Vales Point Power Station Monthly Environmental Data Summary

Delta
electricity

LICENCE NO	761	http://www.epa.nsw.gov.au/prpoeoapp/
LICENCE HOLDER	SUNSET POWER INTERNATIONAL PTY LTD	
REPORTING PERIOD	May 2022	
ADDRESS	VALES ROAD, MANNERING PARK NSW	

POINT 2	DINT 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 &	Date Sampled	Lowest Sample	Mean of	Highest Sample	Concentration	Concentration	100% Limit	
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed		Value	Samples	Value	Limit	Limit	(yes/no)	Comments
May-22	Cadmium	(mg/m3)	Every 6 months	1	Feb 2022	<0.0012	<0.0012	< 0.0012		0.2	No	Q3 Stack Gas Testing Report received from consultant 10/6/22
May-22	Chlorine	(mg/m3)	Every 6 months	1	Feb 2022	<0.06	<0.06	<0.06		20	No	
May-22	Fluorine	(mg/m3)	Every 6 months	1	Feb 2022	5.45	5.45	5.45		30	No	
May-22	Hydrogen chloride	(mg/m3)	Every 6 months	1	Feb 2022	3.06	3.06	3.06		50	No	
May-22	Mercury	(mg/m3)	Every 6 months	1	Feb 2022	0.0007	0.0007	0.0007		0.05	No	
May-22	Nitrogen Oxides	(mg/m3)	Continuous	97.1%	May-22	415	606	766	850	980	No	
May-22	Solid Particles	(mg/m3)	Quarterly	1	Feb 2022	2.8	2.8	2.8		50	No	
May-22	Sulfur dioxide	(mg/m3)	Continuous	97.1%	May-22	506	694	842	1400	1700	No	
May-22	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months	1	Feb 2022	2.4	2.4	2.4		100	No	
May-22	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	Feb 2022	0.13	0.13	0.13		0.75	No	
May-22	VOC's as n-propane equivalent	(mg/m3)	Every 6 months	1	Feb 2022	2.6	2.6	2.6		10	No	

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	51-2" 03/06/202	0 EPA REFERENC	E DOC20/476695 A	ND DOC20/476	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)	Comments
May-22	Cadmium	(mg/m3)	Every 6 months	1	Feb - Mar 2022	<0.0015	<0.0015	< 0.0015		0.2	No	Q3 Stack Gas Testing Report received from consultant 10/6/22
May-22	Chlorine	(mg/m3)	Every 6 months	1	Feb - Mar 2022	<0.22	<0.22	<0.22		20	No	
May-22	Fluorine	(mg/m3)	Every 6 months	1	Feb - Mar 2022	2.56	2.56	2.56		30	No	
May-22	Hydrogen chloride	(mg/m3)	Every 6 months	1	Feb - Mar 2022	3.51	3.51	3.51		50	No	
May-22	Mercury	(mg/m3)	Every 6 months	1	Feb - Mar 2022	<0.0006*	<0.0006*	<0.0006*		0.05	No	*This report (May 2022) was corrected and re-published 2/8/2022
May-22	Nitrogen Oxides	(mg/m3)	Continuous	100.0%	May-22	452	666	820	850	980	No	after it was found that the Mercury result at EPA11 was reported
May-22	Solid Particles	(mg/m3)	Quarterly	1	Feb - Mar 2022	20.0	20.0	20.0		50	No	incorrectly by the laboratory that undertook the analysis (reported
May-22	Sulfur dioxide	(mg/m3)	Continuous	100.0%	May-22	528	676	816	1400	1700	No	in wrong unit of measure). This also affected the TM-38 calculation
May-22	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months	1	Feb - Mar 2022	2.7	2.7	2.7		100	No	for EPA3.
May-22	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	Feb - Mar 2022	0.14	0.14	0.14		0.75	No	
May-22	VOC's as n-propane equivalent	(mg/m3)	Every 6 months	1	Feb - Mar 2022	2.8	2.8	2.8		10	No	

POINT 4	Boiler number 5 exhaust - duct A marked and sho	own as EPA ID 4 on Th	e Plans ("VX837351-1 AND "VX8373	51-2" 03/06/2	020 EPA REFEREN	CE DOC20/476695	5 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
May-22	Cadmium	(mg/m3)	Every 6 months	1	Feb 2022	<0.001	< 0.001	< 0.001				Q3 Stack Gas Testing Report received from consultant 10/6/22
May-22	Carbon dioxide	(%)	Every 6 months	1	Feb 2022	12.2	12.2	12.2				
May-22	Chlorine	(mg/m3)	Every 6 months	1	Feb 2022	< 0.03	<0.03	<0.03				
May-22	Flow rate	(m3/s)	Continuous									
May-22	Fluorine	(mg/m3)	Every 6 months	1	Feb 2022	5.42	5.42	5.42				
May-22	Hydrogen chloride	(mg/m3)	Every 6 months	1	Feb 2022	3.47	3.47	3.47				
May-22	Mercury	(mg/m3)	Every 6 months	1	Feb 2022	0.0006	0.0006	0.0006				See note at end of report regarding installation of continuous
May-22	Moisture	(%)	Continuous									monitoring instrumentation.
May-22	Oxygen (O2)	(%)	Continuous									
May-22	Solid Particles	(mg/m3)	Quarterly	1	Feb 2022	3.8	3.8	3.8				
May-22	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months	1	Feb 2022	2.2	2.2	2.2				
May-22	Temperature	(°C)	Continuous									
May-22	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	Feb 2022	0.062	0.062	0.062				
May-22	VOC's as n-propane equivalent	(mg/m3)	Every 6 months	1	Feb 2022	2.6	2.6	2.6				

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).

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				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
May-22	Cadmium	(mg/m3)	Every 6 months	1	Feb 2022	< 0.0011	< 0.0011	< 0.0011				Q3 Stack Gas Testing Report received from consultant 10/6/22
May-22	Flow rate	(m3/s)	Continuous									
May-22	Mercury	(mg/m3)	Every 6 months	1	Feb 2022	0.0007	0.0007	0.0007				
May-22	Moisture	(%)	Continuous									See note at end of report regarding installation of continuous
May-22	Oxygen (O2)	(%)	Continuous									monitoring instrumentation.
May-22	Solid Particles	(mg/m3)	Quarterly	1	Feb 2022	1.4	1.4	1.4				
May-22	Temperature	(°C)	Continuous									
May-22	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	Feb 2022	0.259	0.259	0.259				

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
May-22	Cadmium	(mg/m3)	Every 6 months	1	Feb 2022	< 0.0016	< 0.0016	< 0.0016				Q3 Stack Gas Testing Report received from consultant 10/6/22
May-22	Carbon dioxide	(%)	Every 6 months	1	Feb 2022	10.6	10.5	10.6				
May-22	Chlorine	(mg/m3)	Every 6 months	1	Feb 2022	<0.12	<0.12	<0.12				
May-22	Flow rate	(m3/s)	Continuous									
May-22	Fluorine	(mg/m3)	Every 6 months	1	Feb 2022	5.49	5.49	5.49				
May-22	Hydrogen chloride	(mg/m3)	Every 6 months	1	Feb 2022	2.37	2.37	2.37				
May-22	Mercury	(mg/m3)	Every 6 months	1	Feb 2022	<0.0008	<0.0008	<0.0008				See note at end of report regarding installation of continuous
May-22	Moisture	(%)	Continuous									monitoring instrumentation.
May-22	Oxygen (O2)	(%)	Continuous									
May-22	Solid Particles	(mg/m3)	Quarterly	1	Feb 2022	1.0	1.0	1.0				
May-22	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months	1	Feb 2022	2.6	2.6	2.6				
May-22	Temperature	(°C)	Continuous									
May-22	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	Feb 2022	0.093	0.093	0.093				
May-22	VOC's as n-propane equivalent	(mg/m3)	Every 6 months	1	Feb 2022	2.6	2.6	2.6				

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
May-22	Cadmium	(mg/m3)	Every 6 months	1	Feb 2022	<0.0011	<0.0011	<0.0011				Q3 Stack Gas Testing Report received from consultant 10/6/22
May-22	Flow rate	(m3/s)	Continuous									
May-22	Mercury	(mg/m3)	Every 6 months	1	Feb 2022	< 0.0007	<0.0007	< 0.0007				
May-22	Moisture	(%)	Continuous									See note at end of report regarding installation of continuous
May-22	Oxygen (O2)	(%)	Continuous									monitoring instrumentation.
May-22	Solid Particles	(mg/m3)	Quarterly	1	Feb 2022	5.5	5.5	5.5				
May-22	Temperature	(°C)	Continuous									
May-22	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	Feb 2022	0.0695	0.0695	0.0695				

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).

				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
May-22	Cadmium	(mg/m3)	Every 6 months	1	Feb - Mar 2022	< 0.0015	<0.0015	< 0.0015				Q3 Stack Gas Testing Report received from consultant 10/6/22
May-22	Carbon dioxide	(%)	Every 6 months	1	Feb - Mar 2022	10.0	10.0	10.0				
May-22	Chlorine	(mg/m3)	Every 6 months	1	Feb - Mar 2022	<0.16	<0.16	<0.16				
May-22	Flow rate	(m3/s)	Continuous									
May-22	Fluorine	(mg/m3)	Every 6 months	1	Feb - Mar 2022	1.54	1.54	1.54				
May-22	Hydrogen chloride	(mg/m3)	Every 6 months	1	Feb - Mar 2022	6.40	6.40	6.40				
May-22	Mercury	(mg/m3)	Every 6 months	1	Feb - Mar 2022	< 0.0007	< 0.0007	< 0.0007				See note at end of report regarding installation of continuous
May-22	Moisture	(%)	Continuous									monitoring instrumentation.
May-22	Oxygen (O2)	(%)	Continuous									
May-22	Solid Particles	(mg/m3)	Quarterly	1	Feb - Mar 2022	3.0	3.0	3.0				
May-22	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months	1	Feb - Mar 2022	3.1	3.1	3.1				
May-22	Temperature	(°C)	Continuous									
May-22	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	Feb - Mar 2022	0.049	0.049	0.049				
May-22	VOC's as n-propane equivalent	(mg/m3)	Every 6 months	1	Feb - Mar 2022	<3.05	<3.05	<3.05				

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).

				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
May-22	Cadmium	(mg/m3)	Every 6 months	1	Feb - Mar 2022	<0.0012	< 0.0012	<0.0012				Q3 Stack Gas Testing Report received from consultant 10/6/22
May-22	Flow rate	(m3/s)	Continuous									
May-22	Mercury	(mg/m3)	Every 6 months	1	Feb - Mar 2022	< 0.0005	<0.0005	< 0.0005				
May-22	Moisture	(%)	Continuous									See note at end of report regarding installation of continuous
May-22	Oxygen (O2)	(%)	Continuous									monitoring instrumentation.
May-22	Solid Particles	(mg/m3)	Quarterly	1	Feb - Mar 2022	2.2	2.2	2.2				
May-22	Temperature	(°C)	Continuous									
May-22	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	Feb - Mar 2022	0.077	0.077	0.077				

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
May-22	Cadmium	(mg/m3)	Every 6 months	1	Feb - Mar 2022	<0.0015	<0.0015	<0.0015				Q3 Stack Gas Testing Report received from consultant 10/6/22
May-22	Carbon dioxide	(%)	Every 6 months	1	Feb - Mar 2022	12.6	12.6	12.6				
May-22	Chlorine	(mg/m3)	Every 6 months	1	Feb - Mar 2022	<0.29	<0.29	<0.29				
May-22	Flow rate	(m3/s)	Continuous									
May-22	Fluorine	(mg/m3)	Every 6 months	1	Feb - Mar 2022	3.48	3.48	3.48				
May-22	Hydrogen chloride	(mg/m3)	Every 6 months	1	Feb - Mar 2022	<0.03	<0.03	<0.03				
May-22	Mercury	(mg/m3)	Every 6 months	1	Feb - Mar 2022	< 0.0006	<0.0006	< 0.0006				See note at end of report regarding installation of continuous
May-22	Moisture	(%)	Continuous									monitoring instrumentation.
May-22	Oxygen (O2)	(%)	Continuous									
May-22	Solid Particles	(mg/m3)	Quarterly	1	Feb - Mar 2022	1.3	1.3	1.3				
May-22	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months	1	Feb - Mar 2022	2.3	2.3	2.3				
May-22	Temperature	(°C)	Continuous									
May-22	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	Feb - Mar 2022	0.0997	0.0997	0.0997				
May-22	VOC's as n-propane equivalent	(mg/m3)	Every 6 months	1	Feb - Mar 2022	<9.43	<9.43	<9.43				

	POINT 11	Boiler number 6 exhaust - duct D marked and show	wn as EPA ID 11 on T	he Plans ("VX837351-1 AND "VX8373	351-2" 03/06/	2020 EPA REFERE	NCE DOC20/47669	95 AND DOC20/4	176695-1).				
					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
Г	May-22	Cadmium	(mg/m3)	Every 6 months	1	Feb - Mar 2022	<0.0017	<0.0017	<0.0017				Q3 Stack Gas Testing Report received from consultant 10/6/22
Г	May-22	Flow rate	(m3/s)	Continuous									
Γ	May-22	Mercury	(mg/m3)	Every 6 months	1	Feb - Mar 2022	<0.0008*	<0.0008*	<0.0008*				*This report (May 2022) was corrected and re-published 2/8/2022
	May-22	Moisture	(%)	Continuous									after it was found that the Mercury result at EPA11 was reported
Γ	May-22	Oxygen (O2)	(%)	Continuous									incorrectly by the laboratory that undertook the analysis (reported
Г	May-22	Solid Particles	(mg/m3)	Quarterly	1	Feb - Mar 2022	75.4	75.4	75.4				in wrong unit of measure). This also affected the TM-38 calculation
Г	May-22	Temperature	(°C)	Continuous									for EPA3.
Г	May-22	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months	1	Feb - Mar 2022	0.296	0.296	0.296				

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
May-22	Nitrogen Oxides	(mg/m3)	Continuous	96.3%	May-22	222	562	730			N/A	
May-22	Sulfur dioxide	(mg/m3)	Continuous	96.1%	May-22	516	661	822			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	
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments
May-22	Nitrogen Oxides	(mg/m3)	Continuous	97.9%	May-22	289	649	865			N/A	
May-22	Sulfur dioxide	(mg/m3)	Continuous	98.1%	May-22	330	727	865			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	Concentration	Concentration	Exceedance	
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments
May-22	Nitrogen Oxides	(mg/m3)	Continuous	100.0%	May-22	464	716	876			N/A	
May-22	Sulfur dioxide	(mg/m3)	Continuous	100.0%	May-22	540	705	855			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 ("VX837	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 Exceedance													
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments		
May-22	Nitrogen Oxides	(mg/m3)	Continuous	100.0%	May-22	428	617	776			N/A			
May-22	Sulfur dioxide	(mg/m3)	Continuous	100.0%	May-22	441	647	793			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	98.5 Percentile Concentration	100 Percentile Concentration	Exceed 100%	
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	Limit (yes/no)	Comments
May-22	Chlorine (free residual)	(mg/L)	Monthly during discharge	1	17/05/2022	<0.1	<0.1	<0.1		0.2	No	
May-22	Copper	(mg/L)	Monthly during discharge	1	17/05/2022	0.003	0.003	0.003		0.005	No	
May-22	Iron	(mg/L)	Monthly during discharge	1	17/05/2022	0.046	0.046	0.046		0.3	No	
May-22	Oil and Grease	Visible	Continuous during discharge	100%	May-22	NIL	NIL	NIL				
May-22	Selenium	(mg/L)	Monthly during discharge	1	17/05/2022	< 0.002	< 0.002	< 0.002		0.005	No	
May-22	Temperature	(°C)	Continuous during discharge	100%	May-22	22.7	27.4	32.2	35	37.5	No	

POINT 23	Discharge of supernatant water from the ash dam	to the cooling wate	r outlet canal to wyee Bay marked ar	nd shown as El	PAID 23 on The P	ans ("VX837351-1	AND "VX837351	1-2" 03/06/2020 E	PA REFERENCE L	OC20/4/6695 Al	ND DOC20/4/6	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
May-22	Aluminium	(mg/L)	Monthly during discharge	1	17/05/2022	0.187	0.187	0.187				
May-22	Ammonia	(mg/L)	Monthly during discharge	1	17/05/2022	0.2	0.2	0.2				
May-22	Arsenic (III)	(mg/L)	Monthly during discharge	1	17/05/2022	< 0.0005	<0.0005	< 0.0005				
May-22	Arsenic (V)	(mg/L)	Monthly during discharge	1	17/05/2022	0.0038	0.0038	0.0038				
May-22	Cadmium	(mg/L)	Monthly during discharge	1	17/05/2022	< 0.00005	<0.00005	< 0.00005				
May-22	Chromium (trivalent)	(mg/L)	Monthly during discharge	1	17/05/2022	0.018	0.018	0.018				
May-22	Chromium (VI) Compounds	(mg/L)	Monthly during discharge	1	17/05/2022	0.035	0.035	0.035				
May-22	Copper	(mg/L)	Monthly during discharge	1	17/05/2022	0.001	0.001	0.001				
May-22	Iron	(mg/L)	Monthly during discharge	1	17/05/2022	0.308	0.308	0.308				
May-22	Lead	(mg/L)	Monthly during discharge	1	17/05/2022	0.0004	0.0004	0.0004				
May-22	Manganese	(mg/L)	Monthly during discharge	1	17/05/2022	0.0124	0.0124	0.0124				
May-22	Nickel	(mg/L)	Monthly during discharge	1	17/05/2022	0.0005	0.0005	0.0005				
May-22	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Monthly during discharge	1	17/05/2022	0.17	0.17	0.17				
May-22	Nitrogen	(mg/L)	Monthly during discharge	1	17/05/2022	0.70	0.70	0.70				
May-22	pH	рН	Monthly during discharge	1	17/05/2022	8.81	8.81	8.81		6.5 - 9.5	No	
May-22	Phosphorus	(mg/L)	Monthly during discharge	1	17/05/2022	0.05	0.05	0.05				
May-22	Reactive Phosphorus	(mg/L)	Monthly during discharge	1	17/05/2022	< 0.01	< 0.01	< 0.01				
May-22	Selenium	(mg/L)	Monthly during discharge	1	17/05/2022	0.0574	0.0574	0.0574				
May-22	Total Kjeldahl Nitrogen	(mg/L)	Monthly during discharge	1	17/05/2022	0.5	0.5	0.5				
May-22	Total Suspended Solids	(mg/L)	Monthly during discharge	1	17/05/2022	16	16	16		50	No	
May-22	Vanadium	(mg/L)	Monthly during discharge	1	17/05/2022	0.066	0.066	0.066				
May-22	Zinc	(mg/L)	Monthly during discharge	1	17/05/2022	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).

PUINT 24	Discharge of seepage water from the ash dam ref	additation area to w	hannering bay marked and shown as i	EPAID 24 OILL	The Plans (VA657	551-1 AND VX657	351-2 05/00/2	LUZU EPA REFERENC	LE DUC20/4/003	5 AND DUC20/42	0095-1).	
				Samples					Discharge	100 Percentile		
				Collected &		Lowest Sample	Mean of	Highest Sample	Discharge	Concentration	Exceedance	
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	(yes/no)	Limit	(yes/no)	Comments
May-22	Aluminium	(mg/L)	Monthly during discharge	1	17/05/2022				No			
May-22	Ammonia	(mg/L)	Monthly during discharge	1	17/05/2022				No			
May-22	Arsenic (III)	(mg/L)	Monthly during discharge	1	17/05/2022				No			
May-22	Arsenic (V)	(mg/L)	Monthly during discharge	1	17/05/2022				No			
May-22	Cadmium	(mg/L)	Monthly during discharge	1	17/05/2022				No			
May-22	Chromium (trivalent)	(mg/L)	Monthly during discharge	1	17/05/2022				No			
May-22	Chromium (VI) Compounds	(mg/L)	Monthly during discharge	1	17/05/2022				No			
May-22	Copper	(mg/L)	Monthly during discharge	1	17/05/2022				No			
May-22	Iron	(mg/L)	Monthly during discharge	1	17/05/2022				No			
May-22	Lead	(mg/L)	Monthly during discharge	1	17/05/2022				No			
May-22	Manganese	(mg/L)	Monthly during discharge	1	17/05/2022				No			
May-22	Nickel	(mg/L)	Monthly during discharge	1	17/05/2022				No			No discharge from EPA Point 24 during May 2022
May-22	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Monthly during discharge	1	17/05/2022				No			
May-22	Nitrogen	(mg/L)	Monthly during discharge	1	17/05/2022				No			
May-22	рН	pН	Monthly during discharge	1	17/05/2022				No	6.5 - 9.5	No	
May-22	Phosphorus	(mg/L)	Monthly during discharge	1	17/05/2022				No			
May-22	Reactive Phosphorus	(mg/L)	Monthly during discharge	1	17/05/2022				No			
May-22	Selenium	(mg/L)	Monthly during discharge	1	17/05/2022				No			
May-22	Total Kjeldahl Nitrogen	(mg/L)	Monthly during discharge	1	17/05/2022				No			
May-22	Total Suspended Solids	(mg/L)	Monthly during discharge	1	17/05/2022				No	50	No	
May-22	Vanadium	(mg/L)	Monthly during discharge	1	17/05/2022				No			
May-22	Zinc	(mg/L)	Monthly during discharge	1	17/05/2022				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					Dischargo	100 Percentile		
				Collected &		Lowest Sample	Mean of	Highest Sample	(ves/ne)	Concentration	Exceedance	
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	(yes/no)	Limit	(yes/no)	Comments
May-22	Aluminium	(mg/L)	Daily for any discharge >2 hrs						No			
May-22	Ammonia	(mg/L)	Daily for any discharge >2 hrs						No			
May-22	Arsenic (III)	(mg/L)	Daily for any discharge >2 hrs						No			
May-22	Arsenic (V)	(mg/L)	Daily for any discharge >2 hrs						No			
May-22	Cadmium	(mg/L)	Daily for any discharge >2 hrs						No			
May-22	Chromium (trivalent)	(mg/L)	Daily for any discharge >2 hrs						No			
May-22	Chromium (VI) Compounds	(mg/L)	Daily for any discharge >2 hrs						No			
May-22	Copper	(mg/L)	Daily for any discharge >2 hrs						No			
May-22	Iron	(mg/L)	Daily for any discharge >2 hrs						No			
May-22	Lead	(mg/L)	Daily for any discharge >2 hrs						No			
May-22	Manganese	(mg/L)	Daily for any discharge >2 hrs						No			No discharge from EPA Point 25 during May 2022
May-22	Nickel	(mg/L)	Daily for any discharge >2 hrs						No			
May-22	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Daily for any discharge >2 hrs						No			
May-22	Nitrogen	(mg/L)	Daily for any discharge >2 hrs						No			
May-22	pH	рН	Daily for any discharge >2 hrs						No	6.5 - 9.5	No	
May-22	Phosphorus	(mg/L)	Daily for any discharge >2 hrs						No			
May-22	Reactive Phosphorus	(mg/L)	Daily for any discharge >2 hrs						No			
May-22	Selenium	(mg/L)	Daily for any discharge >2 hrs						No			
May-22	Total Kjeldahl Nitrogen	(mg/L)	Daily for any discharge >2 hrs						No			
May-22	Total Suspended Solids	(mg/L)	Daily for any discharge >2 hrs						No	50	No	
May-22	Vanadium	(mg/L)	Daily for any discharge >2 hrs						No			
May-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).

PUINT 50	Groundwater quality monitoring bore marked an	u showh as EPA ID Su	On the Plans (VX657551-1 AND V	V021221-5 0:	5/06/2020 EPA RE	FERENCE DUC20/4	+76695 AND DUC	.20/4/0095-1).				
				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
May-22	Aluminium	(mg/L)	Quarterly									
May-22	Ammonia	(mg/L)	Quarterly									
May-22	Arsenic (III)	(mg/L)	Quarterly									
May-22	Arsenic (V)	(mg/L)	Quarterly									
May-22	Cadmium	(mg/L)	Quarterly									
May-22	Chromium (trivalent)	(mg/L)	Quarterly									
May-22	Chromium (VI) Compounds	(mg/L)	Quarterly									
May-22	Copper	(mg/L)	Quarterly									
May-22	Electrical Conductivity	(us/cm)	Quarterly									
May-22	Iron	(mg/L)	Quarterly									
May-22	Lead	(mg/L)	Quarterly									Next sample scheduled for July 2022
May-22	Magnesium	(mg/L)	Quarterly									
May-22	Manganese	(mg/L)	Quarterly									
May-22	Nickel	(mg/L)	Quarterly									
May-22	рН	рН	Quarterly									
May-22	Potassium	(mg/L)	Quarterly									
May-22	Selenium	(mg/L)	Quarterly									
May-22	Sodium	(mg/L)	Quarterly									
May-22	Standing Water Level	(m)	Quarterly									
May-22	Vanadium	(mg/L)	Quarterly									
May-22	Zinc	(mg/L)	Quarterly									

POINT 31	Groundwater quality monitoring bore marked an	d shown as EPA ID 3	I on The Plans ("VX837351-1 AND "V	X83/351-2" U	3/06/2020 EPA RE	FERENCE DOC20/4	476695 AND DOC	.20/4/6695-1).	-	-	-	
				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
May-22	Aluminium	(mg/L)	Quarterly									
May-22	Ammonia	(mg/L)	Quarterly									
May-22	Arsenic (III)	(mg/L)	Quarterly									
May-22	Arsenic (V)	(mg/L)	Quarterly									
May-22	Cadmium	(mg/L)	Quarterly									
May-22	Chromium (trivalent)	(mg/L)	Quarterly									
May-22	Chromium (VI) Compounds	(mg/L)	Quarterly									
May-22	Copper	(mg/L)	Quarterly									
May-22	Electrical Conductivity	(us/cm)	Quarterly									
May-22	Iron	(mg/L)	Quarterly									
May-22	Lead	(mg/L)	Quarterly									Next sample scheduled for July 2022
May-22	Magnesium	(mg/L)	Quarterly									
May-22	Manganese	(mg/L)	Quarterly									
May-22	Nickel	(mg/L)	Quarterly									
May-22	рН	рН	Quarterly									
May-22	Potassium	(mg/L)	Quarterly									
May-22	Selenium	(mg/L)	Quarterly									
May-22	Sodium	(mg/L)	Quarterly									
May-22	Standing Water Level	(m)	Quarterly									
May-22	Vanadium	(mg/L)	Quarterly									
May-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

PUINT 52	Groundwater quality monitoring bore marked an	u showh as EPA ID 52	CONTINE Plans (VA057551-1 AND VA	N03/331-2 U	5/06/2020 EPA RE	FERENCE DUC20/4	76695 AND DOC	.20/4/0095-1).				
				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
May-22	Aluminium	(mg/L)	Quarterly									
May-22	Ammonia	(mg/L)	Quarterly									
May-22	Arsenic (III)	(mg/L)	Quarterly									
May-22	Arsenic (V)	(mg/L)	Quarterly									
May-22	Cadmium	(mg/L)	Quarterly									
May-22	Chromium (trivalent)	(mg/L)	Quarterly									
May-22	Chromium (VI) Compounds	(mg/L)	Quarterly									
May-22	Copper	(mg/L)	Quarterly									
May-22	Electrical Conductivity	(us/cm)	Quarterly									
May-22	Iron	(mg/L)	Quarterly									
May-22	Lead	(mg/L)	Quarterly									Next sample scheduled for July 2022
May-22	Magnesium	(mg/L)	Quarterly									
May-22	Manganese	(mg/L)	Quarterly									
May-22	Nickel	(mg/L)	Quarterly									
May-22	рН	pН	Quarterly									
May-22	Potassium	(mg/L)	Quarterly									
May-22	Selenium	(mg/L)	Quarterly									
May-22	Sodium	(mg/L)	Quarterly									
May-22	Standing Water Level	(m)	Quarterly									
May-22	Vanadium	(mg/L)	Quarterly									
May-22	Zinc	(mg/L)	Quarterly									

POINT 33	Groundwater quality monitoring bore marked an	d shown as EPA ID 33	3 on The Plans ("VX837351-1 AND "V	X837351-2" 0	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	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
May-22	Aluminium	(mg/L)	Quarterly									
May-22	Ammonia	(mg/L)	Quarterly									
May-22	Arsenic (III)	(mg/L)	Quarterly									
May-22	Arsenic (V)	(mg/L)	Quarterly									
May-22	Cadmium	(mg/L)	Quarterly									
May-22	Chromium (trivalent)	(mg/L)	Quarterly									
May-22	Chromium (VI) Compounds	(mg/L)	Quarterly									
May-22	Copper	(mg/L)	Quarterly									
May-22	Electrical Conductivity	(us/cm)	Quarterly									
May-22	Iron	(mg/L)	Quarterly									
May-22	Lead	(mg/L)	Quarterly									Next sample scheduled for July 2022
May-22	Magnesium	(mg/L)	Quarterly									
May-22	Manganese	(mg/L)	Quarterly									
May-22	Nickel	(mg/L)	Quarterly									
May-22	рН	pН	Quarterly									
May-22	Potassium	(mg/L)	Quarterly									
May-22	Selenium	(mg/L)	Quarterly									
May-22	Sodium	(mg/L)	Quarterly									
May-22	Standing Water Level	(m)	Quarterly									
May-22	Vanadium	(mg/L)	Quarterly									
May-22	Zinc	(mg/L)	Quarterly									

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PUINT 54	Groundwater quality monitoring bore marked an	u shown as EPA ID 53	OIT THE Plans (VX857551-1 AND V/	65/551-2 U	5/06/2020 EPA RE	PEREINCE DOC20/4	70095 AND DOC	.20/4/0095-1).	00 Deveetile			
				Samples		Laurant Commun		Webert Counts	99 Percentile	100 Percentile	Free damage	
				Collected &		Lowest Sample	iviean 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
May-22	Aluminium	(mg/L)	Quarterly									
May-22	Ammonia	(mg/L)	Quarterly									
May-22	Arsenic (III)	(mg/L)	Quarterly									
May-22	Arsenic (V)	(mg/L)	Quarterly									
May-22	Cadmium	(mg/L)	Quarterly									
May-22	Chromium (trivalent)	(mg/L)	Quarterly									
May-22	Chromium (VI) Compounds	(mg/L)	Quarterly									
May-22	Copper	(mg/L)	Quarterly									
May-22	Electrical Conductivity	(us/cm)	Quarterly									
May-22	Iron	(mg/L)	Quarterly									
May-22	Lead	(mg/L)	Quarterly									Next sample scheduled for July 2022
May-22	Magnesium	(mg/L)	Quarterly									
May-22	Manganese	(mg/L)	Quarterly									
May-22	Nickel	(mg/L)	Quarterly									
May-22	рН	рН	Quarterly									
May-22	Potassium	(mg/L)	Quarterly									
May-22	Selenium	(mg/L)	Quarterly									
May-22	Sodium	(mg/L)	Quarterly									
May-22	Standing Water Level	(m)	Quarterly									
May-22	Vanadium	(mg/L)	Quarterly									
May-22	Zinc	(mg/L)	Quarterly									

GENERAL COMMENTS
Delta has requested amendment of the required date for installation of continuous monitoring instrumentation (temperature, oxygen, moisture) as permissible under Condition M2.4 of EPL761. Delta has also provided the EPA with a proposal for utilisation of a gas flowrate calculation at monitoring points 4 to 11 as an alternative to in-line instrumentation. Instrument suppliers advise that there are currently no flow instruments capable of accurately measuring gas flowrate at monitoring locations 4 to 11.