



Eraring Power Station - EPA Licence 1429

Rocky Point Rd, Dora Creek NSW 2264

Environmental Monitoring Data March 2017



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 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 - Mar	171	208	121	14	26	8	149	161	137
2 - Mar	160	176	116	14	25	8	166	177	142
3 - Mar	166	188	136	16	23	10	153	168	145
4 - Mar	149	164	117	20	26	15	158	179	136
5 - Mar	153	182	105	12	19	9	156	167	147
6 - Mar	164	186	137	10	15	8	165	188	140
7 - Mar	165	198	118	13	18	10	178	197	159
8 - Mar	164	186	118	17	33	11	182	190	161
9 - Mar	155	195	122	15	25	11	167	185	159
10 - Mar	150	172	123	14	22	9	178	187	159
11 - Mar	160	185	136	13	21	8	147	171	137
12 - Mar	171	198	131	15	30	8	143	153	124
13 - Mar	174	203	147	11	15	9	141	145	130
14 - Mar	150	165	125	17	28	8	164	174	137
15 - Mar	147	161	122	15	27	8	166	182	143
16 - Mar	140	163	122	15	27	9	170	182	142
17 - Mar	144	162	126	10	17	5	179	200	154
18 - Mar	158	178	130	7	11	5	172	200	149
19 - Mar	160	170	131	7	11	5	171	184	142
20 - Mar	151	178	135	7	10	5	184	201	162
21 - Mar	159	168	138	6	8	4	182	190	167
22 - Mar	152	166	124	6	10	5	178	186	168
23 - Mar	151	170	118	7	12	5	168	175	152
24 - Mar	147	154	130	8	11	7	169	176	150
25 - Mar	166	195	128	7	10	6	176	184	164
26 - Mar	171	194	148	6	10	4	166	180	150
27 - Mar	165	191	148	8	12	5	166	194	136
28 - Mar	164	191	142	7	11	5	166	177	147
29 - Mar	164	175	126	6	12	4	177	186	153
30 - Mar	171	187	141	6	10	4	176	184	159
31 - Mar	170	182	151	7	11	6	176	203	154

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 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 - Mar	154	176	111	10	13	8	182	192	170
2 - Mar	154	184	123	11	15	8	193	230	155
3 - Mar	142	163	108	12	15	9	197	227	174
4 - Mar	121	136	107	12	17	10	199	220	177
5 - Mar	139	156	109	11	14	9	189	199	176
6 - Mar	157	183	109	13	25	10	205	238	174
7 - Mar	154	189	101	12	15	10	204	236	178
8 - Mar	152	175	106	13	16	10	215	231	196
9 - Mar	144	171	106	13	17	11	212	222	200
10 - Mar	160	178	102	12	16	11	214	230	199
11 - Mar	165	202	111	12	19	10	187	210	175
12 - Mar	157	189	103	13	16	9	178	187	159
13 - Mar	161	178	135	13	18	11	186	204	164
14 - Mar	145	165	112	13	17	10	199	209	181
15 - Mar	148	169	107	14	19	12	203	216	172
16 - Mar	149	166	120	13	18	9	217	229	194
17 - Mar	140	156	114	15	19	13	218	235	194
18 - Mar	155	174	121	16	20	14	203	226	179
19 - Mar	135	161	113	16	18	14	194	206	178
20 - Mar	148	164	122	18	25	15	210	221	195
21 - Mar	145	157	132	19	27	18	210	225	182
22 - Mar	134	140	127	18	23	10	204	211	186
23 - Mar	138	145	128	11	13	10	195	204	174
24 - Mar	134	142	124	11	13	10	197	215	161
25 - Mar	142	151	131	11	15	10	193	201	169
26 - Mar	146	160	132	11	14	10	188	204	163
27 - Mar	143	151	126	11	13	10	183	213	146
28 - Mar	153	179	110	9	12	8	203	230	171
29 - Mar	162	173	130	9	13	8	194	211	162
30 - Mar	166	182	135	10	14	7	211	229	182
31 - Mar	154	172	138	13	16	10	215	239	175

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 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 - Mar	178	206	120	18	24	16	175	186	133
2 - Mar	160	183	126	19	23	16	198	205	134
3 - Mar	169	204	121	19	23	16	182	203	101
4 - Mar	171	196	118	20	29	17	181	199	140
5 - Mar	167	213	117	18	22	17	184	213	104
6 - Mar	174	199	127	19	22	17	194	222	141
7 - Mar	161	174	133	20	23	17	214	232	107
8 - Mar	165	203	129	21	26	18	198	219	105
9 - Mar	148	177	117	20	24	7	204	219	150
10 - Mar	153	172	112	20	23	18	201	231	144
11 - Mar	168	194	120	20	24	17	170	181	133
12 - Mar	136	156	101	22	25	19	168	185	142
13 - Mar	162	194	129	20	22	18	180	185	173
14 - Mar	147	170	114	20	24	11	194	208	169
15 - Mar	148	171	113	23	30	11	200	223	131
16 - Mar	164	194	143	23	29	17	208	217	191
17 - Mar	174	196	125	19	27	16	216	225	203
18 - Mar	167	191	109	22	38	13	210	223	190
19 - Mar	180	204	130	20	24	13	212	226	195
20 - Mar	186	215	130	19	24	16	200	215	182
21 - Mar	175	183	158	18	20	17	212	230	198
22 - Mar	165	186	119	19	24	12	208	214	197
23 - Mar	164	185	114	19	23	12	193	203	138
24 - Mar	165	188	119	19	22	17	197	209	140
25 - Mar	165	181	114	19	22	17	200	210	141
26 - Mar	172	204	135	19	22	12	207	235	138
27 - Mar	184	204	111	19	23	12	213	236	153
28 - Mar	171	190	149	18	20	12	219	234	144
29 - Mar	160	179	102	21	25	14	211	221	202
30 - Mar	177	195	151	21	25	19	219	241	203
31 - Mar	158	176	123	22	27	19	233	244	215

Unit 4 Boiler Continuous Emission Monitoring Summary

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

- Unit out of service 18th & 19th due to steam leak.

	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 - Mar	161	180	115	14	16	11	168	181	109
2 - Mar	158	184	127	14	16	12	184	217	158
3 - Mar	158	182	121	14	16	12	185	225	113
4 - Mar	147	170	113	14	17	12	192	210	133
5 - Mar	145	171	103	13	16	11	173	199	164
6 - Mar	157	177	109	14	19	10	185	227	151
7 - Mar	161	191	106	14	16	11	185	198	176
8 - Mar	151	178	106	15	17	12	198	220	172
9 - Mar	146	177	104	15	18	12	201	211	191
10 - Mar	152	178	109	16	18	13	206	222	196
11 - Mar	147	168	112	15	20	13	188	209	172
12 - Mar	148	170	107	15	17	13	171	187	160
13 - Mar	152	165	140	17	19	16	180	194	172
14 - Mar	145	163	115	20	23	16	194	209	177
15 - Mar	144	160	113	21	24	16	195	210	141
16 - Mar	141	151	126	22	26	16	198	210	174
17 - Mar	140	150	119	21	32	11	205	226	147
18 - Mar	0	0	0	0	0	0	0	0	0
19 - Mar	0	0	0	0	0	0	0	0	0
20 - Mar	149	211	113	18	32	8	177	204	121
21 - Mar	140	155	130	15	17	14	208	226	191
22 - Mar	136	159	100	16	17	14	196	210	166
23 - Mar	143	171	131	9	13	7	184	196	137
24 - Mar	141	159	115	12	14	10	197	210	182
25 - Mar	151	172	112	13	17	9	201	211	183
26 - Mar	155	177	119	9	11	7	210	230	191
27 - Mar	146	169	108	9	11	8	211	224	184
28 - Mar	145	151	140	10	13	9	221	230	203
29 - Mar	144	156	111	10	13	8	209	221	200
30 - Mar	144	155	114	12	16	10	213	237	153
31 - Mar	144	151	127	13	17	10	213	221	201

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	0.0012	mg/m3	0.20	16/08/2016
Carbon Dioxide (Wet)	12.9	%	-	16/08/2016
Carbon Monoxide	2.0	mg/m3	-	16/08/2016
Chlorine	0.24	mg/m3	300	16/08/2016
Copper	0.0023	mg/m3	-	16/08/2016
Dry Gas Density	1.4	kg/m3	-	16/08/2016
Fluoride As HF - Total	8.7	mg/m3	50	16/08/2016
Hazardous Substances (Metals) - Total	0.018	mg/m3	1.00	16/08/2016
Hydrogen Chloride	1.3	mg/m3	100.0	16/08/2016
Mercury	0.00010	mg/m3	0.200	16/08/2016
Moisture	5.0	%	-	16/08/2016
Particulates - Total	1.6	mg/m3	50	16/08/2016
Stack Gas Molecular Weight	30	kg/k-mole	-	16/08/2016
Temperature	106.6	degC	-	16/08/2016
Velocity	13.0	m/sec	-	16/08/2016
Volatile Organic Compounds (VOC) - Total	0.53	mg/m3	-	16/08/2016
Volumetric Flow Rate (Dry At STP)	324	m3/sec	-	16/08/2016

Unit 2 Boiler Emission Test Results

EPA Identification no. 12 - 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	0.0050	mg/m3	0.20	20/12/2016
Carbon Dioxide (Wet)	11.9	%	-	20/12/2016
Carbon Monoxide	3.0	mg/m3	-	20/12/2016
Chlorine	0.61	mg/m3	300	20/12/2016
Copper	0.0020	mg/m3	-	20/12/2016
Dry Gas Density	1.4	kg/m3	-	20/12/2016
Fluoride As HF - Total	7.5	mg/m3	50	20/12/2016
Hazardous Substances (Metals) - Total	0.009	mg/m3	1.00	20/12/2016
Hydrogen Chloride	0.23	mg/m3	100.0	20/12/2016
Mercury	0.0003	mg/m3	0.200	20/12/2016
Moisture	4.0	%	-	20/12/2016
Particulates - Total	15.0	mg/m3	50	20/12/2016
Stack Gas Molecular Weight	30	kg/k-mole	-	20/12/2016
Temperature	110.0	degC	-	20/12/2016
Velocity	12.0	m/sec	-	20/12/2016
Volatile Organic Compounds (VOC) - Total	0.07	mg/m3	-	20/12/2016
Volumetric Flow Rate (Dry At STP)	299	m3/sec	-	20/12/2016

Unit 3 Boiler Emission Test Results

EPA Identification no. 13 - 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	0.05	mg/m3	0.20	22/08/2015
Carbon Dioxide (Wet)	11.8	%	-	22/08/2015
Carbon Monoxide	1.00	mg/m3	-	22/08/2015
Chlorine	0.76	mg/m3	200	22/08/2015
Copper	0.010	mg/m3	-	22/08/2015
Dry Gas Density	1.4	kg/m3	-	22/08/2015
Fluoride As HF - Total	11.8	mg/m3	50	22/08/2015
Hazardous Substances (Metals) - Total	0.07	mg/m3	1.00	22/08/2015
Hydrogen Chloride	0.53	mg/m3	100.0	22/08/2015
Mercury	0.0003	mg/m3	0.200	22/08/2015
Moisture	3.2	%	-	22/08/2015
Particulates - Total	2.1	mg/m3	50	22/08/2015
Stack Gas Molecular Weight	30	kg/k-mole	-	22/08/2015
Temperature	117.0	degC	-	22/08/2015
Velocity	10.3	m/sec	-	22/08/2015
Volatile Organic Compounds (VOC) - Total	0.76	mg/m3	-	22/08/2015
Volumetric Flow Rate (Dry At STP)	236	m3/sec	-	22/08/2015

Unit 4 Boiler Emission Test Results

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

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<u>Name</u>	<u>Reading</u>	<u>Units</u>	<u>Licence Limit</u>	<u>Date</u>
Cadmium	0.0006	mg/m3	0.20	31/10/2015
Carbon Dioxide (Wet)	10.2	%	-	31/10/2015
Carbon Monoxide	0.11	mg/m3	-	31/10/2015
Chlorine	0.86	mg/m3	200	31/10/2015
Copper	0.0004	mg/m3	-	31/10/2015
Dry Gas Density	1.3	kg/m3	-	31/10/2015
Fluoride As HF - Total	3.3	mg/m3	50	31/10/2015
Hazardous Substances (Metals) - Total	0.07	mg/m3	1.00	31/10/2015
Hydrogen Chloride	0.30	mg/m3	100.0	31/10/2015
Mercury	0.0011	mg/m3	0.200	31/10/2015
Moisture	5.4	%	-	31/10/2015
Particulates - Total	0.22	mg/m3	50	31/10/2015
Stack Gas Molecular Weight	30	kg/k-mole	-	31/10/2015
Temperature	112.5	degC	-	31/10/2015
Velocity	11.5	m/sec	-	31/10/2015
Volatile Organic Compounds (VOC) - Total	0.86	mg/m3	-	31/10/2015
Volumetric Flow Rate (Dry At STP)	258	m3/sec	-	31/10/2015

Eraring Depositional Dust Gauges

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

	Deposited Matter		
	g/m2/month		
	Ash	Combustible	Insolubles
E2	0.70	0.40	1.10
E4	0.60	2.00	2.60
E6	0.70	0.60	1.30
U6	3.90	0.40	4.30

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
Depth/Air	22.95					
010cm	25.71	7.64	35.50	81.70	5.31	1.25
050cm	25.70	7.61	35.50	80.70	5.27	
100cm	25.70	7.63	35.50	80.40	5.23	
150cm	25.70	7.61	35.70	80.10	5.19	
200cm	25.69	7.64	35.70	83.40	5.30	
250cm	25.69	7.64	35.70	78.10	5.07	
Bottom	25.69	7.64	35.70	82.90	5.38	

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
Depth/Air	23.72					
010cm	25.75	7.55	36.00	95.30	6.79	2.25
050cm	25.81	7.55	36.10	84.40	5.46	
100cm	25.82	7.55	35.90	86.70	5.61	
150cm	25.84	7.57	36.10	88.50	5.71	
200cm	25.83	7.57	36.10	88.20	5.69	
250cm	25.84	7.57	36.10	87.80	5.68	
300cm	25.82	7.59	36.10	83.40	5.39	
350cm	25.84	7.59	36.10	85.80	5.51	
400cm	25.85	7.60	36.10	83.70	5.40	
450cm	25.85	7.60	36.10	84.60	5.49	
500cm	25.86	7.61	36.10	84.10	5.45	
550cm	25.85	7.60	36.10	84.00	5.42	
600cm	25.85	7.60	36.10	82.50	5.33	
650cm	25.86	7.62	36.10	81.60	5.27	
Bottom	25.86	7.61	36.10	80.30	5.17	

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
Depth/Air	21.02					
010cm	24.18	7.42	34.50	102.70	6.88	4.25
050cm	24.22	7.42	34.50	102.20	6.87	
100cm	24.20	7.42	34.50	102.80	6.89	
150cm	24.22	7.42	34.50	103.80	6.96	
200cm	24.22	7.43	34.50	102.80	6.87	
250cm	24.22	7.46	34.50	104.70	7.02	
300cm	24.22	7.50	34.50	102.80	6.90	
350cm	24.22	7.46	34.50	102.90	6.89	
400cm	24.21	7.48	34.50	103.10	6.90	
450cm	24.21	7.47	34.50	98.90	6.63	
500cm	24.20	7.46	34.50	96.20	6.44	
550cm	24.20	7.51	34.50	99.10	6.64	
600cm	24.20	7.49	34.50	99.30	6.66	
650cm	24.19	7.54	34.50	99.30	6.68	
700cm	24.20	7.50	34.50	98.20	6.62	
750cm	24.21	7.52	34.50	98.10	6.61	
800cm	24.18	7.54	34.50	99.50	6.70	
850cm	24.18	7.52	34.50	96.20	6.44	
Bottom	24.17	7.50	34.50	96.10	6.43	

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
Depth/Air	23.78					
010cm	27.22	7.56	35.60	99.10	6.30	2.75
050cm	27.26	7.56	35.50	91.20	5.78	
100cm	27.30	7.57	35.60	94.90	6.01	
150cm	27.34	7.55	35.60	96.10	6.05	
200cm	27.32	7.55	35.60	93.40	5.91	
250cm	27.34	7.56	35.60	98.60	6.19	
300cm	27.32	7.54	35.60	99.70	6.32	
350cm	27.32	7.54	35.60	101.30	6.41	
400cm	27.34	7.59	35.60	100.50	6.37	
450cm	27.32	7.58	35.60	97.40	6.19	
500cm	27.33	7.57	35.60	100.10	6.30	
Bottom	27.24	7.56	35.60	99.60	6.30	

Eraring Ash Dam Effluent Quality Monitoring

EPA Identification no. 10 - 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>
Cadmium	0.06	ug/L	-	02/03/2017
Copper	0.60	ug/L	-	02/03/2017
Iron	2.0	ug/L	-	02/03/2017
Lead	0.10	ug/L	-	02/03/2017
Manganese	20.4	ug/L	-	02/03/2017
Nitrite and Nitrate as N	328	ug/L	-	02/03/2017
Phosphorus Reactive as P - Total	125	ug/L	-	02/03/2017
Phosphorus as P - Total	186	ug/L	-	02/03/2017
Selenium	18.5	ug/L	-	02/03/2017
Suspended Solids (SS)	4,000	ug/L	-	02/03/2017
Zinc	1.00	ug/L	-	02/03/2017
pH	8.9	-	-	02/03/2017

Eraring Ash Dam Ground Water Monitoring D26

EPA Identification no. 24 - D26

<u>Name</u>	<u>Reading</u>	<u>Units</u>	<u>Licence Limit</u>	<u>Date</u>
Arsenic	0.90	ug/L	-	03/03/2017
Cadmium	0.050	ug/L	-	03/03/2017
Calcium	1.00	mg/L	-	03/03/2017
Chromium	0.50	ug/L	-	03/03/2017
Copper	1.00	ug/L	-	03/03/2017
Depth	2.3	m	-	03/03/2017
Electrical Conductivity at 25 degC	123	uS/cm	-	03/03/2017
Iron	58	ug/L	-	03/03/2017
Lead	0.10	ug/L	-	03/03/2017
Magnesium	5.0	mg/L	-	03/03/2017
Manganese	2.1	ug/L	-	03/03/2017
Nickel	0.0010	ug/L	-	03/03/2017
Potassium	2.0	mg/L	-	03/03/2017
Selenium	1.5	ug/L	-	03/03/2017
Zinc	8.0	ug/L	-	03/03/2017
pH	6.0	-	-	03/03/2017

Eraring Cooling Water Inlet Canal

EPA Identification no. 8 - 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>
Copper	1.10	ug/L	-	02/03/2017
Iron	6.0	ug/L	-	02/03/2017
Selenium	1.00	ug/L	-	02/03/2017
Temperature - Average	25.8	deg C	-	Mar 2017
Temperature - Minimum	23.4	deg C	-	Mar 2017
Temperature - Maximum	28.4	deg C	-	Mar 2017

Eraring Ash Dam Ground Water Monitoring MW01

EPA Identification no. 21 - MW01

<u>Name</u>	<u>Reading</u>	<u>Units</u>	<u>Licence Limit</u>	<u>Date</u>
Arsenic	0.20	ug/L	-	03/03/2017
Cadmium	0.050	ug/L	-	03/03/2017
Calcium	1.00	mg/L	-	03/03/2017
Chromium	0.20	ug/L	-	03/03/2017
Copper	2.6	ug/L	-	03/03/2017
Electrical Conductivity at 25 degC	422	uS/cm	-	03/03/2017
Iron	38	ug/L	-	03/03/2017
Lead	0.20	ug/L	-	03/03/2017
Magnesium	4.0	mg/L	-	03/03/2017
Manganese	70	ug/L	-	03/03/2017
Nickel	0.009	ug/L	-	03/03/2017
Potassium	4.0	mg/L	-	03/03/2017
Selenium	0.20	ug/L	-	03/03/2017
Zinc	141	ug/L	-	03/03/2017
pH	5.7		-	03/03/2017

Eraring Ash Dam Ground Water Monitoring MW02

EPA Identification no. 22 - MW02

<u>Name</u>	<u>Reading</u>	<u>Units</u>	<u>Licence Limit</u>	<u>Date</u>
Arsenic	5.8	ug/L	-	03/03/2017
Cadmium	0.050	ug/L	-	03/03/2017
Calcium	351	mg/L	-	03/03/2017
Chromium	0.50	ug/L	-	03/03/2017
Copper	0.50	ug/L	-	03/03/2017
Depth	4.1	m	-	03/03/2017
Electrical Conductivity at 25 degC	15,900	uS/cm	-	03/03/2017
Iron	8,110	ug/L	-	03/03/2017
Lead	0.10	ug/L	-	03/03/2017
Magnesium	188	mg/L	-	03/03/2017
Manganese	1,090	ug/L	-	03/03/2017
Nickel	0.0014	ug/L	-	03/03/2017
Potassium	100	mg/L	-	03/03/2017
Selenium	0.50	ug/L	-	03/03/2017
Zinc	15.0	ug/L	-	03/03/2017
pH	6.3		-	03/03/2017

Eraring Ash Dam Ground Water Monitoring MW06

EPA Identification no. 23 - MW06

<u>Name</u>	<u>Reading</u>	<u>Units</u>	<u>Licence Limit</u>	<u>Date</u>
Arsenic	6.9	ug/L	-	03/03/2017
Cadmium	0.050	ug/L	-	03/03/2017
Calcium	521	mg/L	-	03/03/2017
Chromium	0.60	ug/L	-	03/03/2017
Copper	0.50	ug/L	-	03/03/2017
Depth	1.6	m	-	03/03/2017
Electrical Conductivity at 25 degC	23,300	uS/cm	-	03/03/2017
Iron	12,800	ug/L	-	03/03/2017
Lead	0.10	ug/L	-	03/03/2017
Magnesium	256	mg/L	-	03/03/2017
Manganese	384	ug/L	-	03/03/2017
Nickel	0.0008	ug/L	-	03/03/2017
Potassium	118	mg/L	-	03/03/2017
Selenium	0.70	ug/L	-	03/03/2017
Zinc	2.0	ug/L	-	03/03/2017
pH	6.6	-	-	03/03/2017

Eraring Cooling Water Outlet Canal

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

- The 98.5% limit specified for temperature in the outlet canal means during normal electricity supply conditions, cooling water may be discharged over 35 degC but up to a max temperature of 38.5 degC for up to 181 hrs over the reporting period.

<u>Name</u>	<u>Reading</u>	<u>Units</u>	<u>Licence Limit</u>	<u>Date</u>
Copper	2.20	ug/L	5	02/03/2017
Iron	8.0	ug/L	300	02/03/2017
Selenium	1.00	ug/L	2	02/03/2017
Temperature - Average	32.7	deg C	35	Mar 2017
Temperature - Minimum	27.7	deg C	35	Mar 2017
Temperature - Maximum	34.9	deg C	35	Mar 2017
Maximum Daily Discharge from Ash Dam	34.3	ML	150	Mar 2017
Monthly Discharge from Ash Dam	485	ML	-	Mar 2017

Emergency Discharge - Toe Drain Pond

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

<u>Name</u>	<u>Reading</u>	<u>Units</u>	<u>Licence Limit</u>	<u>Date</u>
Nitrite and Nitrate as N	351	ug/L	-	02/03/2017
Phosphorus as P - Total	13.0	ug/L	-	02/03/2017
pH	6.8	-	-	02/03/2017