



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

Dates: FY 2021-2022
 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), 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	Licence limit	Exceedance (Yes/No)	
Jul-21	Point 10 - Ambient air and weather monitoring station		12/08/21	18/08/21	NOx	ppb	Continuous	Cont.	0	6	99			
			12/08/21	18/08/21	O3	ppb	Continuous	Cont.	0	17	30			
	Point 13 - Air emissions monitoring		12/07/21	23/07/21	NOx	ppm	Continuous Max limit 2878 g/min	Cont.	<2878 g/min			<2878 g/min	No	
	Point 11 - First Flush Effluent quality monitoring		1/07/21	1/07/21	O&G	mg/L	Weekly during discharge with No visible oil	11	n/a			nil visual	No	
			1/07/21	1/07/21	pH		Weekly during any discharge	11	7.28	7.55	7.81	6.5-8.5	No	
	Point 12 - Process Water Effluent quality monitoring		12/07/21	23/07/21	26/07/21	Salinity	ppt	Not required	-	0.332				
			12/07/21	23/07/21	26/07/21	TSS	mg/L	Not required	-	5				
			12/07/21	23/07/21	26/07/21	O&G	mg/L	Monthly	1	<5			nil visual	No
			12/07/21	23/07/21	26/07/21	pH		Monthly	1	6.69			6.5-8.5	No
			12/07/21	23/07/21	26/07/21	Salinity	ppt	Not required	1	0.068				
			12/07/21	23/07/21	26/07/21	TDS	mg/L	Not required	1	58				
	Point 16 - Septic waste water Effluent quality monitoring		12/07/21	23/07/21	26/07/21	TSS	mg/L	Not required	1	11				
			12/07/21	23/07/21	26/07/21	BOD	mg/L	Monthly	1	<5				
			12/07/21	23/07/21	26/07/21	FC	cfu/100mL	Monthly	1	<10				
			12/07/21	23/07/21	26/07/21	O&G	mg/L	Monthly	1	<3				
			12/07/21	23/07/21	26/07/21	TN	mg/L	Monthly	1	24				
			12/07/21	23/07/21	26/07/21	TDS	mg/L	Monthly	1	352				
		12/07/21	23/07/21	26/07/21	TSS	mg/L	Not required	1	50					
		12/07/21	23/07/21	26/07/21	TP	mg/L	Monthly	1	4.2					
			11/09/21	13/09/21	NOx	ppb	Continuous	Cont.	0	6	114			
Aug-21	Point 10 - Ambient air and weather monitoring station		11/09/21	13/09/21	O3	ppb	Continuous	Cont.	2	21	37			
	Point 13 - Air emissions monitoring		27/08/21	13/09/21	NOx	ppm	Continuous Max limit 2878 g/min	Cont.	<2878 g/min			<2878 g/min	No	
	Point 11 - First Flush Effluent quality monitoring		19/08/21	25/08/21	O&G	mg/L	Weekly during discharge with No visible oil	12	n/a			nil visual	No	
			8/09/21	9/09/21	pH		Weekly during any discharge	12	7.56	7.56	7.56	6.5-8.5	No	
	Point 12 - Process Water Effluent quality monitoring		4/08/21	19/08/21	25/08/21	Salinity	ppt	Not required	1	0.193				
			4/08/21	19/08/21	25/08/21	TSS	mg/L	Not required	1	6				
			4/08/21	19/08/21	25/08/21	O&G	mg/L	Monthly	1	<5			nil visual	No
			4/08/21	8/09/21	9/09/21	pH		Monthly	1	7.04			6.5-8.5	No
			4/08/21	19/08/21	25/08/21	Salinity	ppt	Not required	1	0.203				
			4/08/21	19/08/21	25/08/21	TDS	mg/L	Not required	1	174				
	Point 16 - Septic waste water Effluent quality monitoring		4/08/21	19/08/21	25/08/21	TSS	mg/L	Not required	1	9				
			4/08/21	19/08/21	25/08/21	BOD	mg/L	Monthly	1	<5				
			4/08/21	19/08/21	25/08/21	FC	cfu/100mL	Monthly	1	<10				
			4/08/21	19/08/21	25/08/21	O&G	mg/L	Monthly	1	<3				
			4/08/21	19/08/21	25/08/21	TN	mg/L	Monthly	1	35				
			4/08/21	19/08/21	25/08/21	TDS	mg/L	Monthly	1	274				
			4/08/21	19/08/21	25/08/21	TSS	mg/L	Not required	1	18				
	4/08/21	19/08/21	25/08/21	TP	mg/L	Monthly	1	2.9						
Sep-21	Point 10 - Ambient air and weather monitoring station		12/10/21	18/10/21	NOx	ppb	Continuous	Cont.	0	7	100			
		12/10/21	18/10/21	O3	ppb	Continuous	Cont.	2	22	44				
	Point 13 - Air emissions monitoring		12/10/21	18/10/21	NOx	ppm	Continuous Max limit 2878 g/min	Cont.	<2878 g/min			<2878 g/min	No	
	Point 11 - First Flush Effluent quality monitoring		25/10/21	1/11/21	O&G	mg/L	Weekly during discharge with No visible oil	5	n/a			nil visual	No	
			25/10/21	1/11/21	pH		Weekly during any discharge	5	7.30	7.57	8	6.5-8.5	No	
	Point 12 - Process Water Effluent quality monitoring		3/09/21	29/10/21	5/10/21	Salinity	ppt	Not required	-	0.39				
			3/09/21	29/10/21	5/10/21	TSS	mg/L	Not required	-	n/a				
			3/09/21	29/10/21	5/10/21	O&G	mg/L	Monthly	1	n/a			nil visual	No
			3/09/21	25/10/21	1/11/21	pH		Monthly	1	6.98			6.5-8.5	No
			3/09/21	29/10/21	5/10/21	Salinity	ppt	Not required	1	0.094				
			3/09/21	29/10/21	5/10/21	TDS	mg/L	Not required	1	81				
	Point 16 - Septic waste water Effluent quality monitoring		3/09/21	29/10/21	5/10/21	TSS	mg/L	Not required	1	83				
			3/09/21	29/10/21	5/10/21	BOD	mg/L	Monthly	1	6				
			3/09/21	29/10/21	5/10/21	FC	cfu/100mL	Monthly	1	<10				
			3/09/21	29/10/21	5/10/21	O&G	mg/L	Monthly	1	<3				
			3/09/21	29/10/21	5/10/21	TN	mg/L	Monthly	1	37				
			3/09/21	29/10/21	5/10/21	TDS	mg/L	Monthly	1	302				
		3/09/21	29/10/21	5/10/21	TSS	mg/L	Not required	1	30					
	3/09/21	29/10/21	5/10/21	TP	mg/L	Monthly	1	2.6						
Oct-21	Point 10 - Ambient air and weather monitoring station		17/11/21	18/11/21	NOx	ppb	Continuous	Cont.	0	5	59			
		17/11/21	18/11/21	O3	ppb	Continuous	Cont.	1	23	69				
	Point 13 - Air emissions monitoring		17/11/21	18/11/21	NOx	ppm	Continuous Max limit 2878 g/min	Cont.	<2878 g/min			<2878 g/min	No	
	Point 11 - First Flush Effluent quality monitoring		3/11/21	10/11/21	O&G	mg/L	Weekly during discharge with No visible oil	8	n/a			nil visual	No	

Oct-21	Point 11 - First Flush Effluent quality monitoring		3/11/21	10/11/21	pH		Weekly during any discharge	8	7.30	7.65	7.81	6.5-8.5	No
		8/10/21	25/10/21	1/11/21	Salinity	ppt	Not required	1	0.335				
		8/10/21	25/10/21	1/11/21	TSS	mg/L	Not required	1	n/a				
	Point 12 - Process Water Effluent quality monitoring	8/10/21	25/10/21	1/11/21	O&G	mg/L	Monthly	1	n/a			nil visual	No
		8/10/21	3/11/21	10/11/21	pH		Monthly	1	6.86			6.5-8.5	No
		8/10/21	25/10/21	1/11/21	Salinity	ppt	Not required	1	0.121				
	Point 16 - Septic waste water Effluent quality monitoring	8/10/21	25/10/21	1/11/21	TDS	mg/L	Not required	1	101				
		8/10/21	25/10/21	1/11/21	TSS	mg/L	Not required	1	7				
		8/10/21	25/10/21	1/11/21	BOD	mg/L	Monthly	1	6				
		8/10/21	25/10/21	1/11/21	FC	cfu/100mL	Monthly	1	<10				
		8/10/21	25/10/21	1/11/21	O&G	mg/L	Monthly	1	<3				
		8/10/21	25/10/21	1/11/21	TN	mg/L	Monthly	1	38				
8/10/21		25/10/21	1/11/21	TDS	mg/L	Monthly	1	341					
Nov-21	Point 10 - Ambient air and weather monitoring station		10/12/21	14/12/21	NOx	ppb	Continuous	Cont.	0	6	59		
			10/12/21	14/12/21	O3	ppb	Continuous	Cont.	3	19	48		
	Point 13 - Air emissions monitoring		10/12/21	14/12/21	NOx	ppm	Continuous Max limit 2878 g/min	Cont.	<2878 g/min			<2878 g/min	No
		Point 11 - First Flush Effluent quality monitoring		n/a	n/a	O&G	mg/L	Weekly during discharge with No visible oil	3	n/a			nil visual
			3/12/21	14/12/21	pH		Weekly during any discharge	3	6.85	7.14	7.72	6.5-8.5	No
	3/11/21		17/11/21	18/11/21	Salinity	ppt	Not required	1	0.303				
	Point 12 - Process Water Effluent quality monitoring	3/11/21	17/11/21	18/11/21	TSS	mg/L	Not required	1	n/a				
		3/11/21	17/11/21	18/11/21	O&G	mg/L	Monthly	1	n/a			nil visual	No
		3/11/21	3/12/21	14/12/21	pH		Monthly	1	7.58			6.5-8.5	No
		3/11/21	17/11/21	18/11/21	Salinity	ppt	Not required	1	0.091				
		3/11/21	17/11/21	18/11/21	TDS	mg/L	Not required	1	75				
		3/11/21	17/11/21	18/11/21	TSS	mg/L	Not required	1	3				
Point 16 - Septic waste water Effluent quality monitoring	3/11/21	17/11/21	18/11/21	BOD	mg/L	Monthly	1	6					
	3/11/21	17/11/21	18/11/21	FC	cfu/100mL	Monthly	1	<10					
	3/11/21	17/11/21	18/11/21	O&G	mg/L	Monthly	1	<3					
	3/11/21	17/11/21	18/11/21	TN	mg/L	Monthly	1	67					
	3/11/21	17/11/21	18/11/21	TDS	mg/L	Monthly	1	418					
	3/11/21	17/11/21	18/11/21	TSS	mg/L	Not required	1	15					
	3/11/21	17/11/21	18/11/21	TP	mg/L	Monthly	1	7					
Dec-21	Point 10 - Ambient air and weather monitoring station		12/01/22	31/01/22	NOx	ppb	Continuous	Cont.	0	7	78		
			12/01/22	31/01/22	O3	ppb	Continuous	Cont.	1	18	73		
	Point 13 - Air emissions monitoring		21/12/21	31/01/22	NOx	ppm	Continuous Max limit 2878 g/min	Cont.	<2878 g/min			<2878 g/min	No
		Point 11 - First Flush Effluent quality monitoring		19/01/22	31/01/22	O&G	mg/L	Weekly during discharge with No visible oil	21	Nil			nil visual
			3/01/22	7/01/22	pH		Weekly during any discharge	13	6.70	7.29	8.45	6.5-8.5	No
	3/12/21		21/12/21	7/01/22	Salinity	ppt	Not required	1	n/a				
	Point 12 - Process Water Effluent quality monitoring	3/12/21	21/12/21	7/01/22	TSS	mg/L	Not required	1	n/a				
		3/12/21	21/12/21	7/01/22	O&G	mg/L	Monthly	1	<5			nil visual	No
		3/12/21	3/01/22	7/01/22	pH		Monthly	17	7.44			6.5-8.5	No
		3/12/21	21/12/21	7/01/22	Salinity	ppt	Not required	1	0.13				
		3/12/21	21/12/21	7/01/22	TDS	mg/L	Not required	1	108				
		3/12/21	21/12/21	7/01/22	TSS	mg/L	Not required	1	4				
Point 16 - Septic waste water Effluent quality monitoring	3/12/21	21/12/21	7/01/22	BOD	mg/L	Monthly	1	<5					
	3/12/21	21/12/21	7/01/22	FC	cfu/100mL	Monthly	1	<10					
	3/12/21	21/12/21	7/01/22	O&G	mg/L	Monthly	1	<3					
	3/12/21	21/12/21	7/01/22	TN	mg/L	Monthly	1	44					
	3/12/21	21/12/21	7/01/22	TDS	mg/L	Monthly	1	326					
	3/12/21	21/12/21	7/01/22	TSS	mg/L	Not required	1	37					
	3/12/21	21/12/21	7/01/22	TP	mg/L	Monthly	1	9.9					
Jan-22	Point 10 - Ambient air and weather monitoring station		28/01/22	14/02/22	NOx	ppb	Continuous	Cont.	0	5	67		
			28/01/22	14/02/22	O3	ppb	Continuous	Cont.	0	15	65		
	Point 13 - Air emissions monitoring		28/01/22	14/02/22	NOx	ppm	Continuous Max limit 2878 g/min	Cont.	<2878 g/min			<2878 g/min	No
		Point 11 - First Flush Effluent quality monitoring		28/01/22	14/02/22	O&G	mg/L	Weekly during discharge with No visible oil	5	Nil			nil visual
			3/02/22	14/02/22	pH		Weekly during any discharge	5	7.21	7.41	7.6	6.5-8.5	No
	14/01/22		28/01/22	31/01/22	Salinity	ppt	Not required	1	n/a				
	Point 12 - Process Water Effluent quality monitoring	14/01/22	28/01/22	31/01/22	TSS	mg/L	Not required	1	n/a				
		14/01/22	28/01/22	31/01/22	O&G	mg/L	Monthly	1	Nil			nil visual	No
		14/01/22	3/02/22	14/02/22	pH		Monthly	1	7.27			6.5-8.5	No
		14/01/22	28/01/22	31/01/22	Salinity	ppt	Not required	1	0.15				
		14/01/22	28/01/22	31/01/22	TDS	mg/L	Not required	1	124				
		14/01/22	28/01/22	31/01/22	TSS	mg/L	Not required	1	4				
Point 16 - Septic waste water Effluent quality monitoring	14/01/22	28/01/22	31/01/22	BOD	mg/L	Monthly	1	<5					
	14/01/22	28/01/22	31/01/22	FC	cfu/100mL	Monthly	1	4					
	14/01/22	28/01/22	31/01/22	O&G	mg/L	Monthly	1	<3					
	14/01/22	28/01/22	31/01/22	TN	mg/L	Monthly	1	51					
	14/01/22	28/01/22	31/01/22	TDS	mg/L	Monthly	1	287					
	14/01/22	28/01/22	31/01/22	TSS	mg/L	Not required	1	11					
	14/01/22	28/01/22	31/01/22	TP	mg/L	Monthly	1	6.8					
	Point 10 - Ambient air and weather monitoring station		11/03/22	14/03/22	NOx	ppb	Continuous	Cont.	0	9	61		
			11/03/22	14/03/22	O3	ppb	Continuous	Cont.	0	14	46		
	Point 13 - Air emissions monitoring		11/03/22	14/03/22	NOx	ppm	Continuous Max limit 2878 g/min	Cont.	<2878 g/min			<2878 g/min	No
		Point 11 - First Flush Effluent quality monitoring		4/03/22	14/03/22	O&G	mg/L	Weekly during discharge with No visible oil	10	Nil			nil visual
			11/03/22	14/03/22	pH		Weekly during any discharge	10	7.37	7.57	7.8	6.5-8.5	No
	1/02/22	3/03/22	14/03/22	Salinity	ppt	Not required	1	0.327					

Feb-22	Point 12 - Process Water Effluent quality monitoring	1/02/22	4/03/22	14/03/22	TSS	mg/L	Not required	1	6				
		1/02/22	4/03/22	14/03/22	O&G	mg/L	Monthly	1	<5			nil visual	No
		1/02/22	3/03/22	14/03/22	pH		Monthly	1	7.19			6.5-8.5	No
		1/02/22	4/03/22	14/03/22	Salinity	ppt	Not required	1	0.124				
		1/02/22	4/03/22	14/03/22	TDS	mg/L	Not required	1	102				
		1/02/22	4/03/22	14/03/22	TSS	mg/L	Not required	1	18				
	Point 16 - Septic waste water Effluent quality monitoring	1/02/22	4/03/22	14/03/22	BOD	mg/L	Monthly	1	<5				
		1/02/22	4/03/22	14/03/22	FC	cfu/100mL	Monthly	1	<1				
		1/02/22	4/03/22	14/03/22	O&G	mg/L	Monthly	1	<3				
		1/02/22	4/03/22	14/03/22	TN	mg/L	Monthly	1	51				
		1/02/22	4/03/22	14/03/22	TDS	mg/L	Monthly	1	435				
		1/02/22	4/03/22	14/03/22	TSS	mg/L	Not required	1	11				
		1/02/22	4/03/22	14/03/22	TP	mg/L	Monthly	1	13				
Mar-22	Point 10 - Ambient air and weather monitoring station		12/04/22	12/04/22	NOx	ppb	Continuous	Cont.	0	8	92		
			12/04/22	12/04/22	O3	ppb	Continuous	Cont.	0	14	54		
	Point 13 - Air emissions monitoring		12/04/22	12/04/22	NOx	ppm	Continuous Max limit 2878 g/min	Cont.	<2878 g/min			<2878 g/min	No
	Point 11 - First Flush Effluent quality monitoring		29/03/22	31/03/22	O&G	mg/L	Weekly during discharge with No visible oil	10	n.a			nil visual	No
			3/04/22	5/04/22	pH		Weekly during any discharge	10	6.78	7.15	7.39	6.5-8.5	No
	Point 12 - Process Water Effluent quality monitoring	1/03/22	29/03/22	31/03/22	Salinity	ppt	Not required	-	0.229				
		1/03/22	29/03/22	31/03/22	TSS	mg/L	Not required	-	2				
		1/03/22	29/03/22	31/03/22	O&G	mg/L	Monthly	1	<5			nil visual	No
		1/03/22	3/04/22	5/04/22	pH		Monthly	1	7.23			6.5-8.5	No
		1/03/22	29/03/22	31/03/22	Salinity	ppt	Not required	1	0.133				
		1/03/22	29/03/22	31/03/22	TDS	mg/L	Not required	1	110				
		1/03/22	29/03/22	31/03/22	TSS	mg/L	Not required	1	36				
		1/03/22	29/03/22	31/03/22	BOD	mg/L	Monthly	1	<5				
		1/03/22	29/03/22	31/03/22	FC	cfu/100mL	Monthly	1	<1				
		1/03/22	29/03/22	31/03/22	O&G	mg/L	Monthly	1	<3				
	Point 16 - Septic waste water Effluent quality monitoring	1/03/22	29/03/22	31/03/22	TN	mg/L	Monthly	1	19				
		1/03/22	29/03/22	31/03/22	TDS	mg/L	Monthly	1	252				
		1/03/22	29/03/22	31/03/22	TSS	mg/L	Not required	1	16				
1/03/22		29/03/22	31/03/22	TP	mg/L	Monthly	1	6.4					
Apr-22	Point 10 - Ambient air and weather monitoring station		12/05/22	16/05/22	NOx	ppb	Continuous	Cont.	0	6	74		
			12/05/22	16/05/22	O3	ppb	Continuous	Cont.	0	15	36		
	Point 13 - Air emissions monitoring		12/05/22	16/05/22	NOx	ppm	Continuous Max limit 2878 g/min	Cont.	<2878 g/min			<2878 g/min	No
	Point 11 - First Flush Effluent quality monitoring		5/05/22	16/05/22	O&G	mg/L	Weekly during discharge with No visible oil	13	N/A			nil visual	No
			3/05/22	16/05/22	pH		Weekly during any discharge	13	6.91	7.27	7.8	6.5-8.5	No
	Point 12 - Process Water Effluent quality monitoring	7/04/22	5/05/22	16/05/22	Salinity	ppt	Not required	-	0.138				
		7/04/22	5/05/22	16/05/22	TSS	mg/L	Not required	-	2				
		7/04/22	5/05/22	16/05/22	O&G	mg/L	Monthly	1	<5			nil visual	No
		7/04/22	3/05/22	16/05/22	pH		Monthly	1	6.99			6.5-8.5	No
		7/04/22	5/05/22	16/05/22	Salinity	ppt	Not required	1	0.138				
		7/04/22	5/05/22	16/05/22	TDS	mg/L	Not required	1	120				
		7/04/22	5/05/22	16/05/22	TSS	mg/L	Not required	1	6				
		7/04/22	5/05/22	16/05/22	BOD	mg/L	Monthly	1	<5				
	Point 16 - Septic waste water Effluent quality monitoring	7/04/22	5/05/22	16/05/22	FC	cfu/100mL	Monthly	1	9200				
		7/04/22	5/05/22	16/05/22	O&G	mg/L	Monthly	1	<3				
		7/04/22	5/05/22	16/05/22	TN	mg/L	Monthly	1	40				
		7/04/22	5/05/22	16/05/22	TDS	mg/L	Monthly	1	206				
		7/04/22	5/05/22	16/05/22	TSS	mg/L	Not required	1	61				
7/04/22		5/05/22	16/05/22	TP	mg/L	Monthly	1	2.8					
May-22	Point 10 - Ambient air and weather monitoring station		30/05/22	6/06/22	NOx	ppb	Continuous	Cont.	0	6	36		
			30/05/22	6/06/22	O3	ppb	Continuous	Cont.	0	15	28		
	Point 13 - Air emissions monitoring		30/05/22	6/06/22	NOx	ppm	Continuous Max limit 2878 g/min	Cont.	<2878 g/min			<2878 g/min	No
	Point 11 - First Flush Effluent quality monitoring		30/05/22	6/06/22	O&G	mg/L	Weekly during discharge with No visible oil	8	N/A			nil visual	No
			3/06/22	6/06/22	pH		Weekly during any discharge	8	7.09	7.43	8.01	6.5-8.5	No
	Point 12 - Process Water Effluent quality monitoring	3/05/22	20/05/22	30/05/22	Salinity	ppt	Not required	-	0.273				
		3/05/22	20/05/22	30/05/22	TSS	mg/L	Not required	-	4				
		3/05/22	20/05/22	30/05/22	O&G	mg/L	Monthly	1	Nil			nil visual	No
		3/05/22	3/06/22	6/06/22	pH		Monthly	1	6.98			6.5-8.5	No
		3/05/22	20/05/22	30/05/22	Salinity	ppt	Not required	1	0.148				
		3/05/22	20/05/22	30/05/22	TDS	mg/L	Not required	1	123				
		3/05/22	20/05/22	30/05/22	TSS	mg/L	Not required	1	11				
		3/05/22	20/05/22	30/05/22	BOD	mg/L	Monthly	1	<5				
	Point 16 - Septic waste water Effluent quality monitoring	3/05/22	20/05/22	30/05/22	FC	cfu/100mL	Monthly	1	<1				
3/05/22		20/05/22	30/05/22	O&G	mg/L	Monthly	1	<3					
3/05/22		20/05/22	30/05/22	TN	mg/L	Monthly	1	50					
3/05/22		20/05/22	30/05/22	TDS	mg/L	Monthly	1	356					
3/05/22		20/05/22	30/05/22	TSS	mg/L	Not required	1	18					
3/05/22		20/05/22	30/05/22	TP	mg/L	Monthly	1	13					