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

Environmental Monitoring Data June 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 4-17, 25 and 29 June 2022.

	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	428	492	322	677	798	607
2 June	408	458	339	790	1049	661
3 June	392	562	319	672	1015	554
4 June	-	-	-	-	-	-
5 June	-	-	-	-	-	-
6 June	-	-	-	-	-	-
7 June	-	-	-	-	-	-
8 June	-	-	-	-	-	-
9 June	-	-	-	-	-	-
10 June	-	-	-	-	-	-
11 June	-	-	-	-	-	-
12 June	-	-	-	-	-	-
13 June	-	-	-	-	-	-
14 June	-	-	-	-	-	-
15 June	-	-	-	-	-	-
16 June	-	-	-	-	-	-
17 June	-	-	-	-	-	-
18 June	476	665	277	722	837	499
19 June	371	459	273	694	1030	501
20 June	340	388	292	533	613	457
21 June	314	405	281	554	678	467
22 June	298	346	263	525	627	469
23 June	288	353	222	563	689	457
24 June	253	296	227	534	751	422
25 June	-	-	-	-	-	-
26 June	339	379	315	630	723	519
27 June	402	555	313	672	877	523
28 June	473	590	282	719	1016	459
29 June	-	-	-	-	-	-
30 June	375	432	302	620	856	490

Unit 1B Boiler Continuous Emission Monitoring Summary

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

	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	282	338	221	556	584	536
2 June	267	317	214	662	708	600
3 June	266	329	220	624	669	582
4 June	262	295	236	620	678	563
5 June	266	313	244	636	666	592
6 June	275	326	221	636	674	599
7 June	303	385	267	621	655	604
8 June	322	369	285	590	631	533
9 June	324	422	268	528	576	499
10 June	301	319	283	602	648	577
11 June	305	334	267	602	631	566
12 June	309	328	277	568	602	523
13 June	332	436	277	574	586	562
14 June	344	400	277	574	652	536
15 June	306	389	262	638	705	588
16 June	318	365	278	719	773	630
17 June	346	390	285	645	696	587
18 June	330	386	271	663	723	606
19 June	288	316	242	684	782	614
20 June	308	385	274	616	654	575
21 June	283	326	239	627	656	585
22 June	289	321	231	645	703	603
23 June	282	344	234	698	789	590
24 June	262	315	233	687	865	600
25 June	286	307	270	722	910	633
26 June	302	327	283	697	734	639
27 June	336	389	299	714	814	617
28 June	335	402	271	639	685	580
29 June	324	373	295	576	599	551
30 June	312	378	283	664	732	572

Unit 2A Boiler Continuous Emission Monitoring Summary

EPA Identification no. 9 - Air emissions monitoring, Boiler 2 stack discharge to air
NOx Unit Out of Service 10-14, 25-26 and 28-29 June 2022.

	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	365	453	268	505	527	492
2 June	318	378	280	579	623	518
3 June	332	406	204	562	608	465
4 June	278	316	248	574	603	539
5 June	291	308	269	582	635	517
6 June	293	361	263	587	622	548
7 June	302	384	264	563	597	531
8 June	325	412	280	532	558	493
9 June	309	392	280	466	487	444
10 June	-	-	-	523	578	490
11 June	-	-	-	538	592	492
12 June	-	-	-	512	545	482
13 June	-	-	-	498	512	478
14 June	-	-	-	514	578	476
15 June	327	395	273	554	575	539
16 June	272	312	239	645	715	562
17 June	296	352	268	582	663	518
18 June	274	302	236	603	661	556
19 June	279	290	256	596	680	552
20 June	277	321	249	542	589	514
21 June	299	336	245	528	564	500
22 June	282	331	243	572	600	542
23 June	291	383	242	625	700	558
24 June	276	314	242	603	712	524
25 June	-	-	-	651	779	536
26 June	-	-	-	623	689	567
27 June	311	367	258	630	710	545
28 June	-	-	-	550	594	521
29 June	-	-	-	525	542	506
30 June	257	270	250	584	650	516

Unit 2B Boiler Continuous Emission Monitoring Summary

EPA Identification no. 10 - Air emissions monitoring, Boiler 2 stack discharge to air
NOx Unit Out of Service 18-20 June 2022

	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	262	332	209	401	491	310
2 June	246	326	198	481	585	380
3 June	248	364	185	462	567	359
4 June	237	268	188	491	573	400
5 June	255	288	193	518	591	428
6 June	258	287	215	523	602	417
7 June	257	287	207	493	581	384
8 June	247	274	217	433	512	369
9 June	240	293	196	384	465	334
10 June	251	323	203	444	511	377
11 June	273	315	210	495	555	421
12 June	265	294	222	462	528	410
13 June	324	415	244	423	493	363
14 June	266	296	244	378	411	331
15 June	255	333	198	447	539	360
16 June	230	403	185	511	650	432
17 June	266	293	213	523	670	412
18 June	-	-	-	531	592	434
19 June	-	-	-	537	619	426
20 June	-	-	-	476	567	373
21 June	258	309	213	473	508	393
22 June	265	313	214	530	602	402
23 June	242	278	208	526	679	396
24 June	246	297	180	527	712	385
25 June	282	312	238	621	748	502
26 June	265	304	220	575	673	449
27 June	233	288	202	496	603	378
28 June	243	268	214	425	541	342
29 June	255	304	217	417	481	339
30 June	233	250	213	451	530	388

Unit 3A Boiler Continuous Emission Monitoring Summary

EPA Identification no. 11 - Air emissions monitoring, Boiler 3 stack discharge to air
NOx Unit Out of Service 1, 19-21, 23 and 26 June 2022

	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				1340	6673	605
2 June	388	473	288	704	790	647
3 June	392	463	267	701	866	567
4 June	371	503	258	690	825	586
5 June	440	532	293	771	873	642
6 June	446	526	344	806	868	712
7 June	404	469	334	764	842	692
8 June	408	500	340	702	777	649
9 June	435	562	346	624	695	593
10 June	411	531	327	712	768	674
11 June	463	520	368	732	801	620
12 June	443	512	314	705	774	612
13 June	414	476	332	691	761	636
14 June	447	553	335	651	724	603
15 June	411	522	310	729	803	678
16 June	391	496	358	831	894	751
17 June	396	426	328	788	908	687
18 June	392	421	333	767	870	700
19 June	-	-	-	823	926	688
20 June	-	-	-	761	860	677
21 June	-	-	-	717	800	607
22 June	445	521	263	758	815	650
23 June	-	-	-	812	966	741
24 June	373	485	276	781	885	701
25 June	392	449	304	847	989	732
26 June	-	-	-	756	780	690
27 June	335	436	256	730	804	674
28 June	324	388	273	656	718	599
29 June	345	438	271	620	772	529
30 June	292	362	252	676	741	603

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, 24 and 30 June 2022

	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	330	401	262	582	624	540
3 June	349	426	237	581	645	505
4 June	320	380	242	565	614	533
5 June	382	443	302	613	661	545
6 June	378	477	298	640	667	590
7 June	351	439	296	622	632	597
8 June	365	463	302	593	634	550
9 June	377	498	293	522	549	501
10 June	355	481	298	595	636	572
11 June	369	407	296	586	650	516
12 June	369	403	287	564	588	519
13 June	354	449	287	566	596	543
14 June	390	481	272	561	620	528
15 June	352	449	278	623	642	599
16 June	328	448	288	714	740	660
17 June	332	404	291	647	712	578
18 June	346	402	302	656	711	587
19 June	314	348	276	689	747	632
20 June	348	422	273	636	691	589
21 June	342	425	230	596	641	555
22 June	350	395	277	620	641	602
23 June	343	424	272	690	781	628
24 June	-	-	-	-	-	-
25 June	335	374	297	754	860	669
26 June	344	376	297	675	702	625
27 June	309	386	257	666	731	614
28 June	294	339	272	598	643	557
29 June	325	441	266	573	635	520
30 June	-	-	-	-	-	-

Unit 4A Boiler Continuous Emission Monitoring Summary

EPA Identification no. 13 - Air emissions monitoring, Boiler 4 stack discharge to air
SO_2 Unit Out of Service 1-3 June 2022

	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	352	387	306	-	-	-
2 June	321	413	277	-	-	-
3 June	393	526	273	-	-	-
4 June	365	415	313	560	615	479
5 June	351	409	269	600	630	536
6 June	352	416	290	619	650	578
7 June	361	413	326	594	616	571
8 June	393	434	303	586	612	563
9 June	364	433	297	510	562	481
10 June	376	458	304	533	602	479
11 June	373	437	314	584	643	517
12 June	364	419	305	543	596	473
13 June	366	419	322	554	572	528
14 June	391	432	318	539	610	493
15 June	368	412	282	620	670	575
16 June	340	384	269	696	752	623
17 June	372	434	291	604	673	559
18 June	360	444	245	639	697	584
19 June	390	412	312	670	747	581
20 June	387	414	342	597	647	543
21 June	381	426	272	597	669	546
22 June	366	426	282	640	696	598
23 June	360	442	290	666	743	598
24 June	332	411	253	641	809	548
25 June	339	374	295	743	878	630
26 June	337	369	302	663	711	600
27 June	359	400	333	670	795	578
28 June	363	422	282	608	675	551
29 June	346	391	303	562	598	534
30 June	353	505	290	621	838	525

Unit 4B Boiler Continuous Emission Monitoring Summary

EPA Identification no. 14 – Air emissions monitoring, Boiler 4 stack discharge to air
NOx Unit Out of Service 2-3 and 14 June 2022
SO_2 Unit Out of Service 18 June 2022

	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	401	446	336	598	624	569
2 June	-	-	-	686	778	589
3 June	-	-	-	617	695	468
4 June	360	440	285	584	652	398
5 June	328	398	262	633	681	538
6 June	339	464	279	647	699	529
7 June	363	488	295	627	658	517
8 June	412	493	349	607	658	436
9 June	389	502	313	542	597	425
10 June	389	515	333	551	611	328
11 June	359	421	307	588	672	499
12 June	353	412	310	541	616	314
13 June	383	491	315	569	613	469
14 June	-	-	-	592	700	466
15 June	369	457	293	654	715	474
16 June	328	380	285	723	780	587
17 June	370	442	325	636	714	573
18 June	360	472	245	-	-	-
19 June	351	380	297	688	771	619
20 June	350	396	302	593	683	260
21 June	352	393	272	596	679	342
22 June	348	419	277	657	746	482
23 June	349	422	272	713	770	633
24 June	321	394	255	675	886	469
25 June	329	372	268	786	977	589
26 June	338	367	294	710	787	622
27 June	382	459	305	751	934	596
28 June	365	423	329	653	719	570
29 June	322	402	264	604	646	508
30 June	345	471	281	626	774	345

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	20/04/2022
Fluorine	8.6	mg/m^3	30	20/04/2022
Hydrogen chloride	2.8	mg/m^3	50	20/04/2022
Solid Particles	3.5	mg/m^3	50	20/04/2022
Sulfuric acid mist and sulfur trioxide (as SO3)	1.7	mg/m^3	100	20/04/2022
Volatile organic compounds as n-propane equivalent	<0.05	mg/m^3	10	20/04/2022
Cadmium	<0.0002	mg/m^3	0.2	8/02/2022
Mercury	<0.0002	mg/m^3	0.05	8/02/2022
Solid Particles	<2	mg/m^3	50	8/02/2022
Type 1 and 2 substances in Aggregate	<0.02	mg/m^3	0.75	8/02/2022

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	220	m3/sec		20/04/2022
Moisture	5.6	%		20/04/2022
Oxygen	9.8	%		20/04/2022
Solid Particles	4.5	mg/m3		20/04/2022
Temperature	116	degC		20/04/2022
Carbon dioxide	10.3	%		20/04/2022
Chlorine	<0.01	mg/m3		20/04/2022
Fluorine	8.6	mg/m3		20/04/2022
Hydrogen chloride	2.8	mg/m3		20/04/2022
Sulfuric acid mist and sulfur trioxide (as SO3)	1.7	mg/m3		20/04/2022
Volatile organic compounds as n-propane equivalent	<0.05	mg/m3		20/04/2022
Cadmium	<0.0002	mg/m3		8/02/2022
Flow Rate	270	m3/sec		8/02/2022
Mercury	<0.0002	mg/m3		8/02/2022
Moisture	4.9	%		8/02/2022
Oxygen	8.3	%		8/02/2022
Solid Particles	3.8	mg/m3		8/02/2022
Temperature	114	degC		8/02/2022
Type 1 and Type 2 substances in Aggregate	<0.018	mg/m3		8/02/2022
Carbon dioxide	11.6	%		8/02/2022

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	270	m3/sec		20/04/2022
Moisture	4.1	%		20/04/2022
Oxygen	9.4	%		20/04/2022
Solid Particles	2.7	mg/m3		20/04/2022
Temperature	115	degC		20/04/2022
Carbon dioxide	11.2	%		20/04/2022
Cadmium	<0.0002	mg/m3		8/02/2022
Flow Rate	270	m3/sec		8/02/2022
Mercury	0.00024	mg/m3		8/02/2022
Moisture	4.4	%		8/02/2022
Oxygen	8.5	%		8/02/2022
Solid Particles	<0.8	mg/m3		8/02/2022
Temperature	110	degC		8/02/2022
Type 1 and Type 2 substances in Aggregate	<0.028	mg/m3		8/02/2022
Carbon dioxide	11.7	%		8/02/2022

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	<0.008	mg/m^3	20	21/04/2022
Fluorine	11	mg/m^3	30	21/04/2022
Hydrogen chloride	3.1	mg/m^3	50	21/04/2022
Solid Particles	11	mg/m^3	50	21/04/2022
Sulfuric acid mist and sulfur trioxide (as SO3)	2.5	mg/m^3	100	21/04/2022
Volatile organic compounds as n-propane equivalent	<0.06	mg/m^3	10	21/04/2022
Cadmium	<0.0002	mg/m^3	0.2	8/02/2022
Mercury	0.00077	mg/m^3	0.05	8/02/2022
Solid Particles	2.4	mg/m^3	50	8/02/2022
Type 1 and 2 substances in Aggregate	<0.02	mg/m^3	0.75	8/02/2022

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	240	m3/sec		21/04/2022
Moisture	5.5	%		21/04/2022
Oxygen	8.9	%		21/04/2022
Solid Particles	9.7	mg/m3		21/04/2022
Temperature	125	degC		21/04/2022
Carbon dioxide	11.1	%		21/04/2022
Chlorine	<0.008	mg/m3		21/04/2022
Fluorine	11	mg/m3		21/04/2022
Hydrogen chloride	3.1	mg/m3		21/04/2022
Sulfuric acid mist and sulfur trioxide (as SO3)	2.5	mg/m3		21/04/2022
Volatile organic compounds as n-propane equivalent	<0.06	mg/m3		21/04/2022
Cadmium	<0.0002	mg/m3		8/02/2022
Flow Rate	250	m3/sec		8/02/2022
Mercury	0.0011	mg/m3		8/02/2022
Moisture	5.8	%		8/02/2022
Oxygen	8.5	%		8/02/2022
Solid Particles	0.97	mg/m3		8/02/2022
Temperature	126	degC		8/02/2022
Type 1 and Type 2 substances in Aggregate	<0.028	mg/m3		8/02/2022
Carbon dioxide	11.7	%		8/02/2022

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	250	m3/sec		21/04/2022
Moisture	4.1	%		21/04/2022
Oxygen	10.6	%		21/04/2022
Solid Particles	12	mg/m3		21/04/2022
Temperature	107	degC		21/04/2022
Carbon dioxide	9.7	%		21/04/2022
Cadmium	<0.0002	mg/m3		8/02/2022
Flow Rate	290	m3/sec		8/02/2022
Mercury	0.00048	mg/m3		8/02/2022
Moisture	4.8	%		8/02/2022
Oxygen	9.2	%		8/02/2022
Solid Particles	3.7	mg/m3		8/02/2022
Temperature	111	degC		8/02/2022
Type 1 and Type 2 substances in Aggregate	<0.018	mg/m3		8/02/2022
Carbon dioxide	10.9	%		8/02/2022

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	22/04/2022
Fluorine	10	mg/m3	30	22/04/2022
Hydrogen chloride	4.8	mg/m3	50	22/04/2022
Solid Particles	7.2	mg/m3	50	22/04/2022
Sulfuric acid mist and sulfur trioxide (as SO3)	2.5	mg/m3	100	22/04/2022
Volatile organic compounds as n-propane equivalent	0.45	mg/m3	10	22/04/2022
Cadmium	<0.0003	mg/m3	0.2	15/03/2022
Mercury	0.0004	mg/m3	0.05	15/03/2022
Solid Particles	4.6	mg/m3	50	15/03/2022
Type 1 and 2 substances in Aggregate	<0.02	mg/m3	0.75	15/03/2022

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	250	m3/sec		22/04/2022
Moisture	5.6	%		22/04/2022
Oxygen	9.3	%		22/04/2022
Solid Particles	7.8	mg/m3		22/04/2022
Temperature	109	degC		22/04/2022
Carbon dioxide	10.6	%		22/04/2022
Chlorine	<0.01	mg/m3		22/04/2022
Fluorine	10	mg/m3		22/04/2022
Hydrogen chloride	4.8	mg/m3		22/04/2022
Sulfuric acid mist and sulfur trioxide (as SO3)	2.5	mg/m3		22/04/2022
Volatile organic compounds as n-propane equivalent	0.45	mg/m3		22/04/2022
Cadmium	<0.0003	mg/m3		15/03/2022
Flow Rate	260	m3/sec		15/03/2022
Mercury	0.00048	mg/m3		15/03/2022
Moisture	7.8	%		15/03/2022
Oxygen	8.8	%		15/03/2022
Solid Particles	4.1	mg/m3		15/03/2022
Temperature	111	degC		15/03/2022
Type 1 and Type 2 substances in Aggregate	<0.015	mg/m3		15/03/2022
Carbon dioxide	11.8	%		15/03/2022

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	230	m3/sec		22/04/2022
Moisture	4.9	%		22/04/2022
Oxygen	8.3	%		22/04/2022
Solid Particles	6.6	mg/m3		22/04/2022
Temperature	115	degC		22/04/2022
Carbon dioxide	11.6	%		22/04/2022
Cadmium	<0.0004	mg/m3		15/03/2022
Flow Rate	230	m3/sec		15/03/2022
Mercury	0.00032	mg/m3		15/03/2022
Moisture	5.2	%		15/03/2022
Oxygen	8.6	%		15/03/2022
Solid Particles	5.1	mg/m3		15/03/2022
Temperature	113	degC		15/03/2022
Type 1 and Type 2 substances in Aggregate	<0.02	mg/m3		15/03/2022
Carbon dioxide	11.9	%		15/03/2022

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	<0.0002	mg/m3	0.2	9/02/2022
Mercury	0.00035	mg/m3	0.05	9/02/2022
Solid Particles	1.8	mg/m3	50	9/02/2022
Type 1 and 2 substances in Aggregate	<0.01	mg/m3	0.75	9/02/2022

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	500	m^3/sec		7/04/2021
Moisture	5.3	%		7/04/2021
Oxygen	10.4	%		7/04/2021
Solid Particles	9.5	mg/m^3		7/04/2021
Temperature	111	degC		7/04/2021
Carbon dioxide	10.4	%		7/04/2021
Chlorine	0.01	mg/m^3		7/04/2021
Fluorine	13	mg/m^3		7/04/2021
Hydrogen chloride	2.7	mg/m^3		7/04/2021
Sulfuric acid mist and sulfur trioxide (as SO3)	2.7	mg/m^3		7/04/2021
Volatile organic compounds as n-propane equivalent	<0.1	mg/m^3		7/04/2021
Cadmium	<0.0002	mg/m^3		9/02/2022
Flow Rate	320	m^3/sec		9/02/2022
Mercury	0.00041	mg/m^3		9/02/2022
Moisture	5.9	%		9/02/2022
Oxygen	7.4	%		9/02/2022
Solid Particles	1.5	mg/m^3		9/02/2022
Temperature	116	degC		9/02/2022
Type 1 and Type 2 substances in Aggregate	<0.015	mg/m^3		9/02/2022
Carbon dioxide	12.8	%		9/02/2022

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

Name	Reading	Units	Licence Limit	Date
Flow Rate	400	m^3/sec		29/06/2021
Moisture	5.9	%		29/06/2021
Oxygen	6.9	%		29/06/2021
Solid Particles	2	mg/m^3		29/06/2021
Temperature	121	degC		29/06/2021
Carbon dioxide	13.4	%		29/06/2021
Cadmium	<0.0002	mg/m^3		9/02/2022
Flow Rate	300	m^3/sec		9/02/2022
Mercury	0.00029	mg/m^3		9/02/2022
Moisture	5.5	%		9/02/2022
Oxygen	5.9	%		9/02/2022
Solid Particles	2.2	mg/m^3		9/02/2022
Temperature	123	degC		9/02/2022
Type 1 and Type 2 substances in Aggregate	<0.014	mg/m^3		9/02/2022
Carbon dioxide	13.7	%		9/02/2022

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	0.4	0.1	0.5
E4	18	0.3	0.3	0.6
E6	19	0.8	0.6	1.4
U6	20	1.2	0.7	1.9

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
14.29	0.50	15.52	8.24	17.4	89.9	7.82	2.00

Name	Reading	Units	Date
Aluminium	0.049	mg/L	3/06/2022
Ammonia	<0.005	mg/L	3/06/2022
Arsenic III	<0.004	mg/	3/06/2022
Arsenic V	<0.004	mg/L	3/06/2022
Cadmium	<0.0002	mg/L	3/06/2022
Chromium (Trivalent)	<0.001	mg/L	3/06/2022
Chromium (VI) Compounds	<0.001	mg/L	3/06/2022
Copper	0.001	mg/L	3/06/2022
Iron	0.052	mg/L	3/06/2022
Lead	0.0002	mg/L	3/06/2022
Manganese	0.0070	mg/L	3/06/2022
Nickel	<0.0005	mg/L	3/06/2022
pH	8.01	pH units	3/06/2022
Selenium	<0.002	mg/L	3/06/2022
Total Suspended Solids	26	mg/L	3/06/2022
Vanadium	0.0020	mg/L	3/06/2022
Zinc	<0.005	mg/L	3/06/2022

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
^{0}C	m	degC	pH unit	ppt	%	mg/L	m
13.23	0.50	16.60	8.29	16.9	97.1	8.31	3.75

Name	Reading	Units	Date
Aluminium	0.034	mg/L	3/06/2022
Ammonia	<0.005	mg/L	3/06/2022
Arsenic III	<0.004	mg/L	3/06/2022
Arsenic V	<0.004	mg/L	3/06/2022
Cadmium	<0.0002	mg/L	3/06/2022
Chromium (Trivalent)	<0.001	mg/L	3/06/2022
Chromium (VI) Compounds	<0.001	mg/L	3/06/2022
Copper	0.001	mg/L	3/06/2022
Iron	0.018	mg/L	3/06/2022
Lead	<0.0002	mg/L	3/06/2022
Manganese	0.0070	mg/L	3/06/2022
Nickel	0.0007	mg/L	3/06/2022
pH	8.04	pH units	3/06/2022
Selenium	<0.002	mg/L	3/06/2022
Total Suspended Solids	27	mg/L	3/06/2022
Vanadium	0.0022	mg/L	3/06/2022
Zinc	<0.005	mg/L	3/06/2022

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
^{0}C	m	degC	pH unit	ppt	%	mg/L	m
8.61	0.50	15.96	8.35	17.8	101.1	8.72	3.75

Name	Reading	Units	Date
Aluminium	0.009	mg/L	3/06/2022
Ammonia	<0.005	mg/L	3/06/2022
Arsenic III	<0.004	mg/L	3/06/2022
Arsenic V	<0.004	mg/L	3/06/2022
Cadmium	<0.0002	mg/L	3/06/2022
Chromium (Trivalent)	<0.001	mg/L	3/06/2022
Chromium (VI) Compounds	<0.001	mg/L	3/06/2022
Copper	0.002	mg/L	3/06/2022
Iron	0.013	mg/L	3/06/2022
Lead	0.0002	mg/L	3/06/2022
Manganese	0.0032	mg/L	3/06/2022
Nickel	0.0006	mg/L	3/06/2022
pH	8.11	pH units	3/06/2022
Selenium	<0.002	mg/L	3/06/2022
Total Suspended Solids	26	mg/L	3/06/2022
Vanadium	0.0017	mg/L	3/06/2022
Zinc	0.006	mg/L	3/06/2022

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
^{0}C	m	degC	pH unit	ppt	%	mg/L	m
10.91	0.5	18.91	8.19	17.3	109.0	8.99	3.25

Name	Reading	Units	Date
Aluminium	0.019	mg/L	3/06/2022
Ammonia	<0.005	mg/L	3/06/2022
Arsenic III	<0.004	mg/L	3/06/2022
Arsenic V	<0.004	mg/L	3/06/2022
Cadmium	<0.0002	mg/L	3/06/2022
Chromium (Trivalent)	<0.001	mg/L	3/06/2022
Chromium (VI) Compounds	<0.001	mg/L	3/06/2022
Copper	0.001	mg/L	3/06/2022
Iron	0.008	mg/L	3/06/2022
Lead	<0.0002	mg/L	3/06/2022
Manganese	0.0051	mg/L	3/06/2022
Nickel	0.0007	mg/L	3/06/2022
pH	8.01	pH units	3/06/2022
Selenium	<0.002	mg/L	3/06/2022
Total Suspended Solids	27	mg/L	3/06/2022
Vanadium	0.0017	mg/L	3/06/2022
Zinc	<0.005	mg/L	3/06/2022

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	0.180	mg/L	-	2/06/2022
Ammonia	2.36	mg/L	-	2/06/2022
Arsenic III	<0.0005	mg/L	-	2/06/2022
Arsenic V	0.0033	mg/L	-	2/06/2022
Cadmium	0.00008	mg/L	-	2/06/2022
Chromium (Trivalent)	<0.001	mg/L	-	2/06/2022
Chromium (VI) Compounds	<0.01	mg/L	-	2/06/2022
Copper	0.0024	mg/L	-	2/06/2022
Iron	0.069	mg/L	-	2/06/2022
Lead	0.0004	mg/L	-	2/06/2022
Manganese	0.0952	mg/L	-	2/06/2022
Nickel	0.0019	mg/L	-	2/06/2022
Nitrite and Nitrate as N	2.62	mg/L	-	2/06/2022
Nitrogen	5.2	mg/L	-	2/06/2022
pH	8.47	pH units	-	2/06/2022
Phosphorus as P	0.15	mg/L	-	2/06/2022
Reactive Phosphorus as P	0.14	mg/L	-	2/06/2022
Selenium	0.0171	mg/L	-	2/06/2022
Total Kjeldahl Nitrogen	2.6	mg/L	-	2/06/2022
Total Suspended Solids	13	mg/L	-	2/06/2022
Vanadium	0.0227	mg/L	-	2/06/2022
Zinc	0.002	mg/L	-	2/06/2022

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	0.060	mg/L	-	2/06/2022
Ammonia	<0.005	mg/L	-	2/06/2022
Arsenic III	<0.004	mg/L	-	2/06/2022
Arsenic V	<0.004	mg/L	-	2/06/2022
Cadmium	<0.0002	mg/L	-	2/06/2022
Chromium (Trivalent)	<0.001	mg/L	-	2/06/2022
Chromium (VI) Compounds	<0.01	mg/L	-	2/06/2022
Copper	0.0009	mg/L	-	2/06/2022
Iron	0.104	mg/L	-	2/06/2022
Lead	<0.0002	mg/L	-	2/06/2022
Manganese	0.0095	mg/L	-	2/06/2022
Nickel	<0.0005	mg/L	-	2/06/2022
pH	7.98	pH units	-	2/06/2022
Selenium	0.001	mg/L	-	2/06/2022
Total suspended Solids	64	mg/L	-	2/06/2022
Vanadium	0.0019	mg/L	-	2/06/2022
Zinc	<0.005	mg/L	-	2/06/2022
Dissolved Oxygen	10.86	mg/L	-	2/06/2022
Field Temperature	15.1	degC	-	2/06/2022
Salinity	17.0	ppt	-	2/06/2022
Secchi Disk	2.75	m	-	2/06/2022
Temperature – Average	15.13	deg C	-	June 2022
Temperature – Minimum	13.64	deg C	-	June 2022
Temperature - Maximum	18.64	deg C	-	June 2022

Eraring Cooling Water Outlet Canal

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

Name	Reading	Units	Licence Limit	Date
Copper	0.0011	mg/L	0.005	2/06/2022
Iron	0.114	mg/L	0.3	2/06/2022
Selenium	0.001	mg/L	0.002	2/06/2022
Temperature – Average	20.89	deg C	37.5	June 2022
Temperature – Minimum	17.06	deg C	37.5	June 2022
Temperature - Maximum	26.09	deg C	37.5	June 2022
Maximum Daily Discharge from Ash Dam	26.11	ML	150	June 2022
Monthly Discharge from Ash Dam	278.57	ML	-	June 2022

Emergency Discharge – Toe Drain Pond

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

Name	Reading	Units	Licence Limit	Date
Aluminium	0.007	mg/L	-	2/06/2022
Ammonia	2.32	mg/L	-	2/06/2022
Arsenic III	0.0023	mg/L	-	2/06/2022
Arsenic V	<0.0005	mg/L	-	2/06/2022
Cadmium	<0.00005	mg/L	-	2/06/2022
Chromium (Trivalent)	<0.001	mg/L	-	2/06/2022
Chromium (VI) Compounds	<0.01	mg/L	-	2/06/2022
Copper	0.0035	mg/L	-	2/06/2022
Iron	6.78	mg/L	-	2/06/2022
Lead	0.0001	mg/L	-	2/06/2022
Manganese	0.780	mg/L	-	2/06/2022
Nickel	0.0013	mg/L	-	2/06/2022
Nitrite and Nitrate as N	0.08	mg/L	-	2/06/2022
Nitrogen	3.1	mg/L	-	2/06/2022
pH	6.74	pH units	6-9.5	2/06/2022
Phosphorus as P	0.192	mg/L	-	2/06/2022
Reactive Phosphorus as P	0.011	mg/L	-	2/06/2022
Selenium	<0.0002	mg/L	-	2/06/2022
Total Kjeldahl Nitrogen	3.0	mg/L	-	2/06/2022
Total Suspended Solids	25	mg/L	50	2/06/2022
Vanadium	0.0006	mg/L	-	2/06/2022
Zinc	0.005	mg/L	-	2/06/2022

MR217

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

No Discharge during June 2022

Name	Reading	Units	Licence Limit	Date
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	-	

Groundwater Monitoring
Groundwater Well – MW01

EPA Identification no. 32 – Groundwater Monitoring Well 01

Name	Reading	Units	Date
Aluminium	0.178	mg/L	8/06/2022
Ammonia	<0.01	mg/L	8/06/2022
Arsenic (III)	<0.0005	mg/L	8/06/2022
Arsenic (V)	<0.0005	mg/L	8/06/2022
Cadmium	<0.00005	mg/L	8/06/2022
Calcium	2	mg/L	8/06/2022
Chromium (trivalent)	<0.01	mg/L	8/06/2022
Chromium (VI) compounds	<0.01	mg/L	8/06/2022
Copper	0.0010	mg/L	8/06/2022
Electrical Conductivity	441	uS/cm	8/06/2022
Iron	0.408	mg/L	8/06/2022
Lead	0.0008	mg/L	8/06/2022
Magnesium	5	mg/L	8/06/2022
Manganese	0.120	mg/L	8/06/2022
Nickel	0.0044	mg/L	8/06/2022
pH	4.85	pH units	8/06/2022
Potassium	4	mg/L	8/06/2022
Selenium	<0.0002	mg/L	8/06/2022
Sodium	66	mg/L	8/06/2022
Standing Water Level	6.720	metres	8/06/2022
Vanadium	0.0003	mg/L	8/06/2022
Zinc	0.022	mg/L	8/06/2022

Groundwater Monitoring
Groundwater Well – MW02

EPA Identification no. 33 – Groundwater Monitoring Well 02

Name	Reading	Units	Date
Aluminium	0.091	mg/L	7/06/2022
Ammonia	3.22	mg/L	7/06/2022
Arsenic (III)	0.0055	mg/L	7/06/2022
Arsenic (V)	<0.0005	mg/L	7/06/2022
Cadmium	<0.00005	mg/L	7/06/2022
Calcium	239	mg/L	7/06/2022
Chromium (trivalent)	<0.001	mg/L	7/06/2022
Chromium (VI) compounds	<0.010	mg/L	7/06/2022
Copper	0.0006	mg/L	7/06/2022
Electrical Conductivity	16400	uS/cm	7/06/2022
Iron	8.76	mg/L	7/06/2022
Lead	0.0004	mg/L	7/06/2022
Magnesium	237	mg/L	7/06/2022
Manganese	0.858	mg/L	7/06/2022
Nickel	0.0008	mg/L	7/06/2022
pH	6.44	pH units	7/06/2022
Potassium	106	mg/L	7/06/2022
Selenium	0.0003	mg/L	7/06/2022
Sodium	2770	mg/L	7/06/2022
Standing Water Level	4.015	metres	7/06/2022
Vanadium	0.0017	mg/L	7/06/2022
Zinc	0.007	mg/L	7/06/2022

Groundwater Monitoring
Groundwater Well – MW06

EPA Identification no. 34 – Groundwater Monitoring Well 06

Name	Reading	Units	Date
Aluminium	0.011	mg/L	7/06/2022
Ammonia	3.13	mg/L	7/06/2022
Arsenic (III)	0.0054	mg/L	7/06/2022
Arsenic (V)	0.0007	mg/L	7/06/2022
Cadmium	<0.00005	mg/L	7/06/2022
Calcium	453	mg/L	7/06/2022
Chromium (trivalent)	<0.001	mg/L	7/06/2022
Chromium (VI) compounds	<0.001	mg/L	7/06/2022
Copper	0.0031	mg/L	7/06/2022
Electrical Conductivity	21000	uS/cm	7/06/2022
Iron	12.6	mg/L	7/06/2022
Lead	0.0002	mg/L	7/06/2022
Magnesium	260	mg/L	7/06/2022
Manganese	0.38	mg/L	7/06/2022
Nickel	0.0010	mg/L	7/06/2022
pH	6.57	pH units	7/06/2022
Potassium	114	mg/L	7/06/2022
Selenium	0.0004	mg/L	7/06/2022
Sodium	3340	mg/L	7/06/2022
Standing Water Level	1.740	metres	7/06/2022
Vanadium	0.0008	mg/L	7/06/2022
Zinc	0.010	mg/L	7/06/2022

Groundwater Monitoring
Groundwater Well – EGM/D26

EPA Identification no. 35 – Groundwater Monitoring Well D26
Groundwater well was dry during sampling in June 2022

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	-