

Appin Power Station
Licence Number: 5482
Licence Holder: EDL CSM (NSW) PTY LTD
Licencee Address: Appin Coal Seam Methane Power Station
Northhampton Dale Road Appin NSW 2560



Month: FY 2020-21

Frequency: Continuous monitoring for ambient NOx, O3 (taken off site) and point source NO3 air emissions;
Spot sampling weekly during discharge for First Flush pH and, visible oil and grease (O&G);
Spot sampling monthly for Process Water Effluent pH and oil and grease (O&G);
Spot sampling monthly for Septic Effluent biological oxygen demand (BOD), fecal coliforms (FC), O&G, total nitrogen (TN), TDS,
total phosphorus (TP).

Month	Location of monitoring point	Sampled	Obtained	Published	Pollutant	Units	Monitoring frequency (licence)	Measurement during month	Min	Mean	Max	Exceedance (Yes/No)
Jul-20	Point 10 - Ambient air and weather monitoring station		31/08/20	2/09/20	NOx	ppb	Continuous	Continuous	0	7	73	
			31/08/20	2/09/20	O3	ppb	Continuous	Continuous	0	18	33	
	Point 13 - Air emissions monitoring		29/07/20	10/07/20	NOx	ppm measured as g/min	Continuous	Continuous	< 2878 g/min			No
	Point 11 - First Flush Effluent quality monitoring		4/09/20	9/09/20	O&G	mg/L	Weekly during discharge with No visible oil	8	Nil			
			4/09/20	9/09/20	pH		Weekly during any discharge	8	7.49	7.88	8.17	
		7/07/20	22/07/20	10/08/20	Salinity	ppt	Not required	1	-			
	Point 12 - Process Water Effluent quality monitoring	7/07/20	22/07/20	10/08/20	TSS	mg/L	Not required	1	-			
		7/07/20	22/07/20	10/08/20	O&G	mg/L	Monthly	1	< 5			
		7/07/20	22/07/20	10/08/20	pH		Monthly	1	7.21			
		7/07/20	22/07/20	10/08/20	Salinity	ppt	Not required	1	0.096			
	Point 16 - Septic waste water Effluent quality monitoring	7/07/20	22/07/20	10/08/20	TDS	mg/L	Not required	1	83			
		7/07/20	22/07/20	10/08/20	TSS	mg/L	Not required	1	5			
		7/07/20	22/07/20	10/08/20	BOD	mg/L	Monthly	1	11			
		7/07/20	22/07/20	10/08/20	FC	cfu/100mL	Monthly	1	< 10			
		7/07/20	22/07/20	10/08/20	O&G	mg/L	Monthly	1	< 3			
		7/07/20	22/07/20	10/08/20	TN	mg/L	Monthly	1	108			
		7/07/20	22/07/20	10/08/20	TDS	mg/L	Monthly	1	451			
7/07/20		22/07/20	10/08/20	TSS	mg/L	Not required	1	42				
	7/07/20	22/07/20	10/08/20	TP	mg/L	Monthly	1	10				
Aug-20	Point 10 - Ambient air and weather monitoring station		11/09/20	28/09/20	NOx	ppb	Continuous	Cont.	0	2	29	
			11/09/20	28/09/20	O3	ppb	Continuous	Cont.	-2	20	42	
	Point 13 - Air emissions monitoring		10/09/20	28/09/20	NOx	ppm	Continuous	Cont.	< 2878 g/min			
	Point 11 - First Flush Effluent quality monitoring		3/09/20	4/09/20	O&G	mg/L	Weekly during discharge with No visible oil	12	Nil			
			3/09/20	4/09/20	pH		Weekly during any discharge	12	7.45	8	7.95	
		5/08/20	1/09/20	2/09/20	Salinity	ppt	Not required	1	0.395			
	Point 12 - Process Water Effluent quality monitoring	5/08/20	1/09/20	2/09/20	TSS	mg/L	Not required	1	5			
		5/08/20	1/09/20	2/09/20	O&G	mg/L	Monthly	1	< 5			
		5/08/20	1/09/20	2/09/20	pH		Monthly	1	7.36			
		5/08/20	1/09/20	2/09/20	Salinity	ppt	Not required	1	0.111			
	Point 16 - Septic waste water Effluent quality monitoring	5/08/20	1/09/20	2/09/20	TDS	mg/L	Not required	1	92			
		5/08/20	1/09/20	2/09/20	TSS	mg/L	Not required	1	3			
		5/08/20	1/09/20	2/09/20	BOD	mg/L	Monthly	1	7			
		5/08/20	1/09/20	2/09/20	FC	cfu/100mL	Monthly	1	< 10			
		5/08/20	1/09/20	2/09/20	O&G	mg/L	Monthly	1	< 3			
		5/08/20	1/09/20	2/09/20	TN	mg/L	Monthly	1	46			
		5/08/20	1/09/20	2/09/20	TDS	mg/L	Monthly	1	318			
5/08/20		1/09/20	2/09/20	TSS	mg/L	Not required	1	23				
	5/08/20	1/09/20	2/09/20	TP	mg/L	Monthly	1	5.8				
Sep-20	Point 10 - Ambient air and weather monitoring station		12/10/20	16/10/20	NOx	ppb	Continuous	Cont.	-1	6	66	
			12/10/20	16/10/20	O3	ppb	Continuous	Cont.	2	21	46	
	Point 13 - Air emissions monitoring		15/10/20	16/10/20	NOx	ppm	Continuous	Cont.	< 2878 g/min			
	Point 11 - First Flush Effluent quality monitoring		15/10/20	16/10/20	O&G	mg/L	Weekly during discharge with No visible oil	5	Nil			
			15/10/20	16/10/20	pH		Weekly during any discharge	5	7.48	8.09	8.72	
		2/09/20	21/09/20	28/09/20	Salinity	ppt	Not required	1	0.334			
	Point 12 - Process Water Effluent quality monitoring	2/09/20	21/09/20	28/09/20	TSS	mg/L	Not required	1	5			
		2/09/20	21/09/20	28/09/20	O&G	mg/L	Monthly	1	<5			
		2/09/20	21/09/20	28/09/20	pH		Monthly	1	7.44			
		2/09/20	21/09/20	28/09/20	Salinity	ppt	Not required	1	0.101			
	Point 16 - Septic waste water Effluent quality monitoring	2/09/20	21/09/20	28/09/20	TDS	mg/L	Not required	1	85			
		2/09/20	21/09/20	28/09/20	TSS	mg/L	Not required	1	7			
		2/09/20	21/09/20	28/09/20	BOD	mg/L	Monthly	1	<5			
		2/09/20	21/09/20	28/09/20	FC	cfu/100mL	Monthly	1	20			
		2/09/20	21/09/20	28/09/20	O&G	mg/L	Monthly	1	<3			
		2/09/20	21/09/20	28/09/20	TN	mg/L	Monthly	1	51			
		2/09/20	21/09/20	28/09/20	TDS	mg/L	Monthly	1	348			
2/09/20		21/09/20	28/09/20	TSS	mg/L	Not required	1	27				
	2/09/20	21/09/20	28/09/20	TP	mg/L	Monthly	1	8.5				

Receipt of report was delayed due to operational impacts

First flush was empty at time of testing

Month	Location of monitoring point	Sampled	Obtained	Published	Pollutant	Units	Monitoring frequency (licence)	Measurement during month	Min	Mean	Max	Exceedance (Yes/No)
Oct-20	Point 10 - Ambient air and weather monitoring station		12/11/20	18/11/20	NOx	ppb	Continuous	Cont.	1	8	76	
			11/2/11/20	18/11/20	O3	ppb	Continuous	Cont.	4	23	66	
	Point 13 - Air emissions monitoring		18/11/20	18/11/20	NOx	ppm	Continuous Max limit 2878 g/min	Cont.	< 2878 g/min			
	Point 11 - First Flush Effluent quality monitoring		13/11/20	18/11/20	O&G	mg/L	Weekly during discharge with No visible oil	8	Nil			
			13/11/20	18/11/20	pH		Weekly during any discharge	8	8.01	8.23	8.4	
		8/10/20	6/11/20	18/11/20	Salinity	ppt	Not required	1	0.294			
	Point 12 - Process Water Effluent quality monitoring	8/10/20	6/11/20	18/11/20	TSS	mg/L	Not required	1	15			
		8/10/20	6/11/20	18/11/20	O&G	mg/L	Monthly	1	<5			
		8/10/20	6/11/20	18/11/20	pH		Monthly	1	7.34			
		8/10/20	6/11/20	18/11/20	Salinity	ppt	Not required	1	0.135			
		8/10/20	6/11/20	18/11/20	TDS	mg/L	Not required	1	133			
		8/10/20	6/11/20	18/11/20	TSS	mg/L	Not required	1	9			
	Point 16 - Septic waste water Effluent quality monitoring	8/10/20	6/11/20	18/11/20	BOD	mg/L	Monthly	1	<5			
		8/10/20	6/11/20	18/11/20	FC	cfu/100mL	Monthly	1	100			
		8/10/20	6/11/20	18/11/20	O&G	mg/L	Not required	1	<3			
		8/10/20	6/11/20	18/11/20	TN	mg/L	Monthly	1	55			
8/10/20		6/11/20	18/11/20	TDS	mg/L	Monthly	1	473				
8/10/20		6/11/20	18/11/20	TSS	mg/L	Not required	1	30				
	8/10/20	6/11/20	18/11/20	TP	mg/L	Monthly	1	11				
Nov-20	Point 10 - Ambient air and weather monitoring station		11/12/20	15/12/20	NOx	ppb	Continuous	Cont.	0	6	86	
			11/12/20	15/12/20	O3	ppb	Continuous	Cont.	1	21	74	
	Point 13 - Air emissions monitoring		16/12/20	16/12/20	NOx	ppm	Continuous Max limit 2878 g/min	Cont.	< 2878 g/min			
	Point 11 - First Flush Effluent quality monitoring		4/12/20	16/12/20	O&G	mg/L	Weekly during discharge with No visible oil	3	Nil			
			4/12/20	16/12/20	pH		Weekly during any discharge	3	8.07	8.19	8.4	
		4/11/20	16/11/20	1/12/20	Salinity	ppt	Not required	1	0.195			
	Point 12 - Process Water Effluent quality monitoring	4/11/20	16/11/20	1/12/20	TSS	mg/L	Not required	1	2			
		4/11/20	16/11/20	1/12/20	O&G	mg/L	Monthly	1	<5			
		4/11/20	16/11/20	1/12/20	pH		Monthly	1	6.92			
		4/11/20	16/11/20	1/12/20	Salinity	ppt	Not required	1	0.357			
		4/11/20	16/11/20	1/12/20	TDS	mg/L	Not required	1	297			
		4/11/20	16/11/20	1/12/20	TSS	mg/L	Not required	1	18			
	Point 16 - Septic waste water Effluent quality monitoring	4/11/20	16/11/20	1/12/20	BOD	mg/L	Monthly	1	<5			
		4/11/20	16/11/20	1/12/20	FC	cfu/100mL	Monthly	1	<10			
		4/11/20	16/11/20	1/12/20	O&G	mg/L	Monthly	1	<3			
		4/11/20	16/11/20	1/12/20	TN	mg/L	Monthly	1	54			
4/11/20		16/11/20	1/12/20	TDS	mg/L	Monthly	1	348				
4/11/20		16/11/20	1/12/20	TSS	mg/L	Not required	1	24				
	4/11/20	16/11/20	1/12/20	TP	mg/L	Monthly	1	4.6				
Dec-20	Point 10 - Ambient air and weather monitoring station		12/01/21	12/01/21	NOx	ppb	Continuous	Cont.	0	6	56	
			12/01/21	12/01/21	O3	ppb	Continuous	Cont.	1	17	60	
	Point 13 - Air emissions monitoring		8/01/21	12/01/21	NOx	ppm	Continuous Max limit 2878 g/min	Cont.	<2878 g/min			
	Point 11 - First Flush Effluent quality monitoring		7/01/21	12/01/21	O&G	mg/L	Weekly during discharge with No visible oil	10	nil			
			7/01/21	12/01/21	pH		Weekly during any discharge	10	7.17	7.59	8.16	
		2/12/20	14/12/20	16/12/20	Salinity	ppt	Not required	1	0.343			
	Point 12 - Process Water Effluent quality monitoring	2/12/20	14/12/20	16/12/20	TSS	mg/L	Not required	1	4			
		2/12/20	14/12/20	16/12/20	O&G	mg/L	Monthly	1	<5			
		2/12/20	14/12/20	16/12/20	pH		Monthly	1	7.15			
		2/12/20	14/12/20	16/12/20	Salinity	ppt	Not required	1	0.126			
		2/12/20	14/12/20	16/12/20	TDS	mg/L	Not required	1	105			
		2/12/20	14/12/20	16/12/20	TSS	mg/L	Not required	1	5			
	Point 16 - Septic waste water Effluent quality monitoring	2/12/20	14/12/20	16/12/20	BOD	mg/L	Monthly	1	<5			
		2/12/20	14/12/20	16/12/20	FC	cfu/100mL	Monthly	1	<10			
		2/12/20	14/12/20	16/12/20	O&G	mg/L	Monthly	1	<3			
		2/12/20	14/12/20	16/12/20	TN	mg/L	Monthly	1	27			
2/12/20		14/12/20	16/12/20	TDS	mg/L	Monthly	1	352				
2/12/20		14/12/20	16/12/20	TSS	mg/L	Not required	1	55				
	2/12/20	14/12/20	16/12/20	TP	mg/L	Monthly	1	7.4				