Tower Power Station
Licence Number: 5357
Licence Holder: EDL CSM (NSW) PTY LTD
Licensee Address: Tower Coal Seam Methane Power Station
Month: FY 2018-19



							Monitoring	Licence	Management			Exceedance	
Month	Location of monitoring point	Sampled	Obtained	Published	Pollutant	Units	Frequency (Licence)	Limit	Measurement during month	Min	Mean Max	(Yes/No)	
	Point 10 - Ambient air and weather monitoring station		8/08/18	22/08/18	NOx	ppb	Continuous		Continuous	1	11 65		
			8/08/18	22/08/18	O3	ppb	Continuous		Continuous	-1	19 31		
	Point 11 - Air emissions monitoring		30/07/18	1/08/18	NOx	ppm	Continuous	2132g/min	Continuous	<2	132g/min	No	
			30/07/18	1/08/18	O&G	mg/L	during any discharge		0				
	Point 8 - First Flush Effluent quality monitoring						Weekly during any						Note: Point 8 (First Flush) was dry during July. No
Jul-18		2/07/18	30/07/18 23/07/18	1/08/18	pH TSS	mg/L	discharge Monthly		0				water sampling conducted.
		2/07/18	23/07/18	1/08/18	Salinity	ppt	Monthly		0				
		2/07/18	23/07/18	1/08/18	O&G	mg/L	Monthly		1		<5		
	Point 9 - Process Water Effluent quality monitoring	2/07/18	23/07/18 23/07/18	1/08/18	pH TDS	mg/L	Monthly Monthly		1		7.35 147		
		2/07/18	23/07/18	1/08/18	TSS	mg/L	Monthly		1		2		
		2/07/18	23/07/18	1/08/18	Salinity	ppt	Monthly		1 Continuous		0.176		
Aug-18	Point 10 - Ambient air and weather monitoring station		12/09/18 12/09/18	14/09/18 14/09/18	NOx O3	ppb	Continuous Continuous		Continuous	0	7 85 21 35		
	Point 11 - Air emissions monitoring		3/09/18	14/09/18	NOx	ppm	Continuous Weekly	2132g/min	Continuous	<2	132g/min	No	
	Point 8 - First Flush Effluent quality monitoring						during any						
			3/09/18	14/09/18	O&G	mg/L	discharge Weekly		1		nil		
			3/09/18	14/09/18	pН		during any discharge		1	7.1	7.1 7.1		
		2/08/18	29/08/18	14/09/18	TSS	mg/L	Monthly		0				Note: First flush was empty during sampling
		2/08/18	29/08/18 29/08/18	14/09/18	Salinity O&G	ppt mg/L	Monthly Monthly		0		<5		
	Point 9 - Process Water Effluent quality monitoring	2/08/18	29/08/18	14/09/18	рН		Monthly		1		7.35		
		2/08/18 2/08/18	29/08/18 29/08/18	14/09/18 14/09/18	TDS	mg/L mg/L	Monthly Monthly		1		164		
		2/08/18	29/08/18	14/09/18	Salinity	ppt	Monthly		1		0.195		
	Point 10 - Ambient air and weather monitoring station		12/10/18	22/10/18 22/10/18	NOx O3	ppb	Continuous		Continuous	0	7 109 21 36		
	Point 11 - Air emissions monitoring		18/10/18	22/10/18	NOx	ppm	Continuous	2132g/min	Continuous	_	132g/min	No	
							Weekly during any						
	Point 8 - First Flush Effluent quality monitoring		7/06/19	13/06/19	O&G	mg/L	discharge Weekly		1		nil		
Sep-18			7/06/19	13/06/19	рН		during any discharge		1	7.1	7.1 7.1		
06p-10		4/09/18	21/09/18	10/10/18	TSS	mg/L	Monthly		0	7.1	7.1 7.1		Nata Cint Gual was such during a such
		4/09/18	21/09/18	10/10/18	Salinity	ppt	Monthly		0				Note: First flush was empty during sampling
		4/09/18 4/09/18	21/09/18 21/09/18	10/10/18 10/10/18	O&G pH	mg/L	Monthly Monthly		1		<5 6.96		
	Point 9 - Process Water Effluent quality monitoring	4/09/18	21/09/18	10/10/18	TDS	mg/L	Monthly		1		146		
		4/09/18 4/09/18	21/09/18 21/09/18	10/10/18	TSS Salinity	mg/L ppt	Monthly Monthly		1		0.176		
	Point 10 - Ambient air and weather monitoring station		12/11/18 12/11/18	15/11/18 15/11/18	NOx O3	ppb	Continuous		Continuous Continuous	-1	16 128 19 49		
	Point 11 - Air emissions monitoring		5/11/18	7/11/18	NOx	ppb	Continuous Continuous	2132g/min	Continuous		19 49 132g/min	No	
							Weekly during any						
	Point 8 - First Flush Effluent quality monitoring		7/06/19	13/06/19	O&G	mg/L	discharge Weekly		10		nil		
0.440			7/00/40	40/00/40			during any		40	7.05	7.70		
Oct-18		3/10/18	7/06/19 23/10/18	13/06/19 7/11/18	pH TSS	mg/L	discharge Monthly		10 0	7.25	7.72 8.1		
		3/10/18	23/10/18	7/11/18	Salinity	ppt	Monthly		0				Note: First flush was empty during sampling
		3/10/18	23/10/18	7/11/18 7/11/18	O&G pH	mg/L	Monthly Monthly		1		<5 7.54		
	Point 9 - Process Water Effluent quality monitoring	3/10/18	23/10/18	7/11/18	TDS	mg/L	Monthly		1		150		
1		3/10/18 3/10/18	23/10/18 23/10/18	7/11/18 7/11/18	TSS Salinity	mg/L ppt	Monthly Monthly		1 1		0.182		
	Point 10 - Ambient air and weather monitoring station		11/12/18	14/11/18	NOx	ppb	Continuous		Continuous	1	10 105		
1	Point 11 - Air emissions monitoring		11/12/18 29/11/18	14/11/18 14/11/18	O3 NOx	ppb	Continuous Continuous	2132g/min	Continuous Continuous	-3 <2	17 60 132g/min	No	
1	, , ,						Weekly during any						
	Point 8 - First Flush Effluent quality monitoring		7/06/19	13/06/19	O&G	mg/L	discharge		5		nil		
1							Weekly during any						
Nov-18		5/11/18	7/06/19 28/11/18	13/06/19 14/11/18	pH TSS	mg/L	discharge Monthly		5	6.77	7.72 8.2		
		5/11/18	28/11/18	14/11/18	Salinity	ppt	Monthly		0				Note: First flush was empty during sampling
	Point 9 - Process Water Effluent quality monitoring	5/11/18 5/11/18	28/11/18 28/11/18	14/11/18 14/11/18	O&G pH	mg/L	Monthly Monthly		1		<5 7.16		
		5/11/18	28/11/18	14/11/18	TDS	mg/L	Monthly		1		149		
		5/11/18	28/11/18 28/11/18	14/11/18 14/11/18	TSS Salinity	mg/L ppt	Monthly Monthly		1		11 0.18		
	Point 10 - Ambient air and weather monitoring station	2	11/01/19	17/01/19	NOx	ppb	Continuous		Continuous	1	10 138		
	Point 11 - Air emissions monitoring		11/01/19 3/01/19	17/01/19 17/01/19	O3 NOx	ppb ppm	Continuous Continuous	2132g/min	Continuous Continuous	0 <2	18 84 132g/min	No	
			0,01/10			PPIII	Weekly	ozg/!!!!!	Containous	~2	rozymilli	.,0	
	Point 8 - First Flush Effluent quality monitoring		7/06/19	13/06/19	O&G	mg/L	during any discharge		11		nil		
							Weekly during any						
Dec-18		4/40/40	7/06/19	13/06/19	pH		discharge		11	6.85	7.31 8		
		4/12/18 4/12/18	17/12/18 17/12/18	21/12/18 21/12/18	TSS Salinity	mg/L ppt	Monthly Monthly		0				Note: First flush was empty during sampling
	Point 9 - Process Water Effluent quality monitoring	4/12/18	17/12/18	21/12/18	O&G	mg/L	Monthly		1		<5		
		4/12/18 4/12/18	17/12/18 17/12/18	21/12/18 21/12/18	pH TDS	mg/L	Monthly Monthly		1		6.68 104		
		4/12/18	17/12/18	21/12/18	TSS	mg/L	Monthly		1		13		
		4/12/18	17/12/18	21/12/18	Salinity	ppt	Monthly	1	1		0.123		

			10100110		11.00		I a				
	Point 10 - Ambient air and weather monitoring station		12/02/19	15/02/19	NOx	ppb	Continuous		Continuous	1 12 112	
	Batas Add Ata and a factor and a factor		12/02/19	15/02/19	03	ppb	Continuous	2122a/min	Continuous	-1 21 94	No
	Point 11 - Air emissions monitoring		14/02/19	15/02/19	NOx	ppm	Continuous Weekly	2132g/min	Continuous	<2132g/min	No
							during any				
			7/06/19	13/06/19	O&G	mg/L	discharge		9	nil	
	Deint 9 First Floris Fifthern available resident						Weekly				
Jan-19	Point 8 - First Flush Effluent quality monitoring		7/06/19	13/06/19	ρΗ		during any		9	0.54 7.54 0.40	
Jaii-15		3/01/19		15/02/19	TSS		discharge		1	6.51 7.51 8.18	
		3/01/19	1/02/19	15/02/19	Salinity	mg/L	Monthly Monthly		1	1	
		3/01/19	1/02/19	15/02/19	O&G	ppt mg/L	Monthly		1	0.387 <5	
		3/01/19	1/02/19	15/02/19	pH	IIIg/L	Monthly		1	6.97	
	Point 9 - Process Water Effluent quality monitoring	3/01/19	1/02/19	15/02/19	TDS	mg/L	Monthly		1	165	
	Tome of Troops Trator Endone quality monitoring	3/01/19	1/02/19	15/02/19	TSS	mg/L	Monthly		1	22	
		3/01/19	1/02/19	15/02/19	Salinity	ppt	Monthly		1	0.198	
			12/03/19	15/03/19	NOx	ppb	Continuous		Continuous	1 16 145	
	Point 10 - Ambient air and weather monitoring station		12/03/19	15/03/19	03	ppb	Continuous		Continuous	-1 18 95	
	Point 11 - Air emissions monitoring		1/03/19	15/03/19	NOx	ppm	Continuous	2132g/min	Continuous	<2132g/min	No
							Weekly				
							during any				
			7/06/19	13/06/19	O&G	mg/L	discharge		3	nil	
	Point 8 - First Flush Effluent quality monitoring						Weekly during any				
Feb-19			7/06/19	13/06/19	рН		discharge		3	7.18 7.48 7.9	
		6/02/19	27/02/19	15/03/19	TSS	mg/L	Monthly		1	4	
		6/02/19	27/02/19	15/03/19	Salinity	ppt	Monthly		1	0.297	
		6/02/19	27/02/19	15/03/19	O&G	mg/L	Monthly		1	<5	
		6/02/19	27/02/19	15/03/19	рН		Monthly		1	7.39	
1	Point 9 - Process Water Effluent quality monitoring	6/02/19	27/02/19	15/03/19	TDS	mg/L	Monthly		1	117	
1		6/02/19	27/02/19	15/03/19	TSS	mg/L	Monthly		1	19	
1		6/02/19	27/02/19	15/03/19	Salinity	ppt	Monthly		1	0.143	
	Point 10 Ambient oir and		12/04/19	12/04/19	NOx	ppb	Continuous		Continuous	1 12 201	
	Point 10 - Ambient air and weather monitoring station		12/04/19	12/04/19	O3	ppb	Continuous		Continuous	-2 17 70	
1	Point 11 - Air emissions monitoring		2/04/19	12/04/19	NOx	ppm	Continuous	2132g/min	Continuous	<2132g/min	No
1	V						Weekly			, and the second	
			7/00/40	12/00/40	000	ma"	during any		12		
			7/06/19	13/06/19	O&G	mg/L	discharge Weekly		13	nil	
	Point 8 - First Flush Effluent quality monitoring						during any				
Mar-19			7/06/19	13/06/19	pН		discharge		13	6.6 7.42 7.93	
mai io		7/03/19	26/03/19	12/04/19	TSS	mg/L	Monthly		0		
				12/04/19					0		
		7/03/19	26/03/19		Salinity	ppt	Monthly		1		
		7/03/19	26/03/19	12/04/19	O&G	mg/L	Monthly			<5	
	D.:	7/03/19	26/03/19	12/04/19	pH		Monthly		1	4.26	
	Point 9 - Process Water Effluent quality monitoring	7/03/19	26/03/19	12/04/19	TDS	mg/L	Monthly		1	68	
		7/03/19 7/03/19	26/03/19 26/03/19	12/04/19 12/04/19	TSS Salinity	mg/L	Monthly Monthly		1	20	
		1/03/19				ppt				0.078	
	Point 10 - Ambient air and weather monitoring station		10/05/19	13/05/19	NOx	ppb	Continuous		Continuous	1 10 000	
						nnh	Continuous				
	Delet 44 Air contesions are alterior		10/05/19	13/05/19	03	ppb	Continuous	2122a/min	Continuous	-2 15 68	No
	Point 11 - Air emissions monitoring		29/04/19	13/05/19 13/05/19	NOx	ppb	Continuous	2132g/min	Continuous Continuous	-2 15 68 <2132g/min	No
	Point 11 - Air emissions monitoring							2132g/min			No
	Point 11 - Air emissions monitoring						Continuous Weekly during any discharge	2132g/min			No
			29/04/19	13/05/19	NOx	ppm	Continuous Weekly during any discharge Weekly	2132g/min	Continuous	<2132g/min	No
Apr19	Point 11 - Air emissions monitoring Point 8 - First Flush Effluent quality monitoring		29/04/19 7/06/19	13/05/19	NOx O&G	ppm	Continuous Weekly during any discharge Weekly during any	2132g/min	Continuous 9	<2132g/min	No
Apr-19		2/04/40	7/06/19 7/06/19	13/05/19 13/06/19	NOx O&G pH	ppm mg/L	Continuous Weekly during any discharge Weekly during any discharge	2132g/min	Continuous 9	<2132g/min nil 7.01 7.2 8.4	No
Apr-19		2/04/19	7/06/19 7/06/19 24/04/19	13/05/19 13/06/19 13/06/19 13/05/19	NOx O&G pH TSS	mg/L	Continuous Weekly during any discharge Weekly during any discharge Monthly	2132g/min	9 9 1	<2132g/min nil 7.01 7.2 8.4	No
Apr-19		2/04/19	7/06/19 7/06/19 24/04/19 24/04/19	13/05/19 13/06/19 13/06/19 13/05/19	NOx O&G PH TSS Salinity	mg/L mg/L ppt	Continuous Weekly during any discharge Weekly during any discharge Monthly Monthly	2132g/min	9 9 1 1	<2132g/min nil 7.01 7.2 8.4 1 0.286	No
Apr-19		2/04/19 2/04/19	7/06/19 7/06/19 24/04/19 24/04/19 24/04/19	13/05/19 13/06/19 13/06/19 13/05/19 13/05/19 13/05/19	NOx O&G pH TSS	mg/L	Continuous Weekly during any discharge Weekly during any discharge Monthly Monthly Monthly	2132g/min	9 9 1	7.01 7.2 8.4 1 0.286	No
Apr-19	Point 8 - First Flush Effluent quality monitoring	2/04/19 2/04/19 2/04/19	7/06/19 7/06/19 24/04/19 24/04/19 24/04/19 24/04/19	13/05/19 13/06/19 13/06/19 13/05/19 13/05/19 13/05/19 13/05/19	NOx O&G PH TSS Salinity O&G PH	mg/L mg/L ppt mg/L	Continuous Weekly during any discharge Weekly during any discharge Monthly Monthly Monthly Monthly	2132g/min	9 9 1 1 1 1 1 1	7.01 7.2 8.4 1 0.286 < 5 7.6	No
Apr-19		2/04/19 2/04/19	7/06/19 7/06/19 24/04/19 24/04/19 24/04/19	13/05/19 13/06/19 13/06/19 13/05/19 13/05/19 13/05/19	NOx O&G PH TSS Salinity O&G	mg/L mg/L ppt mg/L mg/L	Continuous Weekly during any discharge Weekly during any discharge Monthly Monthly Monthly Monthly Monthly	2132g/min	9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7.01 7.2 8.4 1 0.286 <5 7.6	No
Apr-19	Point 8 - First Flush Effluent quality monitoring	2/04/19 2/04/19 2/04/19 2/04/19	7/06/19 7/06/19 24/04/19 24/04/19 24/04/19 24/04/19 24/04/19	13/05/19 13/06/19 13/06/19 13/05/19 13/05/19 13/05/19 13/05/19	NOX O&G PH TSS Salinity O&G PH TDS	mg/L mg/L ppt mg/L	Continuous Weekly during any discharge Weekly during any discharge Monthly Monthly Monthly Monthly	2132g/min	9 9 1 1 1 1 1 1	7.01 7.2 8.4 1 0.286 <5 7.6 374	No
Apr-19	Point 8 - First Flush Effluent quality monitoring Point 9 - Process Water Effluent quality monitoring	2/04/19 2/04/19 2/04/19 2/04/19 2/04/19	7/06/19 7/06/19 24/04/19 24/04/19 24/04/19 24/04/19 24/04/19 24/04/19	13/05/19 13/06/19 13/06/19 13/05/19 13/05/19 13/05/19 13/05/19 13/05/19 13/05/19 13/05/19	NOx O&G pH TSS Salinity O&G pH TDS TSS Salinity	mg/L mg/L ppt mg/L mg/L ppt/L ppt	Continuous Weekly during any discharge Weekly during any discharge Monthly	2132g/min	9 9 1 1 1 1 1 1 1 1 1 1	7.01 7.2 8.4 1 0.286 <5 7.6 374 15 0.432	No
Apr-19	Point 8 - First Flush Effluent quality monitoring	2/04/19 2/04/19 2/04/19 2/04/19 2/04/19	7/06/19 7/06/19 24/04/19 24/04/19 24/04/19 24/04/19 24/04/19 24/04/19 24/04/19	13/05/19 13/06/19 13/06/19 13/05/19 13/05/19 13/05/19 13/05/19 13/05/19 13/05/19 13/05/19	NOx O&G PH TSS Salinity O&G PH TDS TSS	mg/L mg/L ppt mg/L mg/L ppt ppt ppt ppt ppt ppt	Continuous Weekily during any discharge Weekily during any discharge Moekily Monthily Monthily Monthily Monthily Monthily Monthily Monthily Monthily Continuous	2132g/min	9 9 1 1 1 1 1 1 1 Continuous	7.01 7.2 8.4 1 0.286 <5 7.6 374 1 15 0.432 0 13 188	No
Apr-19	Point 8 - First Flush Effluent quality monitoring Point 9 - Process Water Effluent quality monitoring Point 10 - Ambient air and weather monitoring station	2/04/19 2/04/19 2/04/19 2/04/19 2/04/19	7/06/19 7/06/19 7/06/19 24/04/19 24/04/19 24/04/19 24/04/19 24/04/19 24/04/19 24/04/19 12/06/19	13/05/19 13/06/19 13/06/19 13/05/19 13/05/19 13/05/19 13/05/19 13/05/19 13/05/19 13/05/19	NOX O&G PH TSS Salinity O&G PH TDS TSS Salinity NOX	mg/L mg/L ppt mg/L mg/L ppt/L ppt	Continuous Weekly during any discharge Weekly during any discharge Monthly		9 9 1 1 1 1 1 1 1 1 1 1	7.01 7.2 8.4 1 0.286 <5 7.6 7.6 374 15 0.432 0 13 188 -2 16 37	No No
Apr-19	Point 8 - First Flush Effluent quality monitoring Point 9 - Process Water Effluent quality monitoring	2/04/19 2/04/19 2/04/19 2/04/19 2/04/19	7/06/19 7/06/19 24/04/19 24/04/19 24/04/19 24/04/19 24/04/19 24/04/19 24/04/19 12/06/19	13/05/19 13/06/19 13/06/19 13/05/19 13/05/19 13/05/19 13/05/19 13/05/19 13/05/19 13/06/19	NOX O&G PH TSS Salinity O&G PH TDS TSS Salinity NOX O3	mg/L ppt mg/L mg/L ppt mg/L ppt ppt ppt ppt ppt ppt ppt ppb	Continuous Weekiy during any discharge Weekly during any discharge Weekly during any discharge Monthly Monthly Monthly Monthly Monthly Monthly Continuous Continuous Continuous Continuous Weekly	2132g/min	9 9 1 1 1 1 1 1 1 Continuous	7.01 7.2 8.4 1 0.286 <5 7.6 374 1 15 0.432 0 13 188	
Apr-19	Point 8 - First Flush Effluent quality monitoring Point 9 - Process Water Effluent quality monitoring Point 10 - Ambient air and weather monitoring station	2/04/19 2/04/19 2/04/19 2/04/19 2/04/19	29/04/19 7/06/19 7/06/19 24/04/19 24/04/19 24/04/19 24/04/19 24/04/19 12/06/19 12/06/19 29/05/19	13/05/19 13/06/19 13/06/19 13/05/19 13/05/19 13/05/19 13/05/19 13/05/19 13/06/19 13/06/19	NOX O&G PH TSS Salinity O&G PH TDS TSS Salinity NOX O3 NOX	mg/L mg/L ppt mg/L mg/L ppt ppt ppt ppt ppt ppt ppb ppb	Continuous Weekly during any discharge Weekly during any discharge Monthly Monthly Monthly Monthly Monthly Monthly Monthly Continuous Continuous Continuous Weekly during any		9 9 1 1 1 1 1 1 1 Continuous Continuous Continuous	<2132g/min 7.01 7.2 8.4 1 0.286 <5 7.6 374 15 0.432 0 13 188 -2 16 37 <2132g/min	
Apr-19	Point 8 - First Flush Effluent quality monitoring Point 9 - Process Water Effluent quality monitoring Point 10 - Ambient air and weather monitoring station	2/04/19 2/04/19 2/04/19 2/04/19 2/04/19	7/06/19 7/06/19 24/04/19 24/04/19 24/04/19 24/04/19 24/04/19 24/04/19 24/04/19 12/06/19	13/05/19 13/06/19 13/06/19 13/05/19 13/05/19 13/05/19 13/05/19 13/05/19 13/05/19 13/06/19	NOX O&G PH TSS Salinity O&G PH TDS TSS Salinity NOX O3	mg/L ppt mg/L mg/L ppt mg/L ppt ppt ppt ppt ppt ppt ppt ppb	Continuous Weekly during any discharge Weekly during any discharge Weekly during any discharge Monthly Monthly Monthly Monthly Monthly Monthly Continuous Continuous Continuous Weekly during any discharge		9 9 1 1 1 1 1 1 1 Continuous	7.01 7.2 8.4 1 0.286 <5 7.6 7.6 374 15 0.432 0 13 188 -2 16 37	
Apr-19	Point 8 - First Flush Effluent quality monitoring Point 9 - Process Water Effluent quality monitoring Point 10 - Ambient air and weather monitoring station	2/04/19 2/04/19 2/04/19 2/04/19 2/04/19	29/04/19 7/06/19 7/06/19 24/04/19 24/04/19 24/04/19 24/04/19 24/04/19 12/06/19 12/06/19 29/05/19	13/05/19 13/06/19 13/06/19 13/05/19 13/05/19 13/05/19 13/05/19 13/05/19 13/06/19 13/06/19	NOX O&G PH TSS Salinity O&G PH TDS TSS Salinity NOX O3 NOX	mg/L mg/L ppt mg/L mg/L ppt ppt ppt ppt ppt ppt ppb ppb	Continuous Weekly during any discharge Weekly during any discharge Monthly Mon		9 9 1 1 1 1 1 1 1 Continuous Continuous Continuous	<2132g/min 7.01 7.2 8.4 1 0.286 <5 7.6 374 15 0.432 0 13 188 -2 16 37 <2132g/min	
Apr-19	Point 8 - First Flush Effluent quality monitoring Point 9 - Process Water Effluent quality monitoring Point 10 - Ambient air and weather monitoring station Point 11 - Air emissions monitoring	2/04/19 2/04/19 2/04/19 2/04/19 2/04/19	29/04/19 7/06/19 7/06/19 24/04/19 24/04/19 24/04/19 24/04/19 24/04/19 12/06/19 12/06/19 29/05/19	13/05/19 13/06/19 13/06/19 13/05/19 13/05/19 13/05/19 13/05/19 13/05/19 13/06/19 13/06/19	NOX O&G PH TSS Salinity O&G PH TDS TSS Salinity NOX O3 NOX	mg/L mg/L ppt mg/L mg/L ppt ppt ppt ppt ppt ppt ppb ppb	Continuous Weekly during any discharge Weekly during any discharge Monthly Monthly Monthly Monthly Monthly Monthly Monthly during any discharge Weekly during any discharge Weekly during any discharge		9 9 1 1 1 1 1 1 1 Continuous Continuous Continuous	<2132g/min 7.01 7.2 8.4 1 0.286 <5 7.6 374 15 0.432 0 13 188 -2 16 37 <2132g/min	
	Point 8 - First Flush Effluent quality monitoring Point 9 - Process Water Effluent quality monitoring Point 10 - Ambient air and weather monitoring station Point 11 - Air emissions monitoring	2/04/19 2/04/19 2/04/19 2/04/19 2/04/19	29/04/19 7/06/19 7/06/19 24/04/19 24/04/19 24/04/19 24/04/19 24/04/19 24/04/19 22/04/19 22/05/19 12/06/19	13/05/19 13/06/19 13/06/19 13/05/19 13/05/19 13/05/19 13/05/19 13/05/19 13/06/19 13/06/19	NOx O&G PH TSS Salinity O&G PH TDS TDS TSS Salinity NOx O3 NOx O&G	mg/L mg/L ppt mg/L mg/L ppt ppt ppt ppt ppt ppt ppb ppb	Continuous Weekly during any discharge Weekly during any discharge Monthly Mon		Continuous 9 1 1 1 1 1 1 Continuous Continuous Continuous Continuous	<2132g/min nil 7.01 7.2 8.4 1 0.286 <5 7.6 374 15 0.432 0 13 188 -2 16 37 <2132g/min nil	
	Point 8 - First Flush Effluent quality monitoring Point 9 - Process Water Effluent quality monitoring Point 10 - Ambient air and weather monitoring station Point 11 - Air emissions monitoring	2/04/19 2/04/19 2/04/19 2/04/19 2/04/19 2/04/19 2/04/19	29/04/19 7/06/19 7/06/19 24/04/19 24/04/19 24/04/19 24/04/19 24/04/19 12/06/19 12/06/19	13/05/19 13/06/19 13/06/19 13/05/19 13/05/19 13/05/19 13/05/19 13/05/19 13/06/19 13/06/19 13/06/19	NOx O&G PH TSS Salinity O&G PH TDS Salinity NOx O3 NOx O&G PH	mg/L mg/L ppt mg/L ppt mg/L ppt ppt ppt ppt ppt ppt ppt ppt ppt pp	Continuous Weekly during any discharge Weekly during any discharge Monthly Mon		9 9 1 1 1 1 1 1 1 Continuous Continuous Continuous	7.01 7.2 8.4 1 0.286 <5 7.6 374 15 0.432 0 13 188 -2 16 37 <2132g/min nil 7.2 7.49 8.00 2	
	Point 8 - First Flush Effluent quality monitoring Point 9 - Process Water Effluent quality monitoring Point 10 - Ambient air and weather monitoring station Point 11 - Air emissions monitoring	2/04/19 2/04/19 2/04/19 2/04/19 2/04/19 2/04/19 2/04/19 3/05/19	29/04/19 7/06/19 7/06/19 24/04/19 24/04/19 24/04/19 24/04/19 24/04/19 12/06/19 12/06/19 12/06/19 27/05/19	13/05/19 13/06/19 13/06/19 13/06/19 13/05/19 13/05/19 13/05/19 13/05/19 13/05/19 13/05/19 13/06/19 13/06/19 13/06/19 13/06/19	NOx O&G PH TSS Salinity O&G PH TDS TSS Salinity NOx O3 NOx O4 O8	ppm mg/L mg/L ppt mg/L ppt ppb ppb ppb ppm mg/L ppt ppb ppb ppm	Continuous Weekly during any discharge Weekly during any discharge Monthly Monthly Monthly Monthly Monthly Monthly Monthly Continuous Continuous Continuous Weekly during any discharge Weekly during any discharge Weekly Monthly Mon		9 9 1 1 1 1 1 1 1 Continuous Continuous Continuous 4 4	7.01 7.2 8.4 1 0.286 <5 7.6 374 15 0.432 0 13 188 -2 16 37 <2132g/min nil 7.2 7.49 8.00	
	Point 8 - First Flush Effluent quality monitoring Point 9 - Process Water Effluent quality monitoring Point 10 - Ambient air and weather monitoring station Point 11 - Air emissions monitoring	2/04/19 2/04/19 2/04/19 2/04/19 2/04/19 2/04/19 2/04/19 3/05/19 3/05/19	29/04/19 7/06/19 7/06/19 24/04/19 24/04/19 24/04/19 24/04/19 24/04/19 24/04/19 12/06/19 12/06/19 12/06/19 12/06/19 27/05/19	13/05/19 13/06/19 13/06/19 13/06/19 13/05/19 13/05/19 13/05/19 13/05/19 13/05/19 13/06/19 13/06/19 13/06/19 13/06/19	NOx O&G PH TSS Salinity O&G TSS Salinity NOx O3 NOx O&G PH TSS Salinity NOx O&G Salinity NOx O&G Salinity NOX O&G	mg/L mg/L ppt mg/L mg/L ppt ppt ppt ppt ppt ppt ppt ppb ppb ppm mg/L mg/L	Continuous Weekly during any discharge Weekly during any discharge Monthly		9 9 1 1 1 1 1 1 1 Continuous Continuous Continuous 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7.01 7.2 8.4 1 0.286 <5 7.6 3.74 15 0.432 0 13 188 -2 16 37 <2132g/min nil 7.2 7.49 8.00 2 0.332	
	Point 8 - First Flush Effluent quality monitoring Point 9 - Process Water Effluent quality monitoring Point 10 - Ambient air and weather monitoring station Point 11 - Air emissions monitoring	2/04/19 2/04/19 2/04/19 2/04/19 2/04/19 2/04/19 2/04/19 2/04/19 3/05/19 3/05/19 3/05/19	29/04/19 7/06/19 7/06/19 24/04/19 24/04/19 24/04/19 24/04/19 24/04/19 24/04/19 24/04/19 24/04/19 12/06/19 12/06/19 12/06/19 27/05/19 27/05/19	13/05/19 13/06/19 13/06/19 13/05/19 13/05/19 13/05/19 13/05/19 13/05/19 13/05/19 13/06/19 13/06/19 13/06/19 13/06/19 13/06/19 13/06/19	NOx O&G PH TSS Salinity O&G PH TDS TSS Salinity NOx O8 O8 O3 NOx O8 G PH TSS Salinity NOx O8	ppm mg/L mg/L ppt mg/L ppt ppb ppb ppb ppm mg/L ppt ppb ppb ppm	Continuous Weekly during any discharge Weekly during any discharge Monthly Monthly Monthly Monthly Monthly Monthly Monthly Continuous Continuous Continuous Continuous Weekly during any discharge Weekly during any discharge Monthly		9 9 1 1 1 1 1 1 1 Continuous Continuous Continuous 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7.01 7.2 8.4 1 0.286 <5 7.6 374 15 0.432 0 13 188 -2 16 37 <22132g/min nil 7.2 7.49 8.00 2 0.332 0.332 7.4 8.00 2 0.332 7.5 7.49 8.00	
	Point 8 - First Flush Effluent quality monitoring Point 9 - Process Water Effluent quality monitoring Point 10 - Ambient air and weather monitoring station Point 11 - Air emissions monitoring Point 8 - First Flush Effluent quality monitoring	2/04/19 2/04/19 2/04/19 2/04/19 2/04/19 2/04/19 2/04/19 2/04/19 3/05/19 3/05/19 3/05/19 3/05/19 3/05/19 3/05/19	29/04/19 7/06/19 7/06/19 24/04/19 24/04/19 24/04/19 24/04/19 24/04/19 24/04/19 12/06/19 12/06/19 12/06/19 27/05/19 27/05/19 27/05/19 27/05/19 27/05/19	13/05/19 13/06/19 13/06/19 13/06/19 13/05/19 13/05/19 13/05/19 13/05/19 13/05/19 13/06/19 13/06/19 13/06/19 13/06/19 13/06/19 13/06/19 13/06/19 13/06/19	NOx O&G PH TSS Sallinity O&G PH TDS TSS Sallinity NOx O3 NOx O&G PH TSS Sallinity O&G PH TTSS Sallinity O&G PH TTSS Sallinity O&G TTSS Sallinity O&G TTSS Sallinity O&G TTSS Sallinity TTSS Sallinity TTSS TTSS Sallinity TTSS TTSS TTSS TTSS TTSS TTSS TTSS TT	ppm mg/L mg/L ppt mg/L ppt ppb ppb ppb ppm mg/L mg/L ppt ppb ppb ppm mg/L	Continuous Weekly during any discharge Weekly during any discharge Monthly Monthly Monthly Monthly Monthly Monthly Monthly Continuous Continuous Continuous Continuous Weekly during any discharge Weekly during any discharge Monthly		9 9 1 1 1 1 1 1 1 Continuous Continuous Continuous 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	Point 8 - First Flush Effluent quality monitoring Point 9 - Process Water Effluent quality monitoring Point 10 - Ambient air and weather monitoring station Point 11 - Air emissions monitoring Point 8 - First Flush Effluent quality monitoring	2/04/19 2/04/19 2/04/19 2/04/19 2/04/19 2/04/19 2/04/19 3/05/19 3/05/19 3/05/19 3/05/19 3/05/19	29/04/19 7/06/19 7/06/19 24/04/19 24/04/19 24/04/19 24/04/19 24/04/19 24/04/19 12/06/19 12/06/19 12/06/19 27/05/19 27/05/19 27/05/19 27/05/19 27/05/19 27/05/19 27/05/19	13/05/19 13/06/19 13/06/19 13/06/19 13/05/19 13/05/19 13/05/19 13/05/19 13/05/19 13/05/19 13/06/19 13/06/19 13/06/19 13/06/19 13/06/19 13/06/19 13/06/19 13/06/19 13/06/19 13/06/19	NOx O&G PH TSS Salinity O&G PH TDS TSS Salinity NOx O3 NOx O&G PH TSS Salinity TSS Salinity TSS Salinity TSS Salinity TSS Salinity	ppm mg/L ppt mg/L ppt ppb ppb ppb ppm mg/L ppt mg/L ppt mg/L ppt mg/L ppt mg/L	Continuous Weekly during any discharge Weekly during any discharge Monthly		9 9 1 1 1 1 1 1 1 Continuous Continuous Continuous Continuous I 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The state of the	
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	Point 8 - First Flush Effluent quality monitoring Point 9 - Process Water Effluent quality monitoring Point 10 - Ambient air and weather monitoring station Point 11 - Air emissions monitoring Point 8 - First Flush Effluent quality monitoring Point 9 - Process Water Effluent quality monitoring	2/04/19 2/04/19 2/04/19 2/04/19 2/04/19 2/04/19 2/04/19 2/04/19 3/05/19 3/05/19 3/05/19 3/05/19 3/05/19 3/05/19	29/04/19 7/06/19 7/06/19 24/04/19 24/04/19 24/04/19 24/04/19 24/04/19 12/06/19 12/06/19 12/06/19 27/05/19 27/05/19 27/05/19 27/05/19 27/05/19 27/05/19 27/05/19 27/05/19 27/05/19 27/05/19 27/05/19 27/05/19 27/05/19 27/05/19	13/05/19 13/06/19 13/06/19 13/06/19 13/05/19 13/05/19 13/05/19 13/05/19 13/06/19 13/06/19 13/06/19 13/06/19 13/06/19 13/06/19 13/06/19 13/06/19 13/06/19 13/06/19 13/06/19 13/06/19 13/06/19 13/06/19 13/06/19 13/06/19 13/06/19	NOx O&G PH TSS Sallinity O&G PH TDS TDS TSS SALINITY NOX O O AG PH TSS Salinity O&G PH TSS Salinity NOX O O O O O O O O O O O O	ppm mg/L ppt mg/L ppt mg/L ppt ppt ppt ppb ppb ppm mg/L mg/L ppt ppt ppt ppt ppt ppt ppt ppt ppt mg/L ppt mg/L ppt mg/L	Continuous Weekly during any discharge Weekly during any discharge Monthly Mon	2132g/min	9 9 1 1 1 1 1 1 1 1 Continuous Continuous 4 4 1 1 1 1 1 1 1 1 1 1 Continuous Continuous Continuous Continuous Continuous Continuous Continuous Continuous Continuous	7.01 7.2 8.4 1	No
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May-19	Point 8 - First Flush Effluent quality monitoring Point 9 - Process Water Effluent quality monitoring Point 10 - Ambient air and weather monitoring station Point 11 - Air emissions monitoring Point 8 - First Flush Effluent quality monitoring Point 9 - Process Water Effluent quality monitoring	2/04/19 2/04/19 2/04/19 2/04/19 2/04/19 2/04/19 2/04/19 2/04/19 3/05/19 3/05/19 3/05/19 3/05/19 3/05/19 3/05/19	29/04/19 7/06/19 7/06/19 24/04/19 24/04/19 24/04/19 24/04/19 24/04/19 24/04/19 12/06/19 12/06/19 12/06/19 27/05/19	13/05/19 13/06/19 13/06/19 13/06/19 13/05/19 13/05/19 13/05/19 13/05/19 13/06/19	NOx O&G PH TSS Salinity O&G PH TDS Salinity NOx O3 NOx O&G PH TSS Salinity NOx O3 NOx O&G NOX O O O O O O O O O O O O O O O O O	ppm mg/L mg/L ppt mg/L ppt ppb pph ppb ppm mg/L ppt ppt ppt ppt ppt ppt ppt ppt ppt pp	Continuous Weekly during any discharge Weekly during any discharge Monthly Mon	2132g/min	Section Sect	7.01 7.2 8.4 1 0.286 <5 7.6 374 15 0.432 0 13 188 -2 16 37 <2132g/min 7.2 7.49 8.00 2 0.332 <5 7.18 128 4 0.15 0 15 165 -1 16 31 <2132g/min	No
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May-19	Point 8 - First Flush Effluent quality monitoring Point 9 - Process Water Effluent quality monitoring Point 10 - Ambient air and weather monitoring station Point 11 - Air emissions monitoring Point 8 - First Flush Effluent quality monitoring Point 9 - Process Water Effluent quality monitoring Point 10 - Ambient air and weather monitoring station Point 11 - Air emissions monitoring	2/04/19 2/04/19 2/04/19 2/04/19 2/04/19 2/04/19 2/04/19 2/04/19 2/04/19 3/05/19 3/05/19 3/05/19 3/05/19 3/05/19 3/05/19 4/06/19 4/06/19 4/06/19	29/04/19 7/06/19 7/06/19 24/04/19 24/04/19 24/04/19 24/04/19 24/04/19 24/04/19 24/04/19 24/04/19 24/04/19 24/04/19 24/04/19 24/04/19 22/05/19 12/06/19 12/06/19 12/06/19 27/05/19 27/05/19 27/05/19 27/05/19 27/05/19 27/05/19 27/05/19 27/05/19 27/05/19 27/05/19 27/05/19 27/05/19 27/05/19 27/05/19 27/05/19 27/05/19 27/05/19 27/05/19 27/05/19 21/06/19 21/06/19 21/06/19 21/06/19 21/06/19	13/06/19 13/06/19 13/06/19 13/06/19 13/05/19 13/05/19 13/05/19 13/05/19 13/05/19 13/05/19 13/06/19	NOx O&G PH TSS Salinity O&G TDS TSS Salinity NOx O&G PH TTSS Salinity NOx O&G ROX O&G PH TTSS Salinity NOx O&G ROX O&G PH TTSS Salinity NOX O&G PH TTSS Salinity O&G PH TTSS TTDS	ppm mg/L mg/L ppt mg/L mg/L ppt ppb ppm mg/L ppt mg/L ppt mg/L ppt mg/L ppt mg/L mg/L ppt mg/L mg/L ppt mg/L mg/L mg/L ppt pp ppm mg/L mg/L mg/L ppt ppb ppm mg/L mg/L mg/L ppt mg/L mg/L ppt mg/L	Continuous Weekly during any discharge Weekly during any discharge Weekly during any discharge Monthily	2132g/min	Section Sect	7.01 7.2 8.4 1 0.286 <5 7.6 374 15 0.432 0 13 188 -2 16 37 <2132g/min nil 7.2 7.49 8.00 2 0.332 <5 7.18 128 4 0.15 0 15 165 -1 16 31 <2132g/min nil 6.75 7.19 7.60 4 0.059 <5 7.48 134	No
May-19	Point 8 - First Flush Effluent quality monitoring Point 9 - Process Water Effluent quality monitoring Point 10 - Ambient air and weather monitoring station Point 11 - Air emissions monitoring Point 9 - Process Water Effluent quality monitoring Point 9 - Process Water Effluent quality monitoring Point 10 - Ambient air and weather monitoring station Point 11 - Air emissions monitoring Point 8 - First Flush Effluent quality monitoring	2/04/19 2/04/19 2/04/19 2/04/19 2/04/19 2/04/19 2/04/19 2/04/19 3/05/19 3/05/19 3/05/19 3/05/19 3/05/19 3/05/19 3/05/19 3/05/19 3/05/19 4/06/19 4/06/19 4/06/19 4/06/19	29/04/19 7/06/19 7/06/19 24/04/19 24/04/19 24/04/19 24/04/19 24/04/19 24/04/19 24/04/19 12/06/19 12/06/19 12/06/19 12/06/19 27/05/19 21/06/19 21/06/19 21/06/19 21/06/19 21/06/19 21/06/19	13/05/19 13/06/19 13/06/19 13/06/19 13/05/19 13/05/19 13/05/19 13/05/19 13/05/19 13/05/19 13/06/19	NOx O&G PH TSS Salinity O&G PH TDS Salinity NOx O Salinity NOx O Salinity NOx O Salinity NOx O Salinity TDS TSS Salinity O Salinity TDS TSS Salinity TDS TSS Salinity TDS TSS Salinity TDS TSS TSS Salinity	ppm mg/L mg/L ppt mg/L ppt mg/L ppt ppb ppb ppb ppm mg/L mg/L ppt mg/L mg/L ppt mg/L mg/L ppt mg/L mg/L mg/L ppt ppb ppm mg/L mg/L mg/L ppt ppb ppb ppm	Continuous Weekly during any discharge Weekly during any discharge Weekly during any discharge Monthly	2132g/min	Section Sec	7.01 7.2 8.4 1 0.286 <5 7.6 374 15 0.432 0 13 188 -2 16 37 <2132g/mi nil 7.2 7.49 8.00 2 0.332 <5 7.18 128 4 4 0.15 0 15 165 -1 16 31 <2132g/mi nil 6.75 7.19 7.60 4 0.059 <5 7.48 134 7 4 17	No
May-19	Point 8 - First Flush Effluent quality monitoring Point 9 - Process Water Effluent quality monitoring Point 10 - Ambient air and weather monitoring station Point 11 - Air emissions monitoring Point 9 - Process Water Effluent quality monitoring Point 9 - Process Water Effluent quality monitoring Point 10 - Ambient air and weather monitoring station Point 11 - Air emissions monitoring Point 8 - First Flush Effluent quality monitoring	2/04/19 2/04/19 2/04/19 2/04/19 2/04/19 2/04/19 2/04/19 2/04/19 2/04/19 3/05/19 3/05/19 3/05/19 3/05/19 3/05/19 3/05/19 4/06/19 4/06/19 4/06/19	29/04/19 7/06/19 7/06/19 24/04/19 24/04/19 24/04/19 24/04/19 24/04/19 24/04/19 24/04/19 24/04/19 24/04/19 24/04/19 24/04/19 24/04/19 22/05/19 12/06/19 12/06/19 12/06/19 27/05/19 27/05/19 27/05/19 27/05/19 27/05/19 27/05/19 27/05/19 27/05/19 27/05/19 27/05/19 27/05/19 27/05/19 27/05/19 27/05/19 27/05/19 27/05/19 27/05/19 27/05/19 27/05/19 21/06/19 21/06/19 21/06/19 21/06/19 21/06/19	13/06/19 13/06/19 13/06/19 13/06/19 13/05/19 13/05/19 13/05/19 13/05/19 13/05/19 13/05/19 13/06/19	NOx O&G PH TSS Salinity O&G TDS TSS Salinity NOx O&G PH TTSS Salinity NOx O&G ROX O&G PH TTSS Salinity NOx O&G ROX O&G PH TTSS Salinity NOX O&G PH TTSS Salinity O&G PH TTSS TTDS	ppm mg/L mg/L ppt mg/L mg/L ppt ppb ppm mg/L ppt mg/L ppt mg/L ppt mg/L ppt mg/L mg/L ppt mg/L mg/L ppt mg/L mg/L mg/L ppt pp ppm mg/L mg/L mg/L ppt ppb ppm mg/L mg/L mg/L ppt mg/L mg/L ppt mg/L	Continuous Weekly during any discharge Weekly during any discharge Weekly during any discharge Monthily	2132g/min	Section Sect	7.01 7.2 8.4 1 0.286 <5 7.6 374 15 0.432 0 13 188 -2 16 37 <2132g/min nil 7.2 7.49 8.00 2 0.332 <5 7.18 128 4 0.15 0 15 165 -1 16 31 <2132g/min nil 6.75 7.19 7.60 4 0.059 <5 7.48 134	No

Note: First flush was empty during sampling

Note: Process Water pH was low at the time of sampling. Process water was being stored and removed from site at this time due to maintenance being conducted on the holding pits. No process water irrigated while pH cor

Note: During the 2018-2019 Annual Return Compliance Review, additional Point 11 data (pH and O&G only) was identified for the September 2018 - April 2019 period. Additional data did not identify any water quality exceedances.

Data identified 07/06/19. Data republished 13/06/19.