

	Tower Power Station Licence Number:	5357									וטג
	Licence Holder:									-	
	Licensee Address: Dates:	Douglas Pa FY 2020-21	rk NSW 256	9							
	Frequency	Snot sample	ina weekly di	uring discharg	e for First Flu	ish pH and	point source NO3 air emissi oil and grease (O&G);	ions;			
		Volume mo	nitoring daily	or Process Water for waste water	ater Effluent er discharge	O&G, pH; s.					
lonth	Location of monitoring point	Sampled	Obtained	Published	Pollutant	Units	Monitoring Frequency and Limit	Measurement during month	Min Mean Max	Licence Limit	Exceedance (Yes/No)
	Point 10 - Ambient air and weather monitoring station		12/08/21	18/08/21 18/08/21	NOx O3	ppb ppb	Continuous Continuous	Continuous Continuous	0 6 99		
	Point 11 - Air emissions		12/07/21	23/07/21	NOx	ppm	Continuous with limit of 2132 g/min	Continuous with	< 2132 g/min	< 2132 g/min	No
	monitoring		12/07/21	2007/21	1102	ppm	(1hr rolling average)	limit of 2132 g/min Weekly during any		C 2132 g/min	110
	Point 8 - First Flush Effluent quality monitoring		1/07/21	1/07/21	O&G	mg/L	Weekly during any discharge - no visible oil	discharge - no visible oil	Nil	nil visual	
Jul-21			1/07/21	1/07/21	pН		Weekly during any discharge	Weekly during any discharge	7.03 7.58 8.32	6.5-8.5	No
		n.a n.a	n.a n.a	n.a n.a	TSS Salinity	mg/L ppt	No requirement No requirement	No requirement No requirement	n/a n/a		
	Point 9 - Process Water Effluent quality monitoring	12/07/21	23/07/21	26/07/21 26/07/21	pH O&G	mg/L	Monthly Monthly	Monthly Monthly	7.34 <5	6.5-8.5 nil visual	No
		12/07/21 12/07/21	23/07/21 23/07/21	26/07/21 26/07/21	TDS TSS	mg/L mg/L	No requirement No requirement	No requirement No requirement	144 7		
		12/07/21	23/07/21	26/07/21	Salinity	ppt	No requirement Continuous	No requirement Continuous	0.168		
	Point 10 - Ambient air and weather monitoring station		11/09/21	13/09/21	03	ppb	Continuous	Continuous	0 17 30		
	Point 11 - Air emissions		27/08/21	13/09/21	NOx	ppm	Continuous with limit of 2132 g/min	Continuous	< 2132 g/min	< 2132 g/min	No
	monitoring					-	(1hr rolling average) Weekly during any				140
			6/09/21	10/09/21	O&G	mg/L	discharge - no visible oil Weekly during any	12	n/a	nil visual	
Aug-21	Point 8 - First Flush Effluent quality monitoring		6/09/21	10/09/21	рН		discharge	12	7.28 7.86 8.35	6.5-8.5	No
		n.a	n.a	n.a	TSS Salinity	mg/L	No requirement No requirement	0	-		
		n.a	n.a 6/09/21	n.a 10/09/21	Salinity	ppt	Monthly	0	7.94	6.5-8.5	No
	Point 9 - Process Water Effluent quality monitoring	4/08/21 4/08/21	19/08/21 19/08/21	25/08/21 25/08/21	O&G TDS	mg/L mg/L	Monthly No requirement	1	<5 131	nil visual	
	,,umonig	4/08/21 4/08/21	19/08/21 19/08/21	25/08/21 25/08/21	TSS Salinity	mg/L ppt	No requirement No requirement	1	67 0.156		
	Point 10 - Ambient air and		12/10/21	18/10/21	NOx	ppb	Continuous	Continuous	0 7 100		
	weather monitoring station		12/10/21	18/10/21	O3	ppb	Continuous Continuous with limit of	Continuous	2 22 44		
	Point 11 - Air emissions monitoring		25/10/21	1/11/21	NOx	ppm	2132 g/min (1hr rolling average)	Continuous	< 2132 g/min	< 2132 g/min	No
			25/10/21	1/11/21	O&G	mg/L	Weekly during any discharge - no visible oil	11	Nil	nil visual	
Sep-21	Point 8 - First Flush Effluent quality monitoring		25/10/21	1/11/21	рН		Weekly during any discharge	11	7.18 7.72 8.3	6.5-8.5	No
		3/09/21	29/09/21 29/09/21	29/09/21 29/09/21	TSS Salinity	mg/L ppt	No requirement No requirement	0	3 0.345		
		3/09/21	25/10/21 29/09/21	1/11/21 29/09/21	pH O&G	mg/L	Monthly Monthly	1	7.19 <5	6.5-8.5 nil visual	No
	Point 9 - Process Water Effluent quality monitoring	3/09/21	29/09/21	29/09/21	TDS TSS	mg/L	No requirement	1 1	105	THE VIOLET	
		3/09/21	29/09/21	29/09/21	Salinity	mg/L ppt	No requirement No requirement	1	0.124		
	Point 10 - Ambient air and weather monitoring station		17/11/21	18/11/21	NOx	ppb	Continuous	Continuous	0 5 59		
			17/11/21	18/11/21	03	ppb	Continuous Continuous with limit of	Continuous	1 23 69		
	Point 11 - Air emissions monitoring		17/11/21	18/11/21	NOx	ppm	2132 g/min (1hr rolling average)	Continuous	< 2132 g/min	< 2132 g/min	No
			6/11/21	12/11/21	O&G	mg/L	Weekly during any discharge - no visible oil	5	Nil	nil visual	
Oct-21	Point 8 - First Flush Effluent quality monitoring		6/11/21	12/11/21	рН		Weekly during any discharge	5	7.06 7.59 8.1	6.5-8.5	No
		n.a n.a	n.a n.a	n.a n.a	TSS Salinity	mg/L ppt	No requirement No requirement	1	-		
		8/10/22	17/11/21 25/10/21	19/11/21 1/11/21	pH O&G	mg/L	Monthly Monthly	1	7.26 <5	6.5-8.5 nil visual	No
	Point 9 - Process Water Effluent quality monitoring	8/10/22 8/10/22	25/10/21	1/11/21	TDS	mg/L mg/L	No requirement No requirement	1	1180 27		
		8/10/22	25/10/21	1/11/21	Salinity	ppt	No requirement	1	1.37		
	Point 10 - Ambient air and weather monitoring station		10/12/21	14/12/21	NOx O3	ppb	Continuous	Continuous	0 6 59 3 19 48		
	Point 11 - Air emissions						Continuous with limit of		< 2132 g/min	- 2422 almin	
	monitoring		10/12/21	14/12/21	NOx	ppm	2132 g/min (1hr rolling average)	Continuous		< 2132 g/min	
	B-1-10 = 1		n.a	n.a	O&G	mg/L	Weekly during any discharge - no visible oil	15	Nil	nil visual	
Nov-21	Point 8 - First Flush Effluent quality monitoring		3/12/21	14/12/21	рН		Weekly during any discharge	15	6.85 7.58 8.33	6.5-8.5	
		n.a n.a	n.a n.a	n.a n.a	TSS Salinity	mg/L ppt	No requirement No requirement	1	-	<u></u>	
		3/11/21	3/12/21 17/11/21	14/12/21 19/11/21	pH O&G	mg/L	Monthly Monthly	1 1	7.48 <5	6.5-8.5 nil visual	
	Point 9 - Process Water Effluent quality monitoring	3/11/21	17/11/21 17/11/21	19/11/21 19/11/21	TDS TSS	mg/L mg/L	No requirement No requirement	No requirement No requirement	124 13		
	Point 10 - Ambient air and	3/11/21	17/11/21	19/11/21	Salinity	ppt	No requirement Continuous	No requirement Continuous	0.143 0 7 78		
	weather monitoring station		12/01/22	31/01/22	O3	ppb	Continuous Continuous Continuous with limit of	Continuous	1 18 73		
	Point 11 - Air emissions monitoring		7/01/22	31/01/22	NOx	ppm	Continuous with limit of 2132 g/min (1hr rolling average)	Continuous	<2132 g/min	< 2132 g/min	
			19/01/22	31/01/22	O&G	mg/L	Weekly during any discharge - no visible oil	12	Nil	nil visual	
Dec-21	Point 8 - First Flush Effluent quality monitoring		19/01/22	31/01/22	рН		Weekly during any discharge	12	7.02 7.34 7.99	6.5-8.5	
		n.a n.a	n.a n.a	n.a n.a	TSS Salinity	mg/L ppt	No requirement No requirement	1	n/a n/a		
		3/12/21	19/01/22 21/12/21	31/01/22 7/01/22		mg/L	Monthly Monthly	1 1	7.01	6.5-8.5 nil visual	
	Point 9 - Process Water Effluent quality monitoring	3/12/21	21/12/21	7/01/22	TDS	mg/L	No requirement	1	113	IIII VISUAI	
		3/12/21	21/12/21	7/01/22 7/01/22	TSS Salinity	mg/L ppt	No requirement No requirement	1	0.133		
	Point 10 - Ambient air and weather monitoring station		12/01/22	31/01/22	NOx	ppb	Continuous	Continuous	0 7 78		
			12/01/22	31/01/22	03	ppb	Continuous Continuous with limit of	Continuous	1 18 73		
Jan-22	Point 11 - Air emissions monitoring		7/01/22	31/01/22	NOx	ppm	2132 g/min (1hr rolling average)	Continuous	<2132 g/min	< 2132 g/min	No
			19/01/22	31/01/22	O&G	mg/L	Weekly during any discharge - no visible oil	12	Nil	nil visual	No
	Point 8 - First Flush Effluent quality monitoring		3/02/22	4/02/22	рН		Weekly during any discharge	14	7.11 7.65 8.22	6.5-8.5	No
	Emiliani quality monitoring	n.a n.a	n.a n.a	n.a n.a	TSS Salinity	mg/L ppt	No requirement No requirement	0	-		
				4/02/22	pH	Г	Monthly	1	6.91	6.5-8.5	No
			3/02/22 28/01/22			ma/l	Monthly	1	<5	nil visual	NΩ
	Point 9 - Process Water Effluent quality monitoring	14/01/22	28/01/22 28/01/22	31/01/22 31/01/22	O&G TDS	mg/L mg/L	No requirement	1	<5 67 9	nil visual	No
		14/01/22	28/01/22	31/01/22	O&G				67	nil visual	No

First flush was empty during sampling

	weather morntoning station		11/03/22	14/03/22	O3	ppb	Continuous	Continuous	0	14	46			
	Point 11 - Air emissions monitoring		11/03/22	14/03/22	NOx	ppm	Continuous with limit of 2132 g/min (1hr rolling average)	Continuous	<	<2878 g/min		< 2132 g/min		No
			4/03/22	10/03/22	O&G	mg/L	Weekly during any discharge - no visible oil	16		Nil		nil visual		No
Feb-22	Point 8 - First Flush Effluent quality monitoring		3/03/22	10/03/22	рН		Weekly during any discharge	16	7.19	7.67	8.3	6.5-8.5	No	
	Emount quanty montoning	1/02/22	4/03/22	10/03/22	TSS	mg/L	No requirement	0		12				
		1/02/22	4/03/22	10/03/22	Salinity	ppt	No requirement	0		6.99				
		. (4/03/22	10/03/22	pH		Monthly	1		6.99 <5		6.5-8.5		No No
	Point 9 - Process Water	1/02/22	4/03/22 4/03/22	10/03/22 10/03/22	O&G TDS	mg/L mg/L	Monthly No requirement	1		192		nil visual		NO
	Effluent quality monitoring	1/02/22	4/03/22	10/03/22	TSS	mg/L	No requirement	1		11				
		1/02/22	4/03/22	10/03/22	Salinity	ppt	No requirement	1		0.228				
	Point 10 - Ambient air and		12/04/22	12/04/22	NOx	ppb	Continuous	Cont.	0	8	92			
	weather monitoring station		12/04/22	12/04/22	О3	ppb	Continuous	Cont.	0	14	54			
	Point 11 - Air emissions monitoring		12/04/22	12/04/22	NOx	ppm	Continuous with limit of 2132 g/min (1hr rolling average)	Continuous	<	2132 g/ı	nin	< 2132 g/min		No
			29/03/22	31/03/22	O&G	mg/L	Weekly during any discharge - no visible oil	19		Nil		nil visual		No
Mar-22	Point 8 - First Flush Effluent quality monitoring		3/04/22	5/04/22	рН		Weekly during any discharge	19	6.96	7.49	8.2	6.5-8.5	No	
	Emuent quality monitoring	1/03/22	29/03/22	31/03/22	TSS	mg/L	No requirement	0		2				
		1/03/22	29/03/22	31/03/22	Salinity	ppt	No requirement	0		0.059				
			3/04/22	5/04/22	pН		Monthly	1		6.85		6.5-8.5		No
	Point 9 - Process Water	1/03/22	29/03/22	31/03/22	O&G	mg/L	Monthly	1		<5		nil visual		No
	Effluent quality monitoring	1/03/22	29/03/22	31/03/22	TDS	mg/L	No requirement	1		104				
		1/03/22	29/03/22	31/03/22	TSS	mg/L	No requirement	1		0.123		 	ļ	
		1/03/22	29/03/22 12/05/22	31/03/22 16/05/22	Salinity NOx	ppt	No requirement	Cont.	0	6	74		 	
	Point 10 - Ambient air and weather monitoring station		12/05/22	16/05/22	03	ppb	Continuous	Cont.	0	15	36			
	Point 11 - Air emissions monitoring		12/04/22	12/04/22	NOx	ppm	Continuous with limit of 2132 g/min (1hr rolling average)	Continuous	<	2132 g/i	nin	< 2132 g/min		No
			5/05/22	16/05/22	O&G	mg/L	Weekly during any discharge - no visible oil	13		Nil		nil visual		No
	Point 8 - First Flush Effluent quality monitoring		3/05/22	16/05/22	рН		Weekly during any discharge	13	7.1	7.76	8.41	6.5-8.5	No	
	Emocrit quality monitoring	7/04/22	5/05/22	16/05/22	TSS	mg/L	No requirement	0		3				
		7/04/22	5/05/22	16/05/22	Salinity	ppt	No requirement	0		0.027				
			3/05/22	16/05/22	рН		Monthly	1		6.62		6.5-8.5		No
	Point 9 - Process Water Effluent quality monitoring	7/04/22	5/05/22	16/05/22	O&G	mg/L	Monthly	1		<5		nil visual		No
		7/04/22	5/05/22	16/05/22	TDS	mg/L	No requirement	1		105				
		7/04/22	5/05/22	16/05/22 16/05/22	TSS Salinity	mg/L	No requirement	1		0.121				
	ļ	7/04/22	0.00.00			ppt	No requirement		-					
	Point 10 - Ambient air and weather monitoring station		30/05/22	6/06/22	NOx O3	ppb	Continuous	Cont.	-1	6 18	73			
	Point 11 - Air emissions						Continuous with limit of							
	monitoring		30/05/22	6/06/22	NOx	ppm	2132 g/min (1hr rolling average) Weekly during any	Continuous	<	< 2132 g/min		< 2132 g/min		No
	Point 8 - First Flush		6/06/22	6/06/22	O&G	mg/L	discharge - no visible oil Weekly during any	13		Nil		nil visual		No
May-22	Effluent quality monitoring		3/06/22	6/06/22	pH	L	discharge	13	7.11	7.61	8.3	6.5-8.5	No	
		3/05/22	6/06/22	6/06/22	TSS Salinity	mg/L	No requirement No requirement	1		-		 	ļ	
		3/05/22	6/06/22	15/06/22	Salinity	ppt	No requirement Monthly	1	+	9.54		6.5-8.5	 	Yes
	Point 9 - Process Water	3/05/22	6/06/22	15/06/22	O&G	mg/L	Monthly	1		9.54 <5		nil visual		No Tes
		3/05/22	6/06/22	15/06/22	TDS	mg/L	No requirement	1		136		IIII vioudi		
	Effluent quality monitoring	3/05/22	6/06/22	15/06/22	TSS	mg/L	No requirement	1		8				
		3/05/22	6/06/22	15/06/22	Salinity	ppt	No requirement	1		0.159				
	Point 10 - Ambient air and		12/07/22	19/07/22	NOx	ppb	Continuous	Cont.	0	6	64			
	weather monitoring station		12/07/22	19/07/22	О3	ppb	Continuous	Cont.	0	18	30			
	Point 11 - Air emissions monitoring		12/07/22	19/07/22	NOx	ppm	Continuous with limit of 2132 g/min (1hr rolling average)	Continuous	< 2132 g/min		< 2132 g/min		No	
			27/06/22	7/07/22	O&G	mg/L	Weekly during any discharge - no visible oil	10		Nil		nil visual		No
hun 22			3/07/22	7/07/22	pН		Weekly during any discharge	10	7.08	7.68	8.26	6.5-8.5	No	
Jun-22	Point 8 - First Flush Effluent quality monitoring						No requirement	1				1	_	
Jun-22		10/06/22	27/06/22	7/07/22	TSS	mg/L								
Jun-22		10/06/22 10/06/22	27/06/22	7/07/22	Salinity	ppt	No requirement	1		-				
Jun-22		10/06/22	27/06/22 27/06/22	7/07/22 7/07/22	Salinity pH	ppt	No requirement Monthly	12		7.03		6.5-8.5		No No
Jun-22	Effluent quality monitoring Point 9 - Process Water	10/06/22	27/06/22 27/06/22 27/06/22	7/07/22 7/07/22 7/07/22	Salinity	ppt mg/L	No requirement Monthly Monthly			<5		6.5-8.5 nil visual		No No
Jun-22	Effluent quality monitoring	10/06/22	27/06/22 27/06/22	7/07/22 7/07/22	Salinity pH O&G	ppt	No requirement Monthly	12 32						

First flush was empty during sampling Investigation conducted into increased pt of Process Water.
Fouled probe identified as causing automatic dosing system to
incorrectly dose. No environmental harm observed. ICAM
investigation in progress. Exceedance to be reported in the 2022-2023 Tower EPA Annual Return.

Change Log
Date Change
15/06/2022 Point 9 pH records
amended to monthly
laboratory results as
required in EPL.