



## Eraring Power Station - EPA Licence 1429

Rocky Point Rd, Dora Creek NSW 2264

### Environmental Monitoring Data

March 2020



## Unit 1 Boiler Continuous Emission Monitoring Summary

EPA Identification no. 11 - Air emissions monitoring, Boiler 1 stack discharge to air

	NOX			Particulates			SOX		
	ppm (7% O <sub>2</sub> )			mg/m <sup>3</sup>			ppm (7% O <sub>2</sub> )		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 March	134	165	114	9.5	13.7	5.4	234	261	213
2 March	137	168	116	8.3	13.5	3.6	237	266	200
3 March	140	162	115	11.2	13.7	9.6	239	257	216
4 March	147	161	119	14.3	47.7	8.6	240	284	186
5 March	140	155	111	9.4	13.3	6.1	252	293	218
6 March	149	163	129	9.1	15.6	3.4	239	251	208
7 March	132	149	117	13.0	18.6	10.2	246	269	218
8 March	156	194	118	17.1	20.9	13.2	218	286	182
9 March	138	187	115	18.0	23.8	15.4	209	250	152
10 March	136	159	103	11.6	21.1	4.4	248	271	207
11 March	148	171	119	8.7	15.3	4.8	237	275	192
12 March	144	172	116	8.9	15.2	4.2	239	261	206
13 March	137	164	116	9.5	16.7	4.1	243	263	201
14 March	122	144	111	13.6	16.4	9.1	218	266	184
15 March	128	150	109	12.7	15.5	8.9	204	234	174
16 March	129	162	111	11.7	18.1	6.6	190	218	161
17 March	157	232	104	13.1	17.9	8.6	231	254	194
18 March	143	171	110	9.0	16.4	3.9	229	255	189
19 March	147	172	119	8.6	14.2	4.2	246	271	204
20 March	144	180	121	9.1	15.2	4.8	250	274	210
21 March	137	178	112	9.4	13.7	5.4	245	257	218
22 March	139	189	117	11.5	15.9	7.5	254	281	194
23 March	139	178	114	10.4	15.5	7.7	256	278	235
24 March	155	224	112	9.6	15.6	5.2	253	271	226
25 March	142	185	128	12.9	18.3	5.6	257	282	234
26 March	144	169	106	17.9	34.6	10.8	242	292	220
27 March	144	197	120	17.1	42.6	7.1	209	242	170
28 March	139	172	114	15.3	20.9	9.9	171	195	148
29 March	148	199	121	12.5	18.7	7.3	178	233	156
30 March	154	197	130	11.1	17.6	6.8	206	241	154
31 March	156	182	136	8.3	12.5	4.0	189	218	171

## Unit 2 Boiler Continuous Emission Monitoring Summary

EPA Identification no. 12 - Air emissions monitoring, Boiler 2 stack discharge to air

	NOX			Particulates			SOX		
	ppm (7% O <sub>2</sub> )			mg/m <sup>3</sup>			ppm (7% O <sub>2</sub> )		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 March	122	153	101	15.1	18.9	12.8	250	270	225
2 March	142	186	111	14.1	18.6	9.2	232	263	186
3 March	146	181	117	16.1	19.6	13.9	237	286	214
4 March	128	169	103	15.7	20.0	12.5	227	246	189
5 March	164	181	104	14.9	19.1	12.4	241	287	218
6 March	166	185	132	13.6	20.5	10.7	232	258	212
7 March	133	165	116	23.9	28.2	17.0	233	279	157
8 March	131	158	117	17.0	18.1	15.0	239	322	179
9 March	145	229	125	17.5	20.3	15.0	213	261	144
10 March	137	158	113	16.5	21.2	13.8	261	297	231
11 March	141	171	111	16.4	19.5	13.9	257	280	242
12 March	126	144	108	16.7	19.3	13.8	240	278	216
13 March	122	160	104	17.0	21.7	13.7	238	265	186
14 March	113	121	102	18.0	20.4	16.3	245	276	203
15 March	119	129	105	18.4	19.4	16.3	238	269	205
16 March	125	159	110	17.0	20.6	14.1	221	236	194
17 March	156	225	102	18.1	22.7	14.6	256	314	226
18 March	134	177	101	16.5	20.0	14.2	233	251	216
19 March	132	149	111	14.9	20.1	10.2	238	255	214
20 March	128	177	102	14.2	17.4	10.1	239	258	199
21 March	118	150	101	15.5	17.5	13.9	237	256	209
22 March	133	192	106	16.8	20.1	13.4	266	304	209
23 March	145	194	101	17.3	19.1	16.0	264	283	200
24 March	146	190	110	17.3	20.6	14.4	254	296	203
25 March	133	163	104	17.6	20.0	14.1	267	315	228
26 March	133	164	110	17.8	20.4	14.7	236	319	202
27 March	140	175	115	17.9	21.7	14.0	224	255	194
28 March	131	163	104	17.6	19.7	15.0	194	221	166
29 March	130	179	118	16.8	19.2	13.6	186	235	166
30 March	137	180	111	15.5	18.9	13.2	201	240	170
31 March	149	171	129	14.6	18.4	12.2	181	212	162

## Unit 3 Boiler Continuous Emission Monitoring Summary

*EPA Identification no. 13 - Air emissions monitoring, Boiler 3 stack discharge to air*

	NOX			Particulates			SOX		
	ppm (7% O <sub>2</sub> )			mg/m <sup>3</sup>			ppm (7% O <sub>2</sub> )		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 March	138	180	105	19.7	23.6	16.2	261	284	222
2 March	139	169	115	20.2	24.2	16.2	260	281	221
3 March	146	162	114	17.3	20.9	15.7	249	271	237
4 March	143	159	130	22.5	38.0	18.5	253	281	232
5 March	138	159	113	22.0	27.4	18.1	273	306	255
6 March	154	186	111	20.2	23.9	17.1	249	262	232
7 March	147	183	123	20.1	22.3	17.7	269	298	236
8 March	150	165	141	21.7	24.4	17.7	289	344	230
9 March	152	178	133	20.8	23.9	15.8	266	316	210
10 March	154	193	117	19.4	23.0	16.3	289	307	261
11 March	161	195	126	19.6	21.9	16.8	251	272	223
12 March	158	205	130	20.6	24.5	17.8	259	278	232
13 March	155	204	119	20.5	23.0	17.3	276	302	244
14 March	157	178	132	22.4	26.3	20.5	262	291	221
15 March	158	184	125	22.2	24.2	19.6	257	285	235
16 March	146	180	127	22.1	27.9	18.1	228	250	213
17 March	170	225	135	21.7	25.3	15.9	274	307	220
18 March	141	164	114	21.3	27.6	17.2	269	298	228
19 March	143	169	116	20.6	25.0	17.1	272	283	231
20 March	138	165	116	23.2	28.7	18.5	278	286	252
21 March	143	150	129	20.4	23.0	17.3	276	300	238
22 March	155	179	136	22.1	26.9	17.5	304	345	246
23 March	157	177	135	21.3	23.7	19.5	297	311	260
24 March	145	161	121	21.9	24.1	19.0	289	314	258
25 March	143	164	127	24.0	30.0	20.6	300	337	257
26 March	136	160	118	27.4	34.8	23.4	271	336	242
27 March	132	146	111	26.6	39.3	20.5	268	304	208
28 March	135	160	115	25.5	33.5	21.5	216	240	191
29 March	146	173	127	24.2	29.1	18.6	213	243	191
30 March	144	179	129	23.5	28.1	19.2	235	257	204
31 March	147	169	122	22.2	26.6	17.7	212	243	189

## Unit 4 Boiler Continuous Emission Monitoring Summary

*EPA Identification no. 14 - Air emissions monitoring, Boiler 4 stack discharge to air  
Unit 4 Out of Service 22-31 March 2020*

	NOX			Particulates			SOX		
	ppm (7% O <sub>2</sub> )			mg/m <sup>3</sup>			ppm (7% O <sub>2</sub> )		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 March	172	193	142	13.5	14.4	11.8	266	296	234
2 March	169	190	149	13.2	17.8	11.4	261	292	235
3 March	173	191	150	13.4	27.0	11.9	262	283	247
4 March	182	232	149	18.0	23.1	12.9	257	303	237
5 March	152	160	147	13.1	13.9	12.4	278	303	251
6 March	153	166	144	13.2	14.9	12.4	263	283	238
7 March	161	170	149	13.0	13.4	12.4	268	316	246
8 March	164	175	149	14.2	14.9	12.9	284	334	209
9 March	167	189	138	14.2	14.9	13.4	255	337	204
10 March	165	181	144	13.9	16.0	12.4	279	309	233
11 March	191	217	158	13.6	15.0	13.0	260	306	231
12 March	192	211	162	14.2	16.1	11.9	265	299	234
13 March	185	211	167	14.0	15.0	12.4	270	288	246
14 March	188	206	148	15.7	16.6	14.5	257	291	220
15 March	192	201	172	15.8	16.6	14.5	258	286	229
16 March	180	201	166	15.1	16.6	13.0	230	247	212
17 March	199	240	171	15.4	16.0	13.0	276	308	245
18 March	177	196	160	14.5	16.5	13.2	274	297	250
19 March	186	198	155	13.7	15.7	11.9	272	288	254
20 March	171	193	152	13.8	14.8	12.4	284	308	270
21 March	185	185	185	16.7	23.6	12.6	306	306	306
22 March	-	-	-	-	-	-	-	-	-
23 March	-	-	-	-	-	-	-	-	-
24 March	-	-	-	-	-	-	-	-	-
25 March	-	-	-	-	-	-	-	-	-
26 March	-	-	-	-	-	-	-	-	-
27 March	-	-	-	-	-	-	-	-	-
28 March	-	-	-	-	-	-	-	-	-
29 March	-	-	-	-	-	-	-	-	-
30 March	-	-	-	-	-	-	-	-	-
31 March	-	-	-	-	-	-	-	-	-

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## Unit 1 Boiler Emission Test Results

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*EPA Identification no. 11 - Air emissions monitoring, Boiler 1 stack discharge to air*

<u>Name</u>	<u>Reading</u>	<u>Units</u>	<u>Licence Limit</u>	<u>Date</u>
Cadmium	<0.0002	mg/m <sup>3</sup>	0.2	25-26/02/2020
Carbon Dioxide (Wet)	12.3	%	-	25-26/02/2020
Carbon Monoxide	<2	ppm	-	25-26/02/2020
Chlorine	0.015	mg/m <sup>3</sup>	200	25-26/02/2020
Copper	0.00062	mg/m <sup>3</sup>	-	25-26/02/2020
Dry Gas Density	1.33	kg/m <sup>3</sup>	-	25-26/02/2020
Fluoride As HF - Total	9.2	mg/m <sup>3</sup>	50	25-26/02/2020
Hazardous Substances (Metals) - Total	<0.011	mg/m <sup>3</sup>	1	25-26/02/2020
Hydrogen Chloride	7.2	mg/m <sup>3</sup>	100	25-26/02/2020
Mercury	0.00019	mg/m <sup>3</sup>	0.2	25-26/02/2020
Moisture	6.3	%	-	25-26/02/2020
Particulates - Total	3.0	mg/m <sup>3</sup>	50	25-26/02/2020
Stack Gas Molecular Weight	29.6	kg/k-mole	-	25-26/02/2020
Temperature	120	degC	-	25-26/02/2020
Velocity	15.5	m/sec	-	25-26/02/2020
Volatile Organic Compounds (VOC) - Total	0.01	ppm	-	25-26/02/2020
Volumetric Flow Rate (Dry At STP)	375	m <sup>3</sup> /sec	-	25-26/02/2020

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## Unit 2 Boiler Emission Test Results

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*EPA Identification no. 12 - Air emissions monitoring, Boiler 2 stack discharge to air*

<u>Name</u>		<u>Units</u>	<u>Licence Limit</u>	<u>Date</u>
Cadmium	<0.0005	mg/m <sup>3</sup>	0.2	19/02/2019
Carbon Dioxide (Wet)	11.9	%	-	19/02/2019
Carbon Monoxide	<40	ppm	-	19/02/2019
Chlorine	<0.007	mg/m <sup>3</sup>	200	6/06/2019
Copper	0.0036	mg/m <sup>3</sup>	-	19/02/2019
Dry Gas Density	1.32	kg/m <sup>3</sup>	-	19/02/2019
Fluoride As HF - Total	5.4	mg/m <sup>3</sup>	50	6/06/2019
Hazardous Substances (Metals) - Total	<0.033	mg/m <sup>3</sup>	1	19/02/2019
Hydrogen Chloride	4.6	mg/m <sup>3</sup>	100	6/06/2019
Mercury	0.00057	mg/m <sup>3</sup>	0.2	19/02/2019
Moisture	6.8	%	-	19/02/2019
Particulates - Total	4.2	mg/m <sup>3</sup>	50	19/02/2019
Stack Gas Molecular Weight	29.6	Kg/k-mole	-	19/02/2019
Temperature	124	degC	-	19/02/2019
Velocity	15.5	m/sec	-	19/02/2019
Volatile Organic Compounds (VOC) - Total	0.033	ppm	-	6/06/2019
Volumetric Flow Rate (Dry At STP)	351	m <sup>3</sup> /sec	-	19/02/2019

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### Unit 3 Boiler Emission Test Results

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*EPA Identification no. 13 - Air emissions monitoring, Boiler 3 stack discharge to air*

<u>Name</u>		<u>Units</u>	<u>Licence Limit</u>	<u>Date</u>
Cadmium	<0.0002	mg/m <sup>3</sup>	0.2	7-8 May 2019
Carbon Dioxide (Wet)	13	%	-	7-8 May 2019
Carbon Monoxide	126	ppm	-	7-8 May 2019
Chlorine	0.007	mg/m <sup>3</sup>	200	7-8 May 2019
Copper	0.00064	mg/m <sup>3</sup>	-	7-8 May 2019
Dry Gas Density	1.32	kg/m <sup>3</sup>	-	7-8 May 2019
Fluoride As HF - Total	10	mg/m <sup>3</sup>	50	7-8 May 2019
Hazardous Substances (Metals) - Total	<0.010	mg/m <sup>3</sup>	1	7-8 May 2019
Hydrogen Chloride	9.5	mg/m <sup>3</sup>	100	7-8 May 2019
Mercury	<0.0002	mg/m <sup>3</sup>	0.2	7-8 May 2019
Moisture	6.7	%	-	7-8 May 2019
Particulates - Total	5.9	mg/m <sup>3</sup>	50	7-8 May 2019
Stack Gas Molecular Weight	29.6	kg/k-mole	-	7-8 May 2019
Temperature	122	degC	-	7-8 May 2019
Velocity	15	m/sec	-	7-8 May 2019
Volatile Organic Compounds (VOC) - Total	<0.008	ppm	-	7-8 May 2019
Volumetric Flow Rate (Dry At STP)	345	m <sup>3</sup> /sec	-	7-8 May 2019



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## Unit 4 Boiler Emission Test Results

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*EPA Identification no. 14 - Air emissions monitoring, Boiler 4 stack discharge to air*

<u>Name</u>	<u>Reading</u>	<u>Units</u>	<u>Licence Limit</u>	<u>Date</u>
Cadmium	<0.0002	mg/m <sup>3</sup>	0.2	10-11/12/2019
Carbon Dioxide (Wet)	12.1	%	-	10-11/12/2019
Carbon Monoxide	13.8	ppm	-	10-11/12/2019
Chlorine	0.025	mg/m <sup>3</sup>	200	10-11/12/2019
Copper	0.0029	mg/m <sup>3</sup>	-	10-11/12/2019
Dry Gas Density	1.32	kg/m <sup>3</sup>	-	10-11/12/2019
Fluoride As HF - Total	10.5	mg/m <sup>3</sup>	50	10-11/12/2019
Hazardous Substances (Metals) - Total	<0.013	mg/m <sup>3</sup>	1	10-11/12/2019
Hydrogen Chloride	25.5	mg/m <sup>3</sup>	100	10-11/12/2019
Mercury	0.00052	mg/m <sup>3</sup>	0.2	10-11/12/2019
Moisture	6.5	%	-	10-11/12/2019
Particulates - Total	9.7	mg/m <sup>3</sup>	50	10-11/12/2019
Stack Gas Molecular Weight	29.6	kg/k-	-	10-11/12/2019
Temperature	127	degC	-	10-11/12/2019
Velocity	16.0	m/sec	-	10-11/12/2019
Volatile Organic Compounds (VOC) - Total	<0.0085	ppm	-	10-11/12/2019
Volumetric Flow Rate (Dry At STP)	357	m <sup>3</sup> /sec	-	10-11/12/2019

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## Eraring Depositional Dust Gauges

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*EPA Identification no. 18, 25, 26 & 27 - Depositional dust monitoring within 1km  
of the coal handling operations*

	Deposited Matter		
	g/m <sup>2</sup> /month		
	Ash	Combustible	Insoluble
<b>E2</b>	0.7	0.5	1.2
<b>E4</b>	0.9	0.5	1.4
<b>E6</b>	1.1	0.7	1.8
<b>U6</b>	1.0	0.9	1.9

## Water Quality - Lake Monitoring LM10

*EPA Identification no. 4 - The waters of Lake Macquarie located midway between cooling water inlet and Hungary Point*

	Temp	pH	Salinity	Dissolved Oxygen		Secchi
	degC		ppt	%	mg/L	m
<b>Depth/Air</b>	26.86					
<b>010cm</b>	26.85	8.68	32.6	68.7	4.41	1.25
<b>050cm</b>	26.87	8.57	32.6	65.0	4.24	
<b>100cm</b>	26.83	8.56	32.6	70.7	4.59	
<b>150cm</b>	26.82	8.56	32.6	70.7	4.55	
<b>Bottom</b>	26.81	8.56	32.7	70.4	4.60	

## Water Quality - Lake Monitoring LM12

*EPA Identification no. 6 - The waters of Lake Macquarie located at the Eraring/Vales Point mixing zone off Fishery Point*

	Temp	pH	Salinity	Dissolved Oxygen		Secchi
	degC		ppt	%	mg/L	m
<b>Depth/Air</b>	28.2					
<b>010cm</b>	26.48	8.70	32.7	71.1	4.59	3.25
<b>050cm</b>	26.95	8.65	32.6	67.9	4.38	
<b>100cm</b>	26.95	8.64	32.6	66.1	4.33	
<b>150cm</b>	26.96	8.64	32.5	69.3	4.49	
<b>200cm</b>	26.96	8.63	32.6	71.3	4.71	
<b>250cm</b>	26.53	8.62	32.6	75.6	4.99	
<b>300cm</b>	26.34	8.62	32.7	76.3	5.03	
<b>350cm</b>	26.20	8.60	32.7	82.3	5.40	
<b>400cm</b>	26.24	8.60	32.7	80.6	5.28	
<b>450cm</b>	26.25	8.59	32.7	78.6	5.14	
<b>500cm</b>	26.23	8.59	32.8	79.4	5.18	
<b>550cm</b>	26.14	8.56	32.9	80.5	5.28	
<b>600cm</b>	26.07	8.49	33.3	73.0	4.61	
<b>650cm</b>	25.93	8.37	33.7	63.4	4.13	
<b>Bottom</b>	25.91	8.26	34.1	54.0	3.51	

## Water Quality - Lake Monitoring LM4

*EPA Identification no. 7 - The northern waters of Lake Macquarie east off Lake Macquarie Yacht Club*

	Temp	pH	Salinity	Dissolved Oxygen		Secchi
	degC		ppt	%	mg/L	m
<b>Depth/Air</b>	23.0					
<b>010cm</b>	24.46	8.66	33.7	95.2	6.37	3.75
<b>050cm</b>	24.56	8.63	33.7	91.5	6.13	
<b>100cm</b>	24.60	8.60	33.7	90.7	6.07	
<b>150cm</b>	24.64	8.58	33.7	80.0	5.36	
<b>200cm</b>	24.61	8.58	33.7	79.4	5.31	
<b>250cm</b>	24.63	8.58	33.7	78.7	5.27	
<b>300cm</b>	24.62	8.57	33.7	78.3	5.24	
<b>350cm</b>	24.61	8.57	33.7	76.8	5.15	
<b>400cm</b>	24.60	8.57	33.7	76.7	5.13	
<b>450cm</b>	24.56	8.56	33.8	75.7	5.07	
<b>500cm</b>	24.51	8.56	33.8	75.1	5.03	
<b>550cm</b>	24.48	8.56	33.8	73.5	4.95	
<b>600cm</b>	24.31	8.55	34.0	72.8	4.91	
<b>650cm</b>	24.17	8.55	33.9	72.6	4.87	
<b>700cm</b>	24.06	8.55	34.0	71.0	4.78	
<b>750cm</b>	23.95	8.52	34.1	66.8	4.49	
<b>800cm</b>	23.97	8.52	34.1	58.7	3.96	
<b>850cm</b>	23.90	8.50	34.2	54.6	3.68	
<b>Bottom</b>	23.83	8.44	34.2	50.2	3.39	

## Water Quality - Lake Monitoring LM7

*EPA Identification no. 5 - The waters of Lake Macquarie located off old Wangi power station inlet point in Myuna Bay*

	Temp	pH	Salinity	Dissolved Oxygen		Secchi
	degC		ppt	%	mg/L	m
<b>Depth/Air</b>	24.63					
<b>010cm</b>	27.57	8.54	33.0	106.4	6.84	2.75
<b>050cm</b>	27.82	8.53	32.9	95.1	6.02	
<b>100cm</b>	28.01	8.53	32.9	85.7	5.47	
<b>150cm</b>	28.12	8.53	32.8	83.2	5.22	
<b>200cm</b>	28.17	8.54	32.8	81.0	5.15	
<b>250cm</b>	28.18	8.54	32.8	80.0	5.09	
<b>300cm</b>	28.19	8.54	32.9	81.9	5.19	
<b>350cm</b>	28.02	8.53	32.8	87.0	5.45	
<b>400cm</b>	28.01	8.53	32.9	78.8	5.03	
<b>450cm</b>	27.28	8.49	33.0	72.2	4.63	
<b>500cm</b>	26.69	8.37	33.2	63.9	4.15	
<b>Bottom</b>	26.21	8.34	33.9	47.0	3.06	

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## Eraring Ash Dam Effluent Quality Monitoring

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*EPA Identification no. 10 - Discharge point below siphon pond weir at Ash Dam*

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Name	Reading	Units	Licence Limit	Date
Total Suspended Solids	2	mg/L	-	5/03/2020
Nitrite and Nitrate as N	2090	ug/L	-	5/03/2020
Phosphorus Reactive as P - Total	520	ug/L	-	5/03/2020
Phosphorus as P - Total	530	ug/L	-	5/03/2020

### Eraring Cooling Water Inlet Canal

*EPA Identification no. 8 - Inlet canal of the cooling water intake from Lake Macquarie*

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Name	Reading	Units	Licence Limit	Date
Temperature – Average	24.6	deg C	-	March 2020
Temperature – Minimum	22.3	deg C	-	March 2020
Temperature - Maximum	28.2	deg C	-	March 2020

### Eraring Cooling Water Outlet Canal

*EPA Identification no. 1 - Cooling water outlet canal to Myuna Bay*

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Name	Reading	Units	Licence Limit	Date
Temperature – Average	30.8	deg C	37.5	March 2020
Temperature – Minimum	26.6	deg C	37.5	March 2020
Temperature - Maximum	35.3	deg C	37.5	March 2020
Maximum Daily Discharge from Ash	29.21	ML	150	March 2020
Monthly Discharge from Ash Dam	380.8	ML	-	March 2020

### Emergency Discharge – Toe Drain Pond

*EPA Identification no. 17 - Emergency discharge to toe drain collection pond*

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Name	Reading	Units	Licence Limit	Date
Nitrite and Nitrate as N	49	ug/L	-	5/03/2020
Phosphorus as P – Total	17	ug/L	-	5/03/2020

## Groundwater Monitoring

### Groundwater Well – MW01

EPA Identification no. 21 – Groundwater Monitoring Well 01

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Name	Reading	Units	Date
Arsenic	1.1	ug/L	18/12/2019
Cadmium	<0.05	ug/L	18/12/2019
Calcium	1000	ug/L	18/12/2019
Chromium	3.5	ug/L	18/12/2019
Copper	4.0	ug/L	18/12/2019
Electrical Conductivity	0.370	mS/cm	18/12/2019
Iron	1690	ug/L	18/12/2019
Lead	5.2	ug/L	18/12/2019
Magnesium	4000	ug/L	18/12/2019
Manganese	73.1	ug/L	18/12/2019
Nickel	4.8	ug/L	18/12/2019
pH	4.92	pH	18/12/2019
Potassium	4000	ug/L	18/12/2019
Selenium	0.4	ug/L	18/12/2019
Standing Water Level	9.310	metres	18/12/2019
Zinc	84	ug/L	18/12/2019

### Groundwater Well – MW02

EPA Identification no. 22 – Groundwater Monitoring Well 02

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Name	Reading	Units	Date
Arsenic	6.1	ug/L	5/12/2019
Cadmium	<0.05	ug/L	5/12/2019
Calcium	342000	ug/L	5/12/2019
Chromium	0.9	ug/L	5/12/2019
Copper	<0.5	ug/L	5/12/2019
Electrical Conductivity	16.000	mS/cm	5/12/2019
Iron	7930	ug/L	5/12/2019
Lead	0.9	ug/L	5/12/2019
Magnesium	258000	ug/L	5/12/2019
Manganese	974	ug/L	5/12/2019
Nickel	<0.5	ug/L	5/12/2019
pH	6.42	pH	5/12/2019
Potassium	138000	ug/L	5/12/2019
Selenium	0.5	ug/L	5/12/2019
Standing Water Level	4.295	metres	5/12/2019
Zinc	7	ug/L	5/12/2019



### Groundwater Well – MW06

EPA Identification no. 23 – Groundwater Monitoring Well 06

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Name	Reading	Units	Date
Arsenic	6.9	ug/L	5/12/2019
Cadmium	<0.05	ug/L	5/12/2019
Calcium	510000	ug/L	5/12/2019
Chromium	0.7	ug/L	5/12/2019
Copper	<0.5	ug/L	5/12/2019
Electrical Conductivity	20.600	mS/cm	5/12/2019
Iron	11000	ug/L	5/12/2019
Lead	<0.1	ug/L	5/12/2019
Magnesium	297000	ug/L	5/12/2019
Manganese	347	ug/L	5/12/2019
Nickel	1.0	ug/L	5/12/2019
pH	6.54	pH	5/12/2019
Potassium	139000	ug/L	5/12/2019
Selenium	0.5	ug/L	5/12/2019
Standing Water Level	1.960	metres	5/12/2019
Zinc	2	ug/L	5/12/2019

### Groundwater Well – EGM/D26

EPA Identification no. 24 – Groundwater Monitoring Well D26  
Groundwater well was dry during sampling in December 2019

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Name	Reading	Units	Date
Arsenic		ug/L	
Cadmium		ug/L	
Calcium		ug/L	
Chromium		ug/L	
Copper		ug/L	
Electrical Conductivity		mS/cm	
Iron		ug/L	
Lead		ug/L	
Magnesium		ug/L	
Manganese		ug/L	
Nickel		ug/L	
pH		pH	
Potassium		ug/L	
Selenium		ug/L	
Standing Water Level		metres	
Zinc		ug/L	