

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 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), faecal 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
	Point 12 - Process Water Effluent quality monitoring		3/08/24	6/08/24	pH		Weekly during discharge	7	7.10	7.15	7.32	6.5-8.5	No
		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
		4/07/24	24/07/24	6/08/24	BOD	mg/L	Monthly	1		14			No
	Point 16 - Septic waste water Effluent quality monitoring	4/07/24	24/07/24	6/08/24	FC	cfu/100mL	Monthly	1		<10			No
		4/07/24	24/07/24	6/08/24	TN	mg/L	Monthly	1		34			No
		4/07/24	24/07/24	6/08/24	TDS	mg/L	Monthly	1		583			No
		4/07/24	24/07/24	6/08/24	TP	mg/L	Monthly	1		19			No
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
	Point 12 - Process Water Effluent quality monitoring	3/09/24	3/09/24	3/09/24	pH		Weekly during discharge	9	6.76	7.08	7.57	6.5-8.5	No
		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
		8/08/24	22/08/24	3/09/24	BOD	mg/L	Monthly	1		<5			No
	Point 16 - Septic waste water Effluent quality monitoring	8/08/24	22/08/24	3/09/24	FC	cfu/100mL	Monthly	1		190			No
		8/08/24	22/08/24	3/09/24	TN	mg/L	Monthly	1		68			No
		8/08/24	22/08/24	3/09/24	TDS	mg/L	Monthly	1		552			No
		8/08/24	22/08/24	3/09/24	TP	mg/L	Monthly	1		12			No
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		3/10/24	3/10/24	O&G	visible	Weekly during discharge	10		Nil		nil visual	No
	Point 12 - Process Water Effluent quality monitoring	3/10/24	3/10/24	3/10/24	pH		Weekly during discharge	10	7.20	7.4	7.6	6.5-8.5	No
		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
		4/09/24	17/09/24	19/09/24	BOD	mg/L	Monthly	1		<5			No
	Point 16 - Septic waste water Effluent quality monitoring	4/09/24	17/09/24	19/09/24	FC	cfu/100mL	Monthly	1		<10			No
		4/09/24	17/09/24	19/09/24	TN	mg/L	Monthly	1		80			No
		4/09/24	17/09/24	19/09/24	TDS	mg/L	Monthly	1		525			No
		4/09/24	17/09/24	19/09/24	TP	mg/L	Monthly	1		15			No
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	visible	Weekly during discharge	14		Nil		nil visual	No
	Point 12 - Process Water Effluent quality monitoring	3/11/24	24/10/24	4/11/24	pH		Weekly during discharge	14	7.10	7.6	8.3	6.5-8.5	No
		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
		3/10/24	24/10/24	4/11/24	BOD	mg/L	Monthly	1		<5			No
	Point 16 - Septic waste water Effluent quality monitoring	3/10/24	24/10/24	4/11/24	FC	cfu/100mL	Monthly	1		<10			No
		3/10/24	24/10/24	4/11/24	TN	mg/L	Monthly	1		61			No
		3/10/24	24/10/24	4/11/24	TDS	mg/L	Monthly	1		562			No
		3/10/24	24/10/24	4/11/24	TP	mg/L	Monthly	1		16			No
Nov-24	Point 13 - Air emissions monitoring		11/12/24	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
	Point 12 - Process Water Effluent quality monitoring	3/12/24	4/12/24	4/12/24	pH		Weekly during discharge	11	6.90	7.5	8.26	6.5-8.5	No
		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
		7/11/24	25/11/24	4/12/24	BOD	mg/L	Monthly	1		<5			No
	Point 16 - Septic waste water Effluent quality monitoring	7/11/24	13/11/24	4/12/24	FC	cfu/100mL	Monthly	1		<10			No
		7/11/24	25/11/24	4/12/24	TN	mg/L	Monthly	1		61			No
		7/11/24	25/11/24	4/12/24	TDS	mg/L	Monthly	1		517			No
		7/11/24	25/11/24	4/12/24	TP	mg/L	Monthly	1		15			No
Dec-24	Point 13 - Air emissions monitoring		10/01/25	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
	Point 12 - Process Water Effluent quality monitoring	3/01/25	8/01/25	8/01/25	pH		Weekly during discharge	14	6.81	7.48	8	6.5-8.5	No
		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
		4/12/24	6/01/25	8/01/25	BOD	mg/L	Monthly	1		<5			No
	Point 16 - Septic waste water Effluent quality monitoring	4/12/24	17/12/24	8/01/25	FC	cfu/100mL	Monthly	1		<1			No
		4/12/24	6/01/25	8/01/25	TN	mg/L	Monthly	1		51			No
		4/12/24	6/01/25	8/01/25	TDS	mg/L	Monthly	1		419			No
		4/12/24	6/01/25	8/01/25	TP	mg/L	Monthly	1		11			No
Jan-25	Point 13 - Air emissions monitoring		10/2/25	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	16		Nil		nil visual	No
	Point 12 - Process Water Effluent quality monitoring	3/02/25	3/02/25	3/02/25	pH		Weekly during discharge	17	6.85	7.27	8.13	6.5-8.5	No
		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			No
	Point 16 - Septic waste water Effluent quality monitoring	6/01/25	17/01/25	3/02/25	FC	cfu/100mL	Monthly	1		<10			No
		6/01/25	17/01/25	3/02/25	TN	mg/L	Monthly	1		39			No
		6/01/25	17/01/25	3/02/25	TDS	mg/L	Monthly	1		350			No
		6/01/25	17/01/25	3/02/25	TP	mg/L	Monthly	1		8.9			No
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
	Point 12 - Process Water Effluent quality monitoring	3/03/25	3/03/25	4/03/25	pH		Weekly during discharge	14	6.92	7.25	8.00	6.5-8.5	No
		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			No
	Point 16 - Septic waste water Effluent quality monitoring	7/02/25	24/02/25	4/03/25	FC	cfu/100mL	Monthly	1		<1			No
		7/02/25	24/02/25	4/03/25	TN	mg/L	Monthly	1		57			No
		7/02/25	24/02/25	4/03/25	TDS	mg/L	Monthly	1		542			No
		7/02/25	24/02/25	4/03/25	TP	mg/L	Monthly	1		6.6			No
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
	Point 12 - Process Water Effluent quality monitoring	6/03/25	3/04/25	3/04/25	pH		Weekly during discharge	9	6.80	7.23	8.15	6.5-8.5	No
		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			No
	Point 16 - Septic waste water Effluent quality monitoring	6/03/25	21/03/25	3/04/25	FC	cfu/100mL	Monthly	1		<1			No
		6/03/25	21/03/25	3/04/25	TN	mg/L	Monthly	1		49			No
		6/03/25	21/03/25	3/04/25	TDS	mg/L	Monthly	1		518			No
		6/03/25	21/03/25	3/04/25	TP	mg/L	Monthly	1		7.1			No
Apr-25	Point 13 - Air emissions monitoring		1/05/25	5/05/25	NOx	ppm	Continuous	Continuous		1866 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
	Point 12 - Process Water Effluent quality monitoring	3/05/25	3/05/25	5/05/25	pH		Weekly during discharge	11	6.90	7.28	7.91	6.5-8.5	No
		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		16			No
	Point 16 - Septic waste water Effluent quality monitoring	4/04/25	17/04/25	5/05/25	FC	cfu/100mL	Monthly	1		<1			No
		4/04/25	17/04/25	5/05/25	TN	mg/L	Monthly	1		51			No
		4/04/25	17/04/25	5/05/25	TDS	mg/L	Monthly	1		310			No
		4/04/25	17/04/25	5/05/25	TP	mg/L	Monthly	1		6.8			No
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
	Point 12 - Process Water Effluent quality monitoring	3/06/25	3/06/25	4/06/25	pH		Weekly during discharge	13	7.05	7.7	8.49	6.5-8.5	No
		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			No
	Point 16 - Septic waste water Effluent quality monitoring	6/05/25	21/05/25	4/06/25	FC	cfu/100mL	Monthly	1		<5			No
		6/05/25	21/05/25	4/06/25	TN	mg/L	Monthly	1		54			No
		6/05/25	21/05/25	4/06/25	TDS	mg/L	Monthly	1		494			No
		6/05/25	21/05/25	4/06/25	TP	mg/L	Monthly	1		6.8			No
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
	Point 12 - Process Water Effluent quality monitoring	3/07/25	3/07/25	3/07/25	pH		Weekly during discharge	6	7.75	8.01	8.3	6.5-8.5	No
		5/06/25	18/07/25	3/07/25	O&G	mg/L	Monthly	1		<5		nil visual	No
		5/06/25	18/07/25	3/07/25	pH		Monthly	1		7.50		6.5-8.5	No
		5/06/25	18/07/25	3/07/25	BOD	mg/L	Monthly	1		<5			No
	Point 16 - Septic waste water Effluent quality monitoring	5/06/25	18/07/25	3/07/25	FC	cfu/100mL	Monthly	1		<10			No
		5/06/25	18/07/25	3/07/25	TN	mg/L	Monthly	1		25			No
		5/06/25	18/07/25	3/07/25	TDS	mg/L	Monthly	1		350			No
		5/06/25	18/07/25	3/07/25	TP								