



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

Dates: FY 2023-24
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, 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), 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	Licence limit	Exceedance (Yes/No)	
Jul-23	Point 13 - Air emissions monitoring	3/08/23	3/08/23	3/08/23	NOx	ppm	Continuous Max limit 2878 g/min (1hr rolling average)	Continuous		<2878	g/min	<2878 g/min	No	
		3/08/23	3/08/23	3/08/23	O&G	mg/L	Weekly during discharge with No visible oil	30		Nil		nil visual	No	
		3/08/23	11/08/23	3/08/23	pH		Weekly during any discharge	14	7.00	7.33	8.04	6.5-8.5	No	
	Point 11 - First Flush Effluent quality monitoring	5/07/23	23/07/23	24/07/23	Salinity	ppt	Not required	1		0.151				
		5/07/23	23/07/23	24/07/23	TSS	mg/L	Not required	1		2				
		5/07/23	23/07/23	24/07/23	O&G	mg/L	Monthly	1		<5		nil visual	No	
		5/07/23	23/07/23	24/07/23	pH		Monthly	1		7.44		6.5-8.5	No	
		5/07/23	23/07/23	24/07/23	Salinity	ppt	Not required	1		0.091				
		5/07/23	23/07/23	24/07/23	TDS	mg/L	Not required	1		78				
	Point 12 - Process Water Effluent quality monitoring	5/07/23	23/07/23	24/07/23	TSS	mg/L	Not required	1		8				
		5/07/23	23/07/23	24/07/23	O&G	mg/L	Monthly	1		<3				
		5/07/23	23/07/23	24/07/23	BOD	mg/L	Monthly	1		8				
		5/07/23	23/07/23	24/07/23	FC	cfu/100mL	Monthly	1		<1				
		5/07/23	23/07/23	24/07/23	TN	mg/L	Monthly	1		52				
		5/07/23	23/07/23	24/07/23	TDS	mg/L	Monthly	1		471				
5/07/23		23/07/23	24/07/23	TSS	mg/L	Not required	1		60					
5/07/23		23/07/23	24/07/23	TP	mg/L	Monthly	1		15					
Aug-23		Point 13 - Air emissions monitoring	6/09/23	6/09/23	6/09/23	NOx	ppm	Continuous Max limit 2878 g/min (1hr rolling average)	Continuous		<2878	g/min	<2878 g/min	No
	3/09/23		4/09/23	4/09/23	O&G	visible	Weekly during discharge with No visible oil	31		Nil		nil visual	No	
	3/09/23		4/09/23	4/09/23	pH		Weekly during any discharge	31	6.55	7.08	7.68	6.5-8.5	No	
	Point 11 - First Flush Effluent quality monitoring				Salinity	ppt	Not required	1		NA				
					TSS	mg/L	Not required	1		NA				
		4/08/23	21/08/23	24/08/2023	O&G	visible	Monthly	1		<5		nil visual	No	
		4/08/23	21/08/23	24/08/2024	pH		Monthly	1		7.44		6.5-8.5	No	
		4/08/23	21/08/23	24/08/2021	Salinity	ppt	Not required	1		0.104				
		4/08/23	21/08/23	24/08/2028	TDS	mg/L	Not required	1		88				
	Point 12 - Process Water Effluent quality monitoring	4/08/23	21/08/23	24/08/2027	TSS	mg/L	Not required	1		30				
		4/08/23	21/08/23	24/08/2028	O&G	mg/L	Monthly	1		<3				
		4/08/23	21/08/23	24/08/2029	BOD	mg/L	Monthly	1		7				
		4/08/23	21/08/23	24/08/2030	FC	cfu/100mL	Monthly	1		<10				
		4/08/23	21/08/23	24/08/2031	TN	mg/L	Monthly	1		67				
		4/08/23	21/08/23	24/08/2032	TDS	mg/L	Monthly	1		573				
4/08/23		21/08/23	24/08/2033	TSS	mg/L	Not required	1		22					
4/08/23		21/08/23	24/08/2034	TP	mg/L	Monthly	1		17					
Sep-23		Point 13 - Air emissions monitoring	9/10/23	10-10-23	10-10-23	NOx	ppm	Continuous	Continuous		<2878	g/min	<2878 g/min	No
	3/10/23		10/10/23	10/10/23	O&G	visible	Weekly during discharge	13		Nil		nil visual	No	
	3/10/23		10/10/23	10/10/23	pH		Weekly during discharge	13	6.61	7.09	7.39	6.5-8.5	No	
	Point 12 - Process Water Effluent quality monitoring	15/09/23	26/09/23	27/09/23	O&G	visible	Monthly	1		<5		nil visual	No	
		15/09/23	26/09/23	27/09/23	pH		Monthly	1		6.97		6.5-8.5	No	
		6/09/23	9/10/23	10/10/23	BOD	mg/L	Monthly	1		10				
		6/09/23	12/09/23	27/09/23	FC	cfu/100mL	Monthly	1		80				
		6/09/23	9/10/23	10/10/23	TN	mg/L	Monthly	1		88				
		6/09/23	9/10/23	10/10/23	TDS	mg/L	Monthly	1		558				
	Point 16 - Septic waste water Effluent quality monitoring	6/09/23	9/10/23	10/10/23	TP	mg/L	Monthly	1		8.2				
		Point 13 - Air emissions monitoring	24/10/23	7/11/23	7/11/23	NOx	ppm	Continuous	Continuous		<2878	g/min	<2878 g/min	No
			3/11/23	7/11/23	7/11/23	O&G	mg/L	Weekly during discharge	7		Nil		nil visual	No
			3/11/23	7/11/23	7/11/23	pH		Weekly during discharge	7	6.55	7.57	8.34	6.5-8.5	No
		Point 12 - Process Water Effluent quality monitoring	4/10/23	20/10/23	7/11/23	O&G	mg/L	Monthly	1		<5		nil visual	No
			4/10/23	20/10/23	7/11/23	pH		Monthly	1		6.88		6.5-8.5	No
4/10/23			20/10/23	7/11/23	BOD	mg/L	Monthly	1		8				
4/10/23			10/10/23	27/10/23	FC	cfu/100mL	Monthly	1		<1000				
4/10/23			20/10/23	7/11/23	TN	mg/L	Monthly	1		29				
4/10/23	20/10/23		7/11/23	TDS	mg/L	Monthly	1		451					
Nov-23	Point 13 - Air emissions monitoring	16/10/24	5/03/24	5/03/24	NOx	ppm	Continuous	Continuous		<2878	g/min	<2878 g/min	No	
		3/12/23	11/12/23	11/12/23	O&G	mg/L	Weekly during discharge	9		Nil		nil visual	No	
		3/12/23	11/12/23	11/12/23	pH		Weekly during discharge	9	7.65	7.91	8.3	6.5-8.5	No	
	Point 12 - Process Water Effluent quality monitoring	6/11/23	21/11/23	11/12/23	O&G	mg/L	Monthly	1		<5		nil visual	No	
		6/11/23	21/11/23	11/12/23	pH		Monthly	1		7.65		6.5-8.5	No	
		20/11/23	4/12/23	11/12/23	BOD	mg/L	Monthly	1		12				
		20/11/23	28/11/23	11/12/23	FC	cfu/100mL	Monthly	1		330				
		20/11/23	4/12/23	11/12/23	TN	mg/L	Monthly	1		28				
		20/11/23	4/12/23	11/12/23	TDS	mg/L	Monthly	1		331				
Dec-23	Point 13 - Air emissions monitoring	10/12/23	21/12/23	21/12/23	NOx	ppm	Continuous	Continuous		<2878	g/min	<2878 g/min	No	
		3/01/24	8/01/24	8/01/24	O&G	mg/L	Weekly during discharge	17		Nil		nil visual	No	
		3/01/24	8/01/24	8/01/24	pH		Weekly during discharge	17	7.04	7.85	8.2	6.5-8.5	No	
	Point 12 - Process Water Effluent quality monitoring	4/12/23	22/12/23	8/01/24	O&G	mg/L	Monthly	1		<5		nil visual	No	
		4/12/23	22/12/23	21/12/23	pH		Monthly	1		7.20		6.5-8.5	No	
		4/12/23	22/12/23	8/01/24	BOD	mg/L	Monthly	1		<5				
		4/12/23	7/12/23	21/12/23	FC	cfu/100mL	Monthly	1		60				
		4/12/23	22/12/23	8/01/24	TN	mg/L	Monthly	1		57				
		4/12/23	22/12/23	8/01/24	TDS	mg/L	Monthly	1		338				
Jan-24	Point 13 - Air emissions monitoring	12/01/24	29/01/24	29/01/24	NOx	ppm	Continuous	Continuous		<2878	g/min	<2878 g/min	No	
		3/02/24	5/02/24	5/02/24	O&G	mg/L	Weekly during discharge	16		Nil		nil visual	No	
		3/02/24	5/02/24	5/02/24	pH		Weekly during discharge	16	7.00	7.6	8.23	6.5-8.5	No	
	Point 12 - Process Water Effluent quality monitoring	12/01/24	29/01/24	5/02/24	O&G	mg/L	Monthly	1		<5		nil visual	No	
		12/01/24	29/01/24	5/02/24	pH		Monthly	1		6.82		6.5-8.5	No	
		12/01/24	29/01/24	5/02/24	BOD	mg/L	Monthly	1		8				
		12/01/24	22/01/24	5/02/24	FC	cfu/100mL	Monthly	1		<10				
		12/01/24	29/01/24	5/02/24	TN	mg/L	Monthly	1		47				
		12/01/24	29/01/24	5/02/24	TDS	mg/L	Monthly	1		363				
Feb-24	Point 13 - Air emissions monitoring	28/02/24	5/03/24	5/03/24	NOx	ppm	Continuous	Continuous		<2878	g/min	<2878 g/min	No	
		3/03/24	5/03/24	5/03/24	O&G	mg/L	Weekly during discharge	14		Nil		nil visual	No	
		3/03/24	5/03/24	5/03/24	pH		Weekly during discharge	14	6.85	7.33	8.1	6.5-8.5	No	
	Point 12 - Process Water Effluent quality monitoring	7/02/24	20/02/24	5/03/24	O&G	mg/L	Monthly	1		<5		nil visual	No	
		7/02/24	20/02/24	5/03/24	pH		Monthly	1		6.95		6.5-8.5	No	
		7/02/24	13/02/24	15/02/24	FC	cfu/100mL	Monthly	1		<1				
		7/02/24	20/02/24	5/03/24	TN	mg/L	Monthly	1		34				
		7/02/24	20/02/24	5/03/24	TDS	mg/L	Monthly	1		353				
		7/02/24	20/02/24	5/03/24	TP	mg/L	Monthly	1		12				
Mar-24	Point 13 - Air emissions monitoring	21/03/24	3/04/24	3/04/24	NOx	ppm	Continuous	Continuous		<2878	g/min	<2878 g/min	No	
		3/04/24	3/04/24	3/04/24	O&G	mg/L	Weekly during discharge	9		Nil		nil visual	No	
		3/04/24	3/04/24	3/04/24	pH		Weekly during discharge	9	6.86	7.34	8.2	6.5-8.5	No	
	Point 12 - Process Water Effluent quality monitoring	8/03/24	21/03/24	3/04/24	O&G	mg/L	Monthly	1		<5		nil visual	No	
		8/03/24	21/03/24	3/04/24	pH		Monthly	1		6.80		6.5-8.5	No	
		8/03/24	21/03/24	3/04/24	BOD	mg/L	Monthly	1		7				
		8/03/24	12/03/24	3/04/24	FC	cfu/100mL	Monthly	1		<10				
		8/03/24	21/03/24	3/04/24	TN	mg/L	Monthly	1		54				
		8/03/24	21/03/24	3/04/24	TDS	mg/L	Monthly	1		560				