

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 October 2021
 Monthly Summary Status: Complete: all monitoring data obtained

Discharge to water

Table 1 - Water Quality at EPL Point 12

2021	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	1	317	500	<5	10	7.89	6.5-8.5	6.4	50	7.34	25	Yes	Flow / Discharge recorded week of 11/01/2021
February	1	1	353	500	<5	10	7.68	6.5-8.5	10.6	50	12.6	25	Yes	Flow / Discharge recorded week of 7/02/2021
March	1	1	426	500	<5	10	7.97	6.5-8.5	6.4	50	9.34	25	Yes	Flow / Discharge recorded week of 7/03/2021
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	0	0	NR	500	NR	10	NR	6.5-8.5	NR	50	NR	25	Yes	Not sampled due to no flow / no discharge
July	1	1	414	500	<5	10	7.61	6.5-8.5	11.2	50	15.9	25	Yes	Flow / Discharge recorded week of 26/07/2021
August	0	0	NR	500	NR	10	NR	6.5-8.5	NR	50	NR	25	Yes	Not sampled due to no flow / no discharge
September	1	0	ND	500	ND	10	ND	6.5-8.5	ND	50	ND	25	No	No data available as per Coal Settling Pond discharge event, EPA ref # 5485, and EPL13007 condition R4 Report under EPL13007
October	0	0	NR	500	NR	10	NR	6.5-8.5	NR	50	NR	25	Yes	Not sampled due to no flow / no discharge
November				500		10		6.5-8.5		50		25		
December				500		10		6.5-8.5		50		25		

Air Emissions

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

2021	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)	1-hr averaging periods/yr	1hr averaging periods > limit	
January	Continuous	Continuous	2	280	734	995	1500	1,100	88	0	Yes
			3	190	465	1046				0	Yes
February	Continuous	Continuous	2	247	675	991	1500	1,100	88	0	Yes
			3	245	703	1060				0	Yes
March	Continuous	Continuous	2	283	665	943	1500	1,100	88	0	Yes
			3	196	635	928				0	Yes
April	Continuous	Continuous	2	245	741	936	1500	1,100	88	0	Yes
			3	178	618	828				0	Yes
May	Continuous	Continuous	2	282	745	1048	1500	1,100	88	0	Yes
			3	183	637	943				0	Yes
June	Continuous	Continuous	2	488	732	1006	1500	1,100	88	0	Yes
			3	442	757	1118				2	Yes
July	Continuous	Continuous	2	253	601	978	1500	1,100	88	0	Yes
			3	313	689	1081				0	Yes
August	Continuous	Continuous	2	230	590	1020	1500	1,100	88	0	Yes
			3	250	587	1133				1	Yes
September	Continuous	Continuous	2	243	499	1057	1500	1,100	88	0	Yes
			3	248	535	995				0	Yes
October	Continuous	Continuous	2	264	488	904	1500	1,100	88	0	Yes
			3	232	490	856				0	Yes
November	Continuous	Continuous	2				1500	1,100	88		
			3								
December	Continuous	Continuous	2				1500	1,100	88		
			3								

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

2021	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)	1-hr averaging periods/yr	1hr averaging periods > limit	
January	Continuous	Continuous	2	1068	1226	1381	1700	1,400	88	3	Yes
			3	1166	1291	1417				0	
February	Continuous	Continuous	2	1082	1212	1322	1700	1,400	88	0	Yes
			3	1062	1239	1352				0	
March	Continuous	Continuous	2	1083	1224	1336	1700	1,400	88	0	Yes
			3	1016	1211	1327				0	
April	Continuous	Continuous	2	1055	1205	1305	1700	1,400	88	0	Yes
			3	1001	1194	1312				0	
May	Continuous	Continuous	2	1057	1187	1288	1700	1,400	88	0	Yes
			3	906	1159	1297				0	
June	Continuous	Continuous	2	1028	1187	1256	1700	1,400	88	0	Yes
			3	1050	1195	1256				0	
July	Continuous	Continuous	2	1010	1196	1326	1700	1,400	88	0	Yes
			3	1124	1218	1311				0	
August	Continuous	Continuous	2	1006	1132	1240	1700	1,400	88	0	Yes
			3	955	1166	1247				0	
September	Continuous	Continuous	2	1043	1158	1231	1700	1,400	88	0	Yes
			3	1033	1166	1416				1	
October	Continuous	Continuous	2	1045	1158	1262	1700	1,400	88	0	Yes
			3	1046	1181	1285				0	
November	Continuous	Continuous	2				1700	1,400	88		
			3								
December	Continuous	Continuous	2				1700	1,400	88		
			3								

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

2021	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	6.6	7.6	10.1	88	123	131	5.5	6.7	9.1
			3	7.6	9.2	12.6	92	117	134	4.7	6.2	7.7
February	Continuous	Continuous	2	6.9	8.0	15.2	89	121	133	5.3	6.8	8.2
			3	7.3	8.4	10.3	107	122	134	5.4	6.5	7.7
March	Continuous	Continuous	2	7.1	8.1	10.1	105	119	132	5.3	6.7	7.8
			3	7.1	8.3	11.2	105	121	133	4.8	6.3	7.0
April	Continuous	Continuous	2	7.1	8.0	10.7	103	120	131	5.3	6.5	7.7
			3	6.9	8.2	10.0	107	120	132	5.0	6.1	7.5
May	Continuous	Continuous	2	7.0	7.9	9.9	100	120	131	5.3	6.5	7.7
			3	6.9	8.1	12.1	104	119	130	4.1	6.0	7.2
June	Continuous	Continuous	2	6.9	7.5	9.5	106	121	129	5.9	7.3	8.2
			3	7.2	7.9	11.7	64	121	131	5.4	7.2	8.0
July	Continuous	Continuous	2	6.8	7.7	12.2	64	118	128	5.4	7.1	8.1
			3	7.3	8.2	10.9	88	120	129	5.3	7.2	8.2
August	Continuous	Continuous	2	6.9	8.9	10.5	95	113	129	5.3	6.4	8.3
			3	7.7	9.9	12.1	102	115	130	5.1	6.3	8.2
September	Continuous	Continuous	2	7.2	9.4	11.2	69	112	129	5.2	6.3	8.1
			3	7.9	10.7	12.4	82	111	129	4.9	6.1	8.0
October	Continuous	Continuous	2	7.3	9.3	11.7	101	113	129	5.1	6.6	8.3
			3	7.8	9.5	13.0	61	112	132	4.8	6.5	8.0
November	Continuous	Continuous	2									
			3									
December	Continuous	Continuous	2									
			3									

Table 5 - Stack Emissions Monitoring at EPL Points 2 and 3

2021	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	3	16	16	4.5		50	Yes
		3	3	12	120	9			No
Carbon Dioxide (%)	2	2	2	10.5	NR	9.0	NR		Yes
		3	2	10.3		7.0			Yes
Cadmium (mg/m ³)	2	2	2	<0.0002		<0.0005		0.2	Yes
		3	2	<0.0003		<0.0003			Yes
Mercury (mg/m ³)	2	2	2	0.00095		0.0016		20	Yes
		3	2	0.00089		0.00083			Yes
Type 1 and Type 2 substances in aggregate (mg/m ³)	2	2	2	<0.02		<0.02		30	Yes
		3	2	<0.02		<0.03			Yes
Hydrogen Chloride (mg/m ³)	2	2	1	1.5		NR		50	Yes
		3	2	0.98		1.8			NR
Fluorine (mg/m ³)	2	2	1	12	NR	0.05	Yes		
		3	2	7.8	8.6		NR	Yes	
Chlorine (mg/m ³)	2	2	1	<0.006	NR	100	Yes		
		3	2	<0.007	<0.008		NR	Yes	
Sulfuric Acid Mist and Sulfur Trioxide as SO ₃ (mg/m ³)	2	2	1	NR	4.2	NR	0.75	Yes	
		3	2	8.1	NR	1.1		NR	Yes
Volatile Organic Compounds as n-propane equivalent (mg/m ³)	2	2	1	<0.1	NR	NR	10	Yes	
		3	2	<0.1		0.34		NR	Yes