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

Environmental Monitoring Data May 2023



Unit 1A Boiler Continuous Emission Monitoring Summary

EPA Identification no.7 - Air emissions monitoring, Boiler 1 stack discharge to air
Unit 1A Unit Out of Service 1, 4 and 14-15 May 2023
NOx Unit Out of Service 27-29 May 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 May	-	-	-	-	-	-
2 May	343	389	305	470	620	320
3 May	357	407	304	496	714	291
4 May	-	-	-	-	-	-
5 May	336	369	291	460	620	329
6 May	339	362	321	451	635	238
7 May	362	378	343	410	531	300
8 May	369	398	336	451	541	245
9 May	334	355	302	484	534	428
10 May	374	404	351	588	718	423
11 May	369	396	339	633	909	472
12 May	355	384	336	597	802	472
13 May	423	526	298	569	676	400
14 May	-	-	-	-	-	-
15 May	-	-	-	-	-	-
16 May	446	500	371	554	685	482
17 May	424	497	376	490	560	435
18 May	382	440	313	533	616	450
19 May	392	452	322	608	736	496
20 May	407	430	364	619	761	456
21 May	392	427	361	644	767	540
22 May	424	498	360	630	770	493
23 May	426	467	364	573	798	388
24 May	439	480	371	663	877	533
25 May	408	482	349	659	774	541
26 May	418	457	368	597	676	517
27 May	-	-	-	520	593	446
28 May	-	-	-	558	818	438
29 May	-	-	-	597	689	464
30 May	405	432	354	601	804	501
31 May	423	477	372	597	692	483

Unit 1B Boiler Continuous Emission Monitoring Summary

EPA Identification no.7 - Air emissions monitoring, Boiler 1 stack discharge to air
Unit 1B Unit Out of Service of 1 and 4-5 May 2023.
NOx Unit Out of Service 6-13, 17 and 19-22 May 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 May	-	-	-	-	-	-
2 May	336	388	285	723	814	496
3 May	301	388	137	693	750	649
4 May	-	-	-	-	-	-
5 May	-	-	-	-	-	-
6 May	-	-	-	686	834	576
7 May	-	-	-	666	727	590
8 May	-	-	-	697	738	606
9 May	-	-	-	644	712	588
10 May	-	-	-	684	734	619
11 May	-	-	-	749	814	693
12 May	-	-	-	684	738	616
13 May	-	-	-	673	723	637
14 May	411	479	340	711	814	624
15 May	415	440	368	664	683	649
16 May	404	458	324	634	721	587
17 May	-	-	-	677	733	646
18 May	373	421	214	651	712	613
19 May	-	-	-	714	817	670
20 May	-	-	-	722	798	675
21 May	-	-	-	729	775	697
22 May	-	-	-	727	766	696
23 May	385	433	328	702	749	674
24 May	427	457	363	694	753	674
25 May	406	452	366	688	741	658
26 May	402	463	352	686	723	641
27 May	422	465	342	625	658	598
28 May	389	428	340	633	695	593
29 May	385	457	319	642	685	611
30 May	378	419	315	637	685	610
31 May	413	464	358	643	672	627

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 1, 4-5 and 23-26 May 2023
NOx Unit Out of Service 2-3 and 27-29 May 2023.
SO_2 Unit Out of Service 20-22 May 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 May	-	-	-	-	-	-
2 May	-	-	-	559	649	485
3 May	-	-	-	559	603	502
4 May	-	-	-	-	-	-
5 May	-	-	-	-	-	-
6 May	332	375	285	492	547	434
7 May	360	401	321	539	597	456
8 May	363	432	330	520	581	428
9 May	366	392	313	530	567	500
10 May	388	431	342	521	572	489
11 May	359	398	284	582	604	559
12 May	299	314	274	590	646	530
13 May	304	344	278	579	610	540
14 May	315	347	262	569	601	540
15 May	327	371	296	556	571	547
16 May	313	352	282	526	556	502
17 May	359	410	319	543	574	524
18 May	346	415	302	534	582	495
19 May	355	387	311	593	642	557
20 May	348	373	309	-	-	-
21 May	348	424	304	-	-	-
22 May	351	438	314	-	-	-
23 May	-	-	-	-	-	-
24 May	-	-	-	-	-	-
25 May	-	-	-	-	-	-
26 May	-	-	-	-	-	-
27 May	-	-	-	219	416	59
28 May	-	-	-	508	562	429
29 May	-	-	-	514	552	476
30 May	370	433	311	502	560	470
31 May	422	557	326	503	536	481

Unit 2B Boiler Continuous Emission Monitoring Summary

EPA Identification no. 10 - Air emissions monitoring, Boiler 2 stack discharge to air
Unit 2B Unit Out of Service, 1, 4 and 23-27 May 2023
SO_2 Unit Out of Service 28 May 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 May	-	-	-	-	-	-
2 May	172	271	121	321	516	204
3 May	189	386	124	358	478	228
4 May	-	-	-	-	-	-
5 May	215	295	155	305	417	229
6 May	215	303	144	302	388	213
7 May	196	258	155	296	408	203
8 May	195	331	150	263	421	196
9 May	248	430	149	346	423	208
10 May	278	320	221	404	490	298
11 May	267	318	156	444	497	268
12 May	231	256	198	466	527	412
13 May	243	284	206	474	578	399
14 May	257	322	213	470	548	401
15 May	257	303	218	447	482	403
16 May	239	285	208	411	486	369
17 May	259	323	170	411	443	245
18 May	259	342	213	413	502	350
19 May	271	303	238	458	495	392
20 May	272	307	234	464	500	397
21 May	271	339	233	462	536	402
22 May	275	310	219	470	544	368
23 May	-	-	-	-	-	-
24 May	-	-	-	-	-	-
25 May	-	-	-	-	-	-
26 May	-	-	-	-	-	-
27 May	-	-	-	-	-	-
28 May	170	312	126	-	-	-
29 May	240	671	179	247	470	171
30 May	191	283	159	236	430	184
31 May	216	354	169	235	351	171

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 1, 5-19, 22 and 29 May 2023
NOx Unit Out of Service 26 and 28 May 2023.
SO_2 Unit Out of Service 21 May 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 May	-	-	-	-	-	-
2 May	339	418	271	774	885	708
3 May	294	327	273	774	804	735
4 May	290	320	196	766	813	404
5 May	-	-	-	-	-	-
6 May	-	-	-	-	-	-
7 May	-	-	-	-	-	-
8 May	-	-	-	-	-	-
9 May	-	-	-	-	-	-
10 May	-	-	-	-	-	-
11 May	-	-	-	-	-	-
12 May	-	-	-	-	-	-
13 May	-	-	-	-	-	-
14 May	-	-	-	-	-	-
15 May	-	-	-	-	-	-
16 May	-	-	-	-	-	-
17 May	-	-	-	-	-	-
18 May	-	-	-	-	-	-
19 May	-	-	-	-	-	-
20 May	279	318	225	661	731	325
21 May	378	579	252	-	-	-
22 May	-	-	-	-	-	-
23 May	301	350	245	675	728	652
24 May	302	344	241	676	694	654
25 May	323	370	261	683	734	654
26 May	-	-	-	700	724	671
27 May	362	421	287	636	684	611
28 May	-	-	-	605	677	474
29 May	-	-	-	-	-	-
30 May	378	448	331	631	664	605
31 May	436	601	328	642	663	616

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 1, 5-19, 26 and 30-31 May 2023
NOx Unit Out of Service 2 and 27-28 May 2023
SO_2 Unit Out of Service 20, 23 and 29 May 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 May	-	-	-	-	-	-
2 May	-	-	-	726	810	674
3 May	288	307	274	716	743	677
4 May	298	464	280	731	754	689
5 May	-	-	-	-	-	-
6 May	-	-	-	-	-	-
7 May	-	-	-	-	-	-
8 May	-	-	-	-	-	-
9 May	-	-	-	-	-	-
10 May	-	-	-	-	-	-
11 May	-	-	-	-	-	-
12 May	-	-	-	-	-	-
13 May	-	-	-	-	-	-
14 May	-	-	-	-	-	-
15 May	-	-	-	-	-	-
16 May	-	-	-	-	-	-
17 May	-	-	-	-	-	-
18 May	-	-	-	-	-	-
19 May	-	-	-	-	-	-
20 May	324	414	248	-	-	-
21 May	288	316	242	717	752	663
22 May	305	339	277	719	739	695
23 May	316	356	282	-	-	-
24 May	325	395	272	673	689	653
25 May	322	364	271	672	700	659
26 May	-	-	-	-	-	-
27 May	-	-	-	614	675	590
28 May	-	-	-	614	638	580
29 May	380	480	284	-	-	-
30 May	-	-	-	-	-	-
31 May	-	-	-	-	-	-

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 6-10 May 2023
NOx Unit Out of Service 1 and 27-28 May 2023
SO_2 Unit Out of service 4-5 and 29 May 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 May	-	-	-	654	730	598
2 May	360	437	273	693	778	616
3 May	353	389	321	643	704	597
4 May	357	427	292	-	-	-
5 May	377	446	309	-	-	-
6 May	-	-	-	-	-	-
7 May	-	-	-	-	-	-
8 May	-	-	-	-	-	-
9 May	-	-	-	-	-	-
10 May	-	-	-	-	-	-
11 May	374	439	311	681	750	562
12 May	367	415	296	692	757	614
13 May	335	447	194	633	675	585
14 May	373	436	278	647	741	570
15 May	387	476	180	619	634	570
16 May	346	380	301	591	660	506
17 May	371	413	312	632	701	558
18 May	392	591	133	577	703	258
19 May	389	439	301	665	742	610
20 May	382	439	338	669	726	606
21 May	362	409	316	663	697	620
22 May	378	431	281	674	708	642
23 May	384	429	329	663	707	596
24 May	404	478	321	646	678	589
25 May	450	516	388	623	656	575
26 May	411	451	354	671	701	632
27 May	-	-	-	607	681	565
28 May	-	-	-	597	650	516
29 May	416	484	333	-	-	-
30 May	401	461	337	615	655	570
31 May	451	533	324	606	638	557

Unit 4B Boiler Continuous Emission Monitoring Summary

EPA Identification no. 14 – Air emissions monitoring, Boiler 4 stack discharge to air
Unit 4A Out of Service 7-8, 19 and 29 May 2023
NOx Unit Out of Service 12 and 27-28 May 2023
SO_2 Unit Out of service 18 and 29 May 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 May	383	444	302	718	822	581
2 May	367	450	272	731	835	486
3 May	347	460	296	692	758	627
4 May	382	458	329	678	706	584
5 May	392	495	342	658	716	590
6 May	376	508	285	645	743	548
7 May	-	-	-	-	-	-
8 May	-	-	-	-	-	-
9 May	387	480	302	663	759	584
10 May	453	545	372	683	787	506
11 May	399	513	283	745	821	610
12 May	-	-	-	719	811	623
13 May	390	460	249	707	782	634
14 May	397	485	242	710	791	527
15 May	443	545	386	698	730	590
16 May	404	526	295	653	733	530
17 May	390	460	310	678	719	572
18 May	411	595	107	-	-	-
19 May	-	-	-	-	-	-
20 May	405	482	310	745	775	606
21 May	360	428	281	722	759	600
22 May	406	454	303	745	800	652
23 May	413	455	330	732	809	476
24 May	441	499	391	726	759	565
25 May	474	527	374	691	737	493
26 May	425	513	334	703	750	578
27 May	-	-	-	621	673	537
28 May	-	-	-	637	690	526
29 May	-	-	-	-	-	-
30 May	416	462	351	665	697	577
31 May	388	432	362	641	702	527

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	0.014	mg/m^3	20	20/12/2022
Fluorine	9.8	mg/m^3	30	20/12/2022
Hydrogen chloride	13	mg/m^3	50	20/12/2022
Solid Particles	1.7	mg/m^3	50	20/12/2022
Sulfuric acid mist and sulfur trioxide (as SO3)	4.7	mg/m^3	100	20/12/2022
Volatile organic compounds as n-propane equivalent	<0.01	mg/m^3	10	20/12/2022
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	210	m3/sec		28/02/2023
Moisture	5.5	%		28/02/2023
Oxygen	9.3	%		20/12/2022
Solid Particles	3.1	mg/m3		20/12/2022
Temperature	118	degC		20/12/2022
Carbon dioxide	10.5	%		20/12/2022
Chlorine	0.014	mg/m3		20/12/2022
Fluorine	9.8	mg/m3		20/12/2022
Hydrogen chloride	13	mg/m3		20/12/2022
Sulfuric acid mist and sulfur trioxide (as SO3)	4.7	mg/m3		20/12/2022
Volatile organic compounds as n-propane equivalent	<0.01	mg/m3		20/12/2022
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	220	m3/sec		21/12/2022
Moisture	5.0	%		21/12/2022
Oxygen	8.8	%		21/12/2022
Solid Particles	1.5	mg/m3		21/12/2022
Temperature	120	degC		21/12/2022
Carbon dioxide	10.9	%		21/12/2022
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	23/11/2022
Fluorine	17	mg/m^3	30	23/11/2022
Hydrogen chloride	16	mg/m^3	50	23/11/2022
Solid Particles	6.9	mg/m^3	50	23/11/2022
Sulfuric acid mist and sulfur trioxide (as SO3)	1.9	mg/m^3	100	23/11/2022
Volatile organic compounds as n-propane equivalent	0.033	mg/m^3	10	23/11/2022
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	230	m3/sec		23/11/2022
Moisture	5.1	%		23/11/2022
Oxygen	8.9	%		23/11/2022
Solid Particles	11	mg/m3		23/11/2022
Temperature	122	degC		23/11/2022
Carbon dioxide	10.8	%		23/11/2022
Chlorine	<0.02	mg/m3		23/11/2022
Fluorine	17	mg/m3		23/11/2022
Hydrogen chloride	16	mg/m3		23/11/2022
Sulfuric acid mist and sulfur trioxide (as SO3)	1.9	mg/m3		23/11/2022
Volatile organic compounds as n-propane equivalent	0.033	mg/m3		23/11/2022
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	210	m3/sec		23/11/2022
Moisture	5.2	%		23/11/2022
Oxygen	9.3	%		23/11/2022
Solid Particles	2.5	mg/m3		23/11/2022
Temperature	107	degC		23/11/2022
Carbon dioxide	11.2	%		23/11/2022
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	<0.02	mg/m3	20	22/11/2022
Fluorine	15	mg/m3	30	22/11/2022
Hydrogen chloride	9.4	mg/m3	50	22/11/2022
Solid Particles	2	mg/m3	50	22/11/2022
Sulfuric acid mist and sulfur trioxide (as SO3)	1.7	mg/m3	100	22/11/2022
Volatile organic compounds as n-propane equivalent	<0.04	mg/m3	10	22/11/2022
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	200	m3/sec		22/11/2022
Moisture	5.6	%		22/11/2022
Oxygen	8	%		22/11/2022
Solid Particles	1.6	mg/m3		22/11/2022
Temperature	110	degC		22/11/2022
Carbon dioxide	12.2	%		22/11/2022
Chlorine	<0.02	mg/m3		22/11/2022
Fluorine	15	mg/m3		22/11/2022
Hydrogen chloride	9.4	mg/m3		22/11/2022
Sulfuric acid mist and sulfur trioxide (as SO3)	1.7	mg/m3		22/11/2022
Volatile organic compounds as n-propane equivalent	<0.04	mg/m3		22/11/2022
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	200	m3/sec		22/11/2022
Moisture	5.1	%		22/11/2022
Oxygen	8.6	%		22/11/2022
Solid Particles	2.4	mg/m3		22/11/2022
Temperature	126	degC		22/11/2022
Carbon dioxide	11	%		22/11/2022
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	<0.02	mg/m3	20	24/11/2022
Fluorine	14	mg/m3	30	24/11/2022
Hydrogen chloride	18	mg/m3	50	24/11/2022
Solid Particles	2.2	mg/m3	50	24/11/2022
Sulfuric acid mist and sulfur trioxide (as SO3)	2.9	mg/m3	100	24/11/2022
Volatile organic compounds as n-propane equivalent	<0.09	mg/m3	10	24/11/2022
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	220	m^3/sec		24/11/2022
Moisture	5.3	%		24/11/2022
Oxygen	8.9	%		24/11/2022
Solid Particles	2.4	mg/m^3		24/11/2022
Temperature	111	degC		24/11/2022
Carbon dioxide	11.9	%		24/11/2022
Chlorine	<0.02	mg/m^3		24/11/2022
Fluorine	14	mg/m^3		24/11/2022
Hydrogen chloride	18	mg/m^3		24/11/2022
Sulfuric acid mist and sulfur trioxide (as SO3)	2.9	mg/m^3		24/11/2022
Volatile organic compounds as n-propane equivalent	<0.09	mg/m^3		24/11/2022
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	180	m^3/sec		24/11/2022
Moisture	5.2	%		24/11/2022
Oxygen	9.5	%		24/11/2022
Solid Particles	1.9	mg/m^3		24/11/2022
Temperature	107	degC		24/11/2022
Carbon dioxide	10.3	%		24/11/2022
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	0.8	0.3	1.1
E4	18	0.4	0.6	1.0
E6	19	0.1	0.1	0.2
U6	20	0.5	0.3	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
^{0}C	m	degC	pH unit	ppt	%	mg/L	m
19.25	0.5	21.21	7.99	34.9	78.0	5.47	1.75

Name	Reading	Units	Date
Aluminium	0.125	mg/L	1/05/2023
Ammonia	<0.005	mg/L	1/05/2023
Arsenic III	<0.004	mg/	1/05/2023
Arsenic V	<0.004	mg/L	1/05/2023
Cadmium	<0.0002	mg/L	1/05/2023
Chromium (Trivalent)	<0.001	mg/L	1/05/2023
Chromium (VI) Compounds	<0.001	mg/L	1/05/2023
Copper	0.002	mg/L	1/05/2023
Iron	0.178	mg/L	1/05/2023
Lead	<0.0002	mg/L	1/05/2023
Manganese	0.0071	mg/L	1/05/2023
Nickel	<0.0005	mg/L	1/05/2023
pH	8.07	pH units	1/05/2023
Selenium	<0.002	mg/L	1/05/2023
Total Suspended Solids	16	mg/L	1/05/2023
Vanadium	0.0028	mg/L	1/05/2023
Zinc	<0.005	mg/L	1/05/2023

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
15.60	0.5	21.15	8.01	35.2	81.2	5.69	2.75

Name	Reading	Units	Date
Aluminium	0.040	mg/L	1/05/2023
Ammonia	<0.005	mg/L	1/05/2023
Arsenic III	<0.004	mg/L	1/05/2023
Arsenic V	<0.004	mg/L	1/05/2023
Cadmium	<0.0002	mg/L	1/05/2023
Chromium (Trivalent)	<0.001	mg/L	1/05/2023
Chromium (VI) Compounds	<0.001	mg/L	1/05/2023
Copper	0.002	mg/L	1/05/2023
Iron	0.047	mg/L	1/05/2023
Lead	<0.0002	mg/L	1/05/2023
Manganese	0.005	mg/L	1/05/2023
Nickel	<0.0005	mg/L	1/05/2023
pH	8.10	pH units	1/05/2023
Selenium	<0.002	mg/L	1/05/2023
Total Suspended Solids	29	mg/L	1/05/2023
Vanadium	0.0027	mg/L	1/05/2023
Zinc	<0.005	mg/L	1/05/2023

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
13.85	0.5	20.43	8.09	34.5	84.3	6.00	7.25

Name	Reading	Units	Date
Aluminium	0.010	mg/L	1/05/2023
Ammonia	<0.005	mg/L	1/05/2023
Arsenic III	<0.004	mg/L	1/05/2023
Arsenic V	<0.004	mg/L	1/05/2023
Cadmium	<0.0002	mg/L	1/05/2023
Chromium (Trivalent)	<0.001	mg/L	1/05/2023
Chromium (VI) Compounds	<0.001	mg/L	1/05/2023
Copper	<0.001	mg/L	1/05/2023
Iron	0.010	mg/L	1/05/2023
Lead	<0.0002	mg/L	1/05/2023
Manganese	0.0032	mg/L	1/05/2023
Nickel	<0.0005	mg/L	1/05/2023
pH	8.14	pH units	1/05/2023
Selenium	<0.002	mg/L	1/05/2023
Total Suspended Solids	19	mg/L	1/05/2023
Vanadium	0.0018	mg/L	1/05/2023
Zinc	<0.005	mg/L	1/05/2023

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
17.59	0.5	23.71	7.96	34.9	85.4	5.69	4.25

Name	Reading	Units	Date
Aluminium	0.026	mg/L	1/05/2023
Ammonia	<0.005	mg/L	1/05/2023
Arsenic III	<0.004	mg/L	1/05/2023
Arsenic V	<0.004	mg/L	1/05/2023
Cadmium	<0.0002	mg/L	1/05/2023
Chromium (Trivalent)	<0.001	mg/L	1/05/2023
Chromium (VI) Compounds	<0.001	mg/L	1/05/2023
Copper	0.002	mg/L	1/05/2023
Iron	0.040	mg/L	1/05/2023
Lead	<0.0002	mg/L	1/05/2023
Manganese	0.0041	mg/L	1/05/2023
Nickel	<0.0005	mg/L	1/05/2023
pH	8.07	pH units	1/05/2023
Selenium	<0.002	mg/L	1/05/2023
Total Suspended Solids	14	mg/L	1/05/2023
Vanadium	0.0025	mg/L	1/05/2023
Zinc	<0.005	mg/L	1/05/2023

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	0.050	mg/L	-	1/05/2023
Ammonia	1.05	mg/L	-	1/05/2023
Arsenic III	<0.0005	mg/L	-	1/05/2023
Arsenic V	0.0081	mg/L	-	1/05/2023
Cadmium	0.00006	mg/L	-	1/05/2023
Chromium (Trivalent)	<0.001	mg/L	-	1/05/2023
Chromium (VI) Compounds	<0.01	mg/L	-	1/05/2023
Copper	0.0032	mg/L	-	1/05/2023
Iron	0.035	mg/L	-	1/05/2023
Lead	<0.0001	mg/L	-	1/05/2023
Manganese	0.0618	mg/L	-	1/05/2023
Nickel	0.0045	mg/L	-	1/05/2023
Nitrite and Nitrate as N	4.22	mg/L	-	1/05/2023
Nitrogen	5.5	mg/L	-	1/05/2023
pH	7.99	pH units	-	1/05/2023
Phosphorus as P	0.61	mg/L	-	1/05/2023
Reactive Phosphorus as P	0.59	mg/L	-	1/05/2023
Selenium	0.0333	mg/L	-	1/05/2023
Total Kjeldahl Nitrogen	1.3	mg/L	-	1/05/2023
Total Suspended Solids	2	mg/L	-	1/05/2023
Vanadium	0.0476	mg/L	-	1/05/2023
Zinc	0.002	mg/L	-	1/05/2023

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	0.093	mg/L	-	1/05/2023
Ammonia	<0.005	mg/L	-	1/05/2023
Arsenic III	<0.004	mg/L	-	1/05/2023
Arsenic V	<0.004	mg/L	-	1/05/2023
Cadmium	<0.0002	mg/L	-	1/05/2023
Chromium (Trivalent)	<0.001	mg/L	-	1/05/2023
Chromium (VI) Compounds	<0.01	mg/L	-	1/05/2023
Copper	0.0016	mg/L	-	1/05/2023
Iron	0.116	mg/L	-	1/05/2023
Lead	<0.0002	mg/L	-	1/05/2023
Manganese	0.0053	mg/L	-	1/05/2023
Nickel	<0.0005	mg/L	-	1/05/2023
pH	8.12	pH units	-	1/05/2023
Selenium	<0.001	mg/L	-	1/05/2023
Total Suspended Solids	28	mg/L	-	1/05/2023
Vanadium	0.0025	mg/L	-	1/05/2023
Zinc	<0.005	mg/L	-	1/05/2023
Dissolved Oxygen	7.00	mg/L	-	1/05/2023
Field Temperature	20.7	degC	-	1/05/2023
Salinity	35.0	ppt	-	1/05/2023
Secchi Disk	2.25	m	-	1/05/2023
Temperature – Average	18.08	deg C	-	May2023
Temperature – Minimum	15.80	deg C	-	May2023
Temperature - Maximum	21.53	deg C	-	May2023

Eraring Cooling Water Outlet Canal

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

Name	Reading	Units	Licence Limit	Date
Copper	0.002	mg/L	0.005	1/05/2023
Iron	0.101	mg/L	0.3	1/05/2023
Selenium	<0.001	mg/L	0.002	1/05/2023
Temperature – Average	25.34	deg C	37.5	May2023
Temperature – Minimum	20.50	deg C	37.5	May2023
Temperature - Maximum	31.96	deg C	37.5	May2023
Maximum Daily Discharge from Ash Dam	6.65	ML	150	May2023
Monthly Discharge from Ash Dam	61.81	ML	-	May2023

Emergency Discharge – Toe Drain Pond

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

Name	Reading	Units	Licence Limit	Date
Aluminium	0.008	mg/L	-	1/05/2023
Ammonia	2.03	mg/L	-	1/05/2023
Arsenic III	0.0024	mg/L	-	1/05/2023
Arsenic V	0.0012	mg/L	-	1/05/2023
Cadmium	<0.00005	mg/L	-	1/05/2023
Chromium (Trivalent)	<0.001	mg/L	-	1/05/2023
Chromium (VI) Compounds	<0.01	mg/L	-	1/05/2023
Copper	<0.0005	mg/L	-	1/05/2023
Iron	6.45	mg/L	-	1/05/2023
Lead	<0.0001	mg/L	-	1/05/2023
Manganese	0.878	mg/L	-	1/05/2023
Nickel	0.0015	mg/L	-	1/05/2023
Nitrite and Nitrate as N	0.157	mg/L	-	1/05/2023
Nitrogen	2.05	mg/L	-	1/05/2023
pH	6.83	pH units	6-9.5	1/05/2023
Phosphorus as P	0.305	mg/L	-	1/05/2023
Reactive Phosphorus as P	0.009	mg/L	-	1/05/2023
Selenium	0.0004	mg/L	-	1/05/2023
Total Kjeldahl Nitrogen	1.89	mg/L	-	1/05/2023
Total Suspended Solids	43	mg/L	50	1/05/2023
Vanadium	0.0007	mg/L	-	1/05/2023
Zinc	0.002	mg/L	-	1/05/2023

MR217

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

MR217 did not discharge throughout May 2023

Name	Reading	Units	Licence Limit	Date
Aluminium	6.45	mg/L	-	1/05/2023
Ammonia	0.008	mg/L	-	1/05/2023
Arsenic III	<0.0005	mg/L	-	1/05/2023
Arsenic V	<0.0005	mg/L	-	1/05/2023
Cadmium	0.0001	mg/L	-	1/05/2023
Chromium (Trivalent)	<0.001	mg/L	-	1/05/2023
Chromium (VI) Compounds	<0.01	mg/L	-	1/05/2023
Copper	0.0006	mg/L	-	1/05/2023
Iron	0.33	mg/L	-	1/05/2023
Lead	0.0003	mg/L	-	1/05/2023
Manganese	2.51	mg/L	-	1/05/2023
Nickel	0.0165	mg/L	-	1/05/2023
Nitrite and Nitrate as N	0.007	mg/L	-	1/05/2023
Nitrogen	0.10	mg/L	-	1/05/2023
pH	4.55	pH units	6-9.5	1/05/2023
Phosphorus as P	0.03	mg/L	-	1/05/2023
Reactive Phosphorus as P	<0.01	mg/L	-	1/05/2023
Selenium	0.0015	mg/L	-	1/05/2023
Total Kjeldahl Nitrogen	0.09	mg/L	-	1/05/2023
Total Suspended Solids	<5	mg/L	50	1/05/2023
Vanadium	<0.0002	mg/L	-	1/05/2023
Zinc	0.040	mg/L	-	1/05/2023

Groundwater Monitoring
Groundwater Well – MW01

EPA Identification no. 32 – Groundwater Monitoring Well 01

Name	Reading	Units	Date
Aluminium	0.130	mg/L	15/03/2023
Ammonia	<0.10	mg/L	15/03/2023
Arsenic (III)	<0.0005	mg/L	15/03/2023
Arsenic (V)	<0.0005	mg/L	15/03/2023
Cadmium	<0.00005	mg/L	15/03/2023
Calcium	2	mg/L	15/03/2023
Chromium (trivalent)	<0.01	mg/L	15/03/2023
Chromium (VI) compounds	<0.01	mg/L	15/03/2023
Copper	0.0010	mg/L	15/03/2023
Electrical Conductivity	423	uS/cm	15/03/2023
Iron	0.224	mg/L	15/03/2023
Lead	0.0007	mg/L	15/03/2023
Magnesium	5	mg/L	15/03/2023
Manganese	0.131	mg/L	15/03/2023
Nickel	0.0045	mg/L	15/03/2023
pH	4.93	pH units	15/03/2023
Potassium	4	mg/L	15/03/2023
Selenium	0.0002	mg/L	15/03/2023
Sodium	68	mg/L	15/03/2023
Standing Water Level	8.78	metres	15/03/2023
Vanadium	0.0002	mg/L	15/03/2023
Zinc	0.021	mg/L	15/03/2023

Groundwater Monitoring
Groundwater Well – MW02

EPA Identification no. 33 – Groundwater Monitoring Well 02

Name	Reading	Units	Date
Aluminium	0.626	mg/L	16/03/2023
Ammonia	3.99	mg/L	16/03/2023
Arsenic (III)	0.0031	mg/L	16/03/2023
Arsenic (V)	<0.0005	mg/L	16/03/2023
Cadmium	<0.0002	mg/L	16/03/2023
Calcium	290	mg/L	16/03/2023
Chromium (trivalent)	<0.01	mg/L	16/03/2023
Chromium (VI) compounds	<0.01	mg/L	16/03/2023
Copper	0.002	mg/L	16/03/2023
Electrical Conductivity	15600	uS/cm	16/03/2023
Iron	9.33	mg/L	16/03/2023
Lead	0.0016	mg/L	16/03/2023
Magnesium	271	mg/L	16/03/2023
Manganese	1.02	mg/L	16/03/2023
Nickel	0.0011	mg/L	16/03/2023
pH	6.42	pH units	16/03/2023
Potassium	126	mg/L	16/03/2023
Selenium	<0.002	mg/L	16/03/2023
Sodium	3200	mg/L	16/03/2023
Standing Water Level	4.05	metres	16/03/2023
Vanadium	0.0032	mg/L	16/03/2023
Zinc	0.032	mg/L	16/03/2023

Groundwater Monitoring
Groundwater Well – MW06

EPA Identification no. 34 – Groundwater Monitoring Well 06

Name	Reading	Units	Date
Aluminium	0.079	mg/L	15/03/2023
Ammonia	2.86	mg/L	15/03/2023
Arsenic (III)	0.0045	mg/L	15/03/2023
Arsenic (V)	0.0007	mg/L	15/03/2023
Cadmium	<0.0002	mg/L	15/03/2023
Calcium	448	mg/L	15/03/2023
Chromium (trivalent)	<0.01	mg/L	15/03/2023
Chromium (VI) compounds	<0.01	mg/L	15/03/2023
Copper	<0.001	mg/L	15/03/2023
Electrical Conductivity	20200	uS/cm	15/03/2023
Iron	11.2	mg/L	15/03/2023
Lead	0.0007	mg/L	15/03/2023
Magnesium	271	mg/L	15/03/2023
Manganese	0.379	mg/L	15/03/2023
Nickel	0.0008	mg/L	15/03/2023
pH	6.56	pH units	15/03/2023
Potassium	122	mg/L	15/03/2023
Selenium	<0.002	mg/L	15/03/2023
Sodium	3580	mg/L	15/03/2023
Standing Water Level	1.75	metres	15/03/2023
Vanadium	0.0012	mg/L	15/03/2023
Zinc	0.033	mg/L	15/03/2023

Groundwater Monitoring
Groundwater Well – EGM/D26

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