



Eraring Power Station - EPA Licence 1429

Rocky Point Rd, Dora Creek NSW 2264

Environmental Monitoring Data

October 2020



Unit 1A Boiler Continuous Emission Monitoring Summary

EPA Identification no.7 - Air emissions monitoring, Boiler 1 stack discharge to air
Unit 1A out of service 1-22 October 2020. SOx Unit out of service 26-29 October 2020

	NOX			Particulates			SOX		
	ppm (7% O ₂)			mg/m ³			ppm (7% O ₂)		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 October	-	-	-	-	-	-	-	-	-
2 October	-	-	-	-	-	-	-	-	-
3 October	-	-	-	-	-	-	-	-	-
4 October	-	-	-	-	-	-	-	-	-
5 October	-	-	-	-	-	-	-	-	-
6 October	-	-	-	-	-	-	-	-	-
7 October	-	-	-	-	-	-	-	-	-
8 October	-	-	-	-	-	-	-	-	-
9 October	-	-	-	-	-	-	-	-	-
10 October	-	-	-	-	-	-	-	-	-
11 October	-	-	-	-	-	-	-	-	-
12 October	-	-	-	-	-	-	-	-	-
13 October	-	-	-	-	-	-	-	-	-
14 October	-	-	-	-	-	-	-	-	-
15 October	-	-	-	-	-	-	-	-	-
16 October	-	-	-	-	-	-	-	-	-
17 October	-	-	-	-	-	-	-	-	-
18 October	-	-	-	-	-	-	-	-	-
19 October	-	-	-	-	-	-	-	-	-
20 October	-	-	-	-	-	-	-	-	-
21 October	-	-	-	-	-	-	-	-	-
22 October	-	-	-	-	-	-	-	-	-
23 October	131	154	113	33.3	67.4	25.3	160	173	147
24 October	138	156	124	22.9	30.6	17.1	213	255	171
25 October	136	177	111	18.0	23.3	12.8	213	229	194
26 October	152	184	124	21.0	156.8	6.4	-	-	-
27 October	132	178	117	12.4	16.7	8.5	-	-	-
28 October	124	152	110	12.0	19.1	6.7	-	-	-
29 October	127	145	112	15.3	29.8	4.3	-	-	-
30 October	134	147	121	8.4	11.7	2.8	197	205	184
31 October	147	169	129	10.9	15.0	7.6	189	203	165

Unit 1B Boiler Continuous Emission Monitoring Summary

EPA Identification no.8 - Air emissions monitoring, Boiler 1 stack discharge to air

Unit1B Out of Service 1-22 October 2020

	NOX			Particulates			SOX		
	ppm (7% O ₂)			mg/m ³			ppm (7% O ₂)		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 October	-	-	-	-	-	-	-	-	-
2 October	-	-	-	-	-	-	-	-	-
3 October	-	-	-	-	-	-	-	-	-
4 October	-	-	-	-	-	-	-	-	-
5 October	-	-	-	-	-	-	-	-	-
6 October	-	-	-	-	-	-	-	-	-
7 October	-	-	-	-	-	-	-	-	-
8 October	-	-	-	-	-	-	-	-	-
9 October	-	-	-	-	-	-	-	-	-
10 October	-	-	-	-	-	-	-	-	-
11 October	-	-	-	-	-	-	-	-	-
12 October	-	-	-	-	-	-	-	-	-
13 October	-	-	-	-	-	-	-	-	-
14 October	-	-	-	-	-	-	-	-	-
15 October	-	-	-	-	-	-	-	-	-
16 October	-	-	-	-	-	-	-	-	-
17 October	-	-	-	-	-	-	-	-	-
18 October	-	-	-	-	-	-	-	-	-
19 October	-	-	-	-	-	-	-	-	-
20 October	-	-	-	-	-	-	-	-	-
21 October	-	-	-	-	-	-	-	-	-
22 October	-	-	-	-	-	-	-	-	-
23 October	126	147	106	9.2	10.4	8.4	164	173	145
24 October	133	154	119	9.2	18.4	6.9	215	260	170
25 October	129	164	105	14.8	18.4	10.1	223	235	206
26 October	147	184	112	20.7	58.1	12.7	200	221	192
27 October	126	159	114	12.9	16.8	9.5	231	241	215
28 October	123	171	117	14.2	20.6	10.4	211	230	186
29 October	126	149	112	13.8	21.5	8.4	215	238	198
30 October	132	152	119	8.9	12.6	7.5	209	224	190
31 October	145	171	122	7.6	10.5	5.5	197	210	187

Unit 2A Boiler Continuous Emission Monitoring Summary

EPA Identification no. 9 - Air emissions monitoring, Boiler 2 stack discharge to air

Unit 2A Out of Service 12 October 2020

	NOX			Particulates			SOX		
	ppm (7% O ₂)			mg/m ³			ppm (7% O ₂)		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 October	150	180	120	24.6	30.2	23.8	171	182	154
2 October	135	197	105	23.1	26.8	20.5	174	180	166
3 October	134	173	114	23.4	27.6	21.1	174	180	168
4 October	143	192	113	22.7	25.2	20.1	169	172	167
5 October	145	178	129	22.8	25.2	20.0	170	172	167
6 October	153	191	117	21.6	23.1	21.1	169	176	162
7 October	138	169	114	22.6	24.1	20.3	173	183	168
8 October	157	182	139	22.3	23.4	20.3	175	188	165
9 October	155	171	147	24.8	26.4	22.4	180	188	163
10 October	154	160	146	25.9	26.4	25.4	212	228	181
11 October	141	145	134	27.5	27.5	27.5	203	209	196
12 October	-	-	-	-	-	-	-	-	-
13 October	137	162	109	18.7	22.7	16.6	194	202	179
14 October	150	168	134	19.1	21.8	17.6	217	254	187
15 October	140	162	123	18.4	20.7	16.6	230	249	208
16 October	151	171	131	18.3	19.7	16.6	251	264	242
17 October	156	182	133	18.8	20.5	17.4	244	265	232
18 October	155	187	124	19.8	23.6	17.4	213	239	201
19 October	164	187	148	20.0	25.7	17.2	191	222	183
20 October	159	187	135	19.8	21.3	18.2	224	239	205
21 October	161	184	123	19.1	21.2	18.1	215	230	201
22 October	153	182	124	18.1	22.4	15.2	205	220	187
23 October	154	169	131	15.8	19.6	14.2	201	221	185
24 October	153	166	134	15.1	17.4	13.2	220	240	191
25 October	133	157	103	17.5	19.9	14.7	222	233	209
26 October	152	173	137	16.9	31.5	13.8	204	225	184
27 October	162	179	107	16.1	19.1	15.0	218	229	203
28 October	153	175	104	17.4	20.1	16.0	196	225	179
29 October	160	176	135	16.7	19.4	15.3	199	213	170
30 October	152	183	133	16.3	20.7	14.4	210	222	187
31 October	142	164	121	16.3	18.7	14.6	189	199	172

Unit 2B Boiler Continuous Emission Monitoring Summary

EPA Identification no. 10 - Air emissions monitoring, Boiler 2 stack discharge to air

Unit 2B Out of Service 12 October 2020

	NOX			Particulates			SOX		
	ppm (7% O ₂)			mg/m ³			ppm (7% O ₂)		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 October	158	232	130	9.7	13.3	7.9	165	185	151
2 October	150	228	129	10.5	16.6	5.0	172	192	150
3 October	146	178	127	10.6	15.6	5.3	173	194	153
4 October	163	193	138	10.1	15.1	6.8	170	185	150
5 October	163	176	144	10.4	16.0	5.8	173	186	153
6 October	153	198	129	8.7	14.0	7.7	152	166	141
7 October	152	208	129	10.6	15.1	7.0	168	183	151
8 October	170	219	142	9.1	14.5	6.3	167	176	147
9 October	171	242	136	8.7	13.5	5.2	178	190	153
10 October	163	187	155	9.5	11.6	6.2	211	225	162
11 October	154	155	151	13.1	16.0	11.6	204	210	200
12 October	-	-	-	-	-	-	-	-	-
13 October	135	146	118	8.3	14.1	6.0	185	201	175
14 October	135	161	125	7.3	9.1	5.9	195	226	166
15 October	132	143	122	6.6	8.0	4.9	209	225	171
16 October	136	164	122	6.9	7.9	5.9	220	231	207
17 October	143	177	122	7.1	12.2	4.8	213	243	197
18 October	144	178	128	7.0	9.1	3.9	183	202	161
19 October	155	184	129	7.5	11.0	3.9	168	194	142
20 October	150	174	124	7.6	10.1	5.8	199	223	175
21 October	149	174	116	7.5	9.0	5.9	189	220	174
22 October	138	181	116	8.4	11.1	5.9	171	190	111
23 October	144	164	112	9.6	12.1	6.9	179	202	165
24 October	151	169	128	7.1	10.1	3.9	205	223	174
25 October	134	149	123	7.8	11.3	6.1	210	237	191
26 October	139	157	128	7.1	10.3	3.9	188	213	170
27 October	147	160	122	8.8	10.4	6.2	195	205	181
28 October	149	166	133	8.3	10.6	5.3	179	202	164
29 October	145	160	125	9.4	13.5	4.5	184	205	166
30 October	145	168	125	9.0	11.6	5.3	197	223	170
31 October	136	164	119	7.8	12.5	3.3	177	205	163

Unit 3A Boiler Continuous Emission Monitoring Summary

EPA Identification no. 11 - Air emissions monitoring, Boiler 3 stack discharge to air

	NOX			Particulates			SOX		
	ppm (7% O ₂)			mg/m ³			ppm (7% O ₂)		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 October	146	191	130	14.0	15.0	12.9	189	195	183
2 October	136	187	118	14.5	16.0	14.0	191	210	182
3 October	139	191	114	14.5	17.1	14.0	188	194	181
4 October	146	197	120	14.4	16.0	14.0	184	194	177
5 October	166	209	134	14.2	16.1	14.0	182	187	173
6 October	209	231	164	13.8	14.1	13.0	180	189	168
7 October	191	250	130	14.2	15.2	13.0	185	195	176
8 October	171	225	129	15.2	20.4	14.1	186	196	180
9 October	218	265	174	14.2	16.1	13.0	204	242	177
10 October	191	241	151	14.6	16.1	13.9	239	269	201
11 October	177	208	134	14.9	16.0	14.0	212	223	198
12 October	196	214	161	14.3	16.1	14.0	198	219	186
13 October	177	218	139	15.0	17.0	14.0	206	229	183
14 October	165	204	110	14.1	15.0	14.0	228	265	196
15 October	156	188	129	14.9	17.0	13.5	251	275	227
16 October	166	191	119	13.9	14.5	13.5	262	278	249
17 October	162	208	135	14.6	15.5	13.5	260	279	243
18 October	165	209	133	13.9	15.6	13.4	229	258	215
19 October	178	219	156	14.4	15.6	13.5	205	238	190
20 October	184	236	131	15.5	16.7	14.7	224	247	201
21 October	193	228	145	16.5	19.8	14.7	228	258	205
22 October	199	234	157	17.0	17.7	15.7	195	223	174
23 October	199	230	167	20.1	22.9	16.5	196	206	182
24 October	194	250	133	21.9	26.8	17.6	207	231	178
25 October	189	250	138	22.2	29.0	18.2	221	230	214
26 October	184	224	146	23.2	27.0	18.6	197	216	183
27 October	206	230	169	23.1	27.5	20.8	210	232	191
28 October	198	241	137	18.7	34.2	13.8	194	219	175
29 October	192	221	143	20.5	40.0	13.2	202	215	184
30 October	164	222	115	14.5	18.3	13.2	201	215	181
31 October	149	174	120	14.2	15.2	13.2	183	190	173

Unit 3B Boiler Continuous Emission Monitoring Summary

EPA Identification no. 12 - Air emissions monitoring, Boiler 3 stack discharge to air

SOx Unit Out of Service 30-31 October 2020

	NOX			Particulates			SOX		
	ppm (7% O ₂)			mg/m ³			ppm (7% O ₂)		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 October	135	163	116	18.7	32.4	2.1	160	177	151
2 October	122	166	106	12.9	19.7	6.3	161	180	148
3 October	125	171	102	14.2	29.8	3.4	157	173	149
4 October	137	191	109	18.6	40.4	4.6	159	175	148
5 October	156	202	128	19.7	35.6	2.7	156	163	149
6 October	190	219	152	8.9	15.3	2.9	155	165	146
7 October	178	229	127	7.4	12.4	2.0	158	167	152
8 October	162	216	122	12.1	23.8	2.5	159	163	153
9 October	198	246	152	7.0	15.4	3.0	172	201	152
10 October	171	202	144	8.7	19.5	2.0	199	221	170
11 October	163	191	105	9.2	20.0	2.0	176	182	168
12 October	175	190	160	2.5	3.3	2.3	167	189	155
13 October	150	183	119	10.0	23.2	2.6	171	187	152
14 October	150	173	100	7.7	14.8	3.2	194	227	162
15 October	139	172	117	11.0	22.5	2.1	211	239	190
16 October	154	173	110	6.7	13.1	2.6	223	239	209
17 October	141	180	127	10.8	25.5	2.7	216	224	202
18 October	144	181	119	16.3	25.4	4.8	192	221	176
19 October	154	198	128	8.8	19.2	3.3	172	205	158
20 October	155	200	118	10.4	17.4	3.7	188	204	170
21 October	172	204	121	8.3	17.4	2.0	194	217	179
22 October	168	213	102	7.5	19.7	2.0	161	194	109
23 October	176	202	140	6.3	13.1	2.8	166	180	152
24 October	165	199	117	11.6	21.0	3.8	172	192	144
25 October	149	194	116	15.6	24.0	8.6	169	184	140
26 October	158	193	103	20.1	37.8	12.8	155	175	135
27 October	176	223	120	10.4	15.9	7.9	166	187	149
28 October	163	197	114	10.9	20.3	5.8	149	170	138
29 October	161	194	122	10.2	24.6	4.8	164	173	126
30 October	135	165	107	11.0	18.1	5.7	-	-	-
31 October	136	157	110	12.6	26.2	5.5	-	-	-

Unit 4A Boiler Continuous Emission Monitoring Summary

EPA Identification no. 13 - Air emissions monitoring, Boiler 4 stack discharge to air

Unit 4A Out of Service 24-31 October 2020

	NOX			Particulates			SOX		
	ppm (7% O ₂)			mg/m ³			ppm (7% O ₂)		
	Daily	Max	Min	Daily	Max	Min	Daily	Max	Min
1 October	168	192	137	10.0	12.6	6.4	180	193	171
2 October	141	159	122	10.5	13.6	5.3	181	194	172
3 October	138	167	125	10.7	14.0	6.6	177	183	170
4 October	153	194	139	10.6	13.7	5.6	171	177	167
5 October	170	228	147	9.6	11.8	7.6	171	174	168
6 October	185	209	163	7.6	9.7	6.6	168	173	165
7 October	168	191	152	7.7	10.7	6.6	173	185	166
8 October	150	177	115	8.8	12.9	7.8	180	190	169
9 October	157	167	139	7.5	8.9	6.8	203	228	184
10 October	173	194	150	9.1	13.1	6.9	228	260	182
11 October	182	204	161	10.1	13.2	8.1	204	231	176
12 October	186	212	138	9.9	16.1	8.0	199	232	177
13 October	174	190	164	12.8	15.2	11.1	198	223	181
14 October	182	213	148	11.0	14.2	7.3	219	234	199
15 October	179	213	156	9.6	12.3	7.3	232	258	213
16 October	194	220	162	9.0	13.3	7.2	250	268	238
17 October	174	219	153	11.7	14.3	8.0	258	288	236
18 October	203	249	180	9.5	12.1	7.0	221	255	199
19 October	227	257	184	9.5	12.2	7.1	200	268	182
20 October	196	231	169	10.3	15.6	8.2	228	262	200
21 October	189	209	174	10.8	13.9	9.7	218	258	186
22 October	178	196	159	10.5	12.7	8.6	189	212	169
23 October	168	185	152	11.3	14.1	9.5	192	212	182
24 October	-	-	-	-	-	-	-	-	-
25 October	-	-	-	-	-	-	-	-	-
26 October	-	-	-	-	-	-	-	-	-
27 October	-	-	-	-	-	-	-	-	-
28 October	-	-	-	-	-	-	-	-	-
29 October	-	-	-	-	-	-	-	-	-
30 October	-	-	-	-	-	-	-	-	-
31 October	-	-	-	-	-	-	-	-	-

Unit 4B Boiler Continuous Emission Monitoring Summary

*EPA Identification no. 14 - Air emissions monitoring, Boiler 4 stack discharge to air
NOx and SOx Unit Out of Service 23 October 2020
Unit 4B Out of Service 24-31 October 2020*

	NOX			Particulates			SOX		
	ppm (7% O ₂)			mg/m ³			ppm (7% O ₂)		
	Daily	Max	Min	Daily	Max	Min	Daily	Max	Min
1 October	168	260	127	9.3	10.4	8.3	161	174	118
2 October	137	179	123	9.8	10.4	8.4	168	182	159
3 October	132	166	119	9.6	10.8	8.4	167	173	161
4 October	148	203	124	9.8	10.4	8.4	160	164	156
5 October	162	237	131	9.5	10.4	7.4	161	167	157
6 October	195	218	161	8.4	8.6	7.6	156	161	151
7 October	169	202	141	8.5	9.6	7.6	158	166	153
8 October	155	186	133	8.7	9.6	6.6	165	177	155
9 October	157	175	147	8.5	9.6	7.6	188	208	170
10 October	170	197	144	9.5	10.7	8.5	211	238	168
11 October	179	205	153	9.8	11.5	8.3	188	209	161
12 October	185	219	101	9.3	11.3	8.2	181	212	153
13 October	169	185	155	11.2	13.4	10.3	185	210	162
14 October	194	238	159	10.7	12.5	9.4	201	217	179
15 October	184	220	148	9.4	10.2	7.2	213	236	196
16 October	198	236	160	9.8	11.3	8.2	226	240	217
17 October	191	249	167	11.2	12.4	9.3	236	264	216
18 October	209	276	174	10.0	11.4	9.4	201	231	184
19 October	231	279	196	10.6	11.4	10.4	180	241	156
20 October	192	245	152	9.7	12.5	9.0	204	236	182
21 October	186	203	159	9.6	10.1	9.0	200	231	171
22 October	159	176	144	9.1	10.2	7.0	164	171	158
23 October	-	-	-	9.5	13.2	3.0	-	-	-
24 October	-	-	-	-	-	-	-	-	-
25 October	-	-	-	-	-	-	-	-	-
26 October	-	-	-	-	-	-	-	-	-
27 October	-	-	-	-	-	-	-	-	-
28 October	-	-	-	-	-	-	-	-	-
29 October	-	-	-	-	-	-	-	-	-
30 October	-	-	-	-	-	-	-	-	-
31 October	-	-	-	-	-	-	-	-	-

Unit 1 Boiler Emission Test Results

EPA Identification no. 3 - 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 ³	0.2	12/08/2020
Mercury	<0.0002	mg/m ³	0.05	12/08/2020
Solid Particles	<1	mg/m ³	50	12/08/2020
Type 1 and 2 substances in Aggregate	<0.01	mg/m ³	0.75	12/08/2020

EPA Identification no. 7 - Air emissions monitoring, Boiler 1 Exhaust Duct A

<u>Name</u>	<u>Reading</u>	<u>Units</u>	<u>Date</u>
Cadmium	<0.0002	mg/m ³	12/08/2020
Flow Rate	332	m ³ /sec	12/08/2020
Mercury	<0.0002	mg/m ³	12/08/2020
Moisture	5.1	%	12/08/2020
Oxygen	6.2	%	12/08/2020
Solid Particles	1.7	mg/m ³	12/08/2020
Temperature	118	degC	12/08/2020
Type 1 and Type 2 substances in Aggregate	<0.0093	mg/m ³	12/08/2020

EPA Identification no. 8 - Air emissions monitoring, Boiler 1 Exhaust Duct B

<u>Name</u>	<u>Reading</u>	<u>Units</u>	<u>Date</u>
Cadmium	<0.0002	mg/m ³	12/08/2020
Flow Rate	392	m ³ /sec	12/08/2020
Mercury	<0.0002	mg/m ³	12/08/2020
Moisture	5.5	%	12/08/2020
Oxygen	8.1	%	12/08/2020
Solid Particles	<0.6	mg/m ³	12/08/2020
Temperature	117	degC	12/08/2020
Type 1 and Type 2 substances in Aggregate	<0.012	mg/m ³	12/08/2020

Unit 2 Boiler Emission Test Results

EPA Identification no. 4 - Air emissions monitoring, Boiler 2 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 ³	0.2	12/08/2020
Mercury	<0.0002	mg/m ³	0.05	12/08/2020
Solid Particles	<3	mg/m ³	50	12/08/2020
Type 1 and 2 substances in Aggregate	<0.009	mg/m ³	0.75	12/08/2020

EPA Identification no. 9 - Air emissions monitoring, Boiler 2 Exhaust Duct A

<u>Name</u>	<u>Reading</u>	<u>Units</u>	<u>Date</u>
Cadmium	<0.0003	mg/m ³	12/08/2020
Flow Rate	348	m ³ /sec	12/08/2020
Mercury	<0.0002	mg/m ³	12/08/2020
Moisture	6.4	%	12/08/2020
Oxygen	8.0	%	12/08/2020
Solid Particles	4.8	mg/m ³	12/08/2020
Temperature	126	degC	12/08/2020
Type 1 and Type 2 substances in Aggregate	<0.0091	mg/m ³	12/08/2020

EPA Identification no. 10 - Air emissions monitoring, Boiler 2 Exhaust Duct B

<u>Name</u>	<u>Reading</u>	<u>Units</u>	<u>Date</u>
Cadmium	<0.0002	mg/m ³	12/08/2020
Flow Rate	362	m ³ /sec	12/08/2020
Mercury	<0.0002	mg/m ³	12/08/2020
Moisture	5.7	%	12/08/2020
Oxygen	7.1	%	12/08/2020
Solid Particles	<0.6	mg/m ³	12/08/2020
Temperature	114	degC	12/08/2020
Type 1 and Type 2 substances in Aggregate	<0.0082	mg/m ³	12/08/2020

Unit 3 Boiler Emission Test Results

EPA Identification no. 5 - Air emissions monitoring, Boiler 3 stack discharge to air

<u>Name</u>	<u>Reading</u>	<u>Units</u>	<u>Licence Limit</u>	<u>Date</u>
Cadmium	<0.0001	mg/m ³	0.2	13/08/2020
Mercury	<0.0001	mg/m ³	0.05	13/08/2020
Solid Particles	1.1	mg/m ³	50	13/08/2020
Type 1 and 2 substances in Aggregate	<0.03	mg/m ³	0.75	13/08/2020

EPA Identification no. 11 - Air emissions monitoring, Boiler 3 Exhaust Duct A

<u>Name</u>	<u>Reading</u>	<u>Units</u>	<u>Date</u>
Cadmium	<0.0002	mg/m ³	13/08/2020
Flow Rate	347	m ³ /sec	13/08/2020
Mercury	<0.0002	mg/m ³	13/08/2020
Moisture	5.1	%	13/08/2020
Oxygen	6.2	%	13/08/2020
Solid Particles	1.7	mg/m ³	13/08/2020
Temperature	119	degC	13/08/2020
Type 1 and Type 2 substances in Aggregate	<0.014	mg/m ³	13/08/2020

EPA Identification no. 12 - Air emissions monitoring, Boiler 3 Exhaust Duct B

<u>Name</u>	<u>Reading</u>	<u>Units</u>	<u>Date</u>
Cadmium	<0.0001	mg/m ³	13/08/2020
Flow Rate	389	m ³ /sec	13/08/2020
Mercury	<0.0001	mg/m ³	13/08/2020
Moisture	5.4	%	13/08/2020
Oxygen	6.7	%	13/08/2020
Solid Particles	0.61	mg/m ³	13/08/2020
Temperature	114	degC	13/08/2020
Type 1 and Type 2 substances in Aggregate	<0.044	mg/m ³	13/08/2020

Unit 4 Boiler Emission Test Results

EPA Identification no. 6 - 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 ³	0.2	8/09/2020
Mercury	<0.0003	mg/m ³	0.05	8/09/2020
Solid Particles	1.5	mg/m ³	50	8/09/2020
Type 1 and 2 substances in Aggregate	<0.01	mg/m ³	0.75	8/09/2020

EPA Identification no. 13 - Air emissions monitoring, Boiler 4 Exhaust Duct A

<u>Name</u>	<u>Reading</u>	<u>Units</u>	<u>Date</u>
Cadmium	<0.0002	mg/m ³	8/09/2020
Flow Rate	343	m ³ /sec	8/09/2020
Mercury	0.00036	mg/m ³	8/09/2020
Moisture	5.1	%	8/09/2020
Oxygen	7.8	%	8/09/2020
Solid Particles	1.5	mg/m ³	8/09/2020
Temperature	124	degC	8/09/2020
Type 1 and Type 2 substances in Aggregate	<0.014	mg/m ³	8/09/2020

EPA Identification no. 14 - Air emissions monitoring, Boiler 4 Exhaust Duct B

<u>Name</u>	<u>Reading</u>	<u>Units</u>	<u>Date</u>
Cadmium	<0.0002	mg/m ³	8/09/2020
Flow Rate	306	m ³ /sec	8/09/2020
Mercury	<0.0002	mg/m ³	8/09/2020
Moisture	5.3	%	8/09/2020
Oxygen	9.2	%	8/09/2020
Solid Particles	1.4	mg/m ³	8/09/2020
Temperature	109	degC	8/09/2020
Type 1 and Type 2 substances in Aggregate	<0.011	mg/m ³	8/09/2020

Eraring Depositional Dust Gauges

EPA Identification no. 17, 18, 19 & 20- Depositional dust monitoring within 1km of the coal handling operations

Eraring Identification	EPA Identification No	Deposited Matter		
		g/m ² /month		
		Ash	Combustible	Insoluble
E2	17	0.5	0.3	0.8
E4	18	0.9	0.3	1.2
E6	19*	2.2	3.0	5.2
U6	20	0.8	0.3	1.1

**Sample EPA Identification Number 19 appears to have been contaminated, due to hazard reduction burn carried out on Eraring property within the vicinity of the dust gauge*

Water Quality - Lake Monitoring LM10

EPA Identification no. 27 - The waters of Lake Macquarie located midway between cooling water inlet and Hungary Point

Air Temp	Depth	Water Temp	pH	Salinity	Dissolved Oxygen		Secchi
°C	m	degC	pH unit	ppt	%	mg/L	m
19.50	0.50	19.40	7.94	34.0	69.1	4.97	1.75

<u>Name</u>	<u>Reading</u>	<u>Units</u>	<u>Date</u>
Aluminium	0.047	mg/L	1/10/2020
Ammonia	<0.010	mg/L	1/10/2020
Arsenic III	<0.0050	mg/L	1/10/2020
Arsenic V	<0.0050	mg/L	1/10/2020
Cadmium	<0.0002	mg/L	1/10/2020
Chromium (Trivalent)	<0.001	mg/L	1/10/2020
Chromium (VI) Compounds	<0.01	mg/L	1/10/2020
Copper	0.001	mg/L	1/10/2020
Iron	0.104	mg/L	1/10/2020
Lead	<0.0002	mg/L	1/10/2020
Manganese	0.0050	mg/L	1/10/2020
Nickel	<0.0005	mg/L	1/10/2020
pH	8.08	pH /units	1/10/2020
Selenium	0.001	mg/L	1/10/2020
Total Suspended Solids	20	mg/L	1/10/2020
Vanadium	0.0010	mg/L	1/10/2020
Zinc	<0.005	mg/L	1/10/2020

Water Quality - Lake Monitoring LM12

EPA Identification no. 29 - The waters of Lake Macquarie located at the Eraring/Vales Point mixing zone off Fishery Point

Air Temp	Depth	Water Temp	pH	Salinity	Dissolved Oxygen		Secchi
°C	m	degC	pH unit	ppt	%	mg/L	m
20.40	0.50	19.36	8.04	33.4	73.3	5.36	1.75

Name	Reading	Units	Date
Aluminium	0.032	mg/L	1/10/2020
Ammonia	<0.010	mg/L	1/10/2020
Arsenic III	<0.0050	mg/L	1/10/2020
Arsenic V	<0.0050	mg/L	1/10/2020
Cadmium	<0.0002	mg/L	1/10/2020
Chromium (Trivalent)	<0.001	mg/L	1/10/2020
Chromium (VI) Compounds	<0.01	mg/L	1/10/2020
Copper	0.001	mg/L	1/10/2020
Iron	0.041	mg/L	1/10/2020
Lead	<0.0002	mg/L	1/10/2020
Manganese	0.0049	mg/L	1/10/2020
Nickel	<0.0005	mg/L	1/10/2020
pH	8.09	pH /units	1/10/2020
Selenium	0.001	mg/L	1/10/2020
Total Suspended Solids	11	mg/L	1/10/2020
Vanadium	0.0016	mg/L	1/10/2020
Zinc	<0.005	mg/L	1/10/2020

Water Quality - Lake Monitoring LM4

EPA Identification no. 30 - The northern waters of Lake Macquarie east off Lake Macquarie Yacht Club

Air Temp	Depth	Water Temp	pH	Salinity	Dissolved Oxygen		Secchi
°C	m	degC	pH unit	ppt	%	mg/L	m
17.38	0.50	17.44	8.33	34.5	72.5	5.47	2.75

Name	Reading	Units	Date
Aluminium	0.018	mg/L	1/10/2020
Ammonia	<0.010	mg/L	1/10/2020
Arsenic III	<0.0050	mg/L	1/10/2020
Arsenic V	<0.0050	mg/L	1/10/2020
Cadmium	<0.0002	mg/L	1/10/2020
Chromium (Trivalent)	<0.001	mg/L	1/10/2020
Chromium (VI) Compounds	<0.01	mg/L	1/10/2020
Copper	<0.001	mg/L	1/10/2020
Iron	0.020	mg/L	1/10/2020
Lead	0.0002	mg/L	1/10/2020
Manganese	0.0027	mg/L	1/10/2020
Nickel	<0.0005	mg/L	1/10/2020
pH	8.09	pH /units	1/10/2020
Selenium	<0.001	mg/L	1/10/2020
Total Suspended Solids	<5	mg/L	1/10/2020
Vanadium	0.0012	mg/L	1/10/2020
Zinc	0.006	mg/L	1/10/2020

Water Quality - Lake Monitoring LM7

EPA Identification no. 28 - The waters of Lake Macquarie located off old Wangi power station inlet point in Myuna Bay

Air Temp	Depth	Water Temp	pH	Salinity	Dissolved Oxygen		Secchi
°C	m	degC	pH unit	ppt	%	mg/L	m
17.42	0.50	19.94	7.99	33.9	104.8	7.26	1.75

Name	Reading	Units	Date
Aluminium	0.061	mg/L	1/10/2020
Ammonia	<0.010	mg/L	1/10/2020
Arsenic III	<0.0050	mg/L	1/10/2020
Arsenic V	<0.0050	mg/L	1/10/2020
Cadmium	<0.0002	mg/L	1/10/2020
Chromium (Trivalent)	<0.001	mg/L	1/10/2020
Chromium (VI) Compounds	<0.01	mg/L	1/10/2020
Copper	<0.001	mg/L	1/10/2020
Iron	0.106	mg/L	1/10/2020
Lead	<0.0002	mg/L	1/10/2020
Manganese	0.0049	mg/L	1/10/2020
Nickel	<0.0005	mg/L	1/10/2020
pH	8.07	pH /units	1/10/2020
Selenium	0.001	mg/L	1/10/2020
Total Suspended Solids	15	mg/L	1/10/2020
Vanadium	0.0021	mg/L	1/10/2020
Zinc	<0.005	mg/L	1/10/2020

Eraring Ash Dam Effluent Quality Monitoring

EPA Identification no. 22 - Discharge point below siphon pond weir at Ash Dam

<u>Name</u>	<u>Reading</u>	<u>Units</u>	<u>Licence Limit</u>	<u>Date</u>
Aluminium	0.096	mg/L	-	1/10/2020
Ammonia	0.55	mg/L	-	1/10/2020
Arsenic III	0.0009	mg/L	-	1/10/2020
Arsenic V	0.0040	mg/L	-	1/10/2020
Cadmium	0.00037	mg/L	-	1/10/2020
Chromium (Trivalent)	<0.001	mg/L	-	1/10/2020
Chromium (VI) Compounds	<0.01	mg/L	-	1/10/2020
Copper	0.0048	mg/L	-	1/10/2020
Iron	0.027	mg/L	-	1/10/2020
Lead	<0.0001	mg/L	-	1/10/2020
Manganese	0.0421	mg/L	-	1/10/2020
Nickel	0.0024	mg/L	-	1/10/2020
Nitrite and Nitrate as N	3.54	mg/L	-	1/10/2020
Nitrogen	4.2	mg/L	-	1/10/2020
pH	8.54	pH /units	-	1/10/2020
Phosphorus as P	0.87	mg/L	-	1/10/2020
Reactive Phosphorus as P	0.52	mg/L	-	1/10/2020
Selenium	0.0395	mg/L	-	1/10/2020
Total Kjeldahl Nitrogen	0.7	mg/L	-	1/10/2020
Total Suspended Solids	11	mg/L	-	1/10/2020
Vanadium	0.0371	mg/L	-	1/10/2020
Zinc	0.002	mg/L	-	1/10/2020

Eraring Cooling Water Inlet Canal

*EPA Identification no. 31 - Inlet canal of the cooling water intake from
Lake Macquarie*

<u>Name</u>	<u>Reading</u>	<u>Units</u>	<u>Licence Limit</u>	<u>Date</u>
Aluminium	0.131	mg/L	-	1/10/2020
Ammonia	<0.005	mg/L	-	1/10/2020
Arsenic III	<0.005	mg/L	-	1/10/2020
Arsenic V	<0.005	mg/L	-	1/10/2020
Cadmium	<0.0002	mg/L	-	1/10/2020
Chromium (Trivalent)	<0.001	mg/L	-	1/10/2020
Chromium (VI) Compounds	<0.01	mg/L	-	1/10/2020
Copper	0.0013	mg/L	-	1/10/2020
Iron	0.168	mg/L	-	1/10/2020
Lead	<0.0002	mg/L	-	1/10/2020
Manganese	0.0049	mg/L	-	1/10/2020
Nickel	0.0006	mg/L	-	1/10/2020
pH	8.06	pH units	-	1/10/2020
Selenium	0.001	mg/L	-	1/10/2020
Total suspended Solids	8	mg/L	-	1/10/2020
Vanadium	0.0021	mg/L	-	1/10/2020
Zinc	0.009	mg/L	-	1/10/2020
Dissolved Oxygen	9.26	mg/L	-	1/10/2020
Field Temperature	20.1	degC	-	1/10/2020
Salinity	33.5	ppt	-	1/10/2020
Secchi Disk	1.75	m	-	1/10/2020
Temperature – Average	21.9	deg C	-	October 2020
Temperature – Minimum	19.2	deg C	-	October 2020
Temperature - Maximum	24.6	deg C	-	October 2020

Eraring Cooling Water Outlet Canal

EPA Identification no. 21 - Cooling water outlet canal to Myuna Bay

<u>Name</u>	<u>Reading</u>	<u>Units</u>	<u>Licence Limit</u>	<u>Date</u>
Copper	0.0016	mg/L	0.005	1/10/2020
Iron	0.217	mg/L	0.3	1/10/2020
Selenium	<0.001	mg/L	0.002	1/10/2020
Temperature – Average	27.8	deg C	37.5	October 2020
Temperature – Minimum	22.8	deg C	37.5	October 2020
Temperature - Maximum	31.8	deg C	37.5	October 2020
Maximum Daily Discharge from Ash Dam	31.99	ML	150	October 2020
Monthly Discharge from Ash Dam	180.6	ML	-	October 2020

Emergency Discharge – Toe Drain Pond

EPA Identification no. 24 - Emergency discharge to toe drain collection pond

<u>Name</u>	<u>Reading</u>	<u>Units</u>	<u>Licence Limit</u>	<u>Date</u>
Aluminium	0.145	mg/L	-	1/10/2020
Ammonia	1.20	mg/L	-	1/10/2020
Arsenic III	<0.0005	mg/L	-	1/10/2020
Arsenic V	<0.0005	mg/L	-	1/10/2020
Cadmium	0.00013	mg/L	-	1/10/2020
Chromium (Trivalent)	<0.001	mg/L	-	1/10/2020
Chromium (VI) Compounds	<0.01	mg/L	-	1/10/2020
Copper	0.0018	mg/L	-	1/10/2020
Iron	6.20	mg/L	-	1/10/2020
Lead	<0.0001	mg/L	-	1/10/2020
Manganese	0.955	mg/L	-	1/10/2020
Nickel	0.0044	mg/L	-	1/10/2020
Nitrite and Nitrate as N	0.171	mg/L	-	1/10/2020
Nitrogen	1.38	mg/L	-	1/10/2020
pH	7.23	pH /units	6-9.5	1/10/2020
Phosphorus as P	0.084	mg/L	-	1/10/2020
Reactive Phosphorus as P	0.006	mg/L	-	1/10/2020
Selenium	0.0014	mg/L	-	1/10/2020
Total Kjeldahl Nitrogen	1.21	mg/L	-	1/10/2020
Total Suspended Solids	21	mg/L	50	1/10/2020
Vanadium	0.0008	mg/L	-	1/10/2020
Zinc	0.027	mg/L	-	1/10/2020

MR217

EPA Identification no. 23 - Emergency discharge from ash dam outlet at culvert

Not Discharging October 2020

<u>Name</u>	<u>Reading</u>	<u>Units</u>	<u>Licence Limit</u>	<u>Date</u>
Aluminium		mg/L	-	
Ammonia		mg/L	-	
Arsenic III		mg/L	-	
Arsenic V		mg/L	-	
Cadmium		mg/L	-	
Chromium (Trivalent)		mg/L	-	
Chromium (VI) Compounds		mg/L	-	
Copper		mg/L	-	
Iron		mg/L	-	
Lead		mg/L	-	
Manganese		mg/L	-	
Nickel		mg/L	-	
Nitrite and Nitrate as N		mg/L	-	
Nitrogen		mg/L	-	
pH		pH /units	6-9.5	
Phosphorus as P		mg/L	-	
Reactive Phosphorus as P		mg/L	-	
Selenium		mg/L	-	
Total Kjeldahl Nitrogen		mg/L	-	
Total Suspended Solids		mg/L	50	
Vanadium		mg/L	-	
Zinc		mg/L	-	

Groundwater Monitoring Groundwater Well – MW01

EPA Identification no. 32 – Groundwater Monitoring Well 01

Name	Reading	Units	Date
Aluminium	0.497	mg/L	8/09/2020
Ammonia	0.02	mg/L	8/09/2020
Arsenic (III)	<0.0005	mg/L	8/09/2020
Arsenic (V)	<0.0005	mg/L	8/09/2020
Cadmium	<0.00005	mg/L	8/09/2020
Calcium	2	mg/L	8/09/2020
Chromium (trivalent)	<0.05	mg/L	8/09/2020
Chromium (VI) compounds	<0.05	mg/L	8/09/2020
Copper	0.0011	mg/L	8/09/2020
Electrical Conductivity	417	uS/cm	8/09/2020
Iron	0.530	mg/L	8/09/2020
Lead	0.0013	mg/L	8/09/2020
Magnesium	4	mg/L	8/09/2020
Manganese	0.112	mg/L	8/09/2020
Nickel	0.004	mg/L	8/09/2020
pH	5.13	pH	8/09/2020
Potassium	4	mg/L	8/09/2020
Selenium	<0.0002	mg/L	8/09/2020
Sodium	64	mg/L	8/09/2020
Standing Water Level	7.61	metres	8/09/2020
Vanadium	0.0009	mg/L	8/09/2020
Zinc	0.034	mg/L	8/09/2020

Groundwater Well – MW02

EPA Identification no. 33 – Groundwater Monitoring Well 02

Name	Reading	Units	Date
Aluminium	1.26	mg/L	7/09/2020
Ammonia	4.57	mg/L	7/09/2020
Arsenic (III)	0.0016	mg/L	7/09/2020
Arsenic (V)	0.0007	mg/L	7/09/2020
Cadmium	<0.0002	mg/L	7/09/2020
Calcium	236	mg/L	7/09/2020
Chromium (trivalent)	<0.01	mg/L	7/09/2020
Chromium (VI) compounds	<0.01	mg/L	7/09/2020
Copper	0.002	mg/L	7/09/2020
Electrical Conductivity	13700	uS/cm	7/09/2020
Iron	17.6	mg/L	7/09/2020
Lead	0.0039	mg/L	7/09/2020
Magnesium	316	mg/L	7/09/2020
Manganese	1.05	mg/L	7/09/2020
Nickel	0.0024	mg/L	7/09/2020
pH	6.49	pH	7/09/2020
Potassium	179	mg/L	7/09/2020
Selenium	<0.002	mg/L	7/09/2020
Sodium	3540	mg/L	7/09/2020
Standing Water Level	4.172	metres	7/09/2020
Vanadium	0.0058	mg/L	7/09/2020
Zinc	0.049	mg/L	7/09/2020

Groundwater Well – MW06

EPA Identification no. 34 – Groundwater Monitoring Well 06

Name	Reading	Units	Date
Aluminium	0.008	mg/L	8/09/2020
Ammonia	3.25	mg/L	8/09/2020
Arsenic (III)	0.0011	mg/L	8/09/2020
Arsenic (V)	0.0010	mg/L	8/09/2020
Cadmium	<0.0002	mg/L	8/09/2020
Calcium	468	mg/L	8/09/2020
Chromium (trivalent)	<0.01	mg/L	8/09/2020
Chromium (VI) compounds	<0.01	mg/L	8/09/2020
Copper	<0.001	mg/L	8/09/2020
Electrical Conductivity	19600	uS/cm	8/09/2020
Iron	17.3	mg/L	8/09/2020
Lead	<0.0002	mg/L	8/09/2020
Magnesium	269	mg/L	8/09/2020
Manganese	0.423	mg/L	8/09/2020
Nickel	0.0008	mg/L	8/09/2020
pH	6.50	pH	8/09/2020
Potassium	119	mg/L	8/09/2020
Selenium	<0.002	mg/L	8/09/2020
Sodium	3600	mg/L	8/09/2020
Standing Water Level	1.848	metres	8/09/2020
Vanadium	0.0007	mg/L	8/09/2020
Zinc	<0.005	mg/L	8/09/2020

Groundwater Well – EGM/D26

EPA Identification no. 35 – Groundwater Monitoring Well D26

Groundwater well was dry during sampling in October 2020

Name	Reading	Units	Date
Aluminium		mg/L	8/09/2020
Ammonia		mg/L	8/09/2020
Arsenic (III)		mg/L	8/09/2020
Arsenic (V)		mg/L	8/09/2020
Cadmium		mg/L	8/09/2020
Calcium		mg/L	8/09/2020
Chromium (trivalent)		mg/L	8/09/2020
Chromium (VI) compounds		mg/L	8/09/2020
Copper		mg/L	8/09/2020
Electrical Conductivity		uS/cm	8/09/2020
Iron		mg/L	8/09/2020
Lead		mg/L	8/09/2020
Magnesium		mg/L	8/09/2020
Manganese		mg/L	8/09/2020
Nickel		mg/L	8/09/2020
pH		pH	8/09/2020
Potassium		mg/L	8/09/2020
Selenium		mg/L	8/09/2020
Sodium		mg/L	8/09/2020
Standing Water Level		metres	8/09/2020
Vanadium		mg/L	8/09/2020
Zinc		mg/L	8/09/2020