



Tower Power Station
 Licence Number: 5357
 Licence Holder: EDL CSM (NSW) PTY LTD
 Licensee Address: Douglas Park Drive
 Douglas Park NSW 2569

Dates: FY 2020-21

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, visible oil and grease (O&G);

Frequency: 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	Licence Limit	Exceedance (Yes/No)		
Jul-20	Point 10 - Ambient air and weather monitoring station		31/08/20	2/09/20	NOx	ppb	Continuous	Continuous	0	7	73				
			31/08/20	2/09/20	O3	ppb	Continuous	Continuous	0	18	33				
	Point 11 - Air emissions monitoring		5/08/20	10/08/20	NOx	ppm measured as g/min	Continuous with limit of 2132 g/min	Continuous	< 2132 g/min				No		
			5/08/20	10/08/20	O&G	mg/L	Weekly during any discharge - No visible oil	11	None visible						
	Point 8 - First Flush Effluent quality monitoring		5/08/20	10/08/20	pH		Weekly during any discharge	11	7.22	7.59	8.14				
			7/07/20	22/07/20	10/08/20	TSS	mg/L	No requirement	0	-				First flush was empty during sampling	
			7/07/20	22/07/20	10/08/20	Salinity	ppt	No requirement	0	-					
			7/07/20	22/07/20	10/08/20	pH		Monthly	1	7.22					
			7/07/20	22/07/20	10/08/20	O&G	mg/L	Monthly	1	<5					
			7/07/20	22/07/20	10/08/20	TDS	mg/L	No requirement	1	101					
			7/07/20	22/07/20	10/08/20	TSS	mg/L	No requirement	1	9					
	Point 9 - Process Water Effluent quality monitoring		22/07/20	22/07/20	10/08/20	Salinity	ppt	No requirement	1	0.122					
		11/09/20	28/09/20	28/09/20	NOx	ppb	Continuous	Continuous	0	2	29				
Point 10 - Ambient air and weather monitoring station			11/09/20	28/09/20	O3	ppb	Continuous	Continuous	-2	20	42				
			23/09/20	28/09/20	NOx	ppm	Continuous with limit of 2132 g/min	Continuous	<2132 g/min				No		
Point 11 - Air emissions monitoring			3/09/20	3/09/20	O&G	mg/L	Weekly during any discharge - no visible oil	12	None visible						
			3/09/20	3/09/20	pH		Weekly during any discharge	12	7.6	8.07	8.43				
Point 8 - First Flush Effluent quality monitoring			5/08/20	1/09/20	2/09/20	TSS	mg/L	No requirement	0	-				First flush was empty during sampling	
		5/08/20	1/09/20	2/09/20	Salinity	ppt	No requirement	0	-						
		5/08/20	1/09/20	2/09/20	pH		Monthly	1	7.33						
		5/08/20	1/09/20	2/09/20	O&G	mg/L	Monthly	1	< 5						
	Point 9 - Process Water Effluent quality monitoring		5/08/20	1/09/20	2/09/20	TDS	mg/L	No requirement	1	123					
			5/08/20	1/09/20	2/09/20	TSS	mg/L	No requirement	1	13					
			5/08/20	1/09/20	2/09/20	Salinity	ppt	No requirement	1	0.146					
Sep-20	Point 10 - Ambient air and weather monitoring station		12/10/20	15/10/20	NOx	ppb	Continuous	Continuous	-1	6	66				
			12/10/20	15/10/20	O3	ppb	Continuous	Continuous	2	21	46				
	Point 11 - Air emissions monitoring		2/10/20	15/10/20	NOx	ppm	Continuous with limit of 2132 g/min	Continuous	<2132 g/min				No		
			1/10/20	15/10/20	O&G	mg/L	Weekly during any discharge - no visible oil	11	nil						
	Point 8 - First Flush Effluent quality monitoring		1/10/20	15/10/20	pH		Weekly during any discharge	11	7.58	7.95	8.26				
			2/09/20	21/09/20	28/09/20	TSS	mg/L	No requirement	0	-				First flush was empty during sampling	
			2/09/20	21/09/20	28/09/20	Salinity	ppt	No requirement	0	-					
			2/09/20	21/09/20	28/09/20	pH		Monthly	1	7.67					
			2/09/20	21/09/20	28/09/20	O&G	mg/L	Monthly	1	<5					
			2/09/20	21/09/20	28/09/20	TDS	mg/L	No requirement	1	5					
			2/09/20	21/09/20	28/09/20	TSS	mg/L	No requirement	1	5					
	Point 9 - Process Water Effluent quality monitoring		2/09/20	21/09/20	28/09/20	Salinity	ppt	No requirement	1	0.161					
Point 10 - Ambient air and weather monitoring station			12/11/20	16/11/20	NOx	ppb	Continuous	Continuous	1	8	76				
			12/11/20	16/11/20	O3	ppb	Continuous	Continuous	4	23	66				
Point 11 - Air emissions monitoring			13/11/20	16/11/20	NOx	ppm	Continuous with limit of 2132 g/min	Continuous	<2132 g/min				No		
			5/11/20	16/11/20	O&G	mg/L	Weekly during any discharge - no visible oil	5	nil						
Point 8 - First Flush Effluent quality monitoring			5/11/20	16/11/20	pH		Weekly during any discharge	5	7.4	7.96	8.39				
			8/10/20	6/11/20	16/11/20	TSS	mg/L	No requirement	1	10					
		8/10/20	6/11/20	16/11/20	Salinity	ppt	No requirement	1	0.177						
		8/10/20	6/11/20	16/11/20	pH		Monthly	1	7.35						
	Point 9 - Process Water Effluent quality monitoring		8/10/20	6/11/20	16/11/20	O&G	mg/L	Monthly	1	<5					
			8/10/20	6/11/20	16/11/20	TDS	mg/L	No requirement	1	168					
			8/10/20	6/11/20	16/11/20	TSS	mg/L	No requirement	1	14					
	8/10/20	6/11/20	16/11/20	Salinity	ppt	No requirement	1	0.2							
Nov-20	Point 10 - Ambient air and weather monitoring station		11/12/20	15/12/20	NOx	ppb	Continuous	Continuous	0	6	86				
			11/12/20	15/12/20	O3	ppb	Continuous	Continuous	1	21	74				
	Point 11 - Air emissions monitoring		15/12/20	15/12/20	NOx	ppm	Continuous with limit of 2132 g/min	Continuous	<2132 g/min				No		
			4/12/20	15/12/20	O&G	mg/L	Weekly during any discharge - no visible oil	15	Nil						
	Point 8 - First Flush Effluent quality monitoring		4/12/20	15/12/20	pH		Weekly during any discharge	15	7.17	7.88	8.43				
			4/11/20	16/11/20	1/12/20	TSS	mg/L	No requirement	1	13					
			4/11/20	16/11/20	1/12/20	Salinity	ppt	No requirement	1	0.269					
			4/11/20	16/11/20	1/12/20	pH		Monthly	1	7.31					
		Point 9 - Process Water Effluent quality monitoring		4/11/20	16/11/20	1/12/20	O&G	mg/L	Monthly	1	<5				
				4/11/20	16/11/20	1/12/20	TDS	mg/L	No requirement	1	104				
				4/11/20	16/11/20	1/12/20	TSS	mg/L	No requirement	1	9				
		4/11/20	16/11/20	1/12/20	Salinity	ppt	No requirement	1	0.127						

Dec-20	Point 10 - Ambient air and weather monitoring station		12/01/21	12/01/21	NOx	ppb	Continuous	Continuous	0	6	56			
			12/01/21	12/01/21	O3	ppb	Continuous	Continuous	1	17	60			
	Point 11 - Air emissions monitoring		15/12/20	15/12/20	NOx	ppm	Continuous with limit of 2132 g/min	Continuous	<2132 g/min				No	
	Point 8 - First Flush Effluent quality monitoring		4/01/20	12/01/21	O&G	mg/L	Weekly during any discharge - no visible oil	12	nil					
			4/01/20	12/01/21	pH		Weekly during any discharge	12	7.26	7.81	8.3			
		2/12/20	14/12/20	15/12/20	TSS	mg/L	No requirement	1	10					
	Point 9 - Process Water Effluent quality monitoring	2/12/20	14/12/20	15/12/20	Salinity	ppt	No requirement	1	0.337					
		2/12/20	14/12/20	15/12/20	pH		Monthly	1	6.76					
		2/12/20	14/12/20	15/12/20	O&G	mg/L	Monthly	1	<5					
		2/12/20	14/12/20	15/12/20	TDS	mg/L	No requirement	1	97					
2/12/20		14/12/20	15/12/20	TSS	mg/L	No requirement	1	9						
2/12/20		14/12/20	15/12/20	Salinity	ppt	No requirement	1	0.116						
Jan-21	Point 10 - Ambient air and weather monitoring station		12/02/21	16/02/21	NOx	ppb	Continuous	Continuous	0	6	41			Note: Licence amended in January 2021 to include licence limits for pH and Oil and Grease
			12/02/21	16/02/21	O3	ppb	Continuous	Continuous	0	19	92			
	Point 11 - Air emissions monitoring		12/02/21	16/02/21	NOx	ppm	Continuous with limit of 2132 g/min	Continuous	<2132 g/min					
	Point 8 - First Flush Effluent quality monitoring		12/02/21	16/02/21	O&G	mg/L	Weekly during any discharge - no visible oil	14	nil			nil visual	No	
			12/02/21	16/02/21	pH		Weekly during any discharge	14	7.44	8	8.32	6.5-8.5	No	
		15/01/21	2/02/21	16/02/21	TSS	mg/L	No requirement	0	-				First flush was empty during sampling	
	Point 9 - Process Water Effluent quality monitoring	15/01/21	2/02/21	16/02/21	Salinity	ppt	No requirement	0	-					
		15/01/21	2/02/21	16/02/21	pH		Monthly	1	11.74			6.5-8.5	Yes	
		15/01/21	2/02/21	16/02/21	O&G	mg/L	Monthly	1	<5			nil visual	No	
		15/01/21	2/02/21	16/02/21	TDS	mg/L	No requirement	1	812					
15/01/21		2/02/21	16/02/21	TSS	mg/L	No requirement	1	9						
15/01/21		2/02/21	16/02/21	TSS	mg/L	No requirement	1	9						
15/01/21		2/02/21	16/02/21	Salinity	ppt	No requirement	1	0.93						
Feb-21	Point 10 - Ambient air and weather monitoring station				NOx	ppb	Continuous	Continuous						
					O3	ppb	Continuous	Continuous						
	Point 11 - Air emissions monitoring				NOx	ppm	Continuous with limit of 2132 g/min	Continuous	<2132 g/min					
	Point 8 - First Flush Effluent quality monitoring				O&G	mg/L	Weekly during any discharge - no visible oil		nil			nil visual	No	
					pH		Weekly during any discharge					6.5-8.5	No	
		3/02/21	17/02/21	2/03/21	TSS	mg/L	No requirement	0	-				First flush was empty during sampling	
	Point 9 - Process Water Effluent quality monitoring	3/02/21	17/02/21	2/03/21	Salinity	ppt	No requirement	0	-					
		3/02/21	17/02/21	2/03/21	pH		Monthly	1	7.28			6.5-8.5	Yes	
		3/02/21	17/02/21	2/03/21	O&G	mg/L	Monthly	1	<5			nil visual	No	
		3/02/21	17/02/21	2/03/21	TDS	mg/L	No requirement	1	125					
3/02/21		17/02/21	2/03/21	TSS	mg/L	No requirement	1	6						
3/02/21		17/02/21	2/03/21	TSS	mg/L	No requirement	1	6						
3/02/21		17/02/21	2/03/21	Salinity	ppt	No requirement	1	0.15						