

**Tower Power Station**

**Licence Number:** 5357  
 EDL CSM (NSW) PTY LTD  
 PO BOX 4046  
**Licence Holder:** Eight Mile Plains 4113  
 Tower Coal Seam Methane Power Station  
 Douglas Park Drive  
**Licencee Address:** Douglas Park NSW 2569  
**Month:** FY 2016-17

**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 O&G, pH;  
 Volume monitoring daily for waste water discharges.

Month	Location of monitoring point	Sampled	Obtained	Published	Pollutant	Units	Monitoring Frequency and Limits	Measurement during month	Min	Mean	Max
Jul-16	Point 10 - Ambient air and weather monitoring station	-	12/08/16	2/11/16	Nox	ppb	Continuous	Continuous	0	5	52
		-	12/08/16	2/11/16	O3	ppb	Continuous	Continuous	-1	-	26
	Point 11 - Air emissions monitoring	-	-	2/11/16	NOx	ppm	Continuous with limit of 2132 g/min	Continuous			<2132g/min
		5/07/16	21/07/16	2/11/16	O&G	mg/L	Weekly during any discharge	4			No visual
	Point 8 - First Flush Effluent quality monitoring	-	-	2/11/16	pH		Weekly during any discharge	4	7.12	7.695	8.26
		5/07/16	21/07/16	2/11/16	TSS	mg/L	Not required	1			89
		5/07/16	21/07/16	2/11/16	Salinity	ppt	Not required	1			0.07
	Point 9 - Process Water Effluent quality monitoring	5/07/16	21/07/16	2/11/16	O&G	mg/L	Monthly	1			<5
		5/07/16	21/07/16	2/11/16	pH		Not required	1			7.15
Aug-16	Point 10 - Ambient air and weather monitoring station	-	12/09/16	2/11/16	Nox	ppb	Continuous	Continuous	0	12	237
		-	12/09/16	2/11/16	O3	ppb	Continuous	Continuous	-1	-	32
	Point 11 - Air emissions monitoring	-	-	2/11/16	NOx	ppm	Continuous with limit of 2132 g/min	Continuous			<2132g/min
		-	-	2/11/16	O&G	mg/L	Weekly during any discharge	5			No visual
	Point 8 - First Flush Effluent quality monitoring	2/08/16	29/08/16	2/11/16	pH		Weekly during any discharge	5	7.45	7.91	8.2
		2/08/16	29/08/16	2/11/16	TSS	mg/L	Not required	1			5
		2/08/16	29/08/16	2/11/16	Salinity	ppt	Not required	1			0.335
	Point 9 - Process Water Effluent quality monitoring	2/08/16	29/08/16	2/11/16	O&G	mg/L	Monthly	1			<5
		2/08/16	29/08/16	2/11/16	pH		Not required	1			7.48
Sep-16	Point 10 - Ambient air and weather monitoring station	-	12/10/16	2/11/16	Nox	ppb	Continuous	Continuous	0	10	231
		-	12/10/16	2/11/16	O3	ppb	Continuous	Continuous	0	-	39
	Point 11 - Air emissions monitoring	-	-	2/11/16	NOx	ppm	Continuous with limit of 2132 g/min	Continuous			<2132g/min
		-	-	2/11/16	O&G	mg/L	Weekly during any discharge				No visual
	Point 8 - First Flush Effluent quality monitoring	5/09/16	27/09/16	2/11/16	pH		Weekly during any discharge	3	7.2	7.47	7.7
		5/09/16	27/09/16	2/11/16	TSS	mg/L	Not required	1			2
		5/09/16	27/09/16	2/11/16	Salinity	ppt	Not required	1			0.207
	Point 9 - Process Water Effluent quality monitoring	5/09/16	27/09/16	2/11/16	O&G	mg/L	Monthly	1			5
		5/09/16	27/09/16	2/11/16	pH		Not required	1			7.75
Oct-16	Point 10 - Ambient air and weather monitoring station	14/10/16	11/11/16	17/11/16	Nox	ppb	Continuous	Continuous	0	7	223
		15/10/16	11/11/16	17/11/16	O3	ppb	Continuous	Continuous	0	21	45
	Point 11 - Air emissions monitoring	-	-	17/01/16	NOx	ppm	Continuous with limit of 2132 g/min	Continuous			<2132g/min
		-	-	17/01/16	O&G	mg/L	Weekly during any discharge	5			No visual
	Point 8 - First Flush Effluent quality monitoring	-	-	17/01/16	pH		Weekly during any discharge	5	7	7.3	7.8
		-	-	17/01/16	TSS	mg/L	Not required	0			
		-	-	17/01/16	Salinity	ppt	Not required	0			
	Point 9 - Process Water Effluent quality monitoring	4/10/16	19/10/16	17/11/16	O&G	mg/L	Monthly	1			<5
		4/10/16	19/10/16	17/11/16	pH		Not required	1			7.79
Nov-16	Point 10 - Ambient air and weather monitoring station	12/12/16	12/12/16	13/12/16	Nox	ppb	Continuous	Continuous	0	7	195
		12/12/16	12/12/16	13/12/16	O3	ppb	Continuous	Continuous	-1	21	76
	Point 11 - Air emissions monitoring	-	-	13/12/16	NOx	ppm	Continuous with limit of 2132 g/min	Continuous			<2132g/min
		-	-	13/12/16	O&G	mg/L	Weekly during any discharge				No visual
	Point 8 - First Flush Effluent quality monitoring	-	-	13/12/16	pH		Weekly during any discharge	7	7.3	7.9	
		-	-	13/12/16	TSS	mg/L	Not required	0			
		-	-	13/12/16	Salinity	ppt	Not required	0			
	Point 9 - Process Water Effluent quality monitoring	2/11/16	28/11/16	7/12/16	O&G	mg/L	Monthly	1			<5
		2/11/16	28/11/16	7/12/16	pH		Not required	1			7.43
Dec-16	Point 10 - Ambient air and weather monitoring station	12/01/17	12/01/17	1/02/17	Nox	ppb	Continuous	Continuous	0	6	124
		12/01/17	12/01/17	1/02/17	O3	ppb	Continuous	Continuous	-1	23	75
	Point 11 - Air emissions monitoring	-	-	18/01/17	NOx	ppm	Continuous with limit of 2132 g/min	Continuous			<2132g/min
		-	-	18/01/17	O&G	mg/L	Weekly during any discharge	3			No visual
	Point 8 - First Flush Effluent quality monitoring	-	-	18/01/17	pH		Weekly during any discharge	3	6.8	7.3	7.6
		-	-	18/01/17	TSS	mg/L	Not required	0			
		-	-	18/01/17	Salinity	ppt	Not required	0			
	Point 9 - Process Water Effluent quality monitoring	2/11/16	15/12/16	18/01/17	O&G	mg/L	Monthly	1			<5
		2/11/16	15/12/16	18/01/17	pH		Not required	1			7.36
Jan-17	Point 10 - Ambient air and weather monitoring station	10/02/17	10/02/17	13/02/17	Nox	ppb	Continuous	Continuous	0	1	14
		10/02/17	10/02/17	13/02/17	O3	ppb	Continuous	Continuous	0	6	74
	Point 11 - Air emissions monitoring	-	-	13/02/17	NOx	ppm	Continuous with limit of 2132 g/min	Continuous			<2132g/min
		-	-	13/02/17	O&G	mg/L	Weekly during any discharge	3			No visual
	Point 8 - First Flush Effluent quality monitoring	4/01/17	24/01/17	13/02/17	pH		Weekly during any discharge	3	7.2	7.8	8.35
		4/01/17	24/01/17	13/02/17	TSS	mg/L	Not required	1			2
		4/01/17	24/01/17	13/02/17	Salinity	ppt	Not required	1			0.274
	Point 9 - Process Water Effluent quality monitoring	4/01/17	24/01/17	13/02/17	O&G	mg/L	Monthly	1			<5
		4/01/17	24/01/17	13/02/17	pH		Not required	1			7.18
Point 10 - Ambient air and weather monitoring station	10/03/17	10/03/17	15/03/17	Nox	ppb	Continuous	Continuous	0	10	353	
	10/03/17	10/03/17	15/03/17	O3	ppb	Continuous	Continuous	-2	20	76	
	-	-	15/03/17	NOx	ppm	Continuous with limit of 2132 g/min	Continuous			<2132g/min	

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Feb-17	Point 8 - First Flush Effluent quality monitoring			10/03/17	O&G	mg/L	Weekly during any discharge	4	No visual			
				10/03/17	pH		Weekly during any discharge	4	6.97	7.49	8.34	
		3/02/17	21/02/17	10/03/17	TSS	mg/L	Not required	1	5			
		3/02/17	21/02/17	10/03/17	Salinity		Not required	1	0.516			
		3/02/17	21/02/17	10/03/17	O&G	mg/L	Monthly	1	<5			
Point 9 - Process Water Effluent quality monitoring	3/02/17	21/02/17	10/03/17	pH		Not required	1	7.29				
	12/04/17	12/04/17	19/04/17	NOx	ppb	Continuous	Continuous	0	6	89		
Point 10 - Ambient air and weather monitoring station	12/04/17	12/04/17	19/04/17	O3	ppb	Continuous	Continuous	1	16	65		
			27/03/17	19/04/17	NOx	ppm	Continuous with limit of 2132 g/min	Continuous	<2132g/min			
Mar-17	Point 8 - First Flush Effluent quality monitoring			11/04/17	O&G	mg/L	Weekly during any discharge	5	No Visual			
				27/03/17	11/04/17	pH	Weekly during any discharge	5	6.72	7.52	7.87	
		2/03/17	31/03/17	11/04/17	TSS	mg/L	Not required	1	2			
		2/03/17	31/03/17	11/04/17	Salinity		Not required	1	0.163			
		2/03/17	31/03/17	11/04/17	O&G	mg/L	Monthly	1	<5			
Point 9 - Process Water Effluent quality monitoring	2/03/17	31/03/17	11/04/17	pH		Not required	1	7.53				
			12/05/17	19/05/17	NOx	ppb	Continuous	Continuous	0	13	225	
Point 10 - Ambient air and weather monitoring station			12/05/17	19/05/17	O3	ppb	Continuous	Continuous	-1	15	43	
			3/05/17	NOx	ppm	Continuous with limit of 2132 g/min	Continuous	<2132g/min				
Apr-17	Point 8 - First Flush Effluent quality monitoring	4/04/17	26/04/17	3/05/17	O&G	mg/L	Weekly during any discharge	5	No Visual			
		4/04/17	26/04/17	3/05/17	pH		Weekly during any discharge	5	6.6	6.975	7.4	
		4/04/17	26/04/17	3/05/17	TSS	mg/L	Not required	1	2			
		4/04/17	26/04/17	3/05/17	Salinity		Not required	1	0.253			
		4/04/17	26/04/17	3/05/17	O&G	mg/L	Monthly	1	<5			
Point 9 - Process Water Effluent quality monitoring	4/04/17	26/04/17	3/05/17	pH		Not required	1	7.76				
			14/06/17	19/06/17	NOx	ppb	Continuous	Continuous	1	13	110	
Point 10 - Ambient air and weather monitoring station			14/06/17	19/06/17	O3	ppb	Continuous	Continuous	-1	15	32	
			7/06/17	14/06/17	NOx	ppm	Continuous with limit of 2132 g/min	Continuous	<2132g/min			
May-17	Point 8 - First Flush Effluent quality monitoring			7/06/17	O&G	mg/L	Weekly during any discharge	5	No Visual			
				7/06/17	14/06/17	pH	Weekly during any discharge	5	7.3	7.874	8.4	
		2/05/17	19/05/17	19/05/17	TSS	mg/L	Not required	1	2			
		2/05/17	19/05/17	19/05/17	Salinity	ppt	Not required	1	0.331			
		2/05/17	19/05/17	19/05/17	O&G	mg/L	Monthly	1	<5			
Point 9 - Process Water Effluent quality monitoring	2/05/17	19/05/17	19/05/17	pH		Monthly	1	7.84				
	2/05/17	19/05/17	19/05/17	TSS	mg/L	Not required	1	7				
Point 10 - Ambient air and weather monitoring station	2/05/17	19/05/17	19/05/17	Salinity	ppt	Not required	1	0.196				
			13/07/17	13/07/17	NOx	ppb	Continuous	Continuous	1	12	127	
Point 11 - Air emissions monitoring			13/07/17	13/07/17	O3	ppb	Continuous	Continuous	-1	14	27	
			3/07/17	6/07/17	NOx	ppm	Continuous with limit of 2132 g/min	Continuous	<2132g/min			
Jun-17	Point 8 - First Flush Effluent quality monitoring			3/07/17	6/07/17	O&G	mg/L	Weekly during any discharge	5	No Visual		
				3/07/17	6/07/17	pH	Weekly during any discharge	5	6.85	7.818	8.43	
		1/06/17		6/07/17	TSS	mg/L	Not required	0				
		1/06/17		6/07/17	Salinity	ppt	Not required	0				
		1/06/17	21/06/17	6/07/17	O&G	mg/L	Monthly	1	<5			
Point 9 - Process Water Effluent quality monitoring	1/06/17	21/06/17	6/07/17	pH		Monthly	1	7.6				
	1/06/17	21/06/17	6/07/17	TDS	mg/L	Not required	1	124				
Point 10 - Ambient air and weather monitoring station	1/06/17	21/06/17	6/07/17	TSS	mg/L	Not required	1	7				
	1/06/17	21/06/17	6/07/17	Salinity	ppt	Not required	1	0.15				
Annual review of volume monitoring	Point 7 - First flush and process water 'Wastewater Volume Monitoring Point' on drawing 824-BA-072			22/06/17	29/07/20	Volume	kl/day	Daily, collated annually	365	0.00	8.07	182.00

The First Flush samples were not collected as the storage pits were empty at the time of collection

Note: Volume monitoring covers the period of 03 May to 02 May

Change Log

- Date Change
- 16/07/20 Included frequency of sampling into data sheet
- 28/07/20 Included sampling requirement and limit for each month to match licence
- 29/07/20 Included volume monitoring data