

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: <https://apps.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=194327&SYSUID=1&LICID=13007>
 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 December 2022
 Monthly Summary Status: Complete: monitoring data obtained

Discharge to water

Table 1 - Water Quality at EPL Point 12

2022	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	0	0	NR	500	NR	10	NR	6.5-8.5	NR	50	NR	25	Yes	Not sampled due to no flow / no discharge.
February	0	0	NR	500	NR	10	NR	6.5-8.5	NR	50	NR	25	Yes	Not sampled due to no flow / no discharge.
March	0	0	NR	500	NR	10	NR	6.5-8.5	NR	50	NR	25	Yes	Not sampled due to >56mm rainfall received.
April	0	0	NR	500	NR	10	NR	6.5-8.5	NR	50	NR	25	Yes	Not sampled due to no flow / no discharge.
May	0	0	NR	500	NR	10	NR	6.5-8.5	NR	50	NR	25	Yes	Not sampled due to no flow / no discharge.
June	1	1	216	500	<5	10	7.4	6.5-8.5	8.0	50	10.4	25	Yes	Flow / Discharge recorded week of 27/06/2022
July	1	1	216	500	<5	10	7.7	6.5-8.5	11.7	50	6.9	25	Yes	Flow / Discharge recorded week of 27/06/2022
August	1	3	208	500	<5	10	7.5	6.5-8.5	5.6	50	9.6	25	Yes	Flow / Discharge recorded week of 8/08/2022
			127	500	<5	10	7.3	6.5-8.5	5.0	50	11.0	25	Yes	Flow / Discharge recorded week of 15/08/2022
			266	500	<5	10	7.7	6.5-8.5	8.3	50	12.8	25	Yes	Flow / Discharge recorded week of 29/08/2022
September	1	2	178	500	<5	10	7.4	6.5-8.5	5.7	50	10.2	25	Yes	Flow / Discharge recorded week of 12/09/2022
			207	500	<5	10	7.5	6.5-8.5	7.7	50	10.2	25	Yes	Flow / Discharge recorded week of 26/09/2022
October	1	1	190	500	<5	10	7.6	6.5-8.5	8.2	50	7.4	25	Yes	Flow / Discharge recorded weeks of 3,10 & 21/10/2022
November	1	1	146	500	<5	10	7.9	6.5-8.5	12	50	9.8	25	Yes	Flow / Discharge recorded week of 14/11/2022
December	0	0	NR	500	NR	10	NR	6.5-8.5	NR	50	NR	25	Yes	Not sampled due to no flow / no discharge.

Table 2 - Water Quality at EPL Point 26

2022	Samples required by EPL (Weekly 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		
November	3	3	486	600	<5	10	7.35	6.5-8.5	<5	50	0.4	25	Yes	Flow / Discharge recorded week of 14/11/22
			497	600	<5	10	7.70	6.5-8.5	<5	50	0.5	25	Yes	Flow / Discharge recorded week of 21/11/22
			477	600	<5	10	8.02	6.5-8.5	<5	50	0.6	25	Yes	Flow / Discharge recorded week of 28/11/22
December	1	1	448	600	<5	10	8.16	6.5-8.5	<5	50	0.3	25	Yes	Flow / Discharge recorded week of 5/12/22

Air Emissions

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

2022	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)	99 th percentile			Compliant
								Limit (mg/m ³)	87 1-hr averaging periods/yr	1hr averaging periods > limit	
January	Continuous	Continuous	2	237	530	1044	1500	1,100	87	0	Yes
			3	225	462	1011			87	0	Yes
February	Continuous	Continuous	2	306	681	1021	1500	1,100	87	0	Yes
			3	234	539	1132			85	2	Yes
March	Continuous	Continuous	2	338	716	946	1500	1,100	87	0	Yes
			3	NR (Outage)	NR (Outage)	NR (Outage)			85	0	Yes
April	Continuous	Continuous	2	241	702	1066	1500	1,100	87	0	Yes
			3	NR (Outage)	NR (Outage)	NR (Outage)			85	0	Yes
May	Continuous	Continuous	2	453	755	1121	1500	1,100	86	1	Yes
			3	327	433	548			85	0	Yes
June	Continuous	Continuous	2	258	680	1088	1500	1,100	86	0	Yes
			3	337	686	1087			85	0	Yes
July	Continuous	Continuous	2	292	789	1133	1500	1,100	84	2	Yes
			3	286	684	797			85	0	Yes
August	Continuous	Continuous	2	202	666	918	1500	1,100	84	0	Yes
			3	251	607	1097			85	0	Yes
September	Continuous	Continuous	2	226	615	970	1500	1,100	84	0	Yes
			3	265	616	1103			84	1	Yes
October	Continuous	Continuous	2	218	574	1193	1500	1,100	83	1	Yes
			3	277	612	1104			83	1	Yes
November	Continuous	Continuous	2	388	865	1100	1500	1,100	82	1	Yes
			3	ND*	ND*	ND*			83	0	ND*
December	Continuous	Continuous	2	469	764	1030	1500	1,100	82	0	Yes
			3	340	784	1119			81	2	Yes

*No data recorded due to unit outage and instrument fault

Table 4 - Sulphur Dioxides (SO₂) Monitoring at EPL Points 2 and 3

2022	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)	99 th percentile			Compliant
								Limit (mg/m ³)	87 1-hr averaging periods/yr	1hr averaging periods > limit	
January	Continuous	Continuous	2	1110	1188	1377	1700	1,400	87	0	Yes
			3	1086	1252	1321			87	0	Yes
February	Continuous	Continuous	2	1038	1202	1402	1700	1,400	85	2	Yes
			3	1091	1270	1345			87	0	Yes
March	Continuous	Continuous	2	1091	1194	1331	1700	1,400	85	0	Yes
			3	NR (Outage)	NR (Outage)	NR (Outage)			87	0	Yes
April	Continuous	Continuous	2	1187	1313	1386	1700	1,400	85	0	Yes
			3	NR (Outage)	NE (Outage)	NR (Outage)			87	0	Yes
May	Continuous	Continuous	2	1197	1304	1393	1700	1,400	85	0	Yes
			3	1305	1363	1399			87	0	Yes
June	Continuous	Continuous	2	1190	1289	1372	1700	1,400	85	0	Yes
			3	1056	1327	1398			87	0	Yes
July	Continuous	Continuous	2	1082	1231	1320	1700	1,400	85	0	Yes
			3	1083	1227	1300			87	0	Yes
August	Continuous	Continuous	2	1116	1248	1336	1700	1,400	85	0	Yes
			3	1089	1243	1309			87	0	Yes
September	Continuous	Continuous	2	922	1219	1346	1700	1,400	85	0	Yes
			3	1085	1201	1305			87	0	Yes
October	Continuous	Continuous	2	885	1190	1389	1700	1,400	85	0	Yes
			3	1085	1178	1347			87	0	Yes
November	Continuous	Continuous	2	988	1187	1371	1700	1,400	85	0	Yes
			3	1034	1171	1296			87	0	Yes
December	Continuous	Continuous	2	978	1147	1186	1700	1,400	85	0	Yes
			3	1002	1178	1274			87	0	Yes

Table 5 - Oxygen (O2), Temperature & Moisture Monitoring at EPL Points 2 and 3

2022	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 ₂ O, hourly average)	Mean of sample (H ₂ O)	Highest sample value (H ₂ O, hourly average)
January	Continuous	Continuous	2	7.6	9.6	11.5	83	113	131	5.9	7.3	9.2
			3	8.4	10.7	13.4	83	113	134	5.6	7.1	8.9
February	Continuous	Continuous	2	7.5	9.5	12.1	89	115	130	5.6	7.1	9.1
			3	8.5	10.5	13	102	115	133	5.5	6.9	8.7
March	Continuous	Continuous	2	7.7	9.1	11	103	117	131	5.9	7.3	9.2
			3	NR (Outage)								
April	Continuous	Continuous	2	7.6	8.3	11.3	104	123	130	5.6	7.1	8.6
			3	NR (Outage)								
May	Continuous	Continuous	2	7.7	8.2	10.5	106	123	131	5.9	7.3	8.7
			3	8.5	9.8	12.0	70	106	117	6.2	7.0	9.7
June	Continuous	Continuous	2	7.7	9.1	11.4	94	117	129	5.3	6.6	8.0
			3	7.6	9.0	12.3	69	115	129	4.8	6.9	8.1
July	Continuous	Continuous	2	7.8	8.3	10.8	102	122	130	5.4	6.9	7.9
			3	7.3	8.1	10.4	104	122	130	5.5	7.1	8.0
August	Continuous	Continuous	2	7.7	9.0	12.0	95	117	129	4.9	6.6	7.7
			3	7.3	9.0	12.0	70	114	126	5.1	6.7	8.1
September	Continuous	Continuous	2	7.7	9.8	12.2	92	110	127	4.9	6.5	7.8
			3	7.2	9.4	11.7	94	108	123	5.1	6.7	8.4
October	Continuous	Continuous	2	7.8	10.4	15.1	76	109	127	3.8	6.5	8.4
			3	7.7	9.6	11.7	89	108	123	5.5	7.1	8.7
November	Continuous	Continuous	2	8.4	11.0	15.0	87	112	123	3.3	6.1	8.4
			3	7.8	9.7	12.8	74	110	123	4.7	6.6	8.6
December	Continuous	Continuous	2	10.6	11.3	12.3	101	108	112	5.2	6.1	6.8
			3	7.5	10.8	15.0	77	110	128	3.6	6.3	8.8

Table 6 - Stack Emissions Monitoring at EPL Points 2 and 3

2022	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	4	3.5	51	4.8	6.2	50	No						
		3	4	2.8	3.8	1.5	2.2		Yes						
Carbon Dioxide (%)	2	2	2	9.5	NR	NR	9.1	-	Yes						
		3	2	9.8			10.1	-	Yes						
Cadmium (mg/m ³)	2	2	2	<0.0003	NR	NR	NR	0.2	Yes						
		3	2	<0.0003					Yes						
Mercury (mg/m ³)	2	2	2	0.0019				NR	NR	NR	0.05	Yes			
		3	2	0.0022								Yes			
Type 1 and Type 2 substances in aggregate (mg/m ³)	2	2	2	<0.02							NR	NR	NR	0.75	Yes
		3	2	<0.02											Yes
Hydrogen Chloride (mg/m ³)	2	2	2	NR	0.95	NR	0.3	50	Yes						
		3	2	1.7	NR	1.5	NR		Yes						
Fluorine (mg/m ³)	2	2	2	NR	7.9	NR	2	30	Yes						
		3	2	8	NR	14	NR		Yes						
Chlorine (mg/m ³)	2	2	2	NR	<0.008	NR	<0.03	20	Yes						
		3	2	<0.01	NR	<0.02	NR		Yes						
Sulfuric Acid Mist and Sulfur Trioxide as SO ₃ (mg/m ³)	2	2	2	NR	2.3	NR	15	100	Yes						
		3	2	4.3	NR	3.5	NR		Yes						
Volatile Organic Compounds as n-propane equivalent (mg/m ³)	2	2	2	NR	<0.08	NR	<0.05	10	Yes						
		3	2	0.28	NR	0.61	NR		Yes						