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

Environmental Monitoring Data June 2023



Unit 1A Boiler Continuous Emission Monitoring Summary

EPA Identification no.7 - Air emissions monitoring, Boiler 1 stack discharge to air
Unit 1A Unit Data Invalidated 7, 24-26 and 29 June 2023
SO_2 Unit Data Invalidated 27 June 2023
NOx Unit Data Invalidated 28 June 2023

	NOx			**SO_2**		
	mg/Nm^3 (7% O_2)			**mg/Nm^3 (7% O_2)**		
	Daily Ave	**Max Hourly**	**Min Hourly**	**Daily Ave**	**Max Hourly**	**Min Hourly**
1 June	385	424	354	521	720	379
2 June	410	447	373	503	572	403
3 June	428	469	355	561	729	470
4 June	410	463	324	559	615	511
5 June	422	461	375	603	768	508
6 June	403	467	335	503	613	446
7 June	-	-	-	-	-	-
8 June	432	528	378	532	588	469
9 June	415	503	364	552	647	457
10 June	385	450	345	547	630	466
11 June	426	525	326	513	644	429
12 June	436	505	371	548	677	405
13 June	437	529	323	521	566	474
14 June	427	548	353	541	619	467
15 June	463	575	396	542	686	427
16 June	443	567	356	576	699	460
17 June	452	554	378	566	751	429
18 June	407	483	376	622	788	511
19 June	415	475	337	554	636	467
20 June	440	481	394	539	640	460
21 June	405	482	349	527	687	400
22 June	386	423	335	475	577	386
23 June	394	490	334	566	638	474
24 June	-	-	-	-	-	-
25 June	-	-	-	-	-	-
26 June	-	-	-	-	-	-
27 June	387	445	310	-	-	-
28 June	-	-	-	611	703	523
29 June	-	-	-	-	-	-
30 June	569	650	472	873	994	617

Unit 1B Boiler Continuous Emission Monitoring Summary

EPA Identification no.7 - Air emissions monitoring, Boiler 1 stack discharge to air
Unit 1B Unit Data Invalidated of 26-27 and 29 June 2023.
NOx Unit Data Invalidated 4-5, 8, 10-16, 18-19 and 25 June 2023.

	NOx			SO_2		
	mg/Nm^3 (7% O_2)			mg/Nm^3 (7% O_2)		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 June	376	431	336	621	648	601
2 June	392	435	348	647	700	602
3 June	393	428	321	648	687	612
4 June	-	-	-	655	685	617
5 June	-	-	-	710	886	647
6 June	412	494	352	657	701	625
7 June	390	463	343	696	754	644
8 June	-	-	-	649	673	607
9 June	394	500	320	675	753	630
10 June	-	-	-	707	777	658
11 June	-	-	-	644	722	576
12 June	-	-	-	669	708	627
13 June	-	-	-	646	746	622
14 June	-	-	-	662	754	591
15 June	-	-	-	663	691	617
16 June	-	-	-	711	758	635
17 June	411	519	310	724	815	658
18 June	-	-	-	773	899	681
19 June	-	-	-	660	746	606
20 June	432	475	383	670	761	619
21 June	377	429	319	673	704	634
22 June	393	434	331	645	672	611
23 June	366	441	308	643	684	600
24 June	403	483	342	719	801	663
25 June	-	-	-	829	907	734
26 June	-	-	-	-	-	-
27 June	-	-	-	-	-	-
28 June	397	466	339	803	918	703
29 June	-	-	-	-	-	-
30 June	547	626	423	1035	1091	1012

Unit 2A Boiler Continuous Emission Monitoring Summary

EPA Identification no. 9 - Air emissions monitoring, Boiler 2 stack discharge to air
Unit 2A Data Invalidated 26 and 28 June 2023
NOx Unit Data Invalidated 24-25 and 27 June 2023

	NOx			**SO_2**		
	mg/Nm^3 (7% O_2)			**mg/Nm^3 (7% O_2)**		
	Daily Ave	**Max Hourly**	**Min Hourly**	**Daily Ave**	**Max Hourly**	**Min Hourly**
1 June	374	434	305	496	543	476
2 June	414	494	355	536	575	486
3 June	406	476	348	515	539	480
4 June	414	497	312	540	563	520
5 June	410	462	324	581	700	517
6 June	396	474	342	519	574	479
7 June	416	514	335	529	553	481
8 June	412	490	313	508	556	466
9 June	368	447	297	543	591	491
10 June	390	441	345	547	633	494
11 June	362	452	288	524	577	495
12 June	378	444	326	527	565	491
13 June	400	471	351	504	537	485
14 June	396	526	339	499	543	466
15 June	412	500	336	520	568	488
16 June	384	457	320	539	580	498
17 June	449	595	329	546	586	506
18 June	402	466	342	612	721	523
19 June	390	432	299	524	586	477
20 June	371	415	324	504	579	448
21 June	360	403	298	507	549	472
22 June	374	427	294	506	525	471
23 June	327	378	283	493	560	429
24 June	-	-	-	554	617	509
25 June	-	-	-	601	646	480
26 June	-	-	-	-	-	-
27 June	-	-	-	692	774	526
28 June	-	-	-	-	-	-
29 June	515	604	418	842	1016	545
30 June	457	501	381	794	930	705

Unit 2B Boiler Continuous Emission Monitoring Summary

EPA Identification no. 10 - Air emissions monitoring, Boiler 2 stack discharge to air
Unit 2B Unit Data Invalidated 7 and 26-29 June 2023
NOx Unit Data Invalidated 20 June 2023

	NOx			SO_2		
	mg/Nm^3 (7% O_2)			mg/Nm^3 (7% O_2)		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 June	186	249	142	241	370	179
2 June	215	294	163	269	440	182
3 June	207	292	169	247	406	188
4 June	200	277	152	261	410	180
5 June	186	259	137	250	507	196
6 June	214	309	174	261	471	163
7 June	-	-	-	-	-	-
8 June	217	261	192	240	423	176
9 June	230	312	171	331	516	219
10 June	252	360	175	330	561	171
11 June	237	320	177	318	466	229
12 June	216	274	180	275	411	202
13 June	236	274	182	266	392	188
14 June	237	365	191	269	468	186
15 June	249	354	199	279	412	199
16 June	248	333	192	312	492	186
17 June	329	485	223	369	513	212
18 June	280	382	202	416	633	227
19 June	230	314	165	299	466	196
20 June	-	-	-	238	311	179
21 June	223	274	180	266	413	167
22 June	245	270	199	274	318	219
23 June	258	364	215	304	497	160
24 June	292	404	238	403	550	276
25 June	281	409	189	389	578	293
26 June	-	-	-	-	-	-
27 June	-	-	-	-	-	-
28 June	-	-	-	-	-	-
29 June	-	-	-	-	-	-
30 June	575	653	449	964	1147	851

Unit 3A Boiler Continuous Emission Monitoring Summary

EPA Identification no. 11 - Air emissions monitoring, Boiler 3 stack discharge to air
Unit 3A Data Invalidated 6, 14-15, 17-20 and 29 June 2023
NOx Unit Data Invalidated 2-4, 7, 9-10 and 13 June 2023.
SO_2 Unit Data Invalidated 16 and 23 June 2023

	NOx			SO_2		
	mg/Nm^3 (7% O_2)			mg/Nm^3 (7% O_2)		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 June	421	499	300	622	651	595
2 June	-	-	-	637	667	605
3 June	-	-	-	663	707	615
4 June	-	-	-	654	678	628
5 June	399	461	300	732	851	652
6 June	-	-	-	-	-	-
7 June	-	-	-	649	675	601
8 June	339	416	268	646	687	582
9 June	-	-	-	665	687	631
10 June	-	-	-	690	742	653
11 June	407	491	306	664	693	641
12 June	435	522	349	679	701	651
13 June	-	-	-	662	677	635
14 June	-	-	-	-	-	-
15 June	-	-	-	-	-	-
16 June	448	605	349	-	-	-
17 June	-	-	-	-	-	-
18 June	-	-	-	-	-	-
19 June	-	-	-	-	-	-
20 June	-	-	-	-	-	-
21 June	405	472	282	674	699	650
22 June	424	476	341	672	703	639
23 June	362	450	257	-	-	-
24 June	-	-	-	702	769	641
25 June	-	-	-	796	865	728
26 June	-	-	-	859	943	808
27 June	394	448	263	724	824	665
28 June	418	451	284	691	761	620
29 June	-	-	-	-	-	-
30 June	381	480	297	784	889	719

Unit 3B Boiler Continuous Emission Monitoring Summary

EPA Identification no. 12 - Air emissions monitoring, Boiler 3 stack discharge to air
Unit 3B Data Invalidated 1, 3, 6, 13-19 and 30 June 2023
NOx Unit Data Invalidated 5, 10-11 and 23 June 2023
SO_2 Unit Data Invalidated 9, 12, 20-22 and 24-26 June 2023

	NOx			SO_2		
	mg/Nm^3 (7% O_2)			mg/Nm^3 (7% O_2)		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 June	-	-	-	-	-	-
2 June	387	472	296	647	678	619
3 June	-	-	-	-	-	-
4 June	397	471	333	661	693	637
5 June	-	-	-	775	1126	670
6 June	-	-	-	-	-	-
7 June	456	561	308	653	685	614
8 June	326	366	280	629	666	577
9 June	299	378	247	-	-	-
10 June	-	-	-	676	730	641
11 June	-	-	-	646	679	630
12 June	415	528	311	-	-	-
13 June	-	-	-	-	-	-
14 June	-	-	-	-	-	-
15 June	-	-	-	-	-	-
16 June	-	-	-	-	-	-
17 June	-	-	-	-	-	-
18 June	-	-	-	-	-	-
19 June	-	-	-	-	-	-
20 June	443	509	344	-	-	-
21 June	425	495	291	-	-	-
22 June	460	524	367	-	-	-
23 June	-	-	-	700	751	653
24 June	387	479	289	-	-	-
25 June	336	471	262	-	-	-
26 June	388	500	237	-	-	-
27 June	428	486	276	696	774	638
28 June	436	467	292	663	698	602
29 June	422	494	294	705	824	607
30 June	-	-	-	-	-	-

Unit 4A Boiler Continuous Emission Monitoring Summary

EPA Identification no. 13 - Air emissions monitoring, Boiler 4 stack discharge to air
Unit 4A Data Invalidated 3-4, 11-13 and 15-16 June 2023
NOx Unit Data Invalidated 2, 5-7 and 14 June 2023
SO_2 Unit Data Invalidated 10 and 17-19 June 2023

	NOx			SO_2		
	mg/Nm³ (7% O_2)			mg/Nm³ (7% O_2)		
	Daily Ave	Max Hourly	Min Hourly	Daily Ave	Max Hourly	Min Hourly
1 June	387	450	199	591	619	548
2 June	-	-	-	637	704	550
3 June	-	-	-	-	-	-
4 June	-	-	-	-	-	-
5 June	-	-	-	694	848	583
6 June	-	-	-	609	640	580
7 June	-	-	-	630	669	561
8 June	403	471	333	639	660	613
9 June	448	540	325	647	662	627
10 June	467	529	403	-	-	-
11 June	-	-	-	-	-	-
12 June	-	-	-	-	-	-
13 June	-	-	-	-	-	-
14 June	-	-	-	652	708	595
15 June	-	-	-	-	-	-
16 June	-	-	-	-	-	-
17 June	436	604	319	-	-	-
18 June	422	506	324	-	-	-
19 June	401	456	293	-	-	-
20 June	415	453	343	630	675	567
21 June	418	492	356	687	760	634
22 June	427	463	366	661	683	594
23 June	416	479	356	618	678	551
24 June	399	441	369	665	708	578
25 June	389	440	353	759	859	641
26 June	400	437	344	843	916	745
27 June	427	491	366	688	812	598
28 June	449	489	400	659	717	593
29 June	449	504	349	697	815	630
30 June	410	473	337	666	786	588

Unit 4B Boiler Continuous Emission Monitoring Summary

EPA Identification no. 14 – Air emissions monitoring, Boiler 4 stack discharge to air
Unit 4A Data Invalidated 7-8, 13-14 and 28 June 2023
NOx Unit Data Invalidated 1 and 3 June 2023
SO_2 Unit Data Invalidated 4-6, 10-11, 15, 17-19 and 25-26 June 2023

	NOx			**SO_2**		
	mg/Nm^3 (7% O_2)			**mg/Nm^3 (7% O_2)**		
	Daily Ave	**Max Hourly**	**Min Hourly**	**Daily Ave**	**Max Hourly**	**Min Hourly**
1 June	-	-	-	631	680	499
2 June	481	582	381	670	738	412
3 June	-	-	-	643	708	508
4 June	460	521	407	-	-	-
5 June	443	501	343	-	-	-
6 June	472	558	398	-	-	-
7 June	-	-	-	-	-	-
8 June	-	-	-	-	-	-
9 June	525	656	357	704	744	588
10 June	527	659	403	-	-	-
11 June	446	498	348	-	-	-
12 June	428	526	339	736	764	630
13 June	-	-	-	-	-	-
14 June	-	-	-	-	-	-
15 June	482	613	315	-	-	-
16 June	461	570	355	712	746	595
17 June	455	636	337	-	-	-
18 June	432	573	338	-	-	-
19 June	431	521	331	-	-	-
20 June	470	572	347	682	741	519
21 June	462	550	346	744	807	581
22 June	466	504	406	721	747	554
23 June	449	585	347	661	721	600
24 June	430	488	352	709	761	581
25 June	424	530	329	-	-	-
26 June	453	537	351	-	-	-
27 June	485	586	355	751	868	652
28 June	-	-	-	-	-	-
29 June	503	572	353	764	912	666
30 June	476	565	381	732	875	605

Unit 1 Boiler Emission Test Results

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

Name	Reading	Units	Licence Limit	Date
Chlorine	<0.01	mg/m^3	20	18/04/2023
Fluorine	14	mg/m^3	30	18/04/2023
Hydrogen chloride	15	mg/m^3	50	18/04/2023
Solid Particles	1.6	mg/m^3	50	18/04/2023
Sulfuric acid mist and sulfur trioxide (as SO3)	1.5	mg/m^3	100	18/04/2023
Volatile organic compounds as n-propane equivalent	0.18	mg/m^3	10	18/04/2023
Cadmium	<0.0002	mg/m^3	0.2	28/02/2023
Mercury	<0.0004	mg/m^3	0.05	28/02/2023
Solid Particles	1.7	mg/m^3	50	28/02/2023
Type 1 and 2 substances in Aggregate	<0.03	mg/m^3	0.75	28/02/2023

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	310	m3/sec		18/04/2023
Moisture	5.2	%		18/04/2023
Oxygen	8.0	%		18/04/2023
Solid Particles	1.3	mg/m3		18/04/2023
Temperature	116	degC		18/04/2023
Carbon dioxide	11.9	%		18/04/2023
Chlorine	<0.01	mg/m3		18/04/2023
Fluorine	14	mg/m3		18/04/2023
Hydrogen chloride	15	mg/m3		18/04/2023
Sulfuric acid mist and sulfur trioxide (as SO3)	1.5	mg/m3		18/04/2023
Volatile organic compounds as n-propane equivalent	0.18	mg/m3		18/04/2023
Cadmium	<0.0002	mg/m3		28/02/2023
Flow Rate	230	m3/sec		28/02/2023
Mercury	0.00044	mg/m3		28/02/2023
Moisture	5.7	%		28/02/2023
Oxygen	8.3	%		28/02/2023
Solid Particles	1.5	mg/m3		28/02/2023
Temperature	110	degC		28/02/2023
Type 1 and Type 2 substances in Aggregate	<0.012	mg/m3		28/02/2023
Carbon dioxide	10.9	%		28/02/2023

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	320	m3/sec		18/04/2023
Moisture	5.2	%		18/04/2023
Oxygen	7.1	%		18/04/2023
Solid Particles	1.9	mg/m3		18/04/2023
Temperature	114	degC		18/04/2023
Carbon dioxide	13.3	%		18/04/2023
Cadmium	<0.0003	mg/m3		28/02/2023
Flow Rate	220	m3/sec		28/02/2023
Mercury	<0.0003	mg/m3		28/02/2023
Moisture	5.0	%		28/02/2023
Oxygen	8.8	%		28/02/2023
Solid Particles	1.9	mg/m3		28/02/2023
Temperature	109	degC		28/02/2023
Type 1 and Type 2 substances in Aggregate	<0.041	mg/m3		28/02/2023
Carbon dioxide	11.3	%		28/02/2023

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	<0.02	mg/m^3	20	3/05/2023
Fluorine	12	mg/m^3	30	3/05/2023
Hydrogen chloride	15	mg/m^3	50	3/05/2023
Solid Particles	3.4	mg/m^3	50	4/05/2023
Sulfuric acid mist and sulfur trioxide (as SO3)	0.92	mg/m^3	100	3/05/2023
Volatile organic compounds as n-propane equivalent	<0.07	mg/m^3	10	3/05/2023
Cadmium	<0.0003	mg/m^3	0.2	28/02/2023
Mercury	0.0024	mg/m^3	0.05	28/02/2023
Solid Particles	16	mg/m3	50	28/02/2023
Type 1 and 2 substances in Aggregate	<0.06	mg/m3	0.75	28/02/2023

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	240	m3/sec		3/05/2023
Moisture	5.1	%		3/05/2023
Oxygen	9.8	%		3/05/2023
Solid Particles	3.7	mg/m3		3/05/2023
Temperature	118	degC		3/05/2023
Carbon dioxide	10.1	%		3/05/2023
Chlorine	<0.02	mg/m3		3/05/2023
Fluorine	12	mg/m3		3/05/2023
Hydrogen chloride	15	mg/m3		3/05/2023
Sulfuric acid mist and sulfur trioxide (as SO3)	0.92	mg/m3		3/05/2023
Volatile organic compounds as n-propane equivalent	<0.07	mg/m3		3/05/2023
Cadmium	<0.0003	mg/m3		28/02/2023
Flow Rate	240	m3/sec		28/02/2023
Mercury	0.0023	mg/m3		28/02/2023
Moisture	5.8	%		28/02/2023
Oxygen	10.3	%		28/02/2023
Solid Particles	29	mg/m3		28/02/2023
Temperature	124	degC		28/02/2023
Type 1 and Type 2 substances in Aggregate	<0.11	mg/m3		28/02/2023
Carbon dioxide	9.5	%		28/02/2023

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	240	m3/sec		4/05/2023
Moisture	5.0	%		4/05/2023
Oxygen	9.3	%		4/05/2023
Solid Particles	3.0	mg/m3		4/05/2023
Temperature	115	degC		4/05/2023
Carbon dioxide	10.8	%		4/05/2023
Cadmium	<0.0002	mg/m3		28/02/2023
Flow Rate	220	m3/sec		28/02/2023
Mercury	0.0025	mg/m3		28/02/2023
Moisture	5.9	%		28/02/2023
Oxygen	9.0	%		28/02/2023
Solid Particles	2.4	mg/m3		28/02/2023
Temperature	118	degC		28/02/2023
Type 1 and Type 2 substances in Aggregate	<0.014	mg/m3		28/02/2023
Carbon dioxide	10.3	%		28/02/2023

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	<0.01	mg/m3	20	19/04/2023
Fluorine	9.2	mg/m3	30	19/04/2023
Hydrogen chloride	19	mg/m3	50	19/04/2023
Solid Particles	20	mg/m3	50	19/04/2023
Sulfuric acid mist and sulfur trioxide (as SO3)	1.4	mg/m3	100	19/04/2023
Volatile organic compounds as n-propane equivalent	0.76	mg/m3	10	19/04/2023
Cadmium	<0.0003	mg/m3	0.2	1/03/2023
Mercury	0.00058	mg/m3	0.05	1/03/2023
Solid Particles	4	mg/m3	50	1/03/2023
Type 1 and 2 substances in Aggregate	<0.03	mg/m3	0.75	1/03/2023

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	340	m3/sec		19/04/2023
Moisture	5.0	%		19/04/2023
Oxygen	7.6	%		19/04/2023
Solid Particles	32	mg/m3		19/04/2023
Temperature	118	degC		19/04/2023
Carbon dioxide	12.8	%		19/04/2023
Chlorine	<0.01	mg/m3		19/04/2023
Fluorine	9.2	mg/m3		19/04/2023
Hydrogen chloride	19	mg/m3		19/04/2023
Sulfuric acid mist and sulfur trioxide (as SO3)	1.4	mg/m3		19/04/2023
Volatile organic compounds as n-propane equivalent	0.76	mg/m3		19/04/2023
Cadmium	<0.0003	mg/m3		1/03/2023
Flow Rate	320	m3/sec		1/03/2023
Mercury	0.00052	mg/m3		1/03/2023
Moisture	3.9	%		1/03/2023
Oxygen	12.2	%		1/03/2023
Solid Particles	3	mg/m3		1/03/2023
Temperature	92	degC		1/03/2023
Type 1 and Type 2 substances in Aggregate	<0.017	mg/m3		1/03/2023
Carbon dioxide	7.6	%		1/03/2023

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	310	m3/sec		19/04/2023
Moisture	6.1	%		19/04/2023
Oxygen	7.2	%		19/04/2023
Solid Particles	6.9	mg/m3		19/04/2023
Temperature	118	degC		19/04/2023
Carbon dioxide	12.8	%		19/04/2023
Cadmium	<0.0003	mg/m3		1/03/2023
Flow Rate	240	m3/sec		1/03/2023
Mercury	0.00065	mg/m3		1/03/2023
Moisture	5.6	%		1/03/2023
Oxygen	9.9	%		1/03/2023
Solid Particles	5.3	mg/m3		1/03/2023
Temperature	113	degC		1/03/2023
Type 1 and Type 2 substances in Aggregate	<0.052	mg/m3		1/03/2023
Carbon dioxide	10.1	%		1/03/2023

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	0.03	mg/m3	20	5/05/2023
Fluorine	7.4	mg/m3	30	5/05/2023
Hydrogen chloride	8.2	mg/m3	50	5/05/2023
Solid Particles	6.8	mg/m3	50	5/05/2023
Sulfuric acid mist and sulfur trioxide (as SO3)	2.0	mg/m3	100	5/05/2023
Volatile organic compounds as n-propane equivalent	<0.07	mg/m3	10	5/05/2023
Cadmium	<0.0002	mg/m3	0.2	1/03/2023
Mercury	0.0016	mg/m3	0.05	1/03/2023
Solid Particles	5.4	mg/m3	50	1/03/2023
Type 1 and 2 substances in Aggregate	<0.02	mg/m3	0.75	1/03/2023

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	320	m^3/sec		5/05/2023
Moisture	4.6	%		5/05/2023
Oxygen	8.6	%		5/05/2023
Solid Particles	9.1	mg/m^3		5/05/2023
Temperature	112	degC		5/05/2023
Carbon dioxide	11.8	%		5/05/2023
Chlorine	0.03	mg/m^3		5/05/2023
Fluorine	7.4	mg/m^3		5/05/2023
Hydrogen chloride	8.2	mg/m^3		5/05/2023
Sulfuric acid mist and sulfur trioxide (as SO3)	2.0	mg/m^3		5/05/2023
Volatile organic compounds as n-propane equivalent	<0.07	mg/m^3		5/05/2023
Cadmium	<0.0003	mg/m^3		1/03/2023
Flow Rate	240	m^3/sec		1/03/2023
Mercury	0.0023	mg/m^3		1/03/2023
Moisture	5.1	%		1/03/2023
Oxygen	11	%		1/03/2023
Solid Particles	5.7	mg/m^3		1/03/2023
Temperature	114	degC		1/03/2023
Type 1 and Type 2 substances in Aggregate	<0.034	mg/m^3		1/03/2023
Carbon dioxide	8.9	%		1/03/2023

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	290	m^3/sec		4/05/2023
Moisture	5.8	%		4/05/2023
Oxygen	6.7	%		4/05/2023
Solid Particles	4.3	mg/m^3		4/05/2023
Temperature	108	degC		4/05/2023
Carbon dioxide	13.4	%		4/05/2023
Cadmium	<0.0002	mg/m^3		1/03/2023
Flow Rate	260	m^3/sec		1/03/2023
Mercury	0.00099	mg/m^3		1/03/2023
Moisture	4.7	%		1/03/2023
Oxygen	8.5	%		1/03/2023
Solid Particles	5.2	mg/m^3		1/03/2023
Temperature	117	degC		1/03/2023
Type 1 and Type 2 substances in Aggregate	<0.015	mg/m^3		1/03/2023
Carbon dioxide	11	%		1/03/2023

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/m2/month		
		Ash	Combustible	Insoluble
E2	17	0.5	0.4	0.9
E4	18	0.6	1.6	2.2
E6	19	0.1	0.2	0.3
U6	20	0.7	0.8	1.5

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
^{0}C	m	degC	pH unit	ppt	%	mg/L	m
18.45	0.5	18.03	8.46	35.3	88.7	5.37	1.75

Name	Reading	Units	Date
Aluminium	0.06	mg/L	5/06/2023
Ammonia	<0.005	mg/L	5/06/2023
Arsenic III	<0.004	mg/	5/06/2023
Arsenic V	<0.004	mg/L	5/06/2023
Cadmium	<0.0002	mg/L	5/06/2023
Chromium (Trivalent)	<0.001	mg/L	5/06/2023
Chromium (VI) Compounds	<0.001	mg/L	5/06/2023
Copper	0.002	mg/L	5/06/2023
Iron	0.071	mg/L	5/06/2023
Lead	<0.0002	mg/L	5/06/2023
Manganese	0.0036	mg/L	5/06/2023
Nickel	<0.0005	mg/L	5/06/2023
pH	8.14	pH units	5/06/2023
Selenium	<0.002	mg/L	5/06/2023
Total Suspended Solids	20	mg/L	5/06/2023
Vanadium	0.0021	mg/L	5/06/2023
Zinc	<0.005	mg/L	5/06/2023

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
^{0}C	m	degC	pH unit	ppt	%	mg/L	m
15.68	0.5	17.19	8.55	32.2	92.3	6.94	4.25

Name	Reading	Units	Date
Aluminium	0.023	mg/L	5/06/2023
Ammonia	<0.005	mg/L	5/06/2023
Arsenic III	<0.004	mg/L	5/06/2023
Arsenic V	<0.004	mg/L	5/06/2023
Cadmium	<0.0002	mg/L	5/06/2023
Chromium (Trivalent)	<0.001	mg/L	5/06/2023
Chromium (VI) Compounds	<0.001	mg/L	5/06/2023
Copper	0.003	mg/L	5/06/2023
Iron	0.021	mg/L	5/06/2023
Lead	<0.0002	mg/L	5/06/2023
Manganese	0.0033	mg/L	5/06/2023
Nickel	<0.0005	mg/L	5/06/2023
pH	8.13	pH units	5/06/2023
Selenium	<0.002	mg/L	5/06/2023
Total Suspended Solids	24	mg/L	5/06/2023
Vanadium	0.0024	mg/L	5/06/2023
Zinc	<0.005	mg/L	5/06/2023

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
^{0}C	m	degC	pH unit	ppt	%	mg/L	m
16.37	0.5	16.69	7.94	34.9	97.6	7.44	4.75

Name	Reading	Units	Date
Aluminium	0.014	mg/L	5/06/2023
Ammonia	<0.005	mg/L	5/06/2023
Arsenic III	<0.004	mg/L	5/06/2023
Arsenic V	<0.004	mg/L	5/06/2023
Cadmium	<0.0002	mg/L	5/06/2023
Chromium (Trivalent)	<0.001	mg/L	5/06/2023
Chromium (VI) Compounds	<0.001	mg/L	5/06/2023
Copper	0.001	mg/L	5/06/2023
Iron	0.013	mg/L	5/06/2023
Lead	<0.0002	mg/L	5/06/2023
Manganese	0.0021	mg/L	5/06/2023
Nickel	<0.0005	mg/L	5/06/2023
pH	8.19	pH units	5/06/2023
Selenium	<0.002	mg/L	5/06/2023
Total Suspended Solids	21	mg/L	5/06/2023
Vanadium	0.0018	mg/L	5/06/2023
Zinc	<0.005	mg/L	5/06/2023

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
^{0}C	m	degC	pH unit	ppt	%	mg/L	m
16.56	0.5	18.79	8.38	35.3	94.1	6.86	4.25

Name	Reading	Units	Date
Aluminium	0.026	mg/L	5/06/2023
Ammonia	<0.005	mg/L	5/06/2023
Arsenic III	<0.004	mg/L	5/06/2023
Arsenic V	<0.004	mg/L	5/06/2023
Cadmium	<0.0002	mg/L	5/06/2023
Chromium (Trivalent)	<0.001	mg/L	5/06/2023
Chromium (VI) Compounds	<0.001	mg/L	5/06/2023
Copper	0.002	mg/L	5/06/2023
Iron	0.030	mg/L	5/06/2023
Lead	<0.0002	mg/L	5/06/2023
Manganese	0.0024	mg/L	5/06/2023
Nickel	<0.0005	mg/L	5/06/2023
pH	8.14	pH units	5/06/2023
Selenium	<0.002	mg/L	5/06/2023
Total Suspended Solids	24	mg/L	5/06/2023
Vanadium	0.0021	mg/L	5/06/2023
Zinc	<0.005	mg/L	5/06/2023

Eraring Ash Dam Quality Monitoring

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

Name	Reading	Units	Licence Limit	Date
Aluminium	0.093	mg/L	-	5/06/2023
Ammonia	2.04	mg/L	-	5/06/2023
Arsenic III	<0.0005	mg/L	-	5/06/2023
Arsenic V	0.0092	mg/L	-	5/06/2023
Cadmium	0.00022	mg/L	-	5/06/2023
Chromium (Trivalent)	<0.001	mg/L	-	5/06/2023
Chromium (VI) Compounds	<0.01	mg/L	-	5/06/2023
Copper	0.0142	mg/L	-	5/06/2023
Iron	0.045	mg/L	-	5/06/2023
Lead	0.0003	mg/L	-	5/06/2023
Manganese	0.0872	mg/L	-	5/06/2023
Nickel	0.0048	mg/L	-	5/06/2023
Nitrite and Nitrate as N	5.87	mg/L	-	5/06/2023
Nitrogen	8.4	mg/L	-	5/06/2023
pH	7.83	pH units	-	5/06/2023
Phosphorus as P	0.85	mg/L	-	5/06/2023
Reactive Phosphorus as P	0.83	mg/L	-	5/06/2023
Selenium	0.0341	mg/L	-	5/06/2023
Total Kjeldahl Nitrogen	2.5	mg/L	-	5/06/2023
Total Suspended Solids	7	mg/L	-	5/06/2023
Vanadium	0.0488	mg/L	-	5/06/2023
Zinc	0.027	mg/L	-	5/06/2023

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	0.10	mg/L	-	5/06/2023
Ammonia	<0.005	mg/L	-	5/06/2023
Arsenic III	<0.004	mg/L	-	5/06/2023
Arsenic V	<0.004	mg/L	-	5/06/2023
Cadmium	<0.0002	mg/L	-	5/06/2023
Chromium (Trivalent)	<0.001	mg/L	-	5/06/2023
Chromium (VI) Compounds	<0.01	mg/L	-	5/06/2023
Copper	0.0016	mg/L	-	5/06/2023
Iron	0.144	mg/L	-	5/06/2023
Lead	<0.0002	mg/L	-	5/06/2023
Manganese	0.0052	mg/L	-	5/06/2023
Nickel	0.0006	mg/L	-	5/06/2023
pH	8.12	pH units	-	5/06/2023
Selenium	<0.001	mg/L	-	5/06/2023
Total Suspended Solids	7	mg/L	-	5/06/2023
Vanadium	0.0022	mg/L	-	5/06/2023
Zinc	0.010	mg/L	-	5/06/2023
Dissolved Oxygen	1.82	mg/L	-	5/06/2023
Field Temperature	20.7	degC	-	5/06/2023
Salinity	35.7	ppt	-	5/06/2023
Secchi Disk	2.50	m	-	5/06/2023
Temperature – Average	16.31	deg C	-	June2023
Temperature – Minimum	13.92	deg C	-	June2023
Temperature - Maximum	19.41	deg C	-	June2023

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	5/06/2023
Iron	0.171	mg/L	0.3	5/06/2023
Selenium	<0.001	mg/L	0.002	5/06/2023
Temperature – Average	24.99	deg C	37.5	June2023
Temperature – Minimum	18.80	deg C	37.5	June2023
Temperature - Maximum	29.79	deg C	37.5	June2023
Maximum Daily Discharge from Ash Dam	6.29	ML	150	June2023
Monthly Discharge from Ash Dam	44.94	ML	-	June2023

Emergency Discharge – Toe Drain Pond

EPA Identification no. 24 - Emergency discharge to toe drain collection pond
No Discharge during June 2023, background sample only

Name	Reading	Units	Licence Limit	Date
Aluminium	1.97	mg/L	-	5/06/2023
Ammonia	2.77	mg/L	-	5/06/2023
Arsenic III	<0.004	mg/L	-	5/06/2023
Arsenic V	<0.004	mg/L	-	5/06/2023
Cadmium	<0.00005	mg/L	-	5/06/2023
Chromium (Trivalent)	<0.001	mg/L	-	5/06/2023
Chromium (VI) Compounds	<0.01	mg/L	-	5/06/2023
Copper	<0.0005	mg/L	-	5/06/2023
Iron	14.1	mg/L	-	5/06/2023
Lead	0.0004	mg/L	-	5/06/2023
Manganese	1.26	mg/L	-	5/06/2023
Nickel	0.0048	mg/L	-	5/06/2023
Nitrite and Nitrate as N	0.119	mg/L	-	5/06/2023
Nitrogen	2.47	mg/L	-	5/06/2023
pH	6.81	pH units	6-9.5	5/06/2023
Phosphorus as P	2.06	mg/L	-	5/06/2023
Reactive Phosphorus as P	0.036	mg/L	-	5/06/2023
Selenium	0.0005	mg/L	-	5/06/2023
Total Kjeldahl Nitrogen	2.35	mg/L	-	5/06/2023
Total Suspended Solids	44	mg/L	50	5/06/2023
Vanadium	0.0014	mg/L	-	5/06/2023
Zinc	0.010	mg/L	-	5/06/2023

MR217

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

MR217 did not discharge throughout June 2023

Name	Reading	Units	Licence Limit	Date
Aluminium	12.3	mg/L	-	5/06/2023
Ammonia	0.026	mg/L	-	5/06/2023
Arsenic III	<0.0005	mg/L	-	5/06/2023
Arsenic V	<0.0005	mg/L	-	5/06/2023
Cadmium	0.00018	mg/L	-	5/06/2023
Chromium (Trivalent)	<0.001	mg/L	-	5/06/2023
Chromium (VI) Compounds	<0.01	mg/L	-	5/06/2023
Copper	0.0016	mg/L	-	5/06/2023
Iron	0.216	mg/L	-	5/06/2023
Lead	0.0004	mg/L	-	5/06/2023
Manganese	4.05	mg/L	-	5/06/2023
Nickel	0.026	mg/L	-	5/06/2023
Nitrite and Nitrate as N	0.058	mg/L	-	5/06/2023
Nitrogen	0.2	mg/L	-	5/06/2023
pH	4.57	pH units	6-9.5	5/06/2023
Phosphorus as P	0.023	mg/L	-	5/06/2023
Reactive Phosphorus as P	0.013	mg/L	-	5/06/2023
Selenium	0.0022	mg/L	-	5/06/2023
Total Kjeldahl Nitrogen	0.14	mg/L	-	5/06/2023
Total Suspended Solids	<5	mg/L	50	5/06/2023
Vanadium	<0.0002	mg/L	-	5/06/2023
Zinc	0.078	mg/L	-	5/06/2023

Groundwater Monitoring
Groundwater Well – MW01

EPA Identification no. 32 – Groundwater Monitoring Well 01

Name	Reading	Units	Date
Aluminium	0.209	mg/L	14/06/2023
Ammonia	0.06	mg/L	14/06/2023
Arsenic (III)	<0.0005	mg/L	14/06/2023
Arsenic (V)	<0.0005	mg/L	14/06/2023
Cadmium	<0.00005	mg/L	14/06/2023
Calcium	2	mg/L	14/06/2023
Chromium (trivalent)	<0.01	mg/L	14/06/2023
Chromium (VI) compounds	<0.01	mg/L	14/06/2023
Copper	0.0010	mg/L	14/06/2023
Electrical Conductivity	412	uS/cm	14/06/2023
Iron	0.240	mg/L	14/06/2023
Lead	0.0010	mg/L	14/06/2023
Magnesium	5	mg/L	14/06/2023
Manganese	0.133	mg/L	14/06/2023
Nickel	0.0048	mg/L	14/06/2023
pH	5.13	pH units	14/06/2023
Potassium	5	mg/L	14/06/2023
Selenium	<0.0002	mg/L	14/06/2023
Sodium	64	mg/L	14/06/2023
Standing Water Level	8.641	metres	14/06/2023
Vanadium	0.0004	mg/L	14/06/2023
Zinc	0.026	mg/L	14/06/2023

Groundwater Monitoring
Groundwater Well – MW02

EPA Identification no. 33 – Groundwater Monitoring Well 02

Name	Reading	Units	Date
Aluminium	0.395	mg/L	14/06/2023
Ammonia	1.42	mg/L	14/06/2023
Arsenic (III)	0.0030	mg/L	14/06/2023
Arsenic (V)	0.0005	mg/L	14/06/2023
Cadmium	<0.00005	mg/L	14/06/2023
Calcium	210	mg/L	14/06/2023
Chromium (trivalent)	<0.01	mg/L	14/06/2023
Chromium (VI) compounds	<0.01	mg/L	14/06/2023
Copper	0.0019	mg/L	14/06/2023
Electrical Conductivity	12000	uS/cm	14/06/2023
Iron	11.1	mg/L	14/06/2023
Lead	0.0014	mg/L	14/06/2023
Magnesium	203	mg/L	14/06/2023
Manganese	1.62	mg/L	14/06/2023
Nickel	0.0053	mg/L	14/06/2023
pH	6.54	pH units	14/06/2023
Potassium	96	mg/L	14/06/2023
Selenium	0.0003	mg/L	14/06/2023
Sodium	2420	mg/L	14/06/2023
Standing Water Level	4.600	metres	14/06/2023
Vanadium	0.0036	mg/L	14/06/2023
Zinc	0.029	mg/L	14/06/2023

Groundwater Monitoring
Groundwater Well – MW06

EPA Identification no. 34 – Groundwater Monitoring Well 06

Name	Reading	Units	Date
Aluminium	0.018	mg/L	02/06/2023
Ammonia	3.21	mg/L	02/06/2023
Arsenic (III)	0.0050	mg/L	02/06/2023
Arsenic (V)	0.0008	mg/L	02/06/2023
Cadmium	<0.0002	mg/L	02/06/2023
Calcium	449	mg/L	02/06/2023
Chromium (trivalent)	<0.01	mg/L	02/06/2023
Chromium (VI) compounds	<0.01	mg/L	02/06/2023
Copper	<0.001	mg/L	02/06/2023
Electrical Conductivity	20300	uS/cm	02/06/2023
Iron	1.51	mg/L	02/06/2023
Lead	0.0003	mg/L	02/06/2023
Magnesium	246	mg/L	02/06/2023
Manganese	0.434	mg/L	02/06/2023
Nickel	0.0009	mg/L	02/06/2023
pH	6.53	pH units	02/06/2023
Potassium	111	mg/L	02/06/2023
Selenium	<0.002	mg/L	02/06/2023
Sodium	3230	mg/L	02/06/2023
Standing Water Level	1.810	metres	02/06/2023
Vanadium	0.0009	mg/L	02/06/2023
Zinc	0.012	mg/L	02/06/2023

Groundwater Monitoring
Groundwater Well – EGM/D26

EPA Identification no. 35 – Groundwater Monitoring Well D26
Groundwater well was dry during sampling in June 2023

Name	Reading	Units	Date
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	-