



Eraring Power Station - EPA Licence 1429

Rocky Point Rd, Dora Creek NSW 2264

Environmental Monitoring Data

August 2020



Unit 1 Boiler Continuous Emission Monitoring Summary

EPA Identification no.3 - Air emissions monitoring, Boiler 1 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 August	132	169	114	9.1	15.1	4.7	219	253	197
2 August	139	173	119	10.3	17.6	4.6	223	241	208
3 August	143	175	112	10.7	22.7	4.8	216	260	193
4 August	136	177	101	8.9	15.2	4.2	192	208	166
5 August	130	164	101	8.4	13.3	4.8	197	223	185
6 August	142	171	119	6.5	10.5	4.8	192	204	182
7 August	142	166	115	10.6	16.6	6.1	202	209	189
8 August	136	160	122	10.3	19.0	4.7	205	214	190
9 August	136	164	113	9.1	12.9	5.6	241	304	202
10 August	141	174	111	19.5	69.6	5.8	231	282	211
11 August	138	170	108	8.9	15.6	4.1	227	285	202
12 August	145	164	109	10.5	20.3	6.3	207	233	187
13 August	145	173	116	11.5	22.0	3.8	219	237	199
14 August	158	170	107	11.2	16.1	5.7	222	232	207
15 August	127	152	109	12.4	23.7	5.8	202	223	192
16 August	122	148	106	11.9	16.5	7.2	247	281	196
17 August	132	155	116	10.4	16.2	4.9	229	259	212
18 August	136	191	102	11.6	17.3	5.9	199	223	165
19 August	143	189	114	10.0	20.2	4.4	220	292	175
20 August	144	185	118	11.8	17.0	5.4	224	239	200
21 August	139	160	112	9.8	16.9	4.8	219	236	210
22 August	140	166	121	8.3	13.1	4.8	244	273	218
23 August	140	175	115	9.0	14.8	4.9	227	251	203
24 August	135	188	115	9.3	16.4	4.1	228	245	170
25 August	148	179	122	8.2	13.6	4.3	218	223	211
26 August	157	188	129	8.9	14.2	5.4	220	231	186
27 August	143	179	107	10.0	18.7	4.3	229	238	216
28 August	146	181	118	9.0	14.8	4.8	239	254	226
29 August	133	179	112	11.6	18.1	5.1	238	247	228
30 August	130	146	113	13.9	22.3	3.9	242	254	232
31 August	136	188	116	9.3	14.2	5.4	239	260	184

Unit 2 Boiler Continuous Emission Monitoring Summary

EPA Identification no. 4 - Air emissions monitoring, Boiler 2 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 August	163	185	142	18.1	22.1	14.9	226	251	207
2 August	159	196	130	18.0	22.0	15.1	220	240	208
3 August	171	206	141	18.3	22.9	14.6	223	258	192
4 August	161	193	143	17.4	21.3	14.5	188	209	164
5 August	164	189	138	18.5	22.5	15.2	196	215	175
6 August	162	188	139	19.1	27.0	15.9	192	212	174
7 August	168	189	120	18.8	22.4	16.1	188	206	173
8 August	159	183	142	17.5	22.6	15.6	192	201	178
9 August	156	183	124	18.4	22.4	15.5	238	293	189
10 August	158	173	139	18.7	22.7	15.4	233	290	206
11 August	163	180	126	18.0	22.7	14.8	218	274	185
12 August	168	195	126	17.9	22.0	14.8	219	253	172
13 August	146	174	111	18.1	23.4	14.5	219	244	199
14 August	170	200	132	17.4	22.5	14.7	209	235	179
15 August	180	215	162	17.5	21.0	15.6	197	214	177
16 August	175	207	150	18.6	22.5	15.8	237	264	199
17 August	182	218	157	19.2	23.8	15.5	204	235	179
18 August	189	267	149	19.3	22.5	16.6	192	222	152
19 August	192	235	149	19.1	26.0	15.6	202	220	188
20 August	195	269	153	19.9	23.6	17.2	203	231	171
21 August	180	204	143	19.2	23.2	16.5	193	214	169
22 August	151	203	116	18.6	22.3	16.1	212	238	187
23 August	140	168	102	18.9	23.4	16.2	215	250	192
24 August	136	166	114	19.6	25.6	17.1	201	220	159
25 August	138	163	122	20.4	25.2	17.2	200	210	182
26 August	145	165	125	20.5	26.6	16.9	202	220	190
27 August	151	198	112	20.4	24.9	17.1	214	229	193
28 August	130	146	110	20.5	24.4	17.6	222	236	203
29 August	141	191	113	20.6	26.0	16.7	223	235	213
30 August	142	162	107	21.2	24.4	17.5	241	254	224
31 August	133	183	103	18.8	22.6	16.3	227	245	215

Unit 3 Boiler Continuous Emission Monitoring Summary

EPA Identification no. 5 - 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 August	160	236	117	15.5	23.8	9.3	232	259	156
2 August	158	240	58	14.5	17.6	9.3	232	253	165
3 August	180	248	136	15.9	21.2	10.3	249	292	221
4 August	177	249	139	16.6	24.1	8.4	211	235	193
5 August	177	252	138	15.1	19.3	9.5	215	240	209
6 August	185	263	144	13.5	17.0	7.8	205	244	192
7 August	190	254	127	13.5	19.1	8.9	209	238	192
8 August	164	217	140	15.4	21.8	9.2	213	226	197
9 August	165	213	137	16.8	21.3	9.7	248	287	191
10 August	172	215	124	18.4	31.3	10.5	257	325	223
11 August	170	214	125	13.5	17.7	9.0	245	292	217
12 August	173	220	129	13.5	18.3	10.4	236	266	214
13 August	174	200	122	12.8	19.7	9.0	243	270	223
14 August	186	206	135	11.5	16.1	8.3	238	269	206
15 August	161	206	132	16.3	23.9	11.5	226	245	216
16 August	161	203	142	17.5	21.0	11.4	275	332	215
17 August	171	211	140	15.6	22.3	10.4	237	273	212
18 August	175	219	129	16.7	22.1	12.7	226	249	204
19 August	175	221	143	16.0	23.3	10.1	227	243	207
20 August	178	215	137	15.3	19.6	9.2	234	258	204
21 August	177	215	144	15.5	21.8	10.5	227	250	206
22 August	174	232	141	13.8	16.8	8.9	249	274	215
23 August	179	238	147	13.7	20.8	7.5	227	271	196
24 August	176	217	146	13.4	17.7	9.3	240	261	193
25 August	181	223	147	12.3	15.0	8.7	233	259	184
26 August	189	237	148	12.1	17.3	7.7	229	262	188
27 August	161	192	108	14.3	23.2	8.5	243	256	228
28 August	158	187	121	12.9	20.3	7.7	246	275	187
29 August	153	186	128	13.4	16.0	8.8	248	265	239
30 August	150	176	117	18.1	23.8	15.0	262	280	253
31 August	165	199	134	14.0	19.2	7.6	245	276	229

Unit 4 Boiler Continuous Emission Monitoring Summary

EPA Identification no. 6 - Air emissions monitoring, Boiler 4 stack discharge to air

	NOX			Particulates			SOX		
	ppm (7% O ₂)			mg/m ³			ppm (7% O ₂)		
	Daily	Max	Min	Daily	Max	Min	Daily	Max	Min
1 August	187	221	169	11.2	13.5	7.9	236	259	213
2 August	196	212	179	11.3	13.6	7.9	239	247	227
3 August	183	207	170	10.4	13.5	7.3	221	240	189
4 August	181	206	168	10.0	12.5	6.2	212	225	192
5 August	179	196	166	10.2	15.1	7.3	220	235	204
6 August	168	180	154	9.8	13.3	7.7	223	246	202
7 August	162	183	149	9.8	14.8	7.8	220	234	202
8 August	135	143	130	8.3	11.5	7.3	189	202	176
9 August	147	158	124	7.5	8.3	6.3	202	231	168
10 August	143	155	128	13.8	18.1	12.9	226	245	201
11 August	157	176	142	13.2	13.4	12.4	215	249	190
12 August	155	167	143	13.4	14.4	12.9	211	250	186
13 August	180	199	159	14.1	15.5	13.3	211	247	186
14 August	175	191	155	13.8	14.9	12.9	207	223	190
15 August	166	185	150	13.3	14.4	12.4	186	216	170
16 August	159	167	150	12.9	13.4	11.9	207	233	181
17 August	159	170	148	12.8	13.4	11.9	193	231	173
18 August	160	180	144	12.8	13.4	11.9	177	202	160
19 August	169	182	151	12.4	12.9	11.4	195	217	179
20 August	181	218	147	11.6	14.6	8.1	203	237	169
21 August	176	205	147	9.5	12.3	7.0	216	236	197
22 August	176	208	153	8.6	10.1	7.5	226	260	197
23 August	171	192	144	8.9	11.1	7.5	233	274	206
24 August	172	197	148	8.8	11.1	7.0	217	239	192
25 August	172	201	123	8.8	10.5	7.5	227	240	215
26 August	189	211	170	8.8	10.5	6.9	230	241	218
27 August	172	199	153	9.0	14.9	6.6	236	251	217
28 August	161	186	139	8.6	11.3	7.1	241	254	231
29 August	164	182	150	9.6	12.0	6.7	241	252	230
30 August	183	222	158	10.9	13.2	8.1	254	274	223
31 August	207	229	182	8.8	11.0	7.5	241	271	217



Unit 1 Boiler Emission Test Results

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 ³	0.2	
Carbon Dioxide (Wet)	12.3	%	-	25-26/02/2020
Carbon Monoxide	<2	ppm	-	25-26/02/2020
Chlorine	0.015	mg/m ³	200	25-26/02/2020
Copper	0.00062	mg/m ³	-	25-26/02/2020
Dry Gas Density	1.33	kg/m ³	-	25-26/02/2020
Fluoride As HF - Total	9.2	mg/m ³	50	25-26/02/2020
Hazardous Substances (Metals) - Total	<0.011	mg/m ³	1	25-26/02/2020
Hydrogen Chloride	7.2	mg/m ³	100	25-26/02/2020
Mercury	0.00019	mg/m ³	0.2	25-26/02/2020
Moisture	6.3	%	-	25-26/02/2020
Particulates - Total	3.0	mg/m ³	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 ³ /sec	-	25-26/02/2020

Unit 2 Boiler Emission Test Results

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 ³	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 ³	200	6/06/2019
Copper	0.0036	mg/m ³	-	19/02/2019
Dry Gas Density	1.32	kg/m ³	-	19/02/2019
Fluoride As HF - Total	5.4	mg/m ³	50	6/06/2019
Hazardous Substances (Metals) - Total	<0.033	mg/m ³	1	19/02/2019
Hydrogen Chloride	4.6	mg/m ³	100	6/06/2019
Mercury	0.00057	mg/m ³	0.2	19/02/2019
Moisture	6.8	%	-	19/02/2019
Particulates - Total	4.2	mg/m ³	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 ³ /sec	-	19/02/2019

Unit 3 Boiler Emission Test Results

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 ³	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 ³	200	7-8 May 2019
Copper	0.00064	mg/m ³	-	7-8 May 2019
Dry Gas Density	1.32	kg/m ³	-	7-8 May 2019
Fluoride As HF - Total	10	mg/m ³	50	7-8 May 2019
Hazardous Substances (Metals) - Total	<0.010	mg/m ³	1	7-8 May 2019
Hydrogen Chloride	9.5	mg/m ³	100	7-8 May 2019
Mercury	<0.0002	mg/m ³	0.2	7-8 May 2019
Moisture	6.7	%	-	7-8 May 2019
Particulates - Total	5.9	mg/m ³	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 ³ /sec	-	7-8 May 2019

Unit 4 Boiler Emission Test Results

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 ³	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 ³	200	10-11/12/2019
Copper	0.0029	mg/m ³	-	10-11/12/2019
Dry Gas Density	1.32	kg/m ³	-	10-11/12/2019
Fluoride As HF - Total	10.5	mg/m ³	50	10-11/12/2019
Hazardous Substances (Metals) - Total	<0.013	mg/m ³	1	10-11/12/2019
Hydrogen Chloride	25.5	mg/m ³	100	10-11/12/2019
Mercury	0.00052	mg/m ³	0.2	10-11/12/2019
Moisture	6.5	%	-	10-11/12/2019
Particulates - Total	9.7	mg/m ³	50	10-11/12/2019
Stack Gas Molecular Weight	29.6	kg/k-mole	-	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	<0.008	ppm	-	10-11/12/2019
Volumetric Flow Rate (Dry At STP)	357	m ³ /sec	-	10-11/12/2019

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	0.8	0.6	1.4
E4	18	0.2	0.2	0.4
E6	19	0.7	0.5	1.2
U6	20	0.6	0.3	0.9

Water Quality - Lake Monitoring LM10

EPA Identification no. 27 - 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
Depth/Air	16.88					2.25
050cm	16.19	8.03	29.4	71.6	5.72	

<u>Name</u>	<u>Reading</u>	<u>Units</u>	<u>Date</u>
Aluminium	0.060	mg/L	03/08/2020
Ammonia	<0.005	mg/L	03/08/2020
Arsenic III	<0.005	mg/L	03/08/2020
Arsenic V	<0.005	mg/L	03/08/2020
Cadmium	<0.0002	mg/L	03/08/2020
Chromium (Trivalent)	<0.001	mg/L	03/08/2020
Chromium (VI) Compounds	<0.01	mg/L	03/08/2020
Copper	<0.001	mg/L	03/08/2020
Iron	0.041	mg/L	03/08/2020
Lead	<0.0002	mg/L	03/08/2020
Manganese	0.0059	mg/L	03/08/2020
Nickel	<0.0005	mg/L	03/08/2020
pH	8.12	pH /units	03/08/2020
Selenium	<0.002	mg/L	03/08/2020
Total Suspended Solids	<5	mg/L	03/08/2020
Vanadium	0.0014	mg/L	03/08/2020
Zinc	<0.005	mg/L	03/08/2020

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

	Temp	pH	Salinity	Dissolved Oxygen		Secchi
	degC		ppt	%	mg/L	m
Depth/Air	14.68					2.25
050cm	16.11	8.03	29.3	69.0	5.53	

<u>Name</u>	<u>Reading</u>	<u>Units</u>	<u>Date</u>
Aluminium	0.055	mg/L	03/08/2020
Ammonia	<0.005	mg/L	03/08/2020
Arsenic III	<0.005	mg/L	03/08/2020
Arsenic V	<0.005	mg/L	03/08/2020
Cadmium	<0.0002	mg/L	03/08/2020
Chromium (Trivalent)	<0.001	mg/L	03/08/2020
Chromium (VI) Compounds	<0.01	mg/L	03/08/2020
Copper	0.001	mg/L	03/08/2020
Iron	0.030	mg/L	03/08/2020
Lead	<0.0002	mg/L	03/08/2020
Manganese	0.0050	mg/L	03/08/2020
Nickel	<0.0005	mg/L	03/08/2020
pH	8.12	pH /units	03/08/2020
Selenium	<0.002	mg/L	03/08/2020
Total Suspended Solids	<5	mg/L	03/08/2020
Vanadium	0.0015	mg/L	03/08/2020
Zinc	<0.005	mg/L	03/08/2020

Water Quality - Lake Monitoring LM4

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

	Temp	pH	Salinity	Dissolved Oxygen		Secchi
	degC		ppt	%	mg/L	m
Depth/Air	13.14					2.75
050cm	14.39	8.08	29.9	73.6	6.08	

Name	Reading	Units	Date
Aluminium	0.046	mg/L	03/08/2020
Ammonia	<0.005	mg/L	03/08/2020
Arsenic III	<0.005	mg/L	03/08/2020
Arsenic V	<0.005	mg/L	03/08/2020
Cadmium	0.0002	mg/L	03/08/2020
Chromium (Trivalent)	<0.001	mg/L	03/08/2020
Chromium (VI) Compounds	<0.01	mg/L	03/08/2020
Copper	0.002	mg/L	03/08/2020
Iron	0.024	mg/L	03/08/2020
Lead	<0.0002	mg/L	03/08/2020
Manganese	0.0066	mg/L	03/08/2020
Nickel	<0.0005	mg/L	03/08/2020
pH	8.12	pH /units	03/08/2020
Selenium	<0.002	mg/L	03/08/2020
Total Suspended Solids	<5	mg/L	03/08/2020
Vanadium	0.0016	mg/L	03/08/2020
Zinc	<0.005	mg/L	03/08/2020

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

	Temp	pH	Salinity	Dissolved Oxygen		Secchi
	degC		ppt	%	mg/L	m
Depth/Air	13.12					2.75
050cm	18.95	7.94	30.0	74.0	5.63	

<u>Name</u>	<u>Reading</u>	<u>Units</u>	<u>Date</u>
Aluminium	0.083	mg/L	03/08/2020
Ammonia	<0.005	mg/L	03/08/2020
Arsenic III	<0.005	mg/L	03/08/2020
Arsenic V	<0.005	mg/L	03/08/2020
Cadmium	<0.0002	mg/L	03/08/2020
Chromium (Trivalent)	<0.001	mg/L	03/08/2020
Chromium (VI) Compounds	<0.01	mg/L	03/08/2020
Copper	0.001	mg/L	03/08/2020
Iron	0.057	mg/L	03/08/2020
Lead	<0.0002	mg/L	03/08/2020
Manganese	0.0056	mg/L	03/08/2020
Nickel	<0.0005	mg/L	03/08/2020
pH	8.10	pH /units	03/08/2020
Selenium	<0.002	mg/L	03/08/2020
Total Suspended Solids	<5	mg/L	03/08/2020
Vanadium	0.0017	mg/L	03/08/2020
Zinc	<0.005	mg/L	03/08/2020

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	0.318	mg/L	-	06/08/2020
Ammonia	1.24	mg/L	-	06/08/2020
Arsenic III	0.0006	mg/L	-	06/08/2020
Arsenic V	0.0050	mg/L	-	06/08/2020
Cadmium	0.00005	mg/L	-	06/08/2020
Chromium (Trivalent)	<0.001	mg/L	-	06/08/2020
Chromium (VI) Compounds	<0.01	mg/L	-	06/08/2020
Copper	0.0018	mg/L	-	06/08/2020
Iron	0.063	mg/L	-	06/08/2020
Lead	0.0002	mg/L	-	06/08/2020
Manganese	0.0481	mg/L	-	06/08/2020
Nickel	0.0012	mg/L	-	06/08/2020
Nitrite and Nitrate as N	2.02	mg/L	-	06/08/2020
Nitrogen	3.3	mg/L	-	06/08/2020
pH	8.81	pH /units	-	06/08/2020
Phosphorus as P	0.24	mg/L	-	06/08/2020
Reactive Phosphorus as P	0.23	mg/L	-	06/08/2020
Selenium	0.0229	mg/L	-	06/08/2020
Total Kjeldahl Nitrogen	1.3	mg/L	-	06/08/2020
Total Suspended Solids	11	mg/L	-	06/08/2020
Vanadium	0.0351	mg/L	-	06/08/2020
Zinc	0.002	mg/L	-	06/08/2020

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	0.108	mg/L	-	06/08/2020
Ammonia	<0.010	mg/L	-	06/08/2020
Arsenic III	<0.005	mg/L	-	06/08/2020
Arsenic V	<0.005	mg/L	-	06/08/2020
Cadmium	<0.0002	mg/L	-	06/08/2020
Chromium (Trivalent)	<0.001	mg/L	-	06/08/2020
Chromium (VI) Compounds	<0.01	mg/L	-	06/08/2020
Copper	0.0010	mg/L	-	06/08/2020
Iron	0.152	mg/L	-	06/08/2020
Lead	<0.0002	mg/L	-	06/08/2020
Manganese	0.0054	mg/L	-	06/08/2020
Nickel	<0.0005	mg/L	-	06/08/2020
pH	8.06	pH units	-	06/08/2020
Selenium	0.002	mg/L	-	06/08/2020
Total suspended Solids	<5	mg/L	-	06/08/2020
Vanadium	0.0027	mg/L	-	06/08/2020
Zinc	<0.005	mg/L	-	06/08/2020
Dissolved Oxygen	6.38	mg/L	-	06/08/2020
Field Temperature	17.7	degC	-	06/08/2020
Salinity	33.3	ppt	-	06/08/2020
Secchi Disk	2.25	m	-	06/08/2020
Temperature – Average	16.0	deg C	-	August 2020
Temperature – Minimum	14.3	deg C	-	August 2020
Temperature - Maximum	17.7	deg C	-	August 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	0.0009	mg/L	0.005	06/08/2020
Iron	0.041	mg/L	0.3	06/08/2020
Selenium	0.002	mg/L	0.002	06/08/2020
Temperature – Average	23.4	deg C	37.5	August 2020
Temperature – Minimum	19.0	deg C	37.5	August 2020
Temperature - Maximum	28.4	deg C	37.5	August 2020
Maximum Daily Discharge from Ash Dam	49.79	ML	150	August 2020
Monthly Discharge from Ash Dam	487.8	ML	-	August 2020

Emergency Discharge – Toe Drain Pond

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

Name	Reading	Units	Licence Limit	Date
Aluminium	0.643	mg/L	-	06/08/2020
Ammonia	1.83	mg/L	-	06/08/2020
Arsenic III	0.0011	mg/L	-	06/08/2020
Arsenic V	0.0013	mg/L	-	06/08/2020
Cadmium	<0.00005	mg/L	-	06/08/2020
Chromium (Trivalent)	<0.001	mg/L	-	06/08/2020
Chromium (VI) Compounds	<0.01	mg/L	-	06/08/2020
Copper	<0.0005	mg/L	-	06/08/2020
Iron	9.34	mg/L	-	06/08/2020
Lead	<0.0001	mg/L	-	06/08/2020
Manganese	0.940	mg/L	-	06/08/2020
Nickel	0.0028	mg/L	-	06/08/2020
Nitrite and Nitrate as N	0.059	mg/L	-	06/08/2020
Nitrogen	2.25	mg/L	-	06/08/2020
pH	6.74	pH /units	6-9.5	06/08/2020
Phosphorus as P	0.010	mg/L	-	06/08/2020
Reactive Phosphorus as P	0.011	mg/L	-	06/08/2020
Selenium	0.0004	mg/L	-	06/08/2020
Total Kjeldahl Nitrogen	2.19	mg/L	-	06/08/2020
Total Suspended Solids	35	mg/L	50	06/08/2020
Vanadium	0.0007	mg/L	-	06/08/2020
Zinc	0.008	mg/L	-	06/08/2020

MR217

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

Not Discharging August 2020

<u>Name</u>	<u>Reading</u>	<u>Units</u>	<u>Licence Limit</u>	<u>Date</u>
Aluminium		mg/L	-	06/08/2020
Ammonia		mg/L	-	06/08/2020
Arsenic III		mg/L	-	06/08/2020
Arsenic V		mg/L	-	06/08/2020
Cadmium		mg/L	-	06/08/2020
Chromium (Trivalent)		mg/L	-	06/08/2020
Chromium (VI) Compounds		mg/L	-	06/08/2020
Copper		mg/L	-	06/08/2020
Iron		mg/L	-	06/08/2020
Lead		mg/L	-	06/08/2020
Manganese		mg/L	-	06/08/2020
Nickel		mg/L	-	06/08/2020
Nitrite and Nitrate as N		mg/L	-	06/08/2020
Nitrogen		mg/L	-	06/08/2020
pH		pH /units	6-9.5	06/08/2020
Phosphorus as P		mg/L	-	06/08/2020
Reactive Phosphorus as P		mg/L	-	06/08/2020
Selenium		mg/L	-	06/08/2020
Total Kjeldahl Nitrogen		mg/L	-	06/08/2020
Total Suspended Solids		mg/L	50	06/08/2020
Vanadium		mg/L	-	06/08/2020
Zinc		mg/L	-	06/08/2020

Groundwater Monitoring

Groundwater Well – MW01

EPA Identification no. 21 – Groundwater Monitoring Well 01

Name	Reading	Units	Date
Arsenic	0.4	ug/L	22/06/2020
Cadmium	<0.05	ug/L	22/06/2020
Calcium	2000	ug/L	22/06/2020
Chromium	1.0	ug/L	22/06/2020
Copper	1.3	ug/L	22/06/2020
Electrical Conductivity	0.468	mS/cm	22/06/2020
Iron	517	ug/L	22/06/2020
Lead	3.4	ug/L	22/06/2020
Magnesium	5000	ug/L	22/06/2020
Manganese	109	ug/L	22/06/2020
Nickel	4.4	ug/L	22/06/2020
pH	4.83	pH	22/06/2020
Potassium	4000	ug/L	22/06/2020
Selenium	<0.2	ug/L	22/06/2020
Standing Water Level	7.25	metres	22/06/2020
Zinc	33	ug/L	22/06/2020

Groundwater Well – MW02

EPA Identification no. 22 – Groundwater Monitoring Well 02

Name	Reading	Units	Date
Arsenic	1.9	ug/L	15/06/2020
Cadmium	<0.05	ug/L	15/06/2020
Calcium	290000	ug/L	15/06/2020
Chromium	1.5	ug/L	15/06/2020
Copper	1.6	ug/L	15/06/2020
Electrical Conductivity	22.4	mS/cm	15/06/2020
Iron	28100	ug/L	15/06/2020
Lead	2.0	ug/L	15/06/2020
Magnesium	361000	ug/L	15/06/2020
Manganese	621	ug/L	15/06/2020
Nickel	3.8	ug/L	15/06/2020
pH	6.24	pH	15/06/2020
Potassium	151000	ug/L	15/06/2020
Selenium	0.7	ug/L	15/06/2020
Standing Water Level	4.17	metres	15/06/2020
Zinc	13	ug/L	15/06/2020

Groundwater Well – MW06

EPA Identification no. 23 – Groundwater Monitoring Well 06

Name	Reading	Units	Date
Arsenic	4.8	ug/L	22/06/2020
Cadmium	<0.2	ug/L	22/06/2020
Calcium	483000	ug/L	22/06/2020
Chromium	<0.5	ug/L	22/06/2020
Copper	<1	ug/L	22/06/2020
Electrical Conductivity	19.1	mS/cm	22/06/2020
Iron	14500	ug/L	22/06/2020
Lead	0.2	ug/L	22/06/2020
Magnesium	293000	ug/L	22/06/2020
Manganese	392	ug/L	22/06/2020
Nickel	0.9	ug/L	22/06/2020
pH	6.64	pH	22/06/2020
Potassium	158000	ug/L	22/06/2020
Selenium	<2	ug/L	22/06/2020
Standing Water Level	1.750	metres	22/06/2020
Zinc	14	ug/L	22/06/2020

Groundwater Well – EGM/D26

EPA Identification no. 24 – Groundwater Monitoring Well D26

Groundwater well was dry during sampling in June 2020

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	