

## **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: <a href="https://www.energyaustralia.com.au/about-us/energy-generation/mt-piper-power-station/mt-piper-epa-reports">https://www.energyaustralia.com.au/about-us/energy-generation/mt-piper-power-station/mt-piper-epa-reports</a>
<a href="https://www.energyaustralia.com.au/about-us/energy-generation/mt-piper-power-station/mt-piper-epa-reports">https://www.energyaustralia.com.au/about-us/energy-generation/mt-piper-power-station/mt-piper-epa-reports</a>

EPL Period monitored: 1 – 31 December 2021

Monthly Summary Status: Complete: all monitoring data obtained

## **Discharge to water**

Report creation date: 13 January 2022

## Table 1 - Water Quality at EPL Point 12

Sample require by EPL		No. of samples	Condu (μS/	•	Oil & Grease (mg/l)		рН		Total Suspended Solids (mg/l)		Turbidity (NTU)		Compliant	Comment
2021	(1/mth during discharge)	during month	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Compilant	Comment
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	1	1	249	500	5	10	7.67	6.5-8.5	8.4	50	17.1	25	Yes	Flow/Discharge recorded week of 22/11/2021
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



## **Air Emissions**

Table 2 - Nitrogen Oxides (NO $_{x}$ ) Monitoring at EPL Points 2 and 3

No. of samples required by licence							Limit (mg/m ,	99 <sup>th</sup> percentile			
		No. of samples during Month	EPL Point	Lowest sample value (mg/m³, hourly average)	(mg/m ) Mean of sample	Highest sample value (mg/m³, hourly average)	hourly average)	Limit (mg/m³)	1-hr averaging periods/yr	1hr averaging periods > limit	Compliant
lanuany	Continuous	Continuous	2	280	734	995	1500	1,100	88	0	Yes
January	Continuous	Continuous	3	190	465	1046	1300	1,100	00	0	Yes
February	Continuous	Continuous	2	247	675	991	1500	1,100	88	0	Yes
rebruary	Continuous	Continuous	3	245	703	1060	1300	1,100	00	0	Yes
March	Continuous	Continuous	2	283	665	943	1500	1,100	88	0	Yes
With Cit	Continuous	Continuous	3	196	635	928	1500	1,100	00	0	Yes
April	Continuous	Continuous	2	245	741	936	1500	1,100	88	0	Yes
, ,,,,,,,,	00	Continuous	3	178	618	828	1300	2,200		0	Yes
May	Continuous	Continuous	2	282	745	1048	1500	1,100	88	0	Yes
Iviay	Continuous		3	183	637	943	1500	1,100		0	Yes
lune	June Continuous	Continuous	2	488	732	1006	1500	1,100	88	0	Yes
June			3	442	757	1118	1500	1,100	00	2	Yes
Luke	July Continuous	Continuous	2	253	601	978	1500	1,100	88	0	Yes
July			3	313	689	1081	1300	1,100	00	0	Yes
			2	230	590	1020	1500	4 400	00	0	Yes
August	Continuous	Continuous	3	250	587	1133	1500	1,100	88	1	Yes
			2	243	499	1057				0	Yes
September	Continuous	Continuous	3	248	535	995	1500	1,100	88	0	Yes
			2	264	488	904				0	Yes
October Continuous	Continuous	3	232	490	856	1500	1,100	88	0	Yes	
November	Continuous	Continuous	2	241	512	1007	1500	1,100	88	0	Yes
Movember	Continuous		3	293	605	1064	1300	1,100	00	0	Yes
Decemb	Continue	Caraliana	2	242	414	1072	4500	1 100	00	0	Yes
December	Continuous	Continuous	3	249	366	911	1500	1,100	88	0	Yes



Table 3 - Sulphur Dioxides (SO<sub>2</sub>) Monitoring at EPL Points 2 and 3

Samples required by licence   Samples during licence   Samples required by licence   Samples required by licence   Samples during licence   Samp	No of				1		III ah aat aa aa ala	1		99 <sup>th</sup> percentile		
September   Continuous   Cont	2021 samples required by	required by	during		(mg/m³, hourly	(sagyale)	(mg/m³, hourly	hourly		averaging	averaging periods	Compliant
February   Continuous   Conti	lanuany	Continuous	Continuous	2	1068	1226	1381	1700	1.400	88	3	Yes
February   Continuous   Conti	January	Continuous	Continuous	3	1166	1291	1417	1700	1,400	00	0	Yes
March   Continuous   Continuo	February	Continuous	Continuous	2	1082	1212	1322	1700	1.400	88	0	Yes
March         Continuous         Continuous         3         1016         1211         1327         1700         1,400         88         0           April         Continuous         Continuous         2         1055         1205         1305         1700         1,400         88         0           May         Continuous         Continuous         2         1057         1187         1288         1700         1,400         88         0           June         Continuous         Continuous         2         1028         1187         1256         1700         1,400         88         0           July         Continuous         Continuous         2         1010         1195         1256         1700         1,400         88         0           August         Continuous         Continuous         2         1010         1196         1326         1700         1,400         88         0           September         Continuous         Continuous         2         1006         1132         1240         1700         1,400         88         0           September         Continuous         Continuous         2         1043         1158         1231 <td>rebruary</td> <td>Continuous</td> <td>Continuous</td> <td>3</td> <td>1062</td> <td>1239</td> <td>1352</td> <td>1700</td> <td>1,400</td> <td>00</td> <td>0</td> <td>Yes</td>	rebruary	Continuous	Continuous	3	1062	1239	1352	1700	1,400	00	0	Yes
April   Continuous   Continuo	March	Continuous	Continuous	2	1083	1224	1336	1700	1 400	00	0	Yes
April   Continuous   Continuous   Continuous   3   1001   1194   1312   1700   1,400   88   0	March	Continuous	Continuous	3	1016	1211	1327	1700	1,400	00	0	Yes
May   Continuous   Continuous	A1	Cartina		2	1055	1205	1305	1700	1,400	00	0	Yes
May         Continuous         Continuous <td>Aprii</td> <td>oril Continuous Con</td> <td>Continuous</td> <td>3</td> <td>1001</td> <td>1194</td> <td>1312</td> <td>88</td> <td>0</td> <td>Yes</td>	Aprii	oril Continuous Con	Continuous	3	1001	1194	1312			88	0	Yes
June   Continuous   Continuou	May Continuous	Continuous	2	1057	1187	1288	1700	1,400	00	0	Yes	
June   Continuous   Continuous   3   1050   1195   1256   1700   1,400   88   0			3	906	1159	1297			88	0	Yes	
September   Continuous   Cont	June Continuous	Continuous	2	1028	1187	1256	1700	4.400	00	0	Yes	
July         Continuous         Continuous <td>3</td> <td>1050</td> <td>1195</td> <td>1256</td> <td>1,400</td> <td>88</td> <td>0</td> <td>Yes</td>			3	1050	1195	1256		1,400	88	0	Yes	
August   Continuous   Continu		0 .:		2	1010	1196	1326	1700	4 400	-00	0	Yes
August         Continuous         Continuous         3         955         1166         1247         1700         1,400         88         0           September         Continuous         Continuous         2         1043         1158         1231         1700         1,400         88         0           October         Continuous         Continuous         2         1045         1158         1262         1700         1,400         88	July	Continuous	Continuous	3	1124	1218	1311		1,400	88	0	Yes
September   Continuous   Cont			Continuous	2	1006	1132	1240		4.400	-00	0	Yes
September         Continuous         Continuous         Continuous         1700         1,400         88         1           October         Continuous         Continuous         2         1045         1158         1262         1700         1,400         88	August	Continuous		3	955	1166	1247	1/00	1,400	88	0	Yes
3   1033   1166   1416			Continuous	2	1043	1158	1231				0	Yes
October Continuous Continuous 1700 1,400 88	September Continuous	Continuous		3	1033	1166	1416	1700	1,400	88	1	Yes
	October Continuous			2	1045	1158	1262				0	Yes
1 101 1205		Continuous	Continuous	3	1046	1181	1285	1700	1,400	88	0	Yes
		0 .:	Continuous	2	1047	1149	1269				0	Yes
	November Continuous	Continuous		3	1121	1177	1235	1700	1,400	88	0	Yes
		0 .:		2	1019	1184	1371	1700	4 400		0	Yes
December   Continuous   Continuous   3   1176   1223   1351   1700   1,400   88   0	December	Continuous	Continuous	3	1176	1223	1351	1700	1,400	88	0	Yes



Table 4 – Oxygen (O<sub>2</sub>), Temperature & Moisture Monitoring at EPL Points 2 and 3

					Oxygen			Temperature	2	Moisture			
2021	No. of samples required by licence	No. of samples during Month	EPL Point	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 <sub>2</sub> O, hourly average)	Mean of sample (H <sub>2</sub> O)	Highest sample value (H <sub>2</sub> O, hourly average)	
lanuany	Continuous	Continuous	2	6.6	7.6	10.1	88	123	131	5.5	6.7	9.1	
January	Continuous	Continuous	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	
rebruary	Continuous	Continuous	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	
IVIAICII	Continuous	Continuous	3	7.1	8.3	11.2	105	121	133	4.8	6.3	7.0	
A!	Cantinuana	Continuous	2	7.1	8.0	10.7	103	120	131	5.3	6.5	7.7	
April	Continuous		3	6.9	8.2	10.0	107	120	132	5.0	6.1	7.5	
	Cartiana	Continuous	2	7.0	7.9	9.9	100	120	131	5.3	6.5	7.7	
May Continuous	Continuous		3	6.9	8.1	12.1	104	119	130	4.1	6.0	7.2	
June Continuous		61	2	6.9	7.5	9.5	106	121	129	5.9	7.3	8.2	
	Continuous	3	7.2	7.9	11.7	64	121	131	5.4	7.2	8.0		
	0 ::	Cantinuana	2	6.8	7.7	12.2	64	118	128	5.4	7.1	8.1	
July	Continuous	Continuous	3	7.3	8.2	10.9	88	120	129	5.3	7.2	8.2	
		Continuous	2	6.9	8.9	10.5	95	113	129	5.3	6.4	8.3	
August	Continuous		3	7.7	9.9	12.1	102	115	130	5.1	6.3	8.2	
		Continuous	2	7.2	9.4	11.2	69	112	129	5.2	6.3	8.1	
September Continuou	Continuous		3	7.9	10.7	12.4	82	111	129	4.9	6.1	8.0	
October Continuou	<b>.</b> .:		2	7.3	9.3	11.7	101	113	129	5.1	6.6	8.3	
	Continuous	Continuous	3	7.8	9.5	13.0	61	112	132	4.8	6.5	8.0	
_			2	7.2	9.4	12.1	81	112	130	5.5	6.8	8.9	
November	Continuous	Continuous	3	7.9	9.4	11.9	106	118	133	5.8	6.8	8.2	
			2	7.6	10.2	12.2	77	108	131	5.5	6.7	8.9	
December	Continuous	Continuous	3	8.4	11.1	13.6	95	108	126	5.0	6.4	8.2	



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

	No. of samples	EPL	Samples taken		Resu	lt			
2021	required by EPL per year	Point	(year to date)	Q1	Q2	Q3	Q4	Limit	Compliant
Solid Particles (mg/m³)	4	2	4	16	16	4.5	18	50	Yes
Solid Particles (mg/m²)	4	3	4	12	120	9	3.2	50	No
Carbon Dioxide (%)	2	2	2	10.5		9.0		-	Yes
Carbon Dioxide (%)	2	3	2	10.3		7.0		-	Yes
Cadmium (mg/m³)	2	2	2	<0.0002		<0.0005	NR	0.2	Yes
Caumum (mg/m²)	2	3	2	<0.0003	NR	<0.0003		0.2	Yes
Mercury (mg/m³)	2	2	2	0.00095		0.0016		0.05	Yes
iviercury (mg/m/)	2	3	2	0.00089		0.00083		0.05	Yes
Type 1 and Type 2 substances in	2	2	2	<0.02		<0.02		0.75	Yes
aggregate (mg/m³)	2	3	2	<0.02		<0.03			Yes
Hydrogen Chloride (mg/m³)	2	2	2	1.5		NR	0.12	50	Yes
Hydrogen Chloride (Hig/Hi <sup>+</sup> )	2	3	2	0.98		1.8	NR	30	Yes
Fluorine (mg/m³)	2	2	2	12		NR	1.2	30	Yes
ridornie (mg/m²)	2	3	2	7.8		8.6	NR		Yes
Chlorine (mg/m³)	2	2	2	<0.006		NR	0.034	20	Yes
Chilorine (mg/m/)	2	3	2	<0.007		<0.008	NR		Yes
Sulfuric Acid Mist and Sulfur Trioxide	2	2	2	NR	4.2	NR	5.3	100	Yes
as SO <sup>3</sup> (mg/m <sup>3</sup> )	2	3	2	8.1		1.1	NR <0.05	100	Yes
Volatile Organic Compounds as n-	2	2	2	<0.1	NR	NR		10	Yes
propane equivalent (mg/m³)	2	3	2	<0.1		0.34	NR	10	Yes