

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



Dates: FY 2024-25
 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-24	Point 13 - Air emissions monitoring		26/07/24	6/08/24	NOx	ppm	Continuous	Continuous	<2878 g/min			<2878 g/min	No
	Point 11 - First Flush Effluent quality monitoring		3/08/24	6/08/24	O&G	visible	Weekly during discharge	7	Nil			nil visual	No
			3/08/24	6/08/24	pH		Weekly during discharge	7	7.10	7.15	7.32	6.5-8.5	No
	Point 12 - Process Water Effluent quality monitoring	4/07/24	24/07/24	6/08/24	O&G	visible	Monthly	1	<5			nil visual	No
		4/07/24	24/07/24	6/08/24	pH		Monthly	1	7.06			6.5-8.5	No
	Point 16 - Septic waste water Effluent quality monitoring	4/07/24	24/07/24	6/08/24	BOD	mg/L	Monthly	1	14				
		4/07/24	24/07/24	6/08/24	FC	cfu/100mL	Monthly	1	<10				
		4/07/24	24/07/24	6/08/24	TN	mg/L	Monthly	1	34				
		4/07/24	24/07/24	6/08/24	TDS	mg/L	Monthly	1	583				
		4/07/24	24/07/24	6/08/24	TP	mg/L	Monthly	1	19				
Aug-24	Point 13 - Air emissions monitoring		21/10/24	23/10/24	NOx	ppm	Continuous	Continuous	1959 g/min (max)			<2878 g/min	No
	Point 11 - First Flush Effluent quality monitoring		3/09/24	3/09/24	O&G	visible	Weekly during discharge	9	Nil			nil visual	No
			3/09/24	3/09/24	pH		Weekly during discharge	9	6.76	7.08	7.57	6.5-8.5	No
	Point 12 - Process Water Effluent quality monitoring	8/08/24	22/08/24	3/09/24	O&G	visible	Monthly	1	<5			nil visual	No
		8/08/24	22/08/24	3/09/24	pH		Monthly	1	6.64			6.5-8.5	No
	Point 16 - Septic waste water Effluent quality monitoring	8/08/24	22/08/24	3/09/24	BOD	mg/L	Monthly	1	<5				
		8/08/24	22/08/24	3/09/24	FC	cfu/100mL	Monthly	1	190				
		8/08/24	22/08/24	3/09/24	TN	mg/L	Monthly	1	68				
		8/08/24	22/08/24	3/09/24	TDS	mg/L	Monthly	1	552				
		8/08/24	22/08/24	3/09/24	TP	mg/L	Monthly	1	12				
Sep-24	Point 13 - Air emissions monitoring		21/10/24	23/10/24	NOx	ppm	Continuous	Continuous	1458 g/min (max)			<2878 g/min	No
	Point 11 - First Flush Effluent quality monitoring		3/10/02	3/10/24	O&G	visible	Weekly during discharge	10	Nil			nil visual	No
			3/10/24	3/10/24	pH		Weekly during discharge	10	7.20	7.4	7.6	6.5-8.5	No
	Point 12 - Process Water Effluent quality monitoring	4/09/24	17/09/24	19/09/24	O&G	visible	Monthly	1	<5			nil visual	No
		4/09/24	17/09/24	19/09/24	pH		Monthly	1	7.49			6.5-8.5	No
	Point 16 - Septic waste water Effluent quality monitoring	4/09/24	17/09/24	19/09/24	BOD	mg/L	Monthly	1	<5				
		4/09/24	12/09/24	19/09/24	FC	cfu/100mL	Monthly	1	<10				
		4/09/24	17/09/24	19/09/24	TN	mg/L	Monthly	1	60				
		4/09/24	17/09/24	19/09/24	TDS	mg/L	Monthly	1	525				
		4/09/24	17/09/24	19/09/24	TP	mg/L	Monthly	1	15				
Oct-24	Point 13 - Air emissions monitoring		25/10/24	4/11/24	NOx	ppm	Continuous	Continuous	1780 g/min (max)			<2878 g/min	No
	Point 11 - First Flush Effluent quality monitoring		3/11/24	4/11/24	O&G	mg/L	Weekly during discharge	14	Nil			nil visual	No
			3/11/24	4/11/24	pH		Weekly during discharge	14	7.10	7.6	8.3	6.5-8.5	No
	Point 12 - Process Water Effluent quality monitoring	3/10/24	24/10/24	4/11/24	O&G	mg/L	Monthly	1	<3			nil visual	No
		3/10/24	24/10/24	4/11/24	pH		Monthly	1	7.06			6.5-8.5	No
	Point 16 - Septic waste water Effluent quality monitoring	3/10/24	24/10/24	4/11/24	BOD	mg/L	Monthly	1	<5				
		3/10/24	24/10/24	4/11/24	FC	cfu/100mL	Monthly	1	<10				
		3/10/24	24/10/24	4/11/24	TN	mg/L	Monthly	1	61				
		3/10/24	24/10/24	4/11/24	TDS	mg/L	Monthly	1	562				
		3/10/24	24/10/24	4/11/24	TP	mg/L	Monthly	1	16				
Nov-24	Point 13 - Air emissions monitoring		1/12/24	4/12/24	NOx	ppm	Continuous	Continuous	1726 g/min (max)			<2878 g/min	No
	Point 11 - First Flush Effluent quality monitoring		3/12/24	4/12/24	O&G	mg/L	Weekly during discharge	11	Nil			nil visual	No
			3/12/24	4/12/24	pH		Weekly during discharge	11	6.90	7.5	8.26	6.5-8.5	No
	Point 12 - Process Water Effluent quality monitoring	7/11/24	25/11/24	4/12/24	O&G	mg/L	Monthly	1	<5			nil visual	No
		7/11/24	25/11/24	4/12/24	pH		Monthly	1	6.68			6.5-8.5	No
	Point 16 - Septic waste water Effluent quality monitoring	7/11/24	25/11/24	4/12/24	BOD	mg/L	Monthly	1	<5				
		7/11/24	13/11/24	4/12/24	FC	cfu/100mL	Monthly	1	<10				
		7/11/24	25/11/24	4/12/24	TN	mg/L	Monthly	1	61				
		7/11/24	25/11/24	4/12/24	TDS	mg/L	Monthly	1	517				
		7/11/24	25/11/24	4/12/24	TP	mg/L	Monthly	1	15				
Dec-24	Point 13 - Air emissions monitoring		1/01/25	8/01/25	NOx	ppm	Continuous	Continuous	1796 g/min (max)			<2878 g/min	No
	Point 11 - First Flush Effluent quality monitoring		3/01/25	8/01/25	O&G	mg/L	Weekly during discharge	30	Nil			nil visual	No
			3/01/25	8/01/25	pH		Weekly during discharge	14	6.81	7.48	8	6.5-8.5	No
	Point 12 - Process Water Effluent quality monitoring	4/12/24	3/01/25	8/01/25	O&G	mg/L	Monthly	1	<5			nil visual	No
		4/12/24	3/01/25	8/01/25	pH		Monthly	1	7.12			6.5-8.5	No
	Point 16 - Septic waste water Effluent quality monitoring	4/12/24	6/01/25	8/01/25	BOD	mg/L	Monthly	1	<5				
		4/12/24	17/12/24	8/01/25	FC	cfu/100mL	Monthly	1	<1				
		4/12/24	6/01/25	8/01/25	TN	mg/L	Monthly	1	51				
		4/12/24	6/01/25	8/01/25	TDS	mg/L	Monthly	1	419				
		4/12/24	6/01/25	8/01/25	TP	mg/L	Monthly	1	11				
Jan-25	Point 13 - Air emissions monitoring		1/02/25	3/02/25	NOx	ppm	Continuous	Continuous	1592 g/min (max)			<2878 g/min	No
	Point 11 - First Flush Effluent quality monitoring		3/02/25	3/02/25	O&G	mg/L	Weekly during discharge	18	Nil			nil visual	No
			3/02/25	3/02/25	pH		Weekly during discharge	17	6.85	7.27	8.13	6.5-8.5	No
	Point 12 - Process Water Effluent quality monitoring	6/01/25	17/01/25	3/02/25	O&G	mg/L	Monthly	1	<5			nil visual	No
		6/01/25	17/01/25	3/02/25	pH		Monthly	1	6.85			6.5-8.5	No
		6/01/25	17/01/25	3/02/25	BOD	mg/L	Monthly	1	<5				

	Point 16 - Septic waste water Effluent quality monitoring	6/01/25	17/01/25	3/02/25	FC	cfu/100mL	Monthly	1	<10				
		6/01/25	17/01/25	3/02/25	TN	mg/L	Monthly	1	39				
		6/01/25	17/01/25	3/02/25	TDS	mg/L	Monthly	1	350				
		6/01/25	17/01/25	3/02/25	TP	mg/L	Monthly	1	8.9				
Feb-25	Point 13 - Air emissions monitoring		3/03/25	4/03/25	NOx	ppm	Continuous	Continuous	1748 g/min (max)			<2878 g/min	No
	Point 11 - First Flush Effluent quality monitoring		3/03/25	4/03/25	O&G	mg/L	Weekly during discharge	14	Nil			nil visual	No
			3/03/25	4/03/25	pH		Weekly during discharge	14	6.92	7.25	8.00	6.5-8.5	No
	Point 12 - Process Water Effluent quality monitoring	7/02/25	24/02/25	4/03/25	O&G	mg/L	Monthly	1	<5			nil visual	No
		7/02/25	24/02/25	4/03/25	pH		Monthly	1	6.84			6.5-8.5	No
		7/02/25	24/02/25	4/03/25	BOD	mg/L	Monthly	1	<5				
		7/02/25	24/02/25	4/03/25	FC	cfu/100mL	Monthly	1	<1				
	Point 16 - Septic waste water Effluent quality monitoring	7/02/25	24/02/25	4/03/25	TN	mg/L	Monthly	1	57				
		7/02/25	24/02/25	4/03/25	TDS	mg/L	Monthly	1	542				
		7/02/25	24/02/25	4/03/25	TP	mg/L	Monthly	1	6.6				
Mar-25	Point 13 - Air emissions monitoring		31/03/25	3/04/25	NOx	ppm	Continuous	Continuous	1559 g/min (max)			<2878 g/min	No
	Point 11 - First Flush Effluent quality monitoring		3/04/25	3/04/25	O&G	mg/L	Weekly during discharge	9	Nil			nil visual	No
			3/04/25	3/04/25	pH		Weekly during discharge	9	6.60	7.23	8.15	6.5-8.5	No
	Point 12 - Process Water Effluent quality monitoring	6/03/25	21/03/25	3/04/25	O&G	mg/L	Monthly	1	<5			nil visual	No
		6/03/25	21/03/25	3/04/25	pH		Monthly	1	7.14			6.5-8.5	No
		6/03/25	21/03/25	3/04/25	BOD	mg/L	Monthly	1	12				
		6/03/25	21/03/25	3/04/25	FC	cfu/100mL	Monthly	1	<1				
	Point 16 - Septic waste water Effluent quality monitoring	6/03/25	21/03/25	3/04/25	TN	mg/L	Monthly	1	49				
		6/03/25	21/03/25	3/04/25	TDS	mg/L	Monthly	1	518				
		6/03/25	21/03/25	3/04/25	TP	mg/L	Monthly	1	7.1				
Apr-25	Point 13 - Air emissions monitoring		1/05/25	5/05/25	NOx	ppm	Continuous	Continuous	1896 g/min (max)			<2878 g/min	No
	Point 11 - First Flush Effluent quality monitoring		3/05/25	5/05/25	O&G	mg/L	Weekly during discharge	10	Nil			nil visual	No
			3/05/25	5/05/25	pH		Weekly during discharge	11	6.90	7.26	7.91	6.5-8.5	No
	Point 12 - Process Water Effluent quality monitoring	4/04/25	17/04/25	5/05/25	O&G	mg/L	Monthly	1	<5			nil visual	No
		4/04/25	17/04/25	5/05/25	pH		Monthly	1	7.01			6.5-8.5	No
		4/04/25	17/04/25	5/05/25	BOD	mg/L	Monthly	1	10				
		4/04/25	17/04/25	5/05/25	FC	cfu/100mL	Monthly	1	<1				
	Point 16 - Septic waste water Effluent quality monitoring	4/04/25	17/04/25	5/05/25	TN	mg/L	Monthly	1	51				
		4/04/25	17/04/25	5/05/25	TDS	mg/L	Monthly	1	310				
		4/04/25	17/04/25	5/05/25	TP	mg/L	Monthly	1	6.8				
May-25	Point 13 - Air emissions monitoring		1/06/25	4/06/25	NOx	ppm	Continuous	Continuous	2041 g/min (max)			<2878 g/min	No
	Point 11 - First Flush Effluent quality monitoring		3/06/25	4/06/25	O&G	mg/L	Weekly during discharge	13	Nil			nil visual	No
			3/06/25	4/06/25	pH		Weekly during discharge	13	7.05	7.7	8.49	6.5-8.5	No
	Point 12 - Process Water Effluent quality monitoring	6/05/25	21/05/25	4/06/25	O&G	mg/L	Monthly	1	<5			nil visual	No
		6/05/25	21/05/25	4/06/25	pH		Monthly	1	6.99			6.5-8.5	No
		6/05/25	21/05/25	4/06/25	BOD	mg/L	Monthly	1	8				
		6/05/25	21/05/25	4/06/25	FC	cfu/100mL	Monthly	1	<1				
	Point 16 - Septic waste water Effluent quality monitoring	6/05/25	21/05/25	4/06/25	TN	mg/L	Monthly	1	54				
		6/05/25	21/05/25	4/06/25	TDS	mg/L	Monthly	1	464				
		6/05/25	21/05/25	4/06/25	TP	mg/L	Monthly	1	5.8				
Jun-25	Point 13 - Air emissions monitoring		1/07/25	3/07/25	NOx	ppm	Continuous	Continuous	2525			<2878 g/min	No
	Point 11 - First Flush Effluent quality monitoring		3/07/25	3/07/25	O&G	mg/L	Weekly during discharge	6	Nil			nil visual	No
			3/07/25	3/07/25	pH		Weekly during discharge	6	7.75	8.01	8.3	6.5-8.5	No
	Point 12 - Process Water Effluent quality monitoring	5/06/25	1/07/25	3/07/25	O&G	mg/L	Monthly	1	<5			nil visual	No
		5/06/25	1/07/25	3/07/25	pH		Monthly	1	7.50			6.5-8.5	No
		5/06/25	1/07/25	3/07/25	BOD	mg/L	Monthly	1	<5				
		5/06/25	1/07/25	3/07/25	FC	cfu/100mL	Monthly	1	<10				
	Point 16 - Septic waste water Effluent quality monitoring	5/06/25	1/07/25	3/07/25	TN	mg/L	Monthly	1	25				
		5/06/25	1/07/25	3/07/25	TDS	mg/L	Monthly	1	350				
		5/06/25	1/07/25	3/07/25	TP	mg/L	Monthly	1	5.1				

Change Log:

12/6: updated April Point 11 pH count from 10 to 11 and mean from 7.23 to 7.26 (missing data added)