



## Eraring Power Station - EPA Licence 1429

Rocky Point Rd, Morristown NSW 2264

## Coal Unloader - EPA Licence 4297

Eraring Coal Delivery Facility, Construction Rd, Dora Creek NSW 2264

## Environmental Monitoring Data

November 2013



## Unit 1 Boiler Continuous Emission Monitoring Summary

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

- Unit out of service from 1st - 8th.

13th - 18th, SOx and NOx instruments out of service due to lightning strike.

	NOX			Particulates			SOX		
	ppm (7% O2)			mg/m3			ppm (7% O2)		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 - Nov	0	0	0	0	0	0	0	0	0
2 - Nov	0	0	0	0	0	0	0	0	0
3 - Nov	0	0	0	0	0	0	0	0	0
4 - Nov	0	0	0	0	0	0	0	0	0
5 - Nov	0	0	0	0	0	0	0	0	0
6 - Nov	0	0	0	0	0	0	0	0	0
7 - Nov	0	0	0	0	0	0	0	0	0
8 - Nov	0	0	0	0	0	0	0	0	0
9 - Nov	145	165	126	15	18	13	231	248	192
10 - Nov	172	185	149	13	14	13	216	246	188
11 - Nov	162	181	127	16	19	14	201	216	177
12 - Nov	132	149	118	20	22	17	198	218	189
13 - Nov	0	0	0	14	19	12	0	0	0
14 - Nov	0	0	0	15	19	13	0	0	0
15 - Nov	0	0	0	14	18	11	0	0	0
16 - Nov	0	0	0	14	15	12	0	0	0
17 - Nov	0	0	0	16	20	14	0	0	0
18 - Nov	0	0	0	14	16	11	0	0	0
19 - Nov	189	204	167	18	22	14	232	256	196
20 - Nov	154	215	91	15	20	10	216	256	156
21 - Nov	193	216	174	17	21	13	216	251	180
22 - Nov	199	228	173	17	21	12	206	219	196
23 - Nov	199	245	165	17	20	13	187	210	169
24 - Nov	195	247	167	15	19	13	189	201	177
25 - Nov	215	255	176	17	22	13	173	189	155
26 - Nov	186	227	157	17	21	14	189	233	156
27 - Nov	173	201	146	15	20	12	194	233	172
28 - Nov	171	202	133	13	19	10	188	214	166
29 - Nov	168	183	150	13	16	10	207	243	182
30 - Nov	182	188	176	14	16	12	228	245	197

## Unit 2 Boiler Continuous Emission Monitoring Summary

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

- Unit out of service from 16th - 22nd.

10th - 25th, SOx instruments out of service due to lightning strike on Oxygen monitor

13th - 25th, NOx instruments out of service due to lightning strike on Oxygen monitor

	NOX			Particulates			SOX		
	ppm (7% O2)			mg/m3			ppm (7% O2)		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 - Nov	131	141	108	11	13	8	167	193	144
2 - Nov	154	187	119	9	10	7	170	219	122
3 - Nov	156	190	101	8	10	7	158	169	138
4 - Nov	122	138	112	9	11	8	155	171	145
5 - Nov	124	152	101	9	11	8	170	207	125
6 - Nov	156	188	105	9	14	7	171	181	145
7 - Nov	157	205	105	10	14	8	141	175	105
8 - Nov	131	150	103	9	13	7	172	231	104
9 - Nov	118	132	101	8	9	6	156	211	108
10 - Nov	120	129	102	8	9	8	0	0	0
11 - Nov	115	126	103	9	13	8	0	0	0
12 - Nov	125	133	114	10	14	8	0	0	0
13 - Nov	0	0	0	8	10	7	0	0	0
14 - Nov	0	0	0	8	9	7	0	0	0
15 - Nov	0	0	0	8	12	7	0	0	0
16 - Nov	0	0	0	0	0	0	0	0	0
17 - Nov	0	0	0	0	0	0	0	0	0
18 - Nov	0	0	0	0	0	0	0	0	0
19 - Nov	0	0	0	0	0	0	0	0	0
20 - Nov	0	0	0	0	0	0	0	0	0
21 - Nov	0	0	0	0	0	0	0	0	0
22 - Nov	0	0	0	0	0	0	0	0	0
23 - Nov	0	0	0	6	13	6	0	0	0
24 - Nov	0	0	0	9	17	7	0	0	0
25 - Nov	0	0	0	14	18	11	0	0	0
26 - Nov	140	175	118	15	19	13	180	247	161
27 - Nov	176	224	136	15	19	13	169	226	123
28 - Nov	162	197	131	15	18	13	153	200	116
29 - Nov	143	167	129	13	17	11	128	188	102
30 - Nov	152	159	146	13	16	12	162	179	149

## Unit 3 Boiler Continuous Emission Monitoring Summary

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

- Unit out of service from 10th - 15th

	NOX			Particulates			SOX		
	ppm (7% O2)			mg/m3			ppm (7% O2)		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 - Nov	142	194	115	8	11	6	182	192	138
2 - Nov	139	206	119	8	13	5	198	225	150
3 - Nov	161	217	131	8	12	4	178	192	145
4 - Nov	164	192	139	10	14	9	187	211	141
5 - Nov	154	197	136	10	13	9	218	258	152
6 - Nov	147	193	129	10	13	8	197	221	158
7 - Nov	149	187	79	8	14	6	199	229	101
8 - Nov	158	169	134	7	11	4	208	252	172
9 - Nov	161	179	137	8	13	5	197	217	156
10 - Nov	0	0	0	0	0	0	0	0	0
11 - Nov	0	0	0	0	0	0	0	0	0
12 - Nov	0	0	0	0	0	0	0	0	0
13 - Nov	0	0	0	0	0	0	0	0	0
14 - Nov	0	0	0	0	0	0	0	0	0
15 - Nov	0	0	0	0	0	0	0	0	0
16 - Nov	160	165	155	3	8	2	102	102	102
17 - Nov	193	214	156	8	11	6	156	189	119
18 - Nov	172	219	141	7	11	5	183	213	134
19 - Nov	134	150	119	7	12	5	190	242	133
20 - Nov	183	241	139	6	9	4	205	221	170
21 - Nov	193	235	141	6	10	4	201	220	158
22 - Nov	202	240	132	7	11	6	189	206	152
23 - Nov	194	246	152	7	12	6	176	196	151
24 - Nov	174	192	140	7	11	6	168	177	139
25 - Nov	219	257	158	8	11	5	152	167	139
26 - Nov	209	282	157	8	12	6	160	204	129
27 - Nov	172	206	143	8	11	6	175	198	146
28 - Nov	200	239	146	6	10	4	166	184	153
29 - Nov	145	180	115	7	14	5	176	195	156
30 - Nov	149	187	124	7	11	6	196	231	124

## Unit 4 Boiler Continuous Emission Monitoring Summary

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

- Unit out of service from 20th - 28th

	NOX			Particulates			SOX		
	ppm (7% O2)			mg/m3			ppm (7% O2)		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 - Nov	177	189	168	1	5	2	212	238	185
2 - Nov	176	188	159	1	5	3	225	238	214
3 - Nov	181	191	160	1	4	3	207	224	184
4 - Nov	179	195	170	2	6	3	200	215	188
5 - Nov	165	193	141	2	6	4	231	266	198
6 - Nov	169	193	154	3	7	3	224	243	211
7 - Nov	201	266	156	4	6	2	247	289	216
8 - Nov	218	266	189	2	6	2	274	282	265
9 - Nov	193	223	158	3	5	1	253	280	221
10 - Nov	202	215	190	4	7	3	219	254	120
11 - Nov	202	215	185	4	7	2	200	223	155
12 - Nov	223	253	164	3	7	2	252	284	210
13 - Nov	191	216	137	2	5	1	203	249	166
14 - Nov	168	194	132	2	5	1	202	252	173
15 - Nov	160	183	137	2	6	1	201	240	175
16 - Nov	147	164	125	3	6	2	189	250	149
17 - Nov	155	166	133	3	6	2	168	207	141
18 - Nov	137	165	124	2	4	2	185	214	140
19 - Nov	142	151	129	4	23	1	193	203	182
20 - Nov	0	0	0	0	0	0	0	0	0
21 - Nov	0	0	0	0	0	0	0	0	0
22 - Nov	0	0	0	0	0	0	0	0	0
23 - Nov	0	0	0	0	0	0	0	0	0
24 - Nov	0	0	0	0	0	0	0	0	0
25 - Nov	0	0	0	0	0	0	0	0	0
26 - Nov	0	0	0	0	0	0	0	0	0
27 - Nov	0	0	0	0	0	0	0	0	0
28 - Nov	0	0	0	0	0	0	0	0	0
29 - Nov	184	198	148	2	5	2	201	240	175
30 - Nov	192	210	181	2	6	3	235	278	196

## Dora Creek Ambient Air Monitoring Summary

*EPA Identification no. 16 - Ambient air monitoring station at Dora Creek - alongside oval at Dora Creek*

	Fluoride Gaseous	Fluoride Particulate	Fluoride Total	Nitrogen Dioxide (NO <sub>2</sub> )	Nitrogen Monoxide (NO)	Nitrogen Oxides (NO <sub>x</sub> )	Sulphur Dioxide (SO <sub>2</sub> )
	ug/m3	ug/m3	ug/m3	pphm	pphm	pphm	pphm
Maximum	0.092	0.010	0.095	2.700	0.700	2.800	0.100
Average	0.032	0.006	0.039	0.933	0.070	0.990	0.007
Minimum	0.002	0.003	0.012	0.200	0.000	0.200	0.000
90th Percentile	0.092	0.010	0.095	2.100	0.150	2.500	0.000
Std Deviation	0.036	0.003	0.034	0.672	0.164	0.763	0.025

	Rainfall	Sigma Theta at 10m	Solar Radiation	Temperatur e at 10m	Temperatur e at 2m	Wind Direction at 10m	Wind Speed at 10m
	mm	deg	W/m2	degC	degC	deg	m/s
Maximum	33.02	39.11	336.01	24.03	24.52	242.76	3.90
Average	3.23	25.70	217.63	18.31	18.78	194.85	1.96
Minimum	0.00	18.73	33.83	14.36	14.89	107.15	0.91
90th Percentile	8.38	31.40	323.79	21.99	22.72	224.66	2.90
Std Deviation	7.48	4.39	91.90	2.33	2.35	27.00	0.65



## Marks Point Ambient Air Monitoring Summary

EPA Identification no. 15 - Ambient air monitoring station at Marks Point primary school

	Nitrogen Dioxide (NO <sub>2</sub> )	Nitrogen Monoxide (NO)	Nitrogen Oxides (NO <sub>x</sub> )	Sulphur Dioxide (SO <sub>2</sub> )
	pphm	pphm	pphm	pphm
Maximum	1.585	0.265	1.635	1.625
Average	0.408	0.031	0.436	0.170
Minimum	0.070	0.005	0.085	0.005
90th Percentile	1.225	0.050	1.490	0.180
Std Deviation	0.426	0.046	0.449	0.278

	Relative Humidity	Sigma Theta at 2m	Temperatur e at 2m	Wind Direction at 2m	Wind Speed at 2m
	%	deg	degC	deg	m/s
Maximum	96.16	37.85	24.81	259.59	3.31
Average	77.42	25.31	19.97	164.64	2.18
Minimum	51.69	19.27	15.90	64.69	1.21
90th Percentile	91.45	33.73	23.53	214.26	3.03
Std Deviation	10.95	4.40	1.91	40.14	0.51

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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	0.0033	mg/m3	0.20	12/11/2012
Carbon Dioxide (Wet)	11.0	%	-	12/11/2012
Carbon Monoxide	5.1	mg/m3	-	12/11/2012
Chlorine	0.53	mg/m3	300	12/11/2012
Copper	0.0017	mg/m3	-	12/11/2012
Dry Gas Density	0.93	kg/m3	-	12/11/2012
Fluoride As HF - Total	18.6	mg/m3	50	12/11/2012
Hazardous Substances (Metals) - Total	0.07	mg/m3	1.00	12/11/2012
Hydrogen Chloride	4.0	mg/m3	100.0	12/11/2012
Mercury	0.0013	mg/m3	0.200	12/11/2012
Moisture	8.0	%	-	12/11/2012
Particulates - Total	10.2	mg/m3	50	12/11/2012
Stack Gas Molecular Weight	29	kg/k-mole	-	12/11/2012
Temperature	109.0	degC	-	12/11/2012
Velocity	11.8	m/sec	-	12/11/2012
Volatile Organic Compounds (VOC) - Total	5.4	mg/m3	-	12/11/2012
Volumetric Flow Rate (Dry At STP)	280	m3/sec	-	12/11/2012



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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>Reading</u>	<u>Units</u>	<u>Licence Limit</u>	<u>Date</u>
Cadmium	0.0011	mg/m3	0.20	06/05/2013
Carbon Dioxide (Wet)	10.4	%	-	06/05/2013
Carbon Monoxide	0.90	mg/m3	-	06/05/2013
Chlorine	0.30	mg/m3	300	06/05/2013
Copper	0.0011	mg/m3	-	06/05/2013
Dry Gas Density	0.93	kg/m3	-	06/05/2013
Fluoride As HF - Total	6.4	mg/m3	50	06/05/2013
Hazardous Substances (Metals) - Total	0.025	mg/m3	1.00	06/05/2013
Hydrogen Chloride	3.2	mg/m3	100.0	06/05/2013
Mercury	0.0022	mg/m3	0.200	06/05/2013
Moisture	7.5	%	-	06/05/2013
Particulates - Total	3.8	mg/m3	50	06/05/2013
Stack Gas Molecular Weight	29	kg/k-mole	-	06/05/2013
Temperature	108.0	degC	-	06/05/2013
Velocity	12.2	m/sec	-	06/05/2013
Volatile Organic Compounds (VOC) - Total	5.4	mg/m3	-	06/05/2013
Volumetric Flow Rate (Dry At STP)	293	m3/sec	-	06/05/2013

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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>Reading</u>	<u>Units</u>	<u>Licence Limit</u>	<u>Date</u>
Cadmium	0.0011	mg/m3	0.20	05/08/2013
Carbon Dioxide (Wet)	10.3	%	-	05/08/2013
Carbon Monoxide	9.9	mg/m3	-	05/08/2013
Chlorine	0.30	mg/m3	200	05/08/2013
Copper	0.0011	mg/m3	-	05/08/2013
Dry Gas Density	0.94	kg/m3	-	05/08/2013
Fluoride As HF - Total	9.6	mg/m3	50	05/08/2013
Hazardous Substances (Metals) - Total	0.06	mg/m3	1.00	05/08/2013
Hydrogen Chloride	4.1	mg/m3	100.0	05/08/2013
Mercury	0.0007	mg/m3	0.200	05/08/2013
Moisture	6.7	%	-	05/08/2013
Particulates - Total	15.0	mg/m3	50	05/08/2013
Stack Gas Molecular Weight	29	kg/k-mole	-	05/08/2013
Temperature	103.0	degC	-	05/08/2013
Velocity	11.1	m/sec	-	05/08/2013
Volatile Organic Compounds (VOC) - Total	5.7	mg/m3	-	05/08/2013
Volumetric Flow Rate (Dry At STP)	270	m3/sec	-	05/08/2013

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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	0.0020	mg/m3	0.20	14/01/2013
Carbon Dioxide (Wet)	10.6	%	-	14/01/2013
Carbon Monoxide	7.4	mg/m3	-	14/01/2013
Chlorine	0.59	mg/m3	200	14/01/2013
Copper	0.0020	mg/m3	-	14/01/2013
Dry Gas Density	0.91	kg/m3	-	14/01/2013
Fluoride As HF - Total	12.3	mg/m3	50	14/01/2013
Hazardous Substances (Metals) - Total	0.07	mg/m3	1.00	14/01/2013
Hydrogen Chloride	13.2	mg/m3	100.0	14/01/2013
Mercury	0.0012	mg/m3	0.200	14/01/2013
Moisture	7.8	%	-	14/01/2013
Particulates - Total	18.9	mg/m3	50	14/01/2013
Stack Gas Molecular Weight	29	kg/k-mole	-	14/01/2013
Temperature	112.0	degC	-	14/01/2013
Velocity	9.4	m/sec	-	14/01/2013
Volatile Organic Compounds (VOC) - Total	4.8	mg/m3	-	14/01/2013
Volumetric Flow Rate (Dry At STP)	232	m3/sec	-	14/01/2013

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## Eraring Coal Unloader Dust Gauges

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*EPA Identification no. 18 - Depositional dust monitoring within 1 km of the coal handling operations*

	Deposited Matter		
	g/m2/month		
	Ash	Combustible	Insolubles
<b>U1</b>	0.60	0.50	1.10
<b>U2</b>	1.20	0.30	1.50
<b>U3</b>	0.60	0.70	1.30
<b>U4</b>	1.10	0.90	2.00
<b>U5</b>	0.80	0.70	1.50
<b>U6</b>	2.20	1.10	3.30

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## Eraring Due Diligence Dust Gauges

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*EPA Identification no. 18 - Depositional dust monitoring within 1 km of the coal handling operations*

	Deposited Matter		
	g/m2/month		
	Ash	Combustible	Insolubles
<b>E1</b>	0.90	0.40	1.30
<b>E2</b>	0.60	0.60	1.20
<b>E3</b>	1.40	0.70	2.10
<b>E4</b>	1.30	0.40	1.70
<b>E5</b>	0.60	0.50	1.10
<b>E6</b>	0.60	0.70	1.30

## 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
<b>Depth/Air</b>	24.10					
<b>010cm</b>	21.57	7.89	41.12	95.50	6.54	2.50
<b>050cm</b>	21.57	7.89	41.12	98.10	6.71	
<b>100cm</b>	21.55	7.89	41.12	98.40	6.73	
<b>150cm</b>	21.55	7.89	41.01	100.40	6.87	
<b>200cm</b>	20.70	7.89	41.03	101.00	7.02	
<b>250cm</b>	20.41	7.88	41.24	100.70	7.03	
<b>Bottom</b>	20.42	7.88	41.22	100.90	7.04	

## 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	
	degC		ppt	%	mg/L
<b>010cm</b>	22.20	7.92	41.12	96.30	6.52
<b>050cm</b>	22.20	7.92	41.11	98.40	6.66
<b>100cm</b>	22.15	7.92	40.99	96.90	6.57
<b>150cm</b>	21.91	7.92	41.11	99.50	6.77
<b>200cm</b>	21.68	7.93	41.06	97.20	6.64
<b>250cm</b>	21.63	7.92	41.10	98.50	6.74
<b>300cm</b>	21.50	7.92	41.07	96.70	6.63
<b>350cm</b>	21.52	7.92	41.09	98.10	6.72
<b>400cm</b>	21.57	7.92	41.09	97.00	6.64
<b>450cm</b>	21.53	7.92	41.09	97.00	6.65
<b>500cm</b>	21.53	7.92	41.09	97.50	6.68
<b>550cm</b>	21.51	7.92	41.10	98.40	6.74
<b>600cm</b>	21.50	7.92	41.09	97.50	6.68
<b>650cm</b>	21.41	7.92	41.05	97.90	6.72
<b>700cm</b>	21.37	7.90	41.10	96.90	6.66
<b>750cm</b>	21.34	7.90	40.99	94.40	6.49
<b>Bottom</b>	21.33	7.89	41.09	89.50	6.15

## 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	25.60					
010cm	20.81	7.99	40.73	98.20	6.83	3.50
050cm	20.57	7.99	40.81	96.50	6.73	
100cm	20.47	7.98	40.81	95.70	6.69	
150cm	20.40	7.98	40.83	97.10	6.80	
200cm	20.38	7.98	40.83	98.50	6.90	
250cm	20.34	7.99	40.81	98.20	6.88	
300cm	20.31	7.99	40.83	96.70	6.78	
350cm	20.30	7.98	40.83	97.00	6.81	
400cm	20.26	7.98	40.81	98.80	6.93	
450cm	20.23	7.97	40.81	97.80	6.87	
500cm	20.20	7.97	40.79	98.00	6.88	
550cm	20.16	7.97	40.80	97.80	6.88	
600cm	20.10	7.97	40.80	97.20	6.84	
650cm	20.05	7.96	40.77	97.50	6.87	
700cm	20.02	7.96	40.76	97.40	6.87	
750cm	19.95	7.96	40.77	97.40	6.88	
800cm	19.96	7.96	40.76	96.20	6.79	
850cm	19.93	7.95	40.76	96.00	6.78	
900cm	19.91	7.94	40.63	95.20	6.73	
950cm	19.91	7.93	40.73	95.20	6.73	
Bottom	19.91	7.93	40.60	94.00	6.73	



## 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	24.10					
010cm	22.64	7.88	41.13	104.30	7.00	2.30
050cm	22.64	7.89	41.14	109.30	7.34	
100cm	22.62	7.89	41.15	109.60	7.36	
150cm	22.57	7.90	41.16	111.70	7.51	
200cm	22.56	7.90	41.15	113.50	7.64	
250cm	22.53	7.88	41.13	110.70	7.45	
300cm	22.37	7.90	41.00	111.90	7.56	
350cm	21.73	7.90	41.04	109.80	7.49	
400cm	21.47	7.90	41.05	103.50	7.10	
450cm	21.51	7.90	41.06	102.70	7.04	
500cm	21.48	7.90	41.03	104.70	7.18	
550cm	21.59	7.87	41.02	98.30	6.73	
Bottom	21.48	7.90	41.03	101.80	6.98	

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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*

<u>Name</u>	<u>Reading</u>	<u>Units</u>	<u>Licence Limit</u>	<u>Date</u>
Cadmium	0.20	ug/L	-	07/11/2013
Copper	0.50	ug/L	-	07/11/2013
Iron	30	ug/L	-	07/11/2013
Lead	0.40	ug/L	-	07/11/2013
Manganese	28	ug/L	-	07/11/2013
Nitrite and Nitrate as N	46	ug/L	-	07/11/2013
Phosphorus Reactive as P - Total	235	ug/L	-	07/11/2013
Phosphorus as P - Total	306	ug/L	-	07/11/2013
Selenium	16.0	ug/L	-	07/11/2013
Suspended Solids (SS)	6.0	mg/L	-	07/11/2013
Zinc	5.0	ug/L	-	07/11/2013
pH	9.1	-	-	07/11/2013

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## Eraring Cooling Water Inlet Canal

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*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	3.00	ug/L	-	07/11/2013
Iron	164.0	ug/L	-	07/11/2013
Selenium	1.00	ug/L	-	07/11/2013
Temperature - Average	22.7	deg C	-	Nov 2013
Temperature - Minimum	20.4	deg C	-	Nov 2013
Temperature - Maximum	25.7	deg C	-	Nov 2013

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## Eraring Cooling Water Outlet Canal

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

<u>Name</u>	<u>Reading</u>	<u>Units</u>	<u>Licence Limit</u>	<u>Date</u>
Copper	3.00	ug/L	5	07/11/2013
Iron	131.0	ug/L	300	07/11/2013
Selenium	1.00	ug/L	2	07/11/2013
Temperature - Average	27.8	deg C	35	Nov 2013
Temperature - Minimum	23.5	deg C	35	Nov 2013
Temperature - Maximum	34.2	deg C	35	Nov 2013
Maximum Daily Discharge from Ash Dam	21.3	ML	50	Nov 2013
Monthly Discharge from Ash Dam	267	ML	-	Nov 2013

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## Emergency Discharge - Toe Drain Pond

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*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	60	ug/L	-	07/11/2013
Phosphorus as P - Total	146	ug/L	-	07/11/2013
pH	6.8	-	-	07/11/2013