



# Eraring Power Station - EPA Licence 1429

Rocky Point Rd, Dora Creek NSW 2264

## Environmental Monitoring Data

May 2020



## Unit 1 Boiler Continuous Emission Monitoring Summary

*EPA Identification no. 11 - Air emissions monitoring, Boiler 1 stack discharge to air  
Unit Out of Service 1-18 May 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 May	-	-	-	-	-	-	-	-	-
2 May	-	-	-	-	-	-	-	-	-
3 May	-	-	-	-	-	-	-	-	-
4 May	-	-	-	-	-	-	-	-	-
5 May	-	-	-	-	-	-	-	-	-
6 May	-	-	-	-	-	-	-	-	-
7 May	-	-	-	-	-	-	-	-	-
8 May	-	-	-	-	-	-	-	-	-
9 May	-	-	-	-	-	-	-	-	-
10 May	-	-	-	-	-	-	-	-	-
11 May	-	-	-	-	-	-	-	-	-
12 May	-	-	-	-	-	-	-	-	-
13 May	-	-	-	-	-	-	-	-	-
14 May	-	-	-	-	-	-	-	-	-
15 May	-	-	-	-	-	-	-	-	-
16 May	-	-	-	-	-	-	-	-	-
17 May	-	-	-	-	-	-	-	-	-
18 May	-	-	-	-	-	-	-	-	-
19 May	136	179	117	16.3	23.6	11.5	181	190	170
20 May	128	155	110	16.0	22.3	12.0	184	202	171
21 May	139	184	114	16.4	19.9	13.7	181	206	144
22 May	161	190	142	14.4	20.5	11.7	193	209	165
23 May	151	180	132	15.4	18.4	11.7	183	194	159
24 May	166	186	136	16.3	19.0	12.3	187	202	174
25 May	151	179	116	19.8	29.5	11.6	188	204	174
26 May	150	173	131	20.3	29.9	11.2	189	207	164
27 May	156	180	137	17.9	23.0	14.0	191	216	180
28 May	150	167	136	15.5	22.4	9.8	196	204	168
29 May	139	162	121	17.1	22.7	12.8	186	198	168
30 May	141	162	109	20.5	26.4	13.2	185	207	172
31 May	120	150	101	18.9	24.7	12.2	166	201	148

## Unit 2 Boiler Continuous Emission Monitoring Summary

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

*Unit Out of Service 28-31 May 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 May	149	175	121	17.9	20.7	16.1	197	218	178
2 May	127	162	106	16.8	18.4	14.3	205	233	192
3 May	139	156	118	17.2	18.3	15.3	196	209	184
4 May	135	151	110	17.3	19.9	14.8	178	191	167
5 May	135	147	121	17.0	18.4	15.2	204	225	176
6 May	137	156	109	16.7	18.4	15.0	217	230	198
7 May	139	162	118	17.5	20.3	15.4	205	221	191
8 May	134	164	101	16.7	18.7	14.0	210	232	198
9 May	137	162	106	16.5	18.3	15.0	219	243	199
10 May	132	160	116	18.6	20.6	16.3	208	227	193
11 May	138	163	115	18.1	20.1	16.4	198	215	174
12 May	137	157	106	18.2	21.1	16.0	221	242	204
13 May	144	172	118	17.5	20.2	15.5	223	242	199
14 May	132	161	103	17.8	21.8	15.5	215	225	187
15 May	145	168	115	17.6	18.6	16.5	234	254	204
16 May	133	159	104	17.9	19.7	15.6	213	229	196
17 May	142	174	112	17.3	20.6	14.4	184	199	163
18 May	135	163	108	16.4	19.6	14.8	192	211	174
19 May	142	170	120	17.3	22.7	14.2	182	194	170
20 May	124	136	110	16.2	18.4	14.3	192	205	176
21 May	137	292	110	16.3	21.3	13.4	189	202	174
22 May	136	158	104	17.1	20.9	14.3	191	201	180
23 May	128	145	115	16.5	19.5	13.8	181	191	167
24 May	133	159	100	17.1	20.1	14.3	190	200	179
25 May	132	150	116	17.4	20.3	14.9	189	199	174
26 May	136	170	118	17.8	21.9	14.1	196	210	184
27 May	140	172	116	18.1	20.5	15.3	205	232	176
28 May	-	-	-	-	-	-	-	-	-
29 May	-	-	-	-	-	-	-	-	-
30 May	-	-	-	-	-	-	-	-	-
31 May	-	-	-	-	-	-	-	-	-

## Unit 3 Boiler Continuous Emission Monitoring Summary

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

*Unit Out of Service 3-5 May 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 May	175	242	132	18.7	22.0	16.1	221	254	201
2 May	158	175	141	20.2	20.7	19.7	217	221	213
3 May	-	-	-	-	-	-	-	-	-
4 May	-	-	-	-	-	-	-	-	-
5 May	-	-	-	-	-	-	-	-	-
6 May	147	168	127	14.7	19.2	13.2	243	274	216
7 May	157	204	105	14.6	15.4	13.3	233	264	198
8 May	167	219	127	14.3	16.4	13.3	237	255	185
9 May	148	166	125	13.5	14.8	13.0	244	267	194
10 May	157	176	142	13.2	14.7	12.6	235	249	222
11 May	175	229	118	11.1	14.9	9.1	222	248	161
12 May	167	216	117	12.6	25.4	8.5	238	270	182
13 May	178	232	112	12.4	20.8	8.0	248	273	190
14 May	173	224	109	12.2	16.4	9.1	243	267	174
15 May	151	175	114	16.2	31.2	10.3	245	275	183
16 May	163	226	121	13.8	16.9	8.3	243	275	206
17 May	163	209	141	13.3	18.3	8.3	204	226	177
18 May	159	171	137	18.3	27.1	9.7	232	239	217
19 May	174	217	135	23.4	35.4	18.6	228	243	188
20 May	176	195	144	24.1	31.3	14.3	225	252	197
21 May	157	211	118	14.7	22.0	9.1	219	243	164
22 May	180	248	113	11.4	15.4	8.0	219	231	165
23 May	150	196	120	12.4	16.3	8.4	213	231	166
24 May	155	202	110	13.9	17.7	9.6	230	251	184
25 May	161	256	121	15.8	23.0	11.2	218	225	210
26 May	148	186	121	13.5	18.0	8.8	224	237	212
27 May	151	166	126	12.5	15.4	9.7	223	255	184
28 May	156	206	108	10.7	16.5	8.8	221	233	166
29 May	164	191	115	9.2	10.2	8.6	221	249	177
30 May	150	170	115	9.5	11.3	8.6	228	254	181
31 May	156	240	109	9.1	10.2	8.7	228	243	177

## Unit 4 Boiler Continuous Emission Monitoring Summary

*EPA Identification no. 14 - Air emissions monitoring, Boiler 4 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 May	226	261	189	16.5	18.2	15.1	219	239	205
2 May	200	227	175	16.6	18.2	14.6	223	252	203
3 May	194	216	177	16.2	18.7	14.5	206	221	187
4 May	187	209	168	15.9	18.1	14.0	190	217	172
5 May	187	205	167	16.5	19.3	14.4	221	248	176
6 May	188	205	164	16.8	19.6	15.5	246	261	197
7 May	162	175	145	17.7	18.6	17.0	229	246	220
8 May	176	197	152	17.9	19.7	16.5	237	250	223
9 May	193	222	170	17.9	19.9	16.7	248	268	231
10 May	195	218	178	19.1	20.8	18.0	247	263	229
11 May	186	208	166	19.3	22.8	18.1	232	260	216
12 May	199	230	176	18.9	23.6	14.2	254	284	223
13 May	206	225	181	15.7	17.9	14.1	260	290	224
14 May	208	243	171	15.8	18.1	14.8	257	274	217
15 May	190	222	164	19.5	23.4	14.9	262	292	244
16 May	205	231	163	20.7	24.4	14.4	242	269	228
17 May	212	228	197	16.5	18.6	13.9	207	233	195
18 May	183	204	151	15.2	18.5	13.3	213	227	184
19 May	201	241	176	15.8	22.0	14.0	212	226	196
20 May	196	218	165	16.7	20.3	15.0	229	257	209
21 May	199	223	156	17.2	19.6	15.2	206	221	184
22 May	197	231	154	19.6	27.0	16.2	217	227	207
23 May	199	229	175	21.1	25.6	17.9	211	224	197
24 May	219	263	183	21.8	27.6	16.3	215	234	193
25 May	224	278	180	22.6	30.1	19.4	217	231	198
26 May	218	266	185	22.9	32.0	18.9	230	244	219
27 May	233	258	167	16.9	20.0	15.2	235	242	194
28 May	219	265	183	16.0	18.3	13.7	237	248	225
29 May	209	239	171	16.0	17.3	14.7	229	248	217
30 May	227	243	209	17.5	20.1	15.8	240	251	231
31 May	243	284	195	17.6	20.2	14.5	228	237	211

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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	13-14/11/2018
Carbon Dioxide (Wet)	13.8	%	-	13-14/11/2018
Carbon Monoxide	<40	ppm	-	13-14/11/2018
Chlorine	0.008	mg/m <sup>3</sup>	200	13-14/11/2018
Copper	0.0003	mg/m <sup>3</sup>	-	13-14/11/2018
Dry Gas Density	1.33	kg/m <sup>3</sup>	-	13-14/11/2018
Fluoride As HF - Total	8.7	mg/m <sup>3</sup>	50	13-14/11/2018
Hazardous Substances (Metals) - Total	≤0.0081	mg/m <sup>3</sup>	1	13-14/11/2018
Hydrogen Chloride	14.4	mg/m <sup>3</sup>	100	13-14/11/2018
Mercury	0.00020	mg/m <sup>3</sup>	0.2	13-14/11/2018
Moisture	5.9	%	-	13-14/11/2018
Particulates - Total	1.2	mg/m <sup>3</sup>	50	13-14/11/2018
Stack Gas Molecular Weight	29.9	kg/k-mole	-	13-14/11/2018
Temperature	127	degC	-	13-14/11/2018
Velocity	14	m/sec	-	13-14/11/2018
Volatile Organic Compounds (VOC) - Total	<0.02	ppm	-	13-14/11/2018
Volumetric Flow Rate (Dry At STP)	348	m <sup>3</sup> /sec	-	13-14/11/2018

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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>	0.5	0.1	0.6
<b>E4</b>	0.3	0.1	0.4
<b>E6</b>	0.3	0.1	0.4
<b>U6</b>	0.4	0.1	0.5

## 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>	19.09					
<b>010cm</b>	18.44	8.52	33.7	60.4	4.45	1.75
<b>050cm</b>	18.41	8.52	33.8	60.7	4.57	
<b>100cm</b>	18.33	8.52	33.8	60.8	4.59	
<b>150cm</b>	18.31	8.51	33.8	60.3	4.54	
<b>200cm</b>	18.27	8.51	33.8	61.6	4.57	
<b>250cm</b>	18.24	8.51	33.9	63.5	4.71	
<b>Bottom</b>	18.20	8.51	33.9	56.2	4.18	

## 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>	17.35					
<b>010cm</b>	18.13	8.53	33.9	73.2	5.46	3.75
<b>050cm</b>	18.26	8.53	33.9	65.2	4.77	
<b>100cm</b>	18.27	8.53	33.9	63.6	4.79	
<b>150cm</b>	18.26	8.53	33.9	60.5	4.41	
<b>200cm</b>	18.25	8.54	33.9	63.9	4.78	
<b>250cm</b>	18.25	8.54	33.9	66.1	4.87	
<b>300cm</b>	18.23	8.54	33.9	63.9	4.73	
<b>350cm</b>	18.22	8.54	33.9	68.7	5.20	
<b>400cm</b>	18.23	8.54	34.0	68.4	5.11	
<b>450cm</b>	18.22	8.54	34.0	68.2	5.10	
<b>500cm</b>	18.22	8.53	34.0	67.6	5.02	
<b>550cm</b>	18.23	8.53	34.0	64.1	4.78	
<b>600cm</b>	18.24	8.53	34.0	66.0	4.86	
<b>650cm</b>	18.30	8.52	34.1	64.5	4.78	
<b>Bottom</b>	18.38	8.50	34.2	63.0	4.63	

## 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>	13.62					
<b>010cm</b>	16.85	8.40	34.9	65.9	4.99	2.25
<b>050cm</b>	17.22	8.53	34.8	67.3	5.11	
<b>100cm</b>	17.34	8.59	34.8	69.3	5.22	
<b>150cm</b>	17.39	8.59	34.8	68.4	5.16	
<b>200cm</b>	17.42	8.59	34.8	71.5	5.41	
<b>250cm</b>	17.41	8.59	34.8	70.4	5.29	
<b>300cm</b>	17.41	8.58	34.8	69.0	5.19	
<b>350cm</b>	17.44	8.57	34.8	71.1	5.33	
<b>400cm</b>	17.43	8.57	34.8	69.5	5.22	
<b>450cm</b>	17.45	8.57	34.8	73.4	5.46	
<b>500cm</b>	17.44	8.57	34.8	72.4	5.42	
<b>550cm</b>	17.43	8.57	34.8	72.2	5.46	
<b>600cm</b>	17.45	8.56	34.8	72.7	5.44	
<b>650cm</b>	17.44	8.56	34.8	72.2	5.42	
<b>700cm</b>	17.45	8.56	34.8	71.8	5.39	
<b>750cm</b>	17.45	8.56	34.8	72.2	5.42	
<b>800cm</b>	17.46	8.55	34.8	73.0	5.47	
<b>850cm</b>	17.45	8.55	34.8	72.3	5.41	
<b>900cm</b>	17.45	8.55	34.8	71.6	5.35	
<b>Bottom</b>	17.44	8.55	34.8	71.2	5.35	

## 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>	17.05					
<b>010cm</b>	19.35	8.47	34.1	69.9	5.01	3.75
<b>050cm</b>	19.88	8.47	34.0	69.2	4.94	
<b>100cm</b>	20.22	8.47	33.9	71.5	5.13	
<b>150cm</b>	20.39	8.47	33.9	72.9	5.17	
<b>200cm</b>	20.39	8.48	34.1	75.1	5.30	
<b>250cm</b>	20.30	8.48	34.2	73.0	5.26	
<b>300cm</b>	20.27	8.48	34.1	75.6	5.34	
<b>350cm</b>	20.16	8.49	34.2	74.3	5.34	
<b>400cm</b>	19.43	8.49	34.2	66.3	4.79	
<b>450cm</b>	19.28	8.49	34.1	69.7	5.11	
<b>500cm</b>	18.98	8.50	34.1	70.0	5.13	
<b>550cm</b>	18.82	8.50	34.2	66.1	4.82	
<b>600cm</b>	18.82	8.47	34.2	60.6	4.40	
<b>Bottom</b>	18.88	8.42	34.5	51.3	3.69	

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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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<u>Name</u>	<u>Reading</u>	<u>Units</u>	<u>Licence Limit</u>	<u>Date</u>
Total Suspended Solids	4	mg/L	-	7/05/2020
Nitrite and Nitrate as N	2000	ug/L	-	7/05/2020
Phosphorus Reactive as P - Total	700	ug/L	-	7/05/2020
Phosphorus as P - Total	700	ug/L	-	7/05/2020

### Eraring Cooling Water Inlet Canal

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

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<u>Name</u>	<u>Reading</u>	<u>Units</u>	<u>Licence Limit</u>	<u>Date</u>
Temperature – Average	17.6	deg C	-	May2020
Temperature – Minimum	15.8	deg C	-	May2020
Temperature - Maximum	20.6	deg C	-	May2020

### Eraring Cooling Water Outlet Canal

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

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<u>Name</u>	<u>Reading</u>	<u>Units</u>	<u>Licence Limit</u>	<u>Date</u>
Temperature – Average	23.8	deg C	37.5	May2020
Temperature – Minimum	19.5	deg C	37.5	May2020
Temperature - Maximum	29.2	deg C	37.5	May2020
Maximum Daily Discharge from Ash	17.48	ML	150	May2020
Monthly Discharge from Ash Dam	140.1	ML	-	May2020

### Emergency Discharge – Toe Drain Pond

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

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<u>Name</u>	<u>Reading</u>	<u>Units</u>	<u>Licence Limit</u>	<u>Date</u>
Nitrite and Nitrate as N	37	ug/L	-	7/05/2020
Phosphorus as P – Total	14	ug/L	-	7/05/2020

## 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	