Monthly Environmental Monitoring Data Report

EPL Number:	13007
EPL Holder:	EnergyAustralia NSW
EPL Name of Facility:	MOUNT PIPER POWER STATION
EPL Address of Facility:	350 BOULDER RD PORTLAND, NSW 2847
EPL Website link:	Environment & Heritage | POEO Licences, Application and Notice Detail (nsw.gov.au)
EPL Monitoring Locations:	https://www.energyaustralia.com.au/about-us/energy-generation/mt-piper-power-station/mt-piper-epa-reports
EPL Unit of measure abbreviations:	https://www.energyaustralia.com.au/about-us/energy-generation/mt-piper-power-station/mt-piper-epa-reports
EPL Period monitored:	1 – 31 May 2024
Monthly Summary Status:	Complete: monitoring data obtained.

Discharge to water

Table 1 - Water Quality at EPL Point 12

2024	Samples required by EPL (1/mth during discharge)	No. of samples during month	Conductivity (µS/cm)		Oil & Grease (mg/L)		pH		Total Suspended Solids (mg/L)		Turbidity (NTU)		Compliant	Comment
			Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit		
January	1	2	267	500	<5	10	7.65	6.5-8.5	3.3	50	2.07	25	Yes	Flow / Discharge recorded week of 8/01/2024
			351		<5		7.21		6.4		8.76		Yes	Flow / Discharge recorded week of 22/01/2024
February	1	1	281	500	<5	10	7.27	6.5-8.5	2.0	50	3.54	25	Yes	Flow / Discharge recorded week of 5/02/2024
March	1	2	367	500	<5	10	7.59	6.5-8.5	2.0	50	4.57	25	Yes	Flow / Discharge recorded week of 1/03/2024
			353		<5		7.07		7.3		10.6		Yes	Flow / Discharge recorded week of 18/03/2024
April	1	1	253	500	<5	10	7.04	6.5-8.5	11.7	50	16.5	25	Yes	Flow / Discharge recorded week of 8/04/2024
May	1	1	335	500	<5	10	6.94	6.5-8.5	3.3	50	5.97	25	Yes	Flow / Discharge recorded week of 13/05/2024
June				500		10		6.5-8.5		50		25		
July				500		10		6.5-8.5		50		25		
August				500		10		6.5-8.5		50		25		
September				500		10		6.5-8.5		50		25		
October				500		10		6.5-8.5		50		25		
November				500		10		6.5-8.5		50		25		
December				500		10		6.6-8.5		50		25		

Report creation date: 17 June 2024

NR = Not Required, ND = No Data

Air Emissions

Table 2 - Nitrogen Oxides (NO_x) Monitoring at EPL Points 2 and 3

2024	No. of samples required by licence	No. of samples during Month	EPL Point	Lowest sample value (mg/m^3, hourly average)	Mean of sample (mg/m^3)	Highest sample value (mg/m^3, hourly average)	Limit (mg/m^3, hourly average)	99th percentile			Compliant
								Limit (mg/m^3)	87 1-hr averaging periods/yr	1hr averaging periods > limit	
January	Continuous	Continuous	2	275	493	885	1500	1,100	87	0	Yes
			3	228	451	801			87	0	Yes
February	Continuous	Continuous	2	259	501	871	1500	1,100	87	0	Yes
			3	207	482	931			87	0	Yes
March	Continuous	Continuous	2	232	395	856	1500	1,100	87	0	Yes
			3	260	469	1031			87	0	Yes
April	Continuous	Continuous	2	240	467	1103	1500	1,100	86	1	Yes
			3	222	521	1082			87	0	Yes
May	Continuous	Continuous	2	260	563	1011	1500	1,100	86	0	Yes
			3	319	761	1057			87	0	Yes
June	Continuous	Continuous	2				1500	1,100			
			3								
July	Continuous	Continuous	2				1500	1,100			
			3								
August	Continuous	Continuous	2				1500	1,100			
			3								
September	Continuous	Continuous	2				1500	1,100			
			3								
October	Continuous	Continuous	2				1500	1,100			
			3								
November	Continuous	Continuous	2				1500	1,100			
			3								
December	Continuous	Continuous	2				1500	1,100			
			3								

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Table 3 - Sulphur Dioxides (SO_2) Monitoring at EPL Points 2 and 3

2024	No. of samples required by licence	No. of samples during Month	EPL Point	Lowest sample value (mg/m^3, hourly average)	Mean of sample (mg/m^3)	Highest sample value (mg/m^3, hourly average)	Limit (mg/m^3, hourly average)	99th percentile			Compliant
								Limit (mg/m^3)	87 1-hr averaging periods/yr	1hr averaging periods > limit	
January	Continuous	Continuous	2	979	1114	1215	1700	1,400	87	0	Yes
			3	859	1011	1154			87	0	Yes
February	Continuous	Continuous	2	1005	1160	1271	1700	1,400	87	0	Yes
			3	907	1066	1167			87	0	Yes
March	Continuous	Continuous	2	931	1133	1334	1700	1,400	87	0	Yes
			3	830	1071	1294			87	0	Yes
April	Continuous	Continuous	2	890	1181	1306	1700	1,400	87	0	Yes
			3	915	1159	1259			87	0	Yes
May	Continuous	Continuous	2	964	1190	1259	1700	1,400	87	0	Yes
			3	901	1169	1249			87	0	Yes
June	Continuous	Continuous	2				1700	1,400			
			3								
July	Continuous	Continuous	2				1700	1,400			
			3								
August	Continuous	Continuous	2				1700	1,400			
			3								
September	Continuous	Continuous	2				1700	1,400			
			3								
October	Continuous	Continuous	2				1700	1,400			
			3								
November	Continuous	Continuous	2				1700	1,400			
			3								
December	Continuous	Continuous	2				1700	1,400			
			3								

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Table 4 - Oxygen (O2), Temperature & Moisture Monitoring at EPL Points 2 and 3

2024	No. of samples required by licence	No. of samples during Month	EPL Point	Oxygen			Temperature			Moisture		
				Lowest sample value (%, hourly average)	Mean of sample (%)	Highest sample value (%, hourly average)	Lowest sample value (°C, hourly average)	Mean of sample (°C)	Highest sample value (°C, hourly average)	Lowest sample value (H_2O, hourly average)	Mean of sample (H_2O)	Highest sample value (H_2O, hourly average)
January	Continuous	Continuous	2	7.7	9.8	11.6	105	114	126	5.8	7.2	9.5
			3	6.8	8.9	13.4	84	111	124	5.8	7.3	9.8
February	Continuous	Continuous	2	7.7	9.5	13.7	107	117	127	4.7	7.2	9.2
			3	7.1	8.8	12.6	102	114	131	5.0	7.3	9.4
March	Continuous	Continuous	2	7.6	9.9	13.8	104	114	127	3.9	6.6	8.7
			3	7.1	9.6	13.4	100	110	127	4.5	6.7	9.0
April	Continuous	Continuous	2	7.2	8.8	13.3	104	116	128	4.1	6.9	8.6
			3	7.2	9.3	13.4	102	111	122	4.3	6.7	8.5
May	Continuous	Continuous	2	6.8	7.7	10.1	109	123	128	5.8	7.2	8.5
			3	7.1	8.2	11.1	102	115	128	5.4	7.1	8.4
June	Continuous	Continuous	2									
			3									
July	Continuous	Continuous	2									
			3									
August	Continuous	Continuous	2									
			3									
September	Continuous	Continuous	2									
			3									
October	Continuous	Continuous	2									
			3									
November	Continuous	Continuous	2									
			3									
December	Continuous	Continuous	2									
			3									

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Table 5 – Quarterly Stack Emissions Monitoring at EPL Points 2 and 3

2024	No. of samples required by EPL per year	EPL Point	Samples taken (year to date)	Result				Limit	Compliant
				Q1	Q2	Q3	Q4		
Solid Particles (mg/m^3)	4	2	1	1.7	1.7			50	Yes
		3	1	<1	<1				Yes

Table 6 – Six Monthly Stack Emissions Monitoring at EPL Points 2 and 3

2024	No. of samples required by EPL per year	EPL Point	Samples taken (year to date)	Result		Limit	Compliant
				Jan - Jun	Jul - Dec		
Carbon Dioxide (%)	2	2	1	2.6		-	Yes
		3	1	2.5		-	Yes
Cadmium (mg/m^3)	2	2	1	0.0012		0.03	Yes
		3	1	0.00094			Yes
Mercury (mg/m^3)	2	2	1	0.0032		0.03	Yes
		3	1	0.002			Yes
Type 1 and Type 2 substances in aggregate (mg/m^3)	2	2	1	<0.06		0.60	Yes
		3	1	<0.1			Yes
Hydrogen Chloride (mg/m^3)	2	2	1	2.2		50	Yes
		3	1	3			Yes
Fluorine (mg/m^3)	2	2	1	11		30	Yes
		3	1	11			Yes
Chlorine (mg/m^3)	2	2	1	<0.02		4	Yes
		3	1	<0.03			Yes
Sulfuric Acid Mist and Sulfur Trioxide as SO^3 (mg/m^3)	2	2	1	2.1		100	Yes
		3	1	3.3			Yes
Volatile Organic Compounds as n-propane equivalent (mg/m^3)	2	2	1	0.23		8	Yes
		3	1	0.31			Yes

*TBC = To Be Confirmed (Sample has been collected, not yet received by EA at the time of publishing this report). ed