Vales Point Power Station Monthly Environmental Data Summary

Delta
electricity

Comments

LICENCE NO	761	http://www.epa.nsw.gov.au/prpoeoapp/
LICENCE HOLDER	SUNSET POWER INTERNATIONAL PTY LTD	
REPORTING PERIOD	September 2022	
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). Samples 99 Percentile 100 Percentile Exceed Collected 8 **Date Sampled** Lowest Sample Mean of **Highest Sample** Concentration Concentration 100% Limit Unit of Measure Sample/Measurement Frequency Pollutant Value Value Limit (yes/no) Comments Month Analysed Samples Limit Sep-22 Cadmium (mg/m3) Every 6 months 1 August 2022 < 0.0013 < 0.0013 < 0.0013 0.2 August 2022 Chlorine (mg/m3) Every 6 months 0.07 0.07 0.07 20 Sep-22 1 Sep-22 Fluorine (mg/m3) Every 6 months 1 August 2022 2.60 2.60 2.60 30 Every 6 months August 2022 0.43 0.43 0.43 50 Sep-22 Hydrogen chloride (mg/m3) 1 August 2022 0.0009 0.0009 0.0009 0.05 Mercury (mg/m3) Every 6 months Sep-22 1 100% 512 674 874 850 No Sep-22 Nitrogen Oxides (mg/m3) Continuous Sep-22 980 Sep-22 Solid Particles (mg/m3) Quarterly 1 August 2022 8.95 8.95 8.95 50 Sep-22 Sulfur dioxide (mg/m3) Continuous 100% Sep-22 490 703 958 1400 1700 No Sulfuric acid mist and sulfur trioxide (as SO3) August 2022 100 Sep-22 (mg/m3) Every 6 months 1 6.1 6.1 6.1 Type 1 and Type 2 substances in aggregate (mg/m3) Every 6 months August 2022 0.07 0.07 0.07 0.75 Sep-22 (mg/m3) August 2022 VOC's as n-propane equivalent 1 <3 <3 <3 10 Sep-22 Every 6 months

POINT 3	Combined air emissions from boiler 6 via Points 8	to 11 to Point 1 mar	ked and shown as EPA ID 3 on The Pla	ans ("VX83735	1-1 AND "VX8373	351-2" 03/06/2020	EPA REFERENCE	E DOC20/476695 A	ND DOC20/4766	595-1).		
				Samples					99 Percentile	100 Percentile	Exceed	
				Collected &		Lowest Sample	Mean of	Highest Sample	Concentration	Concentration	100% Limit	
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	
Sep-22	Cadmium	(mg/m3)	Every 6 months	1	August 2022	< 0.0014	< 0.0014	< 0.0014		0.2		
Sep-22	Chlorine	(mg/m3)	Every 6 months	1	August 2022	<0.65	<0.65	<0.65		20		
Sep-22	Fluorine	(mg/m3)	Every 6 months	1	August 2022	3.83	3.83	3.83		30		
Sep-22	Hydrogen chloride	(mg/m3)	Every 6 months	1	August 2022	5.26	5.26	5.26		50		

3CP 22	nydrogen enfonde	(116/113)	LUCIYOTHOTHIS	1	August 2022	5.20	5.20	5.20		50		1 1
Sep-22	Mercury	(mg/m3)	Every 6 months	1	August 2022	0.0008	0.0008	0.0008		0.05		
Sep-22	Nitrogen Oxides	(mg/m3)	Continuous	97.8%	Sep-22	310	660	837	850	980	No	i I
Sep-22	Solid Particles	(mg/m3)	Quarterly	1	August 2022	5.93	5.93	5.93		50		
Sep-22	Sulfur dioxide	(mg/m3)	Continuous	97.6%	Sep-22	523	699	998	1400	1700	No	
Sep-22	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months	1	August 2022	4.9	4.9	4.9		100		
Sep-22	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	August 2022	0.2	0.2	0.2		0.75		
Sep-22	VOC's as n-propane equivalent	(mg/m3)	Every 6 months	1	August 2022	<3.4	<3.4	<3.4		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).

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				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
Sep-22	Cadmium	(mg/m3)	Every 6 months	1	August 2022	< 0.0012	< 0.0012	< 0.0012				
Sep-22	Carbon dioxide	(%)	Every 6 months	1	August 2022	11.2	11.2	11.2				
Sep-22	Chlorine	(mg/m3)	Every 6 months	1	August 2022	0.04	0.04	0.04				
Sep-22	Flow rate	(m3/s)	Continuous									
Sep-22	Fluorine	(mg/m3)	Every 6 months	1	August 2022	3.46	3.46	3.46				
Sep-22	Hydrogen chloride	(mg/m3)	Every 6 months	1	August 2022	0.40	0.40	0.40				
Sep-22	Mercury	(mg/m3)	Every 6 months	1	August 2022	< 0.0006	< 0.0006	< 0.0006				Continuous monitoring of flow rate, moisture, O2 and temperature
Sep-22	Moisture	(%)	Continuous									not required until 30/11/2022.
Sep-22	Oxygen (O2)	(%)	Continuous									
Sep-22	Solid Particles	(mg/m3)	Quarterly	1	August 2022	13.3	13.3	13.3				
Sep-22	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months	1	August 2022	6.7	6.7	6.7				
Sep-22	Temperature	(°C)	Continuous									
Sep-22	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	August 2022	0.072	0.072	0.072				
Sep-22	VOC's as n-propane equivalent	(mg/m3)	Every 6 months	1	August 2022	<2.9	<2.9	<2.9				

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).

FOINTS	boller humber 5 exhaust - duct b markeu and sho	WIT as LFAID 3 OIT TH	C 1 10113 (VX037331-1 HIND VX03733	51-2 03/00/2	020 EI A KEI EKEN	CE DOC20/4/0055	AND DOCLO/4/	0055-1).				
				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
Sep-22	Cadmium	(mg/m3)	Every 6 months	1	August 2022	< 0.0012	< 0.0012	< 0.0012				
Sep-22	Flow rate	(m3/s)	Continuous									
Sep-22	Mercury	(mg/m3)	Every 6 months	1	August 2022	< 0.0006	<0.0006	<0.0006				
Sep-22	Moisture	(%)	Continuous									Continuous monitoring of flow rate, moisture, O2 and temperature
Sep-22	Oxygen (O2)	(%)	Continuous									not required until 30/11/2022.
Sep-22	Solid Particles	(mg/m3)	Quarterly	1	August 2022	1.0	1.0	1.0				
Sep-22	Temperature	(°C)	Continuous									
Sep-22	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	August 2022	0.076	0.076	0.076				

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
Sep-22	Cadmium	(mg/m3)	Every 6 months	1	August 2022	< 0.0016	< 0.0016	< 0.0016				
Sep-22	Carbon dioxide	(%)	Every 6 months	1	August 2022	12.8	12.8	12.8				
Sep-22	Chlorine	(mg/m3)	Every 6 months	1	August 2022	<0.12	<0.12	<0.12				
Sep-22	Flow rate	(m3/s)	Continuous									
Sep-22	Fluorine	(mg/m3)	Every 6 months	1	August 2022	1.84	1.84	1.84				
Sep-22	Hydrogen chloride	(mg/m3)	Every 6 months	1	August 2022	<0.47	<0.47	<0.47				
Sep-22	Mercury	(mg/m3)	Every 6 months	1	August 2022	< 0.0008	<0.0008	<0.0008				Continuous monitoring of flow rate, moisture, O2 and temperature
Sep-22	Moisture	(%)	Continuous									not required until 30/11/2022.
Sep-22	Oxygen (O2)	(%)	Continuous									
Sep-22	Solid Particles	(mg/m3)	Quarterly	1	August 2022	18.2	18.2	18.2				
Sep-22	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months	1	August 2022	4.6	4.6	4.6				
Sep-22	Temperature	(°C)	Continuous									
Sep-22	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	August 2022	0.064	0.064	0.064				
Sep-22	VOC's as n-propane equivalent	(mg/m3)	Every 6 months	1	August 2022	<3.01	<3.01	<3.01				

POINT 7	Boiler number 5 exhaust - duct D marked and sho	wn as EPA ID 7 on Th	e Plans ("VX837351-1 AND "VX8373!	51-2" 03/06/2	020 EPA REFEREN	CE DOC20/476695	AND DOC20/47	6695-1).				
				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
Sep-22	Cadmium	(mg/m3)	Every 6 months	1	August 2022	< 0.0014	< 0.0014	< 0.0014				
Sep-22	Flow rate	(m3/s)	Continuous									
Sep-22	Mercury	(mg/m3)	Every 6 months	1	August 2022	0.0016	0.0016	0.0016				
Sep-22	Moisture	(%)	Continuous									Continuous monitoring of flow rate, moisture, O2 and temperature
Sep-22	Oxygen (O2)	(%)	Continuous									not required until 30/11/2022.
Sep-22	Solid Particles	(mg/m3)	Quarterly	1	August 2022	3.2	3.2	3.2				
Sep-22	Temperature	(°C)	Continuous									
Sep-22	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	August 2022	0.045	0.045	0.045				

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 6	Doller humber o exhaust - duct A marked and sh	SWILAS LFAID 8 OIL TH	E FIGIIS (VX637331-1 AND VX6373.	51-2 03/00/2	020 LFA KLFLKLN	ICL DOC20/4/0095	AND DOCLO/4/	0055-17.	-	-		
				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
Sep-22	Cadmium	(mg/m3)	Every 6 months	1	August 2022	< 0.0009	< 0.0009	< 0.0009				
Sep-22	Carbon dioxide	(%)	Every 6 months	1	August 2022	11.3	11.3	11.3				
Sep-22	Chlorine	(mg/m3)	Every 6 months	1	August 2022	< 0.33	<0.33	< 0.33				
Sep-22	Flow rate	(m3/s)	Continuous									
Sep-22	Fluorine	(mg/m3)	Every 6 months	1	August 2022	2.53	2.53	2.53				
Sep-22	Hydrogen chloride	(mg/m3)	Every 6 months	1	August 2022	7.67	7.67	7.67				
Sep-22	Mercury	(mg/m3)	Every 6 months	1	August 2022	0.0005	0.0005	0.0005				Continuous monitoring of flow rate, moisture, O2 and temperature
Sep-22	Moisture	(%)	Continuous									not required until 30/11/2022.
Sep-22	Oxygen (O2)	(%)	Continuous									
Sep-22	Solid Particles	(mg/m3)	Quarterly	1	August 2022	12.4	12.4	12.4				
Sep-22	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months	1	August 2022	5.3	5.3	5.3				
Sep-22	Temperature	(°C)	Continuous									
Sep-22	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	August 2022	0.458	0.458	0.458				
Sep-22	VOC's as n-propane equivalent	(mg/m3)	Every 6 months	1	August 2022	<3.45	<3.45	<3.45				

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).

FOINT 5	Boller Humber o exhaust - duct b marked and sho	wilds LFAID 5 011 11	erialis (VA03/331-1 AND VA03/3.	51-2 03/00/2	020 LFA KLFLKLN	CL DOC20/4/005.	AND DOC20/4/	0033-17.				
				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
Sep-22	Cadmium	(mg/m3)	Every 6 months	1	August 2022	<0.0015	<0.0015	< 0.0015				
Sep-22	Flow rate	(m3/s)	Continuous									
Sep-22	Mercury	(mg/m3)	Every 6 months	1	August 2022	< 0.0007	< 0.0007	< 0.0007				
Sep-22	Moisture	(%)	Continuous									Continuous monitoring of flow rate, moisture, O2 and temperature
Sep-22	Oxygen (O2)	(%)	Continuous									not required until 30/11/2022.
Sep-22	Solid Particles	(mg/m3)	Quarterly	1	August 2022	1.9	1.9	1.9				
Sep-22	Temperature	(°C)	Continuous									
Sep-22	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	August 2022	0.076	0.076	0.076				

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						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
Sep-22	Cadmium	(mg/m3)	Every 6 months	1	August 2022	< 0.0017	< 0.0017	< 0.0017				
Sep-22	Carbon dioxide	(%)	Every 6 months	1	August 2022	13.1	13.1	13.1				
Sep-22	Chlorine	(mg/m3)	Every 6 months	1	August 2022	<1.16	<1.16	<1.16				
Sep-22	Flow rate	(m3/s)	Continuous									
Sep-22	Fluorine	(mg/m3)	Every 6 months	1	August 2022	4.8	4.8	4.8				
Sep-22	Hydrogen chloride	(mg/m3)	Every 6 months	1	August 2022	<1.51	<1.51	<1.51				
Sep-22	Mercury	(mg/m3)	Every 6 months	1	August 2022	0.0009	0.0009	0.0009				Continuous monitoring of flow rate, moisture, O2 and temperature
Sep-22	Moisture	(%)	Continuous									not required until 30/11/2022.
Sep-22	Oxygen (O2)	(%)	Continuous									
Sep-22	Solid Particles	(mg/m3)	Quarterly	1	August 2022	5.5	5.5	5.5				
Sep-22	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months	1	August 2022	4.3	4.3	4.3				
Sep-22	Temperature	(°C)	Continuous									
Sep-22	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	August 2022	0.07	0.07	0.07				
Sep-22	VOC's as n-propane equivalent	(mg/m3)	Every 6 months	1	August 2022	<3.36	<3.36	<3.36				

POINT 11	Boiler number 6 exhaust - duct D marked and sho	own as EPA ID 11 on 1	The Plans ("VX837351-1 AND "VX837	351-2" 03/06/	2020 EPA REFERE	NCE DOC20/47669	95 AND DOC20/4	76695-1).				
				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
Sep-22	Cadmium	(mg/m3)	Every 6 months	1	August 2022	<0.0017	<0.0017	< 0.0017				
Sep-22	Flow rate	(m3/s)	Continuous									
Sep-22	Mercury	(mg/m3)	Every 6 months	1	August 2022	0.0013	0.0013	0.0013				
Sep-22	Moisture	(%)	Continuous									Continuous monitoring of flow rate, moisture, O2 and temperature
Sep-22	Oxygen (O2)	(%)	Continuous									not required until 30/11/2022.
Sep-22	Solid Particles	(mg/m3)	Quarterly	1	August 2022	1.8	1.8	1.8				
Sep-22	Temperature	(°C)	Continuous									
Sep-22	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	August 2022	0.113	0.113	0.113				

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).

				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
Sep-22	Nitrogen Oxides	(mg/m3)	Continuous	100.0%	Sep-22	478	678	824			N/A	
Sep-22	Sulfur dioxide	(mg/m3)	Continuous	100.0%	Sep-22	469	664	924			N/A	

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).

				Samples					99 Percentile	100 Percentile		
				Collected &		Lowest Sample	Mean of	Highest Sample	Concentration	Concentration	Exceedance	
Mo	nth Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments
Sep	-22 Nitrogen Oxides	(mg/m3)	Continuous	100.0%	Sep-22	536	671	924			N/A	
Sep	-22 Sulfur dioxide	(mg/m3)	Continuous	100.0%	Sep-22	491	742	1001			N/A	

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).

				Samples					99 Percentile	100 Percentile		
				Collected &		Lowest Sample	Mean of	Highest Sample				
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments
Sep-22	Nitrogen Oxides	(mg/m3)	Continuous	97.4%	Sep-22	304	702	857			N/A	
Sep-22	Sulfur dioxide	(mg/m3)	Continuous	97.4%	Sep-22	466	704	995			N/A	

POINT 15	Boiler number 6 combined exhaust - duct C and D	(points 10 and 11) m	arked and shownas EPA ID 12 on The	Plans ("VX83	7351-1 AND "VX8	37351-2" 03/06/2	020 EPA REFERE	NCE DOC20/47669	5 AND DOC20/4	76695-1).		
				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
Sep-22	Nitrogen Oxides	(mg/m3)	Continuous	98.2%	Sep-22	315	619	847			N/A	
Sep-22	Sulfur dioxide	(mg/m3)	Continuous	97.8%	Sep-22	494	695	1002			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).

				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	Limit (yes/no)	Comments
Sep-22	Chlorine (free residual)	(mg/L)	Monthly during discharge	1	6/09/2022	<0.1	<0.1	<0.1		0.2	No	
Sep-22	Copper	(mg/L)	Monthly during discharge	1	6/09/2022	< 0.001	< 0.001	<0.001		0.005	No	
Sep-22	Iron	(mg/L)	Monthly during discharge	1	6/09/2022	0.075	0.075	0.075		0.3	No	
Sep-22	Oil and Grease	Visible	Continuous during discharge	100%	Sep-22	NIL	NIL	NIL				
Sep-22	Selenium	(mg/L)	Monthly during discharge	1	6/09/2022	0.001	0.001	0.001		0.005	No	
Sep-22	Temperature	(°C)	Continuous during discharge	100%	Sep-22	20.0	24.8	30.0	35	37.5	No	

POINT 23	Discharge of supernatant water from the ash dan	n to the cooling wate	r outlet canal to Wyee Bay marked a	nd shown as EF	PA ID 23 on The Pl	ans ("VX837351-1	AND "VX837351	L-2" 03/06/2020 E	PA REFERENCE	OC20/476695 AI	ND DOC20/476	5695-1).
				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
Sep-22	Aluminium	(mg/L)	Monthly during discharge	1	6/09/2022	0.08	0.08	0.08				
Sep-22	Ammonia	(mg/L)	Monthly during discharge	1	6/09/2022	0.03	0.03	0.03				
Sep-22	Arsenic (III)	(mg/L)	Monthly during discharge	1	6/09/2022	<0.001	< 0.001	< 0.001				
Sep-22	Arsenic (V)	(mg/L)	Monthly during discharge	1	6/09/2022	0.009	0.009	0.009				
Sep-22	Cadmium	(mg/L)	Monthly during discharge	1	6/09/2022	< 0.0001	<0.0001	< 0.0001				
Sep-22	Chromium (trivalent)	(mg/L)	Monthly during discharge	1	6/09/2022	<0.005	<0.005	< 0.005				
Sep-22	Chromium (VI) Compounds	(mg/L)	Monthly during discharge	1	6/09/2022	0.052	0.052	0.052				
Sep-22	Copper	(mg/L)	Monthly during discharge	1	6/09/2022	< 0.001	< 0.001	< 0.001				
Sep-22	Iron	(mg/L)	Monthly during discharge	1	6/09/2022	0.059	0.059	0.059				
Sep-22	Lead	(mg/L)	Monthly during discharge	1	6/09/2022	< 0.001	< 0.001	< 0.001				
Sep-22	Manganese	(mg/L)	Monthly during discharge	1	6/09/2022	< 0.005	<0.005	< 0.005				
Sep-22	Nickel	(mg/L)	Monthly during discharge	1	6/09/2022	< 0.001	< 0.001	< 0.001				
Sep-22	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Monthly during discharge	1	6/09/2022	0.10	0.10	0.10				
Sep-22	Nitrogen	(mg/L)	Monthly during discharge	1	6/09/2022	0.40	0.40	0.40				
Sep-22	pH	рН	Monthly during discharge	1	6/09/2022	8.89	8.89	8.89		6.5 - 9.5	No	
Sep-22	Phosphorus	(mg/L)	Monthly during discharge	1	6/09/2022	< 0.05	<0.05	<0.05				
Sep-22	Reactive Phosphorus	(mg/L)	Monthly during discharge	1	6/09/2022	< 0.005	<0.005	< 0.005				
Sep-22	Selenium	(mg/L)	Monthly during discharge	1	6/09/2022	0.069	0.069	0.069				
Sep-22	Total Kjeldahl Nitrogen	(mg/L)	Monthly during discharge	1	6/09/2022	0.3	0.3	0.3				
Sep-22	Total Suspended Solids	(mg/L)	Monthly during discharge	1	6/09/2022	5	5	5		50	No	
Sep-22	Vanadium	(mg/L)	Monthly during discharge	1	6/09/2022	0.12	0.12	0.12				
Sep-22	Zinc	(mg/L)	Monthly during discharge	1	6/09/2022	0.003	0.003	0.003				

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).

POINT 24	Discharge of seepage water from the ash dam	reliabilitation area to M	lannering bay marked and shown as i		The Plans (VA0573	551-1 AND VA65/	551-2 05/00/2	UZU EPA REFERENC	E DUC20/4/005		0095-1).	
				Samples Collected &		Laurant Commun		Webert Comula	Discharge	100 Percentile Concentration	Frank damage	
Month	Pollutant	Unit of Monsure	Sample/Measurement Frequency	Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	(yes/no)	Limit	(yes/no)	Comments
	Aluminium			Analyseu		value	Samples	Value	N-	Linit	(yes/no)	comments
Sep-22		(mg/L)	Monthly during discharge	1	6/09/2022				No			
Sep-22	Ammonia	(mg/L)	Monthly during discharge	1	6/09/2022				No			
Sep-22	Arsenic (III)	(mg/L)	Monthly during discharge	1	6/09/2022				No			
Sep-22	Arsenic (V)	(mg/L)	Monthly during discharge	1	6/09/2022				No			
Sep-22	Cadmium	(mg/L)	Monthly during discharge	1	6/09/2022				No			
Sep-22	Chromium (trivalent)	(mg/L)	Monthly during discharge	1	6/09/2022				No			
Sep-22	Chromium (VI) Compounds	(mg/L)	Monthly during discharge	1	6/09/2022				No			
Sep-22	Copper	(mg/L)	Monthly during discharge	1	6/09/2022				No			
Sep-22	Iron	(mg/L)	Monthly during discharge	1	6/09/2022				No			
Sep-22	Lead	(mg/L)	Monthly during discharge	1	6/09/2022				No			
Sep-22	Manganese	(mg/L)	Monthly during discharge	1	6/09/2022				No			No discharge from EPA Point 24 during September 2022
Sep-22	Nickel	(mg/L)	Monthly during discharge	1	6/09/2022				No			
Sep-22	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Monthly during discharge	1	6/09/2022				No			
Sep-22	Nitrogen	(mg/L)	Monthly during discharge	1	6/09/2022				No			
Sep-22	pH	pH	Monthly during discharge	1	6/09/2022				No	6.5 - 9.5	No	
Sep-22	Phosphorus	(mg/L)	Monthly during discharge	1	6/09/2022				No			
Sep-22	Reactive Phosphorus	(mg/L)	Monthly during discharge	1	6/09/2022				No			
Sep-22	Selenium	(mg/L)	Monthly during discharge	1	6/09/2022				No			
Sep-22	Total Kjeldahl Nitrogen	(mg/L)	Monthly during discharge	1	6/09/2022				No			
Sep-22	Total Suspended Solids	(mg/L)	Monthly during discharge	1	6/09/2022				No	50	No	
Sep-22	Vanadium	(mg/L)	Monthly during discharge	1	6/09/2022				No			
Sep-22	Zinc	(mg/L)	Monthly during discharge	1	6/09/2022				No			

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).

				Samples					Discharge	100 Percentile		
				Collected &		Lowest Sample	Mean of	Highest Sample	(yes/no)	Concentration		
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	(903/110)	Limit	(yes/no)	Comments
Sep-22	Aluminium	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-22	Ammonia	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-22	Arsenic (III)	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-22	Arsenic (V)	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-22	Cadmium	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-22	Chromium (trivalent)	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-22	Chromium (VI) Compounds	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-22	Copper	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-22	Iron	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-22	Lead	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-22	Manganese	(mg/L)	Daily for any discharge >2 hrs						No			No discharge from EPA Point 25 during September 2022
Sep-22	Nickel	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-22	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-22	Nitrogen	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-22	pH	pН	Daily for any discharge >2 hrs						No	6.5 - 9.5	No	
Sep-22	Phosphorus	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-22	Reactive Phosphorus	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-22	Selenium	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-22	Total Kjeldahl Nitrogen	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-22	Total Suspended Solids	(mg/L)	Daily for any discharge >2 hrs						No	50	No	
Sep-22	Vanadium	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-22	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	d shown as EPA ID 30	on The Plans ("VX837351-1 AND "V	(837351-2" 03	6/06/2020 EPA RE	FERENCE DOC20/4	76695 AND DOC	20/476695-1).				
				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
Sep-22	Aluminium	(mg/L)	Quarterly									
Sep-22	Ammonia	(mg/L)	Quarterly									
Sep-22	Arsenic (III)	(mg/L)	Quarterly									
Sep-22	Arsenic (V)	(mg/L)	Quarterly									
Sep-22	Cadmium	(mg/L)	Quarterly									
Sep-22	Chromium (trivalent)	(mg/L)	Quarterly									
Sep-22	Chromium (VI) Compounds	(mg/L)	Quarterly									
Sep-22	Copper	(mg/L)	Quarterly									
Sep-22	Electrical Conductivity	(us/cm)	Quarterly									Next sample scheduled for October 2022
Sep-22	Iron	(mg/L)	Quarterly									
Sep-22	Lead	(mg/L)	Quarterly									
Sep-22	Magnesium	(mg/L)	Quarterly									
Sep-22	Manganese	(mg/L)	Quarterly									
Sep-22	Nickel	(mg/L)	Quarterly									
Sep-22	pH	рН	Quarterly									
Sep-22	Potassium	(mg/L)	Quarterly									
Sep-22	Selenium	(mg/L)	Quarterly									
Sep-22	Sodium	(mg/L)	Quarterly									
Sep-22	Standing Water Level	(m)	Quarterly									
Sep-22	Vanadium	(mg/L)	Quarterly									
Sep-22	Zinc	(mg/L)	Quarterly									

POINT 31	Groundwater quality monitoring bore marked ar	nd shown as EPA ID 31	L on The Plans ("VX837351-1 AND "V	X837351-2" 0	3/06/2020 EPA RE	FERENCE DOC20/4	76695 AND DOC	20/476695-1).		
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	Comments
Sep-22	Aluminium	(mg/L)	Quarterly							
Sep-22	Ammonia	(mg/L)	Quarterly							
Sep-22	Arsenic (III)	(mg/L)	Quarterly							
Sep-22	Arsenic (V)	(mg/L)	Quarterly							
Sep-22	Cadmium	(mg/L)	Quarterly							
Sep-22	Chromium (trivalent)	(mg/L)	Quarterly							
Sep-22	Chromium (VI) Compounds	(mg/L)	Quarterly							
Sep-22	Copper	(mg/L)	Quarterly							
Sep-22	Electrical Conductivity	(us/cm)	Quarterly							
Sep-22	Iron	(mg/L)	Quarterly							Next sample scheduled for October 2022
Sep-22	Lead	(mg/L)	Quarterly							
Sep-22	Magnesium	(mg/L)	Quarterly							
Sep-22	Manganese	(mg/L)	Quarterly							
Sep-22	Nickel	(mg/L)	Quarterly							
Sep-22	pH	рН	Quarterly							
Sep-22	Potassium	(mg/L)	Quarterly							
Sep-22	Selenium	(mg/L)	Quarterly							
Sep-22	Sodium	(mg/L)	Quarterly							
Sep-22	Standing Water Level	(m)	Quarterly							
Sep-22	Vanadium	(mg/L)	Quarterly							
Sep-22	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 a	nd shown as EPA ID 32	on The Plans ("VX837351-1 AND "V	(837351-2" 03	8/06/2020 EPA RE	FERENCE DOC20/4	76695 AND DOC	20/476695-1).				
				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
Sep-22	Aluminium	(mg/L)	Quarterly									
Sep-22	Ammonia	(mg/L)	Quarterly									
Sep-22	Arsenic (III)	(mg/L)	Quarterly									
Sep-22	Arsenic (V)	(mg/L)	Quarterly									
Sep-22	Cadmium	(mg/L)	Quarterly									
Sep-22	Chromium (trivalent)	(mg/L)	Quarterly									
Sep-22	Chromium (VI) Compounds	(mg/L)	Quarterly									
Sep-22	Copper	(mg/L)	Quarterly									
Sep-22	Electrical Conductivity	(us/cm)	Quarterly									
Sep-22	Iron	(mg/L)	Quarterly									Next sample scheduled for October 2022
Sep-22	Lead	(mg/L)	Quarterly									
Sep-22	Magnesium	(mg/L)	Quarterly									
Sep-22	Manganese	(mg/L)	Quarterly									
Sep-22	Nickel	(mg/L)	Quarterly									
Sep-22	рН	рН	Quarterly									
Sep-22	Potassium	(mg/L)	Quarterly									
Sep-22	Selenium	(mg/L)	Quarterly									
Sep-22	Sodium	(mg/L)	Quarterly									
Sep-22	Standing Water Level	(m)	Quarterly									
Sep-22	Vanadium	(mg/L)	Quarterly									
Sep-22	Zinc	(mg/L)	Quarterly									

POINT 33	Groundwater quality monitoring bore marked a	and shown as EPA ID 33	on The Plans ("VX837351-1 AND "V	(837351-2" 03	3/06/2020 EPA RE	FERENCE DOC20/4	76695 AND DO	20/476695-1).		
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	Comments
Sep-22	Aluminium	(mg/L)	Quarterly							
Sep-22	Ammonia	(mg/L)	Quarterly							
Sep-22	Arsenic (III)	(mg/L)	Quarterly							
Sep-22	Arsenic (V)	(mg/L)	Quarterly							
Sep-22	Cadmium	(mg/L)	Quarterly							
Sep-22	Chromium (trivalent)	(mg/L)	Quarterly							
Sep-22	Chromium (VI) Compounds	(mg/L)	Quarterly							
Sep-22	Copper	(mg/L)	Quarterly							
Sep-22	Electrical Conductivity	(us/cm)	Quarterly							
Sep-22	Iron	(mg/L)	Quarterly							Next sample scheduled for October 2022
Sep-22	Lead	(mg/L)	Quarterly							
Sep-22	Magnesium	(mg/L)	Quarterly							
Sep-22	Manganese	(mg/L)	Quarterly							
Sep-22	Nickel	(mg/L)	Quarterly							
Sep-22	pH	pН	Quarterly							
Sep-22	Potassium	(mg/L)	Quarterly							
Sep-22	Selenium	(mg/L)	Quarterly							
Sep-22	Sodium	(mg/L)	Quarterly							
Sep-22	Standing Water Level	(m)	Quarterly							
Sep-22	Vanadium	(mg/L)	Quarterly							
Sep-22	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).

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).											
				Samples		Laurant Community		Webert Commun				
	Dellutent		County (Management Francisco	Collected &	Date Sampled	Lowest Sample Value	Mean of	Highest Sample Value	Limit	Limit		Comments
Month	Pollutant		Sample/Measurement Frequency	Analysed	Date Sampled	value	Samples	value	Limit	Limit	(yes/no)	Comments
Sep-22	Aluminium	(mg/L)	Quarterly									
Sep-22	Ammonia	(mg/L)	Quarterly									
Sep-22	Arsenic (III)	(mg/L)	Quarterly									
Sep-22	Arsenic (V)	(mg/L)	Quarterly									
Sep-22	Cadmium	(mg/L)	Quarterly									
Sep-22	Chromium (trivalent)	(mg/L)	Quarterly									
Sep-22	Chromium (VI) Compounds	(mg/L)	Quarterly									
Sep-22	Copper	(mg/L)	Quarterly									
Sep-22	Electrical Conductivity	(us/cm)	Quarterly									
Sep-22	Iron	(mg/L)	Quarterly									Next sample scheduled for October 2022
Sep-22	Lead	(mg/L)	Quarterly									
Sep-22	Magnesium	(mg/L)	Quarterly									
Sep-22	Manganese	(mg/L)	Quarterly									
Sep-22	Nickel	(mg/L)	Quarterly									
Sep-22	pH	рН	Quarterly									
Sep-22	Potassium	(mg/L)	Quarterly									
Sep-22	Selenium	(mg/L)	Quarterly									
Sep-22	Sodium	(mg/L)	Quarterly									
Sep-22	Standing Water Level	(m)	Quarterly									
Sep-22	Vanadium	(mg/L)	Quarterly									
Sep-22	Zinc	(mg/L)	Quarterly									

GENERAL COMMENTS