



Eraring Power Station - EPA Licence 1429  
Rocky Point Rd, Dora Creek NSW 2264

**Environmental Monitoring Data January 2022**



### 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 4, 13, 20 and 24 January 2022*

*NOx Unit Out of Service 22, 24-25 January 2022*

*SO2 Unit Out of Service 15-18 January 2022*

	NOx			SO <sub>2</sub>		
	mg/Nm <sup>3</sup> (7% O <sub>2</sub> )			mg/Nm <sup>3</sup> (7% O <sub>2</sub> )		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 January	381	417	320	507	667	416
2 January	400	516	252	501	556	421
3 January	343	478	296	457	526	342
4 January	-	-	-	-	-	-
5 January	307	339	268	395	476	291
6 January	300	355	163	359	419	272
7 January	312	342	262	384	519	305
8 January	337	421	290	479	684	350
9 January	463	532	376	377	593	302
10 January	457	553	388	520	716	377
11 January	378	435	322	525	616	380
12 January	379	492	207	444	548	351
13 January	-	-	-	-	-	-
14 January	340	401	293	509	591	402
15 January	389	461	324	503	587	462
16 January	356	392	303	-	-	-
17 January	368	446	291	-	-	-
18 January	422	611	346	-	-	-
19 January	497	632	357	241	321	188
20 January	-	-	-	-	-	-
21 January	492	601	392	297	371	223
22 January	-	-	-	293	433	196
23 January	-	-	-	300	462	231
24 January	-	-	-	-	-	-
25 January	-	-	-	454	531	397
26 January	363	436	296	417	462	366
27 January	390	455	323	434	571	321
28 January	396	499	324	489	576	410
29 January	348	496	251	501	601	403
30 January	385	446	333	564	706	461
31 January	388	440	346	643	703	547

**Unit 1B Boiler Continuous Emission Monitoring Summary**

*EPA Identification no.7 - Air emissions monitoring, Boiler 1 stack discharge to air*

*Unit 1 B Out of Service 6, 13, 20 and 24 January 2022*

*NOx Unit Out of Service 9-10, 19, 21-23 and 25 January 2022*

*SO2 Unit Out of Service 15-16 January 2022*

	NOx			SO <sub>2</sub>		
	mg/Nm <sup>3</sup> (7% O <sub>2</sub> )			mg/Nm <sup>3</sup> (7% O <sub>2</sub> )		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 January	364	428	306	625	654	598
2 January	406	595	257	627	657	581
3 January	321	432	286	619	660	587
4 January	312	356	266	613	669	554
5 January	282	315	256	612	672	540
6 January	-	-	-	-	-	-
7 January	281	307	247	633	688	587
8 January	311	372	276	617	693	555
9 January	-	-	-	598	651	530
10 January	-	-	-	627	705	555
11 January	361	423	301	599	728	524
12 January	366	469	296	586	635	528
13 January	-	-	-	-	-	-
14 January	319	392	265	586	649	523
15 January	376	483	286	-	-	-
16 January	343	379	293	-	-	-
17 January	345	441	278	522	572	490
18 January	396	574	335	514	546	475
19 January	-	-	-	485	525	446
20 January	-	-	-	-	-	-
21 January	-	-	-	517	545	490
22 January	-	-	-	555	572	514
23 January	-	-	-	544	579	500
24 January	-	-	-	-	-	-
25 January	-	-	-	547	557	538
26 January	329	405	250	535	564	502
27 January	360	415	286	621	763	524
28 January	367	447	310	584	689	546
29 January	346	478	263	570	624	490
30 January	391	440	297	617	691	577
31 January	352	378	309	630	672	593

### 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 2 4, 10, 13 and 24 January 2022  
 NOx Unit Out of Service 7-9, 16-17 and 22-23 January 2022  
 SO2 Unit Out of Service 1, 5 and 20 January 2022

	NOx			SO <sub>2</sub>		
	mg/Nm <sup>3</sup> (7% O <sub>2</sub> )			mg/Nm <sup>3</sup> (7% O <sub>2</sub> )		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 January	470	612	371	-	-	-
2 January	-	-	-	-	-	-
3 January	-	-	-	-	-	-
4 January	-	-	-	-	-	-
5 January	305	331	280	-	-	-
6 January	338	402	293	606	643	574
7 January	-	-	-	629	680	585
8 January	-	-	-	599	693	527
9 January	-	-	-	554	595	489
10 January	-	-	-	-	-	-
11 January	478	561	372	573	635	488
12 January	534	612	425	525	587	465
13 January	-	-	-	-	-	-
14 January	394	522	299	539	620	486
15 January	372	437	344	527	547	512
16 January	-	-	-	511	539	478
17 January	-	-	-	482	520	440
18 January	414	613	345	486	528	437
19 January	605	748	447	431	500	375
20 January	444	739	285	-	-	-
21 January	395	516	340	462	484	436
22 January	-	-	-	490	518	469
23 January	-	-	-	514	529	488
24 January	-	-	-	-	-	-
25 January	331	415	285	480	515	429
26 January	435	531	274	405	443	372
27 January	406	537	299	441	535	385
28 January	407	539	303	486	526	463
29 January	392	510	319	444	493	391
30 January	392	496	314	495	567	435
31 January	398	438	325	520	564	464



## 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 13, 19, 24 and 28 January 2022  
 NOx Unit Out of Service 8-10, 22-23 and 25 January 2022  
 SO<sub>2</sub> Unit Out of Service 20-21 January 2022

	NOx			SO <sub>2</sub>		
	mg/Nm <sup>3</sup> (7% O <sub>2</sub> )			mg/Nm <sup>3</sup> (7% O <sub>2</sub> )		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 January	420	617	268	517	584	450
2 January	373	543	265	528	597	467
3 January	334	381	254	526	582	438
4 January	307	353	250	508	567	434
5 January	267	297	225	476	523	435
6 January	287	336	244	521	562	466
7 January	269	314	212	506	560	462
8 January	-	-	-	524	631	439
9 January	-	-	-	515	571	443
10 January	-	-	-	490	583	451
11 January	383	442	310	487	614	416
12 January	409	555	316	453	532	389
13 January	-	-	-	-	-	-
14 January	322	377	260	471	561	391
15 January	348	421	314	503	524	485
16 January	378	463	303	468	546	365
17 January	373	449	289	404	493	340
18 January	331	555	254	413	455	346
19 January	-	-	-	-	-	-
20 January	411	784	237	-	-	-
21 January	347	503	255	-	-	-
22 January	-	-	-	464	528	373
23 January	-	-	-	495	559	401
24 January	-	-	-	-	-	-
25 January	-	-	-	415	468	388
26 January	529	665	297	471	496	430
27 January	408	633	235	441	519	346
28 January	-	-	-	-	-	-
29 January	333	560	233	416	469	343
30 January	334	488	252	455	500	401
31 January	301	330	261	441	511	385

**Unit 3A Boiler Continuous Emission Monitoring Summary**

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

*Unit 3A Out of Service 14-17 and 28-31 January 2022*

*NOX Unit Out of Service 1-6 and 22 January 2022*

*SO2 Unit Out of Service 13 and 18 January 2022*

	NOx			SO <sub>2</sub>		
	mg/Nm <sup>3</sup> (7% O <sub>2</sub> )			mg/Nm <sup>3</sup> (7% O <sub>2</sub> )		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 January	-	-	-	671	701	635
2 January	-	-	-	663	694	618
3 January	-	-	-	671	701	637
4 January	-	-	-	662	687	627
5 January	-	-	-	620	651	582
6 January	-	-	-	690	759	629
7 January	348	419	273	695	765	655
8 January	405	464	319	686	786	617
9 January	431	490	272	640	688	580
10 January	402	502	279	640	715	589
11 January	404	542	321	646	704	578
12 January	426	489	358	623	683	570
13 January	396	490	312	-	-	-
14 January	-	-	-	-	-	-
15 January	-	-	-	-	-	-
16 January	-	-	-	-	-	-
17 January	-	-	-	-	-	-
18 January	307	388	277	-	-	-
19 January	389	457	340	539	578	475
20 January	387	443	348	540	574	444
21 January	420	458	377	559	581	524
22 January	-	-	-	582	602	530
23 January	312	427	272	605	630	584
24 January	304	347	249	584	612	569
25 January	310	364	274	581	592	569
26 January	369	419	285	564	582	535
27 January	378	456	329	605	702	524
28 January	-	-	-	-	-	-
29 January	-	-	-	-	-	-
30 January	-	-	-	-	-	-
31 January	-	-	-	-	-	-

### Unit 3B Boiler Continuous Emission Monitoring Summary

*EPA Identification no. 12 - Air emissions monitoring, Boiler 3 stack discharge to air  
Unit 3B Out of Service 13 and 28-31 January 2022  
SO2 Unit Out of Service 2-6 January 2022*

	NOx			SO <sub>2</sub>		
	mg/Nm <sup>3</sup> (7% O <sub>2</sub> )			mg/Nm <sup>3</sup> (7% O <sub>2</sub> )		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 January	383	468	296	667	696	628
2 January	344	404	288	-	-	-
3 January	366	399	305	-	-	-
4 January	398	457	322	-	-	-
5 January	337	371	296	-	-	-
6 January	345	402	295	-	-	-
7 January	337	397	277	669	737	623
8 January	394	450	320	659	750	597
9 January	422	474	295	614	654	546
10 January	410	517	290	630	689	577
11 January	393	519	317	633	697	561
12 January	317	452	228	462	618	392
13 January	-	-	-	-	-	-
14 January	377	476	320	605	653	561
15 January	388	450	325	572	588	554
16 January	338	497	284	559	582	544
17 January	372	485	301	552	582	485
18 January	308	365	271	535	575	482
19 January	366	403	313	507	536	439
20 January	354	402	307	509	551	415
21 January	385	420	353	531	552	511
22 January	324	378	286	557	582	538
23 January	309	418	274	580	603	558
24 January	297	334	258	567	588	552
25 January	307	345	279	573	582	563
26 January	355	390	318	550	577	524
27 January	359	430	306	596	697	505
28 January	-	-	-	-	-	-
29 January	-	-	-	-	-	-
30 January	-	-	-	-	-	-
31 January	-	-	-	-	-	-

### 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 1-23 January 2022*

	NO <sub>x</sub>			SO <sub>2</sub>		
	mg/Nm <sup>3</sup> (7% O <sub>2</sub> )			mg/Nm <sup>3</sup> (7% O <sub>2</sub> )		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 January	-	-	-	-	-	-
2 January	-	-	-	-	-	-
3 January	-	-	-	-	-	-
4 January	-	-	-	-	-	-
5 January	-	-	-	-	-	-
6 January	-	-	-	-	-	-
7 January	-	-	-	-	-	-
8 January	-	-	-	-	-	-
9 January	-	-	-	-	-	-
10 January	-	-	-	-	-	-
11 January	-	-	-	-	-	-
12 January	-	-	-	-	-	-
13 January	-	-	-	-	-	-
14 January	-	-	-	-	-	-
15 January	-	-	-	-	-	-
16 January	-	-	-	-	-	-
17 January	-	-	-	-	-	-
18 January	-	-	-	-	-	-
19 January	-	-	-	-	-	-
20 January	-	-	-	-	-	-
21 January	-	-	-	-	-	-
22 January	-	-	-	-	-	-
23 January	-	-	-	-	-	-
24 January	389	410	347	560	600	522
25 January	389	427	333	563	582	521
26 January	388	467	304	539	577	505
27 January	415	500	321	583	672	515
28 January	330	384	279	595	685	515
29 January	345	384	304	544	584	519
30 January	364	426	289	601	678	546
31 January	372	407	335	614	685	550



**Unit 4B Boiler Continuous Emission Monitoring Summary**

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

*Unit 4B Out of Service 1-23 January 2022*

*NOx Unit Out of Service 25 January 2022*

	NOx			SO <sub>2</sub>		
	mg/Nm <sup>3</sup> (7% O <sub>2</sub> )			mg/Nm <sup>3</sup> (7% O <sub>2</sub> )		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 January	-	-	-	-	-	-
2 January	-	-	-	-	-	-
3 January	-	-	-	-	-	-
4 January	-	-	-	-	-	-
5 January	-	-	-	-	-	-
6 January	-	-	-	-	-	-
7 January	-	-	-	-	-	-
8 January	-	-	-	-	-	-
9 January	-	-	-	-	-	-
10 January	-	-	-	-	-	-
11 January	-	-	-	-	-	-
12 January	-	-	-	-	-	-
13 January	-	-	-	-	-	-
14 January	-	-	-	-	-	-
15 January	-	-	-	-	-	-
16 January	-	-	-	-	-	-
17 January	-	-	-	-	-	-
18 January	-	-	-	-	-	-
19 January	-	-	-	-	-	-
20 January	-	-	-	-	-	-
21 January	-	-	-	-	-	-
22 January	-	-	-	-	-	-
23 January	-	-	-	-	-	-
24 January	401	465	314	595	646	509
25 January	-	-	-	585	620	388
26 January	432	541	316	576	632	477
27 January	452	530	340	612	720	441
28 January	354	422	310	655	710	585
29 January	382	510	303	599	628	566
30 January	425	518	364	666	779	463
31 January	465	520	392	687	742	557

**Unit 1 Boiler Emission Test Results**

*EPA Identification no. 3 - Air emissions monitoring, Boiler 1 stack discharge to air*

<b>Name</b>	<b>Reading</b>	<b>Units</b>	<b>Licence Limit</b>	<b>Date</b>
Chlorine	<0.02	mg/m <sup>3</sup>	20	9/11/2021
Fluorine	13	mg/m <sup>3</sup>	30	9/11/2021
Hydrogen chloride	9.6	mg/m <sup>3</sup>	50	9/11/2021
Solid Particles	2.2	mg/m <sup>3</sup>	50	9/11/2021
Sulfuric acid mist and sulfur trioxide (as SO <sub>3</sub> )	0.83	mg/m <sup>3</sup>	100	9/11/2021
Volatile organic compounds as n-propane equivalent	<0.04	mg/m <sup>3</sup>	10	9/11/2021
Cadmium	<0.0002	mg/m <sup>3</sup>	0.2	9/07/2021
Mercury	<0.0002	mg/m <sup>3</sup>	0.05	9/07/2021
Solid Particles	2.3	mg/m <sup>3</sup>	50	9/07/2021
Type 1 and 2 substances in Aggregate	<0.03	mg/m <sup>3</sup>	0.75	9/07/2021

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

<b>Name</b>	<b>Reading</b>	<b>Units</b>	<b>Licence Limit</b>	<b>Date</b>
Flow Rate	270	m <sup>3</sup> /sec		9/11/2021
Moisture	5.5	%		9/11/2021
Oxygen	9.1	%		9/11/2021
Solid Particles	2.4	mg/m <sup>3</sup>		9/11/2021
Temperature	118	degC		9/11/2021
Carbon dioxide	10.9	%		9/11/2021
Chlorine	<0.02	mg/m <sup>3</sup>		9/11/2021
Fluorine	13	mg/m <sup>3</sup>		9/11/2021
Hydrogen chloride	9.6	mg/m <sup>3</sup>		9/11/2021
Sulfuric acid mist and sulfur trioxide (as SO <sub>3</sub> )	0.83	mg/m <sup>3</sup>		9/11/2021
Volatile organic compounds as n-propane equivalent	<0.04	mg/m <sup>3</sup>		9/11/2021
Cadmium	<0.0002	mg/m <sup>3</sup>		9/07/2021
Flow Rate	370	m <sup>3</sup> /sec		9/07/2021
Mercury	0.00016	mg/m <sup>3</sup>		9/07/2021
Moisture	5.2	%		9/07/2021
Oxygen	7.3	%		9/07/2021
Solid Particles	2.2	mg/m <sup>3</sup>		9/07/2021
Temperature	115	degC		9/07/2021
Type 1 and Type 2 substances in Aggregate	<0.040	mg/m <sup>3</sup>		9/07/2021
Carbon dioxide	12.5	%		9/07/2021

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

<b>Name</b>	<b>Reading</b>	<b>Units</b>	<b>Licence Limit</b>	<b>Date</b>
Flow Rate	290	m <sup>3</sup> /sec		9/11/2021
Moisture	5.8	%		9/11/2021
Oxygen	8.9	%		9/11/2021
Solid Particles	2.1	mg/m <sup>3</sup>		9/11/2021
Temperature	117	degC		9/11/2021
Carbon dioxide	10.8	%		9/11/2021
Cadmium	<0.0002	mg/m <sup>3</sup>		9/07/2021
Flow Rate	370	m <sup>3</sup> /sec		9/07/2021
Mercury	<0.0002	mg/m <sup>3</sup>		9/07/2021
Moisture	5.7	%		9/07/2021
Oxygen	6.4	%		9/07/2021
Solid Particles	2.3	mg/m <sup>3</sup>		9/07/2021
Temperature	119	degC		9/07/2021
Type 1 and Type 2 substances in Aggregate	<0.021	mg/m <sup>3</sup>		9/07/2021
Carbon dioxide	12.6	%		9/07/2021

## Unit 2 Boiler Emission Test Results

*EPA Identification no. 4 - Air emissions monitoring, Boiler 2 stack discharge to air*

Name	Reading	Units	Licence Limit	Date
Chlorine	0.025	mg/m <sup>3</sup>	20	9/11/2021
Fluorine	14	mg/m <sup>3</sup>	30	9/11/2021
Hydrogen chloride	6.2	mg/m <sup>3</sup>	50	9/11/2021
Solid Particles	5.5	mg/m <sup>3</sup>	50	14/12/2021
Sulfuric acid mist and sulfur trioxide (as SO <sub>3</sub> )	2	mg/m <sup>3</sup>	100	9/11/2021
Volatile organic compounds as n-propane equivalent	0.023	mg/m <sup>3</sup>	10	9/11/2021
Cadmium	<0.0002	mg/m <sup>3</sup>	0.2	7/07/2021
Mercury	0.0016	mg/m <sup>3</sup>	0.05	7/07/2021
Solid Particles	4.1	mg/m <sup>3</sup>	50	7/07/2021
Type 1 and 2 substances in Aggregate	<0.02	mg/m <sup>3</sup>	0.75	7/07/2021

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	390	m <sup>3</sup> /sec		9/11/2021
Moisture	5.8	%		9/11/2021
Oxygen	7.5	%		9/11/2021
Solid Particles	5.1	mg/m <sup>3</sup>		14/12/2021
Temperature	127	degC		9/11/2021
Carbon dioxide	12	%		9/11/2021
Chlorine	0.025	mg/m <sup>3</sup>		9/11/2021
Fluorine	14	mg/m <sup>3</sup>		9/11/2021
Hydrogen chloride	6.2	mg/m <sup>3</sup>		9/11/2021
Sulfuric acid mist and sulfur trioxide (as SO <sub>3</sub> )	2	mg/m <sup>3</sup>		9/11/2021
Volatile organic compounds as n-propane equivalent	0.023	mg/m <sup>3</sup>		9/11/2021
Cadmium	<0.0002	mg/m <sup>3</sup>		7/07/2021
Flow Rate	250	m <sup>3</sup> /sec		7/07/2021
Mercury	0.0015	mg/m <sup>3</sup>		7/07/2021
Moisture	6.1	%		7/07/2021
Oxygen	8.8	%		7/07/2021
Solid Particles	4.1	mg/m <sup>3</sup>		7/07/2021
Temperature	125	degC		7/07/2021
Type 1 and Type 2 substances in Aggregate	<0.015	mg/m <sup>3</sup>		7/07/2021
Carbon dioxide	10.5	%		7/07/2021

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	270	m <sup>3</sup> /sec		14/12/2021
Moisture	5.8	%		14/12/2021
Oxygen	8.3	%		14/12/2021
Solid Particles	5.8	mg/m <sup>3</sup>		14/12/2021
Temperature	121	degC		14/12/2021
Carbon dioxide	11.6	%		14/12/2021
Cadmium	<0.0003	mg/m <sup>3</sup>		7/07/2021
Flow Rate	230	m <sup>3</sup> /sec		7/07/2021
Mercury	0.0018	mg/m <sup>3</sup>		7/07/2021
Moisture	11	%		7/07/2021
Oxygen	9.6	%		7/07/2021
Solid Particles	4.2	mg/m <sup>3</sup>		7/07/2021
Temperature	115	degC		7/07/2021
Type 1 and Type 2 substances in Aggregate	<0.019	mg/m <sup>3</sup>		7/07/2021
Carbon dioxide	10.9	%		7/07/2021

### Unit 3 Boiler Emission Test Results

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

Name	Reading	Units	Licence Limit	Date
Chlorine	0.033	mg/m3	20	9/11/2021
Fluorine	7.9	mg/m3	30	9/11/2021
Hydrogen chloride	3.5	mg/m3	50	9/11/2021
Solid Particles	10	mg/m3	50	9/11/2021
Sulfuric acid mist and sulfur trioxide (as SO3)	0.34	mg/m3	100	9/11/2021
Volatile organic compounds as n-propane equivalent	0.31	mg/m3	10	9/11/2021
Cadmium	<0.0002	mg/m3	0.2	8/07/2021
Mercury	0.00035	mg/m3	0.05	8/07/2021
Solid Particles	4.1	mg/m3	50	8/07/2021
Type 1 and 2 substances in Aggregate	<0.04	mg/m3	0.75	8/07/2021

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	310	m3/sec		9/11/2021
Moisture	5.8	%		9/11/2021
Oxygen	9.6	%		9/11/2021
Solid Particles	18	mg/m3		9/11/2021
Temperature	115	degC		9/11/2021
Carbon dioxide	10	%		9/11/2021
Chlorine	0.033	mg/m3		9/11/2021
Fluorine	7.9	mg/m3		9/11/2021
Hydrogen chloride	3.5	mg/m3		9/11/2021
Sulfuric acid mist and sulfur trioxide (as SO3)	0.34	mg/m3		9/11/2021
Volatile organic compounds as n-propane equivalent	0.31	mg/m3		9/11/2021
Cadmium	<0.0002	mg/m3		8/07/2021
Flow Rate	370	m3/sec		8/07/2021
Mercury	0.00027	mg/m3		8/07/2021
Moisture	5.4	%		8/07/2021
Oxygen	6.7	%		8/07/2021
Solid Particles	7.0	mg/m3		8/07/2021
Temperature	123	degC		8/07/2021
Type 1 and Type 2 substances in Aggregate	<0.040	mg/m3		8/07/2021
Carbon dioxide	13.1	%		8/07/2021

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	260	m3/sec		9/11/2021
Moisture	6.2	%		9/11/2021
Oxygen	5.4	%		9/11/2021
Solid Particles	1.3	mg/m3		9/11/2021
Temperature	118	degC		9/11/2021
Carbon dioxide	13.5	%		9/11/2021
Cadmium	<0.0002	mg/m3		8/07/2021
Flow Rate	330	m3/sec		8/07/2021
Mercury	0.00044	mg/m3		8/07/2021
Moisture	5.4	%		8/07/2021
Oxygen	6.4	%		8/07/2021
Solid Particles	0.8	mg/m3		8/07/2021
Temperature	120	degC		8/07/2021
Type 1 and Type 2 substances in Aggregate	<0.031	mg/m3		8/07/2021
Carbon dioxide	12.6	%		8/07/2021

**Unit 4 Boiler Emission Test Results**

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

Name	Reading	Units	Licence Limit	Date
Chlorine	0.01	mg/m3	20	7/04/2021
Fluorine	13	mg/m3	30	7/04/2021
Hydrogen chloride	2.7	mg/m3	50	7/04/2021
Solid Particles	6.2	mg/m3	50	29/06/2021
Sulfuric acid mist and sulfur trioxide (as SO3)	2.7	mg/m3	100	7/04/2021
Volatile organic compounds as n-propane equivalent	<0.1	mg/m3	10	7/04/2021
Cadmium	<0.0003	mg/m3	0.2	6/07/2021
Mercury	0.00037	mg/m3	0.05	6/07/2021
Solid Particles	4.4	mg/m3	50	6/07/2021
Type 1 and 2 substances in Aggregate	<0.02	mg/m3	0.75	6/07/2021

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	500	m <sup>3</sup> /sec		7/04/2021
Moisture	5.3	%		7/04/2021
Oxygen	10.4	%		7/04/2021
Solid Particles	9.5	mg/m <sup>3</sup>		7/04/2021
Temperature	111	degC		7/04/2021
Carbon dioxide	10.4	%		7/04/2021
Chlorine	0.01	mg/m <sup>3</sup>		7/04/2021
Fluorine	13	mg/m <sup>3</sup>		7/04/2021
Hydrogen chloride	2.7	mg/m <sup>3</sup>		7/04/2021
Sulfuric acid mist and sulfur trioxide (as SO3)	2.7	mg/m <sup>3</sup>		7/04/2021
Volatile organic compounds as n-propane equivalent	<0.1	mg/m <sup>3</sup>		7/04/2021
Cadmium	<0.0003	mg/m <sup>3</sup>		6/07/2021
Flow Rate	390	m <sup>3</sup> /sec		6/07/2021
Mercury	0.00049	mg/m <sup>3</sup>		6/07/2021
Moisture	5.3	%		6/07/2021
Oxygen	8.8	%		6/07/2021
Solid Particles	7.0	mg/m <sup>3</sup>		6/07/2021
Temperature	119	degC		6/07/2021
Type 1 and Type 2 substances in Aggregate	<0.030	mg/m <sup>3</sup>		6/07/2021
Carbon dioxide	10.0	%		6/07/2021

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	400	m <sup>3</sup> /sec		29/06/2021
Moisture	5.9	%		29/06/2021
Oxygen	6.9	%		29/06/2021
Solid Particles	2	mg/m <sup>3</sup>		29/06/2021
Temperature	121	degC		29/06/2021
Carbon dioxide	13.4	%		29/06/2021
Cadmium	<0.0002	mg/m <sup>3</sup>		6/07/2021
Flow Rate	380	m <sup>3</sup> /sec		6/07/2021
Mercury	0.00024	mg/m <sup>3</sup>		6/07/2021
Moisture	5.5	%		6/07/2021
Oxygen	6.7	%		6/07/2021
Solid Particles	1.8	mg/m <sup>3</sup>		6/07/2021
Temperature	115	degC		6/07/2021
Type 1 and Type 2 substances in Aggregate	<0.011	mg/m <sup>3</sup>		6/07/2021
Carbon dioxide	13.0	%		6/07/2021

## 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 <sup>2</sup> /month		
		Ash	Combustible	Insoluble
E2	17	0.4	<0.1	0.4
E4	18	0.2	<0.1	0.2
E6	19	0.7	0.7	1.4
U6	20	0.8	<0.1	0.8

## 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
25.89	0.50	26.80	8.11	17.3	99.7	7.12	2.75
Name			Reading		Units		Date
Aluminium			0.046		mg/L		10/01/2022
Ammonia			<0.005		mg/L		10/01/2022
Arsenic III			<0.005		mg/		10/01/2022
Arsenic V			<0.005		mg/L		10/01/2022
Cadmium			<0.0002		mg/L		10/01/2022
Chromium (Trivalent)			<0.001		mg/L		10/01/2022
Chromium (VI) Compounds			<0.001		mg/L		10/01/2022
Copper			0.002		mg/L		10/01/2022
Iron			0.066		mg/L		10/01/2022
Lead			<0.0002		mg/L		10/01/2022
Manganese			0.0137		mg/L		10/01/2022
Nickel			0.0006		mg/L		10/01/2022
pH			8.11		pH units		10/01/2022
Selenium			<0.002		mg/L		10/01/2022
Total Suspended Solids			<5		mg/L		10/01/2022
Vanadium			0.0025		mg/L		10/01/2022
Zinc			0.007		mg/L		10/01/2022



## 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
24.82	0.50	26.50	8.14	17.4	105.3	7.48	3.25
Name			Reading	Units		Date	
Aluminium			0.012	mg/L		10/01/2022	
Ammonia			<0.005	mg/L		10/01/2022	
Arsenic III			<0.005	mg/L		10/01/2022	
Arsenic V			<0.005	mg/L		10/01/2022	
Cadmium			<0.0002	mg/L		10/01/2022	
Chromium (Trivalent)			<0.001	mg/L		10/01/2022	
Chromium (VI) Compounds			<0.001	mg/L		10/01/2022	
Copper			0.002	mg/L		10/01/2022	
Iron			0.010	mg/L		10/01/2022	
Lead			<0.0002	mg/L		10/01/2022	
Manganese			0.0075	mg/L		10/01/2022	
Nickel			<0.0005	mg/L		10/01/2022	
pH			8.14	pH units		10/01/2022	
Selenium			<0.002	mg/L		10/01/2022	
Total Suspended Solids			<5	mg/L		10/01/2022	
Vanadium			0.0032	mg/L		10/01/2022	
Zinc			0.007	mg/L		10/01/2022	

## 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
25.20	0.50	24.91	8.14	18.0	123.7	8.98	3.25
Name			Reading		Units		Date
Aluminium			0.016		mg/L		10/01/2022
Ammonia			<0.005		mg/L		10/01/2022
Arsenic III			<0.005		mg/L		10/01/2022
Arsenic V			<0.005		mg/L		10/01/2022
Cadmium			<0.0002		mg/L		10/01/2022
Chromium (Trivalent)			<0.001		mg/L		10/01/2022
Chromium (VI) Compounds			<0.001		mg/L		10/01/2022
Copper			0.002		mg/L		10/01/2022
Iron			0.010		mg/L		10/01/2022
Lead			0.0004		mg/L		10/01/2022
Manganese			0.0065		mg/L		10/01/2022
Nickel			0.0007		mg/L		10/01/2022
pH			8.14		pH units		10/01/2022
Selenium			<0.002		mg/L		10/01/2022
Total Suspended Solids			<5		mg/L		10/01/2022
Vanadium			0.0018		mg/L		10/01/2022
Zinc			0.014		mg/L		10/01/2022

## 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
24.68	0.5	28.73	8.13	17.6	112.7	7.84	3.25
Name			Reading	Units		Date	
Aluminium			0.032	mg/L		10/01/2022	
Ammonia			<0.005	mg/L		10/01/2022	
Arsenic III			<0.005	mg/L		10/01/2022	
Arsenic V			<0.005	mg/L		10/01/2022	
Cadmium			<0.0002	mg/L		10/01/2022	
Chromium (Trivalent)			<0.001	mg/L		10/01/2022	
Chromium (VI) Compounds			<0.001	mg/L		10/01/2022	
Copper			0.002	mg/L		10/01/2022	
Iron			0.042	mg/L		10/01/2022	
Lead			<0.0002	mg/L		10/01/2022	
Manganese			0.0123	mg/L		10/01/2022	
Nickel			<0.0005	mg/L		10/01/2022	
pH			8.13	pH units		10/01/2022	
Selenium			<0.002	mg/L		10/01/2022	
Total Suspended Solids			<5	mg/L		10/01/2022	
Vanadium			0.0026	mg/L		10/01/2022	
Zinc			<0.005	mg/L		10/01/2022	

## Eraring Ash Dam Effluent Quality Monitoring

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

Name	Reading	Units	Licence Limit	Date
Aluminium	0.108	mg/L	-	13/01/2022
Ammonia	0.18	mg/L	-	13/01/2022
Arsenic III	<0.0005	mg/L	-	13/01/2022
Arsenic V	0.0052	mg/L	-	13/01/2022
Cadmium	0.00007	mg/L	-	13/01/2022
Chromium (Trivalent)	<0.001	mg/L	-	13/01/2022
Chromium (VI) Compounds	<0.01	mg/L	-	13/01/2022
Copper	0.0015	mg/L	-	13/01/2022
Iron	0.044	mg/L	-	13/01/2022
Lead	<0.0001	mg/L	-	13/01/2022
Manganese	0.0707	mg/L	-	13/01/2022
Nickel	0.0014	mg/L	-	13/01/2022
Nitrite and Nitrate as N	0.53	mg/L	-	13/01/2022
Nitrogen	1.1	mg/L	-	13/01/2022
pH	8.75	pH units	-	13/01/2022
Phosphorus as P	0.29	mg/L	-	13/01/2022
Reactive Phosphorus as P	0.26	mg/L	-	13/01/2022
Selenium	0.0212	mg/L	-	13/01/2022
Total Kjeldahl Nitrogen	0.6	mg/L	-	13/01/2022
Total Suspended Solids	9	mg/L	-	13/01/2022
Vanadium	0.0319	mg/L	-	13/01/2022
Zinc	0.002	mg/L	-	13/01/2022

## Eraring Cooling Water Inlet Canal

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

Name	Reading	Units	Licence Limit	Date
Aluminium	0.110	mg/L	-	13/01/2022
Ammonia	0.007	mg/L	-	13/01/2022
Arsenic III	<0.005	mg/L	-	13/01/2022
Arsenic V	<0.005	mg/L	-	13/01/2022
Cadmium	<0.0002	mg/L	-	13/01/2022
Chromium (Trivalent)	<0.001	mg/L	-	13/01/2022
Chromium (VI) Compounds	<0.01	mg/L	-	13/01/2022
Copper	0.0016	mg/L	-	13/01/2022
Iron	0.164	mg/L	-	13/01/2022
Lead	<0.0002	mg/L	-	13/01/2022
Manganese	0.0141	mg/L	-	13/01/2022
Nickel	0.0012	mg/L	-	13/01/2022
pH	8.09	pH units	-	13/01/2022
Selenium	<0.001	mg/L	-	13/01/2022
Total suspended Solids	6	mg/L	-	13/01/2022
Vanadium	0.0028	mg/L	-	13/01/2022
Zinc	<0.005	mg/L	-	13/01/2022
Dissolved Oxygen	11.54	mg/L	-	13/01/2022
Field Temperature	25.4	degC	-	13/01/2022
Salinity	17.6	ppt	-	13/01/2022
Secchi Disk	2.75	m	-	13/01/2022
Temperature – Average	27.16	deg C	-	January 2022
Temperature – Minimum	25.57	deg C	-	January 2022
Temperature - Maximum	29.15	deg C	-	January 2022

## Eraring Cooling Water Outlet Canal

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

Name	Reading	Units	Licence Limit	Date
Copper	0.0022	mg/L	0.005	14/01/2022
Iron	0.178	mg/L	0.3	14/01/2022
Selenium	<0.001	mg/L	0.002	14/01/2022
Temperature – Average	32.08	deg C	37.5	January 2022
Temperature – Minimum	27.22	deg C	37.5	January 2022
Temperature - Maximum	35.73	deg C	37.5	January 2022
Maximum Daily Discharge from Ash Dam	17.10	ML	150	January 2022
Monthly Discharge from Ash Dam	183.43	ML	-	January 2022

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**Emergency Discharge – Toe Drain Pond**

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*EPA Identification no. 24 - Emergency discharge to toe drain collection pond  
No Discharge during January 2022, background sample only*

<b>Name</b>	<b>Reading</b>	<b>Units</b>	<b>Licence Limit</b>	<b>Date</b>
Aluminium	0.013	mg/L	-	13/01/2022
Ammonia	3.25	mg/L	-	13/01/2022
Arsenic III	0.0012	mg/L	-	13/01/2022
Arsenic V	0.0008	mg/L	-	13/01/2022
Cadmium	<0.00005	mg/L	-	13/01/2022
Chromium (Trivalent)	<0.001	mg/L	-	13/01/2022
Chromium (VI) Compounds	<0.01	mg/L	-	13/01/2022
Copper	<0.0005	mg/L	-	13/01/2022
Iron	6.22	mg/L	-	13/01/2022
Lead	<0.0001	mg/L	-	13/01/2022
Manganese	0.897	mg/L	-	13/01/2022
Nickel	0.0014	mg/L	-	13/01/2022
Nitrite and Nitrate as N	0.176	mg/L	-	13/01/2022
Nitrogen	2.95	mg/L	-	13/01/2022
pH	6.76	pH units	6-9.5	13/01/2022
Phosphorus as P	0.323	mg/L	-	13/01/2022
Reactive Phosphorus as P	0.026	mg/L	-	13/01/2022
Selenium	0.0002	mg/L	-	13/01/2022
Total Kjeldahl Nitrogen	2.77	mg/L	-	13/01/2022
Total Suspended Solids	19	mg/L	50	13/01/2022
Vanadium	0.0012	mg/L	-	13/01/2022
Zinc	0.001	mg/L	-	13/01/2022



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**MR217**

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

No Discharge during January 2022

<b>Name</b>	<b>Reading</b>	<b>Units</b>	<b>Licence Limit</b>	<b>Date</b>
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	-	

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**Groundwater Monitoring  
Groundwater Well – MW01**

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*EPA Identification no. 32 – Groundwater Monitoring Well 01*

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<b>Name</b>	<b>Reading</b>	<b>Units</b>	<b>Date</b>
Aluminium	0.199	mg/L	7/12/2021
Ammonia	0.07	mg/L	7/12/2021
Arsenic (III)	<0.0005	mg/L	7/12/2021
Arsenic (V)	<0.0005	mg/L	7/12/2021
Cadmium	<0.00005	mg/L	7/12/2021
Calcium	2	mg/L	7/12/2021
Chromium (trivalent)	<0.01	mg/L	7/12/2021
Chromium (VI) compounds	<0.01	mg/L	7/12/2021
Copper	0.0011	mg/L	7/12/2021
Electrical Conductivity	406	uS/cm	7/12/2021
Iron	0.084	mg/L	7/12/2021
Lead	0.0010	mg/L	7/12/2021
Magnesium	4	mg/L	7/12/2021
Manganese	0.148	mg/L	7/12/2021
Nickel	0.0058	mg/L	7/12/2021
pH	4.88	pH units	7/12/2021
Potassium	4	mg/L	7/12/2021
Selenium	<0.0002	mg/L	7/12/2021
Sodium	61	mg/L	7/12/2021
Standing Water Level	8.180	metres	7/12/2021
Vanadium	0.0003	mg/L	7/12/2021
Zinc	0.051	mg/L	7/12/2021

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**Groundwater Monitoring  
Groundwater Well – MW02**

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*EPA Identification no. 33 – Groundwater Monitoring Well 02*

<b>Name</b>	<b>Reading</b>	<b>Units</b>	<b>Date</b>
Aluminium	0.687	mg/L	7/12/2021
Ammonia	3.14	mg/L	7/12/2021
Arsenic (III)	0.0036	mg/L	7/12/2021
Arsenic (V)	0.0039	mg/L	7/12/2021
Cadmium	<0.00005	mg/L	7/12/2021
Calcium	234	mg/L	7/12/2021
Chromium (trivalent)	<0.01	mg/L	7/12/2021
Chromium (VI) compounds	<0.01	mg/L	7/12/2021
Copper	0.0018	mg/L	7/12/2021
Electrical Conductivity	14500	uS/cm	7/12/2021
Iron	7.88	mg/L	7/12/2021
Lead	0.0024	mg/L	7/12/2021
Magnesium	204	mg/L	7/12/2021
Manganese	0.89	mg/L	7/12/2021
Nickel	0.0012	mg/L	7/12/2021
pH	6.47	pH units	7/12/2021
Potassium	99	mg/L	7/12/2021
Selenium	0.0003	mg/L	7/12/2021
Sodium	2430	mg/L	7/12/2021
Standing Water Level	4.015	metres	7/12/2021
Vanadium	0.0035	mg/L	7/12/2021
Zinc	0.048	mg/L	7/12/2021

**Groundwater Monitoring  
Groundwater Well – MW06**

*EPA Identification no. 34 – Groundwater Monitoring Well 06*

<b>Name</b>	<b>Reading</b>	<b>Units</b>	<b>Date</b>
Aluminium	0.032	mg/L	7/12/2021
Ammonia	3.18	mg/L	7/12/2021
Arsenic (III)	<0.005	mg/L	7/12/2021
Arsenic (V)	<0.005	mg/L	7/12/2021
Cadmium	<0.0002	mg/L	7/12/2021
Calcium	457	mg/L	7/12/2021
Chromium (trivalent)	<0.01	mg/L	7/12/2021
Chromium (VI) compounds	<0.01	mg/L	7/12/2021
Copper	<0.001	mg/L	7/12/2021
Electrical Conductivity	20400	uS/cm	7/12/2021
Iron	12.4	mg/L	7/12/2021
Lead	<0.0002	mg/L	7/12/2021
Magnesium	266	mg/L	7/12/2021
Manganese	0.407	mg/L	7/12/2021
Nickel	0.0008	mg/L	7/12/2021
pH	6.56	pH units	7/12/2021
Potassium	116	mg/L	7/12/2021
Selenium	<0.002	mg/L	7/12/2021
Sodium	3380	mg/L	7/12/2021
Standing Water Level	1.725	metres	7/12/2021
Vanadium	0.0010	mg/L	7/12/2021
Zinc	0.015	mg/L	7/12/2021

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**Groundwater Monitoring**  
**Groundwater Well – EGM/D26**

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*EPA Identification no. 35 – Groundwater Monitoring Well D26*  
*Groundwater well was dry during sampling in December 2021*

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