

Tower Power Station

Licence Number: 5357

Licence Holder: EDL CSM (NSW) PTY LTD

Licensee Address: Tower Coal Seam Methane Power Station

Month: FY 2014-15

Continuous monitoring for ambient NOx, O3 (taken off site) and point source NO3 air emissions;

Frequency: 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 Limit	Measurement during month	Min	Mean	Max
Jul-14	Point 10 - Ambient air and weather monitoring station	-	14/08/14	20/08/14	NOx	ppb	Continuous	Continuous	0	9	100
		-	14/08/14	20/08/14	O3	ppb	Continuous	Continuous	-1	-	32
	Point 11 - Air emissions monitoring	-	-	7/08/14	NOx	ppm	Continuous with limit of 2132g/min	Continuous	< 2132g/min		
	Point 8 - First Flush Effluent quality monitoring	-	-	7/08/14	O&G	mg/L	Weekly during any discharge	6	No visual		
		-	-	7/08/14	pH		Weekly during any discharge	6	7.05	7.3	7.9
Point 9 - Process Water Effluent quality monitoring	2/07/14	18/07/14	21/07/14	O&G	mg/L	Monthly	1	5			
		2/07/14	18/07/14	21/07/14	pH		Monthly	1	7.1		
Aug-14	Point 10 - Ambient air and weather monitoring station	-	25/09/14	7/10/14	NOx	ppb	Continuous	Continuous	2	9	113
		-	25/09/14	7/10/14	O4	ppb	Continuous	Continuous	2	35	35
	Point 11 - Air emissions monitoring	-	-	28/08/14	NOx	ppm	Continuous with limit of 2132g/min	Continuous	<2132g/min		
	Point 8 - First Flush Effluent quality monitoring	-	-	28/08/14	O&G	mg/L	Weekly during any discharge	3	No visual		
		-	-	28/08/14	pH		Weekly during any discharge	3	7.4	7.7	7.9
Point 9 - Process Water Effluent quality monitoring	4/08/14	25/08/14	28/08/14	O&G	mg/L	Monthly	1	4			
		4/08/14	25/08/14	28/08/14	pH		Monthly	1	7.22		
Sep-14	Point 10 - Ambient air and weather monitoring station	-	14/10/14	14/10/14	NOx	ppb	Continuous	Continuous	0	7	84
		-	14/10/14	14/10/14	O4	ppb	Continuous	Continuous	1	22	40
	Point 11 - Air emissions monitoring	-	-	14/10/14	NOx	ppm	Continuous with limit of 2132g/min	Continuous	<2132g/min		
	Point 8 - First Flush Effluent quality monitoring	-	-	7/10/14	O&G	mg/L	Weekly during any discharge	2	None observed		
		-	-	7/10/14	pH		Weekly during any discharge	2	7.4	7.5	7.6
Point 9 - Process Water Effluent quality monitoring	2/09/14	29/09/14	7/10/14	O&G	mg/L	Monthly	1	6			
		2/09/14	29/09/14	7/10/14	pH		Monthly	1	7.24		
Oct-14	Point 10 - Ambient air and weather monitoring station	-	13/11/14	13/11/14	NOx	ppb	Continuous	Continuous	0	7	97
		-	13/11/14	13/11/14	O5	ppb	Continuous	Continuous	0	24	61
	Point 11 - Air emissions monitoring	-	-	7/11/14	NOx	ppm	Continuous with limit of 2132g/min	Continuous	<2132g/min		
	Point 8 - First Flush Effluent quality monitoring	-	-	7/11/14	O&G	mg/L	Weekly during any discharge	1	Nil		
		-	-	7/11/14	pH		Weekly during any discharge	1	7.9		
Point 9 - Process Water Effluent quality monitoring	1/10/14	31/10/14	7/11/14	O&G	mg/L	Monthly	1	5			
		1/10/14	31/10/14	7/11/14	pH		Monthly	1	7.22		
Nov-14	Point 10 - Ambient air and weather monitoring station	-	12/12/14	15/12/14	NOx	ppb	Continuous	Continuous	1	6	74
		-	12/12/14	15/12/14	O4	ppb	Continuous	Continuous	0	24	75
	Point 11 - Air emissions monitoring	-	-	15/12/14	NOx	ppm	Continuous with limit of 2132g/min	Continuous	<2132g/min		
	Point 8 - First Flush Effluent quality monitoring	-	-	17/11/14	O&G	mg/L	Weekly during any discharge	5	Nil		
		-	-	17/11/14	pH		Weekly during any discharge	5	7.7	7.8	7.8
Point 9 - Process Water Effluent quality monitoring	3/11/14	14/11/14	17/11/14	O&G	mg/L	Monthly	1	5			
		3/11/14	14/11/14	17/11/14	pH		Monthly	1	7.37		
Dec-14	Point 10 - Ambient air and weather monitoring station	-	12/01/15	13/03/15	NOx	ppb	Continuous	Continuous	0	6	76
		-	12/01/15	13/03/15	O5	ppb	Continuous	Continuous	3	24	79
	Point 11 - Air emissions monitoring	-	-	13/03/15	NOx	ppm	Continuous with limit of 2132g/min	Continuous	<2132g/min		
	Point 8 - First Flush Effluent quality monitoring	-	-	13/03/15	O&G	mg/L	Weekly during any discharge	5	Nil		
		-	-	13/03/15	pH		Weekly during any discharge	5	7.8	7.8	7.7
Point 9 - Process Water Effluent quality monitoring	2/12/14	29/12/14	13/03/15	O&G	mg/L	Monthly	1	6			
		2/12/14	29/12/14	13/03/15	pH		Monthly	1	7.25		
Jan-15	Point 10 - Ambient air and weather monitoring station	-	12/02/15	13/03/15	NOx	ppb	Continuous	Continuous	0	8	85
		-	12/02/15	13/03/15	O5	ppb	Continuous	Continuous	1	18	85
	Point 11 - Air emissions monitoring	-	-	13/03/15	NOx	ppm	Continuous with limit of 2132g/min	Continuous	<2132g/min		
	Point 8 - First Flush Effluent quality monitoring	-	-	13/03/15	O&G	mg/L	Weekly during any discharge	5	Nil		
		-	-	13/03/15	pH		Weekly during any discharge	5	7.7	8	8.6
Point 9 - Process Water Effluent quality monitoring	6/01/15	3/02/15	13/03/15	O&G	mg/L	Monthly	1	<5			
		6/01/15	3/02/15	13/03/15	pH		Monthly	1	11.12		
Feb-15	Point 10 - Ambient air and weather monitoring station	-	12/03/15	13/03/15	NOx	ppb	Continuous	Continuous	0	7	79
		-	12/03/15	13/03/15	O6	ppb	Continuous	Continuous	0	15	67
	Point 11 - Air emissions monitoring	-	-	13/03/15	NOx	ppm	Continuous with limit of 2132g/min	Continuous	<2132g/min		
	Point 8 - First Flush Effluent quality monitoring	-	-	13/03/15	O&G	mg/L	Weekly during any discharge	0	No discharges for the month.		
		-	-	13/03/15	pH		Weekly during any discharge	0			
Point 9 - Process Water Effluent quality monitoring	3/02/15	9/03/15	13/03/15	O&G	mg/L	Monthly	1	<5			
		3/02/15	9/03/15	13/03/15	pH		Monthly	1	7.38		

Month	Location of monitoring point	Sampled	Obtained	Published	Pollutant	Units	Monitoring Frequency and Limit	Measurement during month	Min	Mean	Max
Mar-15		-	10/04/15	10/04/15	NOx	ppb	Continuous	Continuous	0	8	82
	Point 10 - Ambient air and weather monitoring station	-	10/04/15	10/04/15	O6	ppb	Continuous	Continuous	0	--	67
	Point 11 - Air emissions monitoring	-	-	10/04/15	NOx	ppm	Continuous with limit of 2132g/min	Continuous	<2132g/min		
		-	-	10/04/15	O&G	mg/L	Weekly during any discharge	3	Nil observed		
	Point 8 - First Flush Effluent quality monitoring	-	-	10/04/15	pH		Weekly during any discharge	3	7.19 mean		
	Point 9 - Process Water Effluent quality monitoring	2/03/15	17/03/15	10/04/15	O&G	mg/L	Monthly	1	<5		
Apr-15		-	12/05/15	18/05/15	NOx	ppb	Continuous	Continuous	0	10	93
	Point 10 - Ambient air and weather monitoring station	-	12/05/15	18/05/15	O7	ppb	Continuous	Continuous	-1	16	43
	Point 11 - Air emissions monitoring	-	-	18/05/15	NOx	ppm	Continuous with limit of 2132g/min	Continuous	<2132g/min		
		-	-	18/05/15	O&G	mg/L	Weekly during any discharge	3	Nil observed		
	Point 8 - First Flush Effluent quality monitoring	-	-	18/05/15	pH		Weekly during any discharge	3	8.1 mean		
	Point 9 - Process Water Effluent quality monitoring	1/04/15	16/04/15	18/05/15	O&G	mg/L	Monthly	1	7		
May-15		-	19/06/15	19/06/15	NOx	ppb	Continuous	Continuous	0	6	58
	Point 10 - Ambient air and weather monitoring station	-	19/06/15	19/06/15	O7	ppb	Continuous	Continuous	-1	15	29
	Point 11 - Air emissions monitoring	-	-	19/06/15	NOx	ppm	Continuous with limit of 2132g/min	Continuous	<2132g/min		
		-	-	19/06/15	O&G	mg/L	Weekly during any discharge	11	Nil observed		
	Point 8 - First Flush Effluent quality monitoring	-	-	19/06/15	pH		Weekly during any discharge	11	7.3	7.9	8.4
	Point 9 - Process Water Effluent quality monitoring	4/05/15	19/05/15	19/06/15	pH		Monthly	1	7		
Jun-15		-	13/07/15	15/07/15	NOx	ppb	Continuous	Continuous	0	10	68
	Point 10 - Ambient air and weather monitoring station	-	13/07/15	15/07/15	O8	ppb	Continuous	Continuous	-1	0	28
	Point 11 - Air emissions monitoring	-	-	15/07/15	NOx	ppm	Continuous with limit of 2132g/min	Continuous	<2132g/min		
		-	-	15/07/15	O&G	mg/L	Weekly during any discharge	8	No visual		
	Point 8 - First Flush Effluent quality monitoring	-	-	15/07/15	pH		Weekly during any discharge	8	7.7	7.925	8.3
	Point 9 - Process Water Effluent quality monitoring	1/06/15	16/06/15	15/07/15	O&G	mg/L	Monthly	1	7		
Annual review of volume monitoring					Volume	kl/day	Daily, collated annually	First flush - 62	38.4 mean		
	Point 7 - First flush and process water 'Wastewater Volume Monitoring Point' on drawing 824-BA-072		25/06/15	29/07/20	Volume	kl/day	Daily, collated annually	Process - 283	2.3 mean		

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 for each month to match licence

29/07/20 Included volume monitoring data