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

Environmental Monitoring Data July 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 5-*12* and *25 July 2022*
NOx Unit Out of Service 16 July 2022
SO_2 Unit Out of Service 26 July 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 July	479	682	361	730	994	495
2 July	479	572	365	794	979	560
3 July	477	595	387	583	791	501
4 July	404	483	338	518	709	354
5 July	-	-	-	-	-	-
6 July	-	-	-	-	-	-
7 July	-	-	-	-	-	-
8 July	-	-	-	-	-	-
9 July	-	-	-	-	-	-
10 July	-	-	-	-	-	-
11 July	-	-	-	-	-	-
12 July	-	-	-	-	-	-
13 July	482	656	209	353	566	137
14 July	585	642	439	692	1061	541
15 July	386	629	338	407	740	297
16 July	-	-	-	503	632	435
17 July	626	835	408	712	942	502
18 July	505	617	444	561	681	488
19 July	496	684	418	557	806	446
20 July	416	442	386	534	576	494
21 July	416	461	375	581	744	485
22 July	562	674	383	835	1127	570
23 July	432	716	356	616	912	507
24 July	405	450	362	461	577	359
25 July	-	-	-	-	-	-
26 July	440	483	381	-	-	-
27 July	431	478	390	527	642	457
28 July	428	489	334	585	735	489
29 July	428	493	373	516	668	425
30 July	423	463	382	557	726	452
31 July	420	468	374	532	623	397

Unit 1B Boiler Continuous Emission Monitoring Summary

EPA Identification no.7 - Air emissions monitoring, Boiler 1 stack discharge to air
Unit 1B Out of Service 5-14 and 25 July 2022
NOx Unit Out of Service 26 July 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 July	326	381	297	625	673	576
2 July	308	363	252	672	700	609
3 July	390	468	290	588	655	521
4 July	335	409	294	554	595	479
5 July	-	-	-	-	-	-
6 July	-	-	-	-	-	-
7 July	-	-	-	-	-	-
8 July	-	-	-	-	-	-
9 July	-	-	-	-	-	-
10 July	-	-	-	-	-	-
11 July	-	-	-	-	-	-
12 July	-	-	-	-	-	-
13 July	-	-	-	-	-	-
14 July	-	-	-	-	-	-
15 July	434	529	307	659	698	609
16 July	373	440	321	599	622	580
17 July	394	506	343	603	663	559
18 July	396	451	361	599	644	559
19 July	362	396	338	583	621	556
20 July	350	383	333	598	632	576
21 July	360	459	298	664	816	604
22 July	357	422	313	716	832	617
23 July	353	397	310	690	775	620
24 July	359	421	309	605	675	561
25 July	-	-	-	-	-	-
26 July	-	-	-	702	764	654
27 July	383	465	341	626	751	565
28 July	357	401	287	684	873	592
29 July	373	417	319	617	708	520
30 July	394	450	333	708	825	578
31 July	393	431	305	688	774	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 4, 14-15, 25, and 27-28 July 2022
NOx Unit Out of Service 1, 3, 10-11, 13, 18, 21 and 26 July 2022
SO_2 Unit Out of Service 5 and 7-8 July 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 July	-	-	-	551	586	524
2 July	318	355	289	589	657	554
3 July	-	-	-	515	621	418
4 July	-	-	-	-	-	-
5 July	328	359	283	-	-	-
6 July	322	353	292	474	549	420
7 July	309	342	281	-	-	-
8 July	325	347	298	-	-	-
9 July	350	395	301	479	531	455
10 July	-	-	-	503	545	464
11 July	-	-	-	479	524	453
12 July	337	388	236	474	520	446
13 July	-	-	-	482	507	467
14 July	-	-	-	-	-	-
15 July	-	-	-	-	-	-
16 July	309	367	256	478	509	457
17 July	302	360	246	491	527	467
18 July	-	-	-	456	481	424
19 July	290	393	223	486	513	449
20 July	298	341	258	486	513	458
21 July	-	-	-	520	617	479
22 July	272	338	204	567	631	492
23 July	280	341	200	560	643	485
24 July	340	414	265	521	549	476
25 July	-	-	-	-	-	-
26 July	-	-	-	603	674	559
27 July	-	-	-	-	-	-
28 July	-	-	-	-	-	-
29 July	338	432	297	543	670	471
30 July	387	458	313	546	613	472
31 July	391	487	305	549	629	450

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 6 and 25-28 July 2022
NOx Unit Out of Service 1-5 July 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 July	-	-	-	399	476	331
2 July	-	-	-	478	542	409
3 July	-	-	-	464	568	352
4 July	-	-	-	391	441	330
5 July	-	-	-	376	450	329
6 July	-	-	-	-	-	-
7 July	254	318	222	369	500	309
8 July	257	311	205	355	454	304
9 July	234	291	197	327	472	262
10 July	219	276	184	334	459	249
11 July	222	267	205	328	462	263
12 July	239	260	217	336	466	293
13 July	225	243	207	316	405	279
14 July	219	235	195	331	403	292
15 July	248	297	210	388	498	284
16 July	225	274	198	376	440	328
17 July	241	295	197	421	528	317
18 July	230	263	195	380	449	316
19 July	218	247	170	368	457	294
20 July	227	254	208	375	451	339
21 July	223	252	198	409	567	332
22 July	215	252	180	472	615	374
23 July	223	311	170	485	601	362
24 July	284	362	210	478	539	399
25 July	-	-	-	-	-	-
26 July	-	-	-		-	
27 July	-	-	-	-		-
28 July	-	-	-	-		-
29 July	318	373	213	502	658	345
30 July	321	406	223	455	563	351
31 July	365	499	219	502	612	380

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 3, 8, 15, 16, 17, 24, 26 and 29 July 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 July	338	386	285	645	675	615
2 July	299	375	258	686	717	627
3 July	-	-	-	627	736	555
4 July	326	412	280	596	647	550
5 July	361	409	304	573	591	546
6 July	345	388	289	601	634	548
7 July	306	332	274	640	653	619
8 July	-	-	-	607	626	574
9 July	314	368	270	583	618	559
10 July	280	347	248	612	639	588
11 July	291	371	255	605	648	578
12 July	391	498	305	615	643	587
13 July	465	512	370	607	624	593
14 July	452	540	299	624	640	595
15 July	-	-	-	619	644	570
16 July	-	-	-	597	612	576
17 July	-	-	-	597	623	573
18 July	373	450	282	586	616	544
19 July	337	396	261	593	612	557
20 July	336	419	256	601	640	565
21 July	311	377	266	630	738	593
22 July	338	484	248	726	793	670
23 July	296	363	251	701	803	641
24 July	-	-	-	623	672	564
25 July	315	374	273	652	744	592
26 July	-	-	-	729	798	673
27 July	333	410	262	668	764	574
28 July	366	439	307	704	803	589
29 July	-	-	-	626	769	549
30 July	405	405	405	652	704	578
31 July	311	357	281	660	734	596

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 30 July 2022
NOx Unit Out of Service 27-28 July 2022.
SO_2 Unit Out of Service 3-6 July 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 July	313	362	279	600	631	569
2 July	291	371	262	641	665	613
3 July	320	383	278	-	-	-
4 July	311	391	258	-	-	-
5 July	323	366	261	-	-	-
6 July	322	366	290	-	-	-
7 July	276	313	252	595	613	571
8 July	274	298	246	559	585	537
9 July	284	327	252	538	568	511
10 July	267	301	240	573	597	555
11 July	272	326	239	562	593	551
12 July	356	482	272	566	587	543
13 July	425	466	330	554	565	545
14 July	407	476	260	570	586	541
15 July	373	479	283	566	591	522
16 July	328	405	272	549	564	530
17 July	307	389	263	550	571	529
18 July	320	399	259	540	564	511
19 July	307	379	234	543	562	514
20 July	311	391	251	555	588	524
21 July	281	320	249	578	663	552
22 July	319	474	233	665	722	613
23 July	274	352	231	642	733	582
24 July	264	326	227	572	615	519
25 July	292	360	242	603	696	546
26 July	286	353	245	670	727	619
27 July	-	-	-	610	693	532
28 July	-	-	-	638	724	567
29 July	320	410	251	572	691	499
30 July	-	-	-	-	-	-
31 July	275	311	250	596	658	556

Unit 4A Boiler Continuous Emission Monitoring Summary

EPA Identification no. 13 - Air emissions monitoring, Boiler 4 stack discharge to air

	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 July	350	468	291	585	650	539
2 July	359	447	266	626	661	582
3 July	392	490	329	576	636	440
4 July	387	494	309	532	580	450
5 July	411	522	341	520	668	475
6 July	386	444	300	527	567	474
7 July	358	445	173	535	566	291
8 July	367	447	327	538	563	496
9 July	398	437	322	501	546	448
10 July	372	423	289	537	562	490
11 July	380	460	323	532	548	503
12 July	386	419	342	538	580	517
13 July	369	425	299	565	600	532
14 July	404	474	350	545	574	337
15 July	397	448	346	555	600	497
16 July	417	487	362	533	578	478
17 July	379	469	320	548	579	508
18 July	379	425	347	534	569	488
19 July	375	431	317	546	604	488
20 July	370	419	290	556	592	522
21 July	365	420	304	592	735	537
22 July	338	388	289	658	725	592
23 July	302	372	259	628	736	546
24 July	338	371	283	584	615	548
25 July	356	418	297	570	623	538
26 July	373	422	313	627	681	549
27 July	389	454	325	587	663	521
28 July	397	468	310	605	714	511
29 July	379	442	341	588	689	478
30 July	393	511	341	590	639	492
31 July	365	436	320	587	652	425

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 3-7 July 2022
NOx Unit Out of Service 2 and 15-17 July 2022
SO_2 Unit Out of Service 8 July 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 July	339	412	295	649	715	600
2 July	-	-	-	649	789	461
3 July	-	-	-	-	-	-
4 July	-	-	-	-	-	-
5 July	-	-	-	-	-	-
6 July	-	-	-	-	-	-
7 July	-	-	-	-	-	-
8 July	365	436	236	-	-	-
9 July	416	463	306	488	573	174
10 July	373	451	266	574	590	469
11 July	406	502	269	570	594	340
12 July	437	479	359	541	599	389
13 July	390	471	265	578	621	452
14 July	427	496	289	410	582	274
15 July	-	-	-	581	648	362
16 July	-	-	-	561	617	451
17 July	-	-	-	569	640	489
18 July	404	469	287	548	639	338
19 July	363	439	272	543	640	319
20 July	358	427	281	576	633	257
21 July	295	427	208	633	780	494
22 July	285	408	198	685	784	544
23 July	298	368	227	589	764	295
24 July	296	345	238	613	664	512
25 July	328	400	239	584	635	437
26 July	352	437	242	653	693	533
27 July	361	435	242	607	686	518
28 July	373	467	263	631	779	405
29 July	363	430	277	589	753	364
30 July	369	484	283	606	709	517
31 July	349	434	287	617	743	513

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	0.3	0.3	0.6
E4	18	0.3	0.8	1.1
E6	19	2.6	1.1	3.7
U6	20	2.2	2.0	**4.2**

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
14.60	0.50	15.50	8.13	12.2	132.6	11.25	1.63

Name	Reading	Units	Date
Aluminium	0.155	mg/L	12/07/2022
Ammonia	0.012	mg/L	12/07/2022
Arsenic III	<0.004	mg/	12/07/2022
Arsenic V	<0.004	mg/L	12/07/2022
Cadmium	<0.0002	mg/L	12/07/2022
Chromium (Trivalent)	<0.001	mg/L	12/07/2022
Chromium (VI) Compounds	<0.001	mg/L	12/07/2022
Copper	0.001	mg/L	12/07/2022
Iron	0.138	mg/L	12/07/2022
Lead	<0.0002	mg/L	12/07/2022
Manganese	0.0157	mg/L	12/07/2022
Nickel	0.0006	mg/L	12/07/2022
pH	7.83	pH units	12/07/2022
Selenium	<0.002	mg/L	12/07/2022
Total Suspended Solids	14	mg/L	12/07/2022
Vanadium	0.0016	mg/L	12/07/2022
Zinc	<0.005	mg/L	12/07/2022

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
14.38	0.50	14.82	8.14	11.7	95.8	8.84	1.38

Name	Reading	Units	Date
Aluminium	0.198	mg/L	12/07/2022
Ammonia	0.011	mg/L	12/07/2022
Arsenic III	<0.004	mg/L	12/07/2022
Arsenic V	<0.004	mg/L	12/07/2022
Cadmium	<0.0002	mg/L	12/07/2022
Chromium (Trivalent)	<0.001	mg/L	12/07/2022
Chromium (VI) Compounds	<0.001	mg/L	12/07/2022
Copper	0.001	mg/L	12/07/2022
Iron	0.183	mg/L	12/07/2022
Lead	<0.0002	mg/L	12/07/2022
Manganese	0.0182	mg/L	12/07/2022
Nickel	<0.0005	mg/L	12/07/2022
pH	7.85	pH units	12/07/2022
Selenium	<0.002	mg/L	12/07/2022
Total Suspended Solids	21	mg/L	12/07/2022
Vanadium	0.0016	mg/L	12/07/2022
Zinc	<0.005	mg/L	12/07/2022

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
11.00	0.50	12.92	8.35	8.2	104.0	10.14	1.13

Name	Reading	Units	Date
Aluminium	0.220	mg/L	12/07/2022
Ammonia	0.018	mg/L	12/07/2022
Arsenic III	<0.004	mg/L	12/07/2022
Arsenic V	<0.004	mg/L	12/07/2022
Cadmium	0.00011	mg/L	12/07/2022
Chromium (Trivalent)	<0.001	mg/L	12/07/2022
Chromium (VI) Compounds	<0.001	mg/L	12/07/2022
Copper	0.0020	mg/L	12/07/2022
Iron	0.136	mg/L	12/07/2022
Lead	0.0006	mg/L	12/07/2022
Manganese	0.0161	mg/L	12/07/2022
Nickel	0.0008	mg/L	12/07/2022
pH	7.71	pH units	12/07/2022
Selenium	0.0006	mg/L	12/07/2022
Total Suspended Solids	7	mg/L	12/07/2022
Vanadium	0.0013	mg/L	12/07/2022
Zinc	0.014	mg/L	12/07/2022

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
14.17	0.5	14.80	7.94	10.1	113.2	10.11	0.38

Name	Reading	Units	Date
Aluminium	1.18	mg/L	12/07/2022
Ammonia	0.022	mg/L	12/07/2022
Arsenic III	<0.0005	mg/L	12/07/2022
Arsenic V	<0.0005	mg/L	12/07/2022
Cadmium	<0.00005	mg/L	12/07/2022
Chromium (Trivalent)	<0.001	mg/L	12/07/2022
Chromium (VI) Compounds	<0.001	mg/L	12/07/2022
Copper	0.0020	mg/L	12/07/2022
Iron	1.16	mg/L	12/07/2022
Lead	0.0007	mg/L	12/07/2022
Manganese	0.0481	mg/L	12/07/2022
Nickel	0.0019	mg/L	12/07/2022
pH	7.33	pH units	12/07/2022
Selenium	0.0006	mg/L	12/07/2022
Total Suspended Solids	36	mg/L	12/07/2022
Vanadium	0.0029	mg/L	12/07/2022
Zinc	0.008	mg/L	12/07/2022

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	0.572	mg/L	-	14/07/2022
Ammonia	0.35	mg/L	-	14/07/2022
Arsenic III	<0.0005	mg/L	-	14/07/2022
Arsenic V	0.0050	mg/L	-	14/07/2022
Cadmium	<0.00005	mg/L	-	14/07/2022
Chromium (Trivalent)	<0.001	mg/L	-	14/07/2022
Chromium (VI) Compounds	<0.01	mg/L	-	14/07/2022
Copper	0.0014	mg/L	-	14/07/2022
Iron	0.188	mg/L	-	14/07/2022
Lead	0.0003	mg/L	-	14/07/2022
Manganese	0.0465	mg/L	-	14/07/2022
Nickel	0.0008	mg/L	-	14/07/2022
Nitrite and Nitrate as N	0.93	mg/L	-	14/07/2022
Nitrogen	1.6	mg/L	-	14/07/2022
pH	8.48	pH units	-	14/07/2022
Phosphorus as P	0.13	mg/L	-	14/07/2022
Reactive Phosphorus as P	0.06	mg/L	-	14/07/2022
Selenium	0.0213	mg/L	-	14/07/2022
Total Kjeldahl Nitrogen	0.7	mg/L	-	14/07/2022
Total Suspended Solids	11	mg/L	-	14/07/2022
Vanadium	0.0426	mg/L	-	14/07/2022
Zinc	0.002	mg/L	-	14/07/2022

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	0.153	mg/L	-	14/07/2022
Ammonia	0.038	mg/L	-	14/07/2022
Arsenic III	<0.004	mg/L	-	14/07/2022
Arsenic V	<0.004	mg/L	-	14/07/2022
Cadmium	<0.0002	mg/L	-	14/07/2022
Chromium (Trivalent)	<0.001	mg/L	-	14/07/2022
Chromium (VI) Compounds	<0.01	mg/L	-	14/07/2022
Copper	0.0014	mg/L	-	14/07/2022
Iron	0.178	mg/L	-	14/07/2022
Lead	<0.0002	mg/L	-	14/07/2022
Manganese	0.0117	mg/L	-	14/07/2022
Nickel	0.0013	mg/L	-	14/07/2022
pH	7.90	pH units	-	14/07/2022
Selenium	<0.001	mg/L	-	14/07/2022
Total suspended Solids	10	mg/L	-	14/07/2022
Vanadium	0.0020	mg/L	-	14/07/2022
Zinc	<0.005	mg/L	-	14/07/2022
Dissolved Oxygen	33.56	mg/L	-	14/07/2022
Field Temperature	8.4	degC	-	14/07/2022
Salinity	15.2	ppt	-	14/07/2022
Secchi Disk	2.25	m	-	14/07/2022
Temperature – Average	15.46	deg C	-	July 2022
Temperature – Minimum	10.60	deg C	-	July 2022
Temperature - Maximum	16.72	deg C	-	July 2022

Eraring Cooling Water Outlet Canal

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

Name	Reading	Units	Licence Limit	Date
Copper	0.0015	mg/L	0.005	14/07/2022
Iron	0.239	mg/L	0.3	14/07/2022
Selenium	<0.001	mg/L	0.002	14/07/2022
Temperature – Average	22.25	deg C	37.5	July 2022
Temperature – Minimum	18.26	deg C	37.5	July 2022
Temperature - Maximum	26.30	deg C	37.5	July 2022
Maximum Daily Discharge from Ash Dam	59.23	ML	150	July 2022
Monthly Discharge from Ash Dam	1110.45	ML	-	July 2022

Emergency Discharge – Toe Drain Pond

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

Name	Reading	Units	Licence Limit	Date
Aluminium	0.039	mg/L	-	14/07/2022
Ammonia	1.29	mg/L	-	14/07/2022
Arsenic III	0.0021	mg/L	-	14/07/2022
Arsenic V	0.0006	mg/L	-	14/07/2022
Cadmium	<0.00005	mg/L	-	14/07/2022
Chromium (Trivalent)	<0.001	mg/L	-	14/07/2022
Chromium (VI) Compounds	<0.01	mg/L	-	14/07/2022
Copper	0.0008	mg/L	-	14/07/2022
Iron	8.00	mg/L	-	14/07/2022
Lead	<0.0001	mg/L	-	14/07/2022
Manganese	0.657	mg/L	-	14/07/2022
Nickel	0.0020	mg/L	-	14/07/2022
Nitrite and Nitrate as N	0.093	mg/L	-	14/07/2022
Nitrogen	1.13	mg/L	-	14/07/2022
pH	6.66	pH units	6-9.5	14/07/2022
Phosphorus as P	0.019	mg/L	-	14/07/2022
Reactive Phosphorus as P	0.023	mg/L	-	14/07/2022
Selenium	<0.0002	mg/L	-	14/07/2022
Total Kjeldahl Nitrogen	1.04	mg/L	-	14/07/2022
Total Suspended Solids	24	mg/L	50	14/07/2022
Vanadium	0.0008	mg/L	-	14/07/2022
Zinc	0.003	mg/L	-	14/07/2022

MR217

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

Name	Reading	Units	Licence Limit	Date
Aluminium	1.72	mg/L	-	6/07/2022
Ammonia	0.061	mg/L	-	6/07/2022
Arsenic III	<0.0005	mg/L	-	6/07/2022
Arsenic V	0.0005	mg/L	-	6/07/2022
Cadmium	<0.00005	mg/L	-	6/07/2022
Chromium (Trivalent)	<0.001	mg/L	-	6/07/2022
Chromium (VI) Compounds	<0.01	mg/L	-	6/07/2022
Copper	0.0023	mg/L	-	6/07/2022
Iron	0.997	mg/L	-	6/07/2022
Lead	0.0014	mg/L	-	6/07/2022
Manganese	0.0194	mg/L	-	6/07/2022
Nickel	0.0008	mg/L	-	6/07/2022
Nitrite and Nitrate as N	0.216	mg/L	-	6/07/2022
Nitrogen	0.69	mg/L	-	6/07/2022
pH	6.76	pH units	6-9.5	6/07/2022
Phosphorus as P	0.070	mg/L	-	6/07/2022
Reactive Phosphorus as P	0.008	mg/L	-	6/07/2022
Selenium	0.0008	mg/L	-	6/07/2022
Total Kjeldahl Nitrogen	0.47	mg/L	-	6/07/2022
Total Suspended Solids	50	mg/L	50	6/07/2022
Vanadium	0.0043	mg/L	-	6/07/2022
Zinc	0.008	mg/L	-	6/07/2022

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 July 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	-