21	Phosphorus	(mg/L)	Monthly during discharge	1	29/07/2021				No			
Jul-21	Reactive Phosphorus	(mg/L)	Monthly during discharge	1	29/07/2021				No			
Jul-21	Selenium	(mg/L)	Monthly during discharge	1	29/07/2021				No			
Jul-21	Total Kjeldahl Nitrogen	(mg/L)	Monthly during discharge	1	29/07/2021				No			
Jul-21	Total Suspended Solids	(mg/L)	Monthly during discharge	1	29/07/2021				No	50	No	
Jul-21	Vanadium	(mg/L)	Monthly during discharge	1	29/07/2021				No			
Jul-21	Zinc	(mg/L)	Monthly during discharge	1	29/07/2021				No			

POINT 25	Discharge of over boarded water from the ash dam to	Mannering Bay ma	rked and shown as EPA ID 25 on Th	e Plans ("VX8	37351-1 AND "VX8	37351-2" 03/06/2	2020 EPA REFERE	NCE DOC20/47669	5 AND DOC20/4	76695-1).

				Samples					Discharge	100 Percentile		
				Collected &		Lowest Sample	Mean of	Highest Sample	(yes/no)	Concentration		
Month	Pollutant		Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value		Limit	(yes/no)	Comments
Jul-21	Aluminium	(mg/L)	Daily for any discharge >2 hrs						No			
Jul-21	Ammonia	(mg/L)	Daily for any discharge >2 hrs						No			
Jul-21	Arsenic (III)	(mg/L)	Daily for any discharge >2 hrs						No			
Jul-21	Arsenic (V)	(mg/L)	Daily for any discharge >2 hrs						No			
Jul-21	Cadmium	(mg/L)	Daily for any discharge >2 hrs						No			
Jul-21	Chromium (trivalent)	(mg/L)	Daily for any discharge >2 hrs						No			
Jul-21	Chromium (VI) Compounds	(mg/L)	Daily for any discharge >2 hrs						No			
Jul-21	Copper	(mg/L)	Daily for any discharge >2 hrs						No			
Jul-21	Iron	(mg/L)	Daily for any discharge >2 hrs						No			
Jul-21	Lead	(mg/L)	Daily for any discharge >2 hrs						No			
Jul-21	Manganese	(mg/L)	Daily for any discharge >2 hrs						No			
Jul-21	Nickel	(mg/L)	Daily for any discharge >2 hrs						No			No discharge from EPA Point 25 during July 2021
Jul-21	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Daily for any discharge >2 hrs						No			
Jul-21	Nitrogen	(mg/L)	Daily for any discharge >2 hrs						No			
Jul-21	рН	рН	Daily for any discharge >2 hrs						No	6.5 - 9.5	No	
Jul-21	Phosphorus	(mg/L)	Daily for any discharge >2 hrs						No			
Jul-21	Reactive Phosphorus	(mg/L)	Daily for any discharge >2 hrs						No			
Jul-21	Selenium	(mg/L)	Daily for any discharge >2 hrs						No			
Jul-21	Total Kjeldahl Nitrogen	(mg/L)	Daily for any discharge >2 hrs						No			
Jul-21	Total Suspended Solids	(mg/L)	Daily for any discharge >2 hrs						No	50	No	
Jul-21	Vanadium	(mg/L)	Daily for any discharge >2 hrs						No			
Jul-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).

POINT 30	Groundwater quality monitoring bore marked and s	nown as EPA ID 30 or	The Plans ("VX837351-1 AND "VX8	33/351-2" 03/	U6/2020 EPA REFE	RENCE DOC20/4/6	695 AND DOC20	(4/6695-1).				
				Samples						100 Percentile		
				Collected &		Lowest Sample	Mean of	Highest Sample				
Month	Pollutant		Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments
Jul-21	Aluminium	(mg/L)	Quarterly									
Jul-21	Ammonia	(mg/L)	Quarterly									
Jul-21	Arsenic (III)	(mg/L)	Quarterly									
Jul-21	Arsenic (V)	(mg/L)	Quarterly									
Jul-21	Cadmium	(mg/L)	Quarterly									
Jul-21	Chromium (trivalent)	(mg/L)	Quarterly									
Jul-21	Chromium (VI) Compounds	(mg/L)	Quarterly									
Jul-21	Copper	(mg/L)	Quarterly									
Jul-21	Electrical Conductivity	(us/cm)	Quarterly									
Jul-21	Iron	(mg/L)	Quarterly									
Jul-21	Lead	(mg/L)	Quarterly									Next sample due before end of September 2021
Jul-21	Magnesium	(mg/L)	Quarterly									
Jul-21	Manganese	(mg/L)	Quarterly									
Jul-21	Nickel	(mg/L)	Quarterly									
Jul-21	pН	pН	Quarterly									
Jul-21	Potassium	(mg/L)	Quarterly									
Jul-21	Selenium	(mg/L)	Quarterly									
Jul-21	Sodium	(mg/L)	Quarterly									
Jul-21	Standing Water Level	(m)	Quarterly									
Jul-21	Vanadium	(mg/L)	Quarterly									
Jul-21	Zinc	(mg/L)	Quarterly									

POINT 31	Groundwater quality monitoring bore marked and sh	own as EPA ID 31 on	The Plans ("VX837351-1 AND "VX8	37351-2" 03/	06/2020 EPA REFE	RENCE DOC20/476	695 AND DOC20	/476695-1).				
				Samples					99 Percentile	100 Percentile		
				Collected &		Lowest Sample	Mean of	Highest Sample	Concentration	Concentration	Exceedance	
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments
Jul-21	Aluminium	(mg/L)	Quarterly									
Jul-21	Ammonia	(mg/L)	Quarterly									
Jul-21	Arsenic (III)	(mg/L)	Quarterly									
Jul-21	Arsenic (V)	(mg/L)	Quarterly									
Jul-21	Cadmium	(mg/L)	Quarterly									
Jul-21	Chromium (trivalent)	(mg/L)	Quarterly									
Jul-21	Chromium (VI) Compounds	(mg/L)	Quarterly									
Jul-21	Copper	(mg/L)	Quarterly									
Jul-21	Electrical Conductivity	(us/cm)	Quarterly									
Jul-21	Iron	(mg/L)	Quarterly									
Jul-21	Lead	(mg/L)	Quarterly									
Jul-21	Magnesium	(mg/L)	Quarterly									Next sample due before end of September 2021
Jul-21	Manganese	(mg/L)	Quarterly									
Jul-21	Nickel	(mg/L)	Quarterly									
Jul-21	рН	pН	Quarterly									
Jul-21	Potassium	(mg/L)	Quarterly									
Jul-21	Selenium	(mg/L)	Quarterly									
Jul-21	Sodium	(mg/L)	Quarterly									
Jul-21	Standing Water Level	(m)	Quarterly									
Jul-21	Vanadium	(mg/L)	Quarterly									
Jul-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).

POINT 32	Groundwater quality monitoring bore marked and sr	IOWIT AS EPA ID 52 OF	The Plans ( VA65/551-1 AND VA	33/351-2 03/	06/2020 EPA REFE	KENCE DUC20/4/	695 AND DUC20	476695-1).				
				Samples					99 Percentile	100 Percentile		
				Collected &		Lowest Sample	Mean of	Highest Sample	Concentration	Concentration	Exceedance	
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments
Jul-21	Aluminium	(mg/L)	Quarterly									
Jul-21	Ammonia	(mg/L)	Quarterly									
Jul-21	Arsenic (III)	(mg/L)	Quarterly									
Jul-21	Arsenic (V)	(mg/L)	Quarterly									
Jul-21	Cadmium	(mg/L)	Quarterly									
Jul-21	Chromium (trivalent)	(mg/L)	Quarterly									
Jul-21	Chromium (VI) Compounds	(mg/L)	Quarterly									
Jul-21	Copper	(mg/L)	Quarterly									
Jul-21	Electrical Conductivity	(us/cm)	Quarterly									
Jul-21	Iron	(mg/L)	Quarterly									
Jul-21	Lead	(mg/L)	Quarterly									
Jul-21	Magnesium	(mg/L)	Quarterly									Next sample due before end of September 2021
Jul-21	Manganese	(mg/L)	Quarterly									
Jul-21	Nickel	(mg/L)	Quarterly									
Jul-21	pH	рН	Quarterly									
Jul-21	Potassium	(mg/L)	Quarterly									
Jul-21	Selenium	(mg/L)	Quarterly									
Jul-21	Sodium	(mg/L)	Quarterly									
Jul-21	Standing Water Level	(m)	Quarterly									
Jul-21	Vanadium	(mg/L)	Quarterly									
Jul-21	Zinc	(mg/L)	Quarterly									

POINT 33	Groundwater quality monitoring bore marked and sh	own as EPA ID 33 or	The Plans ("VX837351-1 AND "VX8	37351-2" 03/	06/2020 EPA REFE	RENCE DOC20/476	695 AND DOC20/	476695-1).				
				Samples Collected &		Lowest Sample	Mean of	Highest Sample	Concentration		Exceedance	
Month	Pollutant		Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments
Jul-21	Aluminium	(mg/L)	Quarterly									
Jul-21	Ammonia	(mg/L)	Quarterly									
Jul-21	Arsenic (III)	(mg/L)	Quarterly									
Jul-21	Arsenic (V)	(mg/L)	Quarterly									
Jul-21	Cadmium	(mg/L)	Quarterly									
Jul-21	Chromium (trivalent)	(mg/L)	Quarterly									
Jul-21	Chromium (VI) Compounds	(mg/L)	Quarterly									
Jul-21	Copper	(mg/L)	Quarterly									
Jul-21	Electrical Conductivity	(us/cm)	Quarterly									
Jul-21	Iron	(mg/L)	Quarterly									
Jul-21	Lead	(mg/L)	Quarterly									
Jul-21	Magnesium	(mg/L)	Quarterly									Next sample due before end of September 2021
Jul-21	Manganese	(mg/L)	Quarterly									
Jul-21	Nickel	(mg/L)	Quarterly									
Jul-21	pH	pН	Quarterly									
Jul-21	Potassium	(mg/L)	Quarterly									
Jul-21	Selenium	(mg/L)	Quarterly									
Jul-21	Sodium	(mg/L)	Quarterly									
Jul-21	Standing Water Level	(m)	Quarterly									
Jul-21	Vanadium	(mg/L)	Quarterly									
Jul-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	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
Jul-21	Aluminium	(mg/L)	Quarterly						 	()	
Jul-21	Ammonia	(mg/L)	Quarterly								
Jul-21	Arsenic (III)	(mg/L)	Quarterly								
Jul-21	Arsenic (V)	(mg/L)	Quarterly								
Jul-21	Cadmium	(mg/L)	Quarterly								
Jul-21	Chromium (trivalent)	(mg/L)	Quarterly								
Jul-21	Chromium (VI) Compounds	(mg/L)	Quarterly								
Jul-21	Copper	(mg/L)	Quarterly								
Jul-21	Electrical Conductivity	(us/cm)	Quarterly								
Jul-21	Iron	(mg/L)	Quarterly								
Jul-21	Lead	(mg/L)	Quarterly								Next sample due before end of September 2021
Jul-21	Magnesium	(mg/L)	Quarterly								
Jul-21	Manganese	(mg/L)	Quarterly								
Jul-21	Nickel	(mg/L)	Quarterly								
Jul-21	рН	рН	Quarterly								
Jul-21	Potassium	(mg/L)	Quarterly								
Jul-21	Selenium	(mg/L)	Quarterly								
Jul-21	Sodium	(mg/L)	Quarterly								
Jul-21	Standing Water Level	(m)	Quarterly								
Jul-21	Vanadium	(mg/L)	Quarterly								
Jul-21	Zinc	(mg/L)	Quarterly								

GENERAL COMMENTS

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