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

Environmental Monitoring Data October 2025



Compliance Summary:

Were all EPL monitoring limits met	Yes

Details of EPL Non- compliances

EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Reading	Units	Licence Limit	Date	Comments

EPL1429 Environment Protection Licence monitoring locations are shown here
https://www.originenergy.com.au/wp-content/uploads/3/Eraring_Power_Station_EPL_Monitoring_Locations_Map.pdf

Unit 1 Boiler Continuous Emission Monitoring Summary

EPA Identification no.3 - 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	Daily Max Hourly Average	Daily Min Hourly Average	Daily Ave	Daily Max Hourly Average	Daily Min Hourly Average
01/10/2025	389	453	316	761	851	716
02/10/2025	432	504	358	817	923	672
03/10/2025	398	455	330	754	840	671
04/10/2025	418	490	325	721	830	620
05/10/2025	397	450	327	772	832	630
06/10/2025	453	630	345	817	849	779
07/10/2025	481	589	368	788	883	702
08/10/2025	416	508	309	811	909	706
09/10/2025	411	448	365	883	961	827
10/10/2025	421	514	341	868	899	815
11/10/2025	412	468	362	949	1073	783
12/10/2025	441	522	328	922	999	812
13/10/2025	436	507	363	840	930	754
14/10/2025	422	491	347	817	915	713
15/10/2025	400	477	324	765	821	716
16/10/2025	386	449	320	813	876	733
17/10/2025	385	454	292	782	861	714
18/10/2025	392	452	313	729	855	607
19/10/2025	358	400	312	719	812	578
20/10/2025	361	403	303	806	894	652
21/10/2025	371	417	311	719	820	654
22/10/2025	351	443	297	782	1172	663
23/10/2025	355	393	249	675	830	565
24/10/2025	380	458	314	619	693	534
25/10/2025	471	539	410	633	706	507
26/10/2025	395	444	343	753	876	597
27/10/2025	406	437	329	735	870	551
28/10/2025	427	454	395	577	703	451
29/10/2025	447	511	398	581	718	428
30/10/2025	444	534	355	694	804	454
31/10/2025	412	497	369	737	810	584

Unit 2 Boiler Continuous Emission Monitoring Summary

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

	NOx			SO_2		
	mg/Nm^3 (7% O_2)			mg/Nm^3 (7% O_2)		
	Daily Ave	Daily Max Hourly Average	Daily Min Hourly Average	Daily Ave	Daily Max Hourly Average	Daily Min Hourly Average
01/10/2025	305	342	277	607	771	559
02/10/2025	317	343	277	635	783	601
03/10/2025	342	468	253	603	698	551
04/10/2025	421	505	307	607	733	557
05/10/2025	383	449	282	599	717	554
06/10/2025	396	510	305	643	774	622
07/10/2025	390	505	258	650	784	605
08/10/2025	332	442	252	607	769	502
09/10/2025	313	377	296	689	901	626
10/10/2025	357	409	286	672	754	620
11/10/2025	341	420	263	740	904	659
12/10/2025	377	447	288	699	855	637
13/10/2025	371	455	278	667	765	640
14/10/2025	349	438	289	624	785	497
15/10/2025	349	415	253	606	736	552
16/10/2025	340	420	256	630	734	590
17/10/2025	359	431	291	619	711	585
18/10/2025	305	369	244	586	722	531
19/10/2025	339	435	274	601	719	547
20/10/2025	357	465	264	601	674	561
21/10/2025	364	453	238	573	666	522
22/10/2025	369	446	296	598	691	529
23/10/2025	361	442	275	573	685	521
24/10/2025	361	428	268	505	587	463
25/10/2025	389	497	261	535	607	505
26/10/2025	314	415	243	572	675	530
27/10/2025	331	402	250	610	745	560
28/10/2025	412	493	377	537	604	506
29/10/2025	397	448	336	539	646	500
30/10/2025	349	440	284	589	696	528
31/10/2025	381	457	263	596	666	541

Unit 3 Boiler Continuous Emission Monitoring Summary

EPA Identification no. 5 - Air emissions monitoring, Boiler 3 stack discharge to air
Unit 3 offline 3-12 October 2025

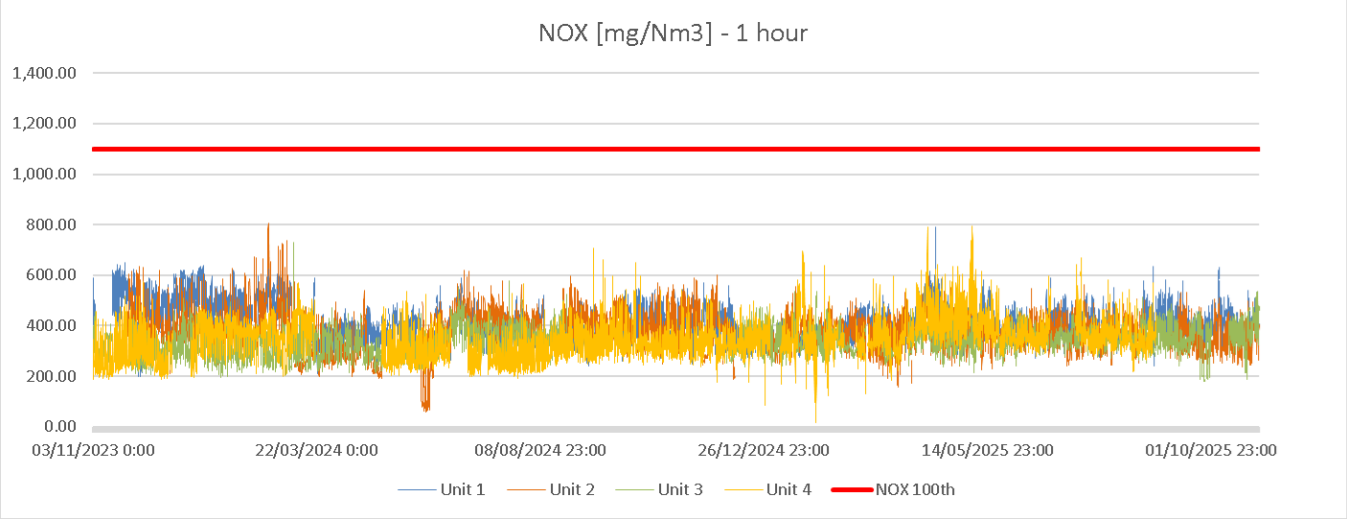
	NOx			SO_2		
	mg/Nm^3 (7% O_2)			mg/Nm^3 (7% O_2)		
	Daily Ave	Daily Max Hourly Average	Daily Min Hourly Average	Daily Ave	Daily Max Hourly Average	Daily Min Hourly Average
01/10/2025	371	425	196	751	833	427
02/10/2025	417	417	417	769	769	769
03/10/2025	-	-	-	-	-	-
04/10/2025	-	-	-	-	-	-
05/10/2025	-	-	-	-	-	-
06/10/2025	-	-	-	-	-	-
07/10/2025	-	-	-	-	-	-
08/10/2025	-	-	-	-	-	-
09/10/2025	-	-	-	-	-	-
10/10/2025	-	-	-	-	-	-
11/10/2025	-	-	-	-	-	-
12/10/2025	-	-	-	-	-	-
13/10/2025	386	420	273	762	856	521
14/10/2025	377	430	330	760	852	678
15/10/2025	394	436	321	716	746	577
16/10/2025	379	444	292	757	782	692
17/10/2025	377	437	287	745	778	636
18/10/2025	377	416	321	721	781	628
19/10/2025	374	427	299	732	773	692
20/10/2025	372	454	309	745	772	684
21/10/2025	377	444	313	700	745	612
22/10/2025	345	442	269	726	775	703
23/10/2025	332	453	214	544	779	338
24/10/2025	324	438	188	487	653	237
25/10/2025	417	474	339	638	679	543
26/10/2025	371	466	314	689	711	614
27/10/2025	383	441	321	733	785	616
28/10/2025	432	475	347	633	688	550
29/10/2025	439	512	351	637	674	524
30/10/2025	429	534	335	697	727	550
31/10/2025	426	535	324	661	728	594

Unit 4 Boiler Continuous Emission Monitoring Summary -

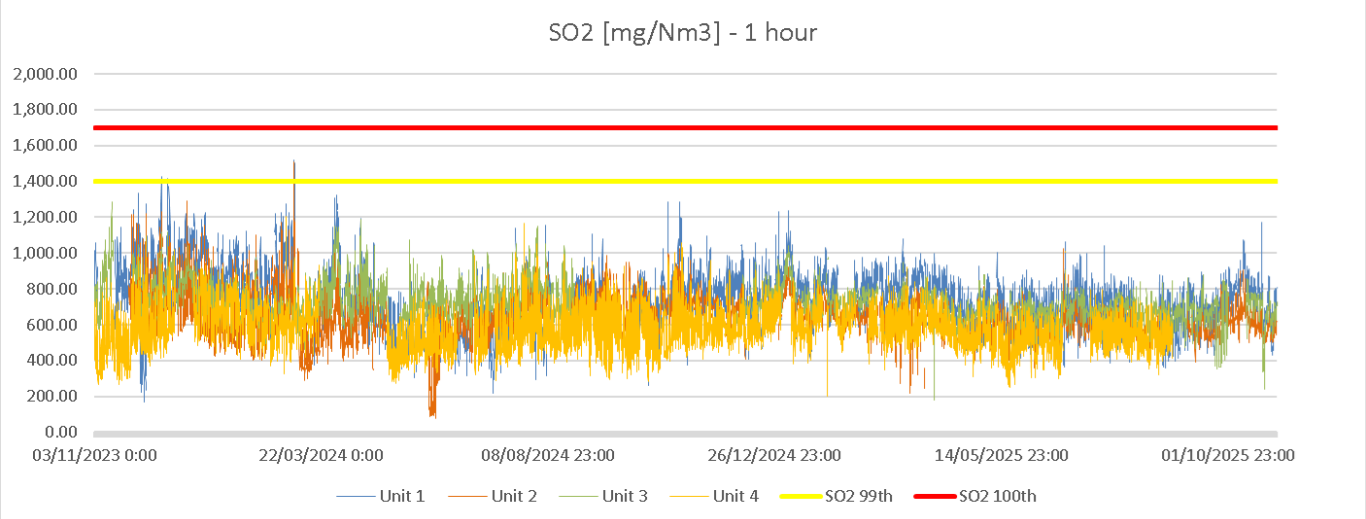
EPA Identification no. 6 - Air emissions monitoring, Boiler 4 stack discharge to air
Unit 4 offline 1-31 October 2025

	NOx			SO_2		
	mg/Nm^3 (7% O_2)			mg/Nm^3 (7% O_2)		
	Daily Ave	Daily Max Hourly Average	Daily Min Hourly Average	Daily Ave	Daily Max Hourly Average	Daily Min Hourly Average
01/10/2025	-	-	-	-	-	-
02/10/2025	-	-	-	-	-	-
03/10/2025	-	-	-	-	-	-
04/10/2025	-	-	-	-	-	-
05/10/2025	-	-	-	-	-	-
06/10/2025	-	-	-	-	-	-
07/10/2025	-	-	-	-	-	-
08/10/2025	-	-	-	-	-	-
09/10/2025	-	-	-	-	-	-
10/10/2025	-	-	-	-	-	-
11/10/2025	-	-	-	-	-	-
12/10/2025	-	-	-	-	-	-
13/10/2025	-	-	-	-	-	-
14/10/2025	-	-	-	-	-	-
15/10/2025	-	-	-	-	-	-
16/10/2025	-	-	-	-	-	-
17/10/2025	-	-	-	-	-	-
18/10/2025	-	-	-	-	-	-
19/10/2025	-	-	-	-	-	-
20/10/2025	-	-	-	-	-	-
21/10/2025	-	-	-	-	-	-
22/10/2025	-	-	-	-	-	-
23/10/2025	-	-	-	-	-	-
24/10/2025	-	-	-	-	-	-
25/10/2025	-	-	-	-	-	-
26/10/2025	-	-	-	-	-	-
27/10/2025	-	-	-	-	-	-
28/10/2025	-	-	-	-	-	-
29/10/2025	-	-	-	-	-	-
30/10/2025	-	-	-	-	-	-
31/10/2025	-	-	-	-	-	-

Continuous Emission Monitoring Summary NOx Data



Continuous Emission Monitoring Summary SO_2 Data



Unit 1 Boiler Emission Test Results

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

Name	Frequency	Reading	Units	Licence Limit	Date
Chlorine	6 monthly	0.05	mg/m^3	4	10/12/2024
Fluorine	6 monthly	8	mg/m^3	30	10/12/2024
Hydrogen chloride	6 monthly	9.6	mg/m^3	50	10/12/2024
Solid Particles	Quarterly	2.2	mg/m^3	50	29/07/2025
Sulfuric acid mist and sulfur trioxide (as SO_3)	6 monthly	1	mg/m^3	100	10/12/2024
Volatile organic compounds as n-	6 monthly	<0.07	mg/m^3	8	10/12/2024
Cadmium	6 monthly	0.00048	mg/m^3	0.03	29/07/2025
Mercury	6 monthly	<0.00006	mg/m^3	0.03	29/07/2025
Type 1 and 2 substances in Aggregate	6 monthly	≤0.01	mg/m^3	0.60	29/07/2025

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

Name	Frequency	Reading	Units	Licence Limit	Date
Flow Rate	6 monthly	460	m^3/sec	-	29/07/2025
Moisture	6 monthly	5	%	-	29/07/2025
Oxygen	6 monthly	7.2	%	-	29/07/2025
Solid Particles	Quarterly	1.5	mg/m^3	-	29/07/2025
Temperature	6 monthly	124	Deg C	-	29/07/2025
Carbon dioxide	6 monthly	12.9	%	-	29/07/2025
Chlorine	6 monthly	<0.03	mg/m^3	-	29/04/2025
Fluorine	6 monthly	8.5	mg/m^3	-	29/04/2025
Hydrogen chloride	6 monthly	7.2	mg/m^3	-	29/04/2025
Sulfuric acid mist and sulfur trioxide (as SO_3)	6 monthly	1.9	mg/m^3	-	29/04/2025
Volatile organic compounds as n-	6 monthly	0.11	mg/m^3	-	29/04/2025
Cadmium	6 monthly	0.0008	mg/m^3	-	29/07/2025
Mercury	6 monthly	<0.00005	mg/m^3	-	29/07/2025
Type 1 and Type 2 substances in	6 monthly	<0.015	mg/m^3	-	29/07/2025

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

Name	Frequency	Reading	Units	Licence Limit	Date
Flow Rate		360	m^3/sec	-	29/07/2025
Moisture		4.9	%	-	29/07/2025
Oxygen		6.9	%	-	29/07/2025
Solid Particles	Quarterly	3.1	mg/m^3	-	29/07/2025
Temperature		125	Deg C	-	29/07/2025
Cadmium	6 monthly	0.000065	mg/m^3	-	26/07/2025
Mercury	6 monthly	<0.00007	mg/m^3	-	26/07/2025
Type 1 and Type 2 substances in Aggregate	6 monthly	≤0.014	mg/m^3	-	26/07/2025

Unit 2 Boiler Emission Test Results

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

Name	Frequency	Reading	Units	Licence Limit	Date
Chlorine	6 monthly	<0.02	mg/m^3	4	9/01/2025
Fluorine	6 monthly	8.5	mg/m^3	30	9/01/2025
Hydrogen chloride	6 monthly	6.2	mg/m^3	50	9/01/2025
Solid Particles	Quarterly	20.0	mg/m^3	50	30/07/2025
Sulfuric acid mist and sulfur trioxide (as SO_3)	6 monthly	2.7	mg/m^3	100	9/01/2025
Volatile organic compounds as n-	6 monthly	<0.1	mg/m^3	8	9/01/2025
Cadmium	6 monthly	0.00027	mg/m^3	0.03	30/07/2025
Mercury	6 monthly	0.00008	mg/m^3	0.03	30/07/2025
Type 1 and 2 substances in Aggregate	6 monthly	<0.03	mg/m^3	0.60	30/07/2025

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

Name	Frequency	Reading	Units	Licence Limit	Date
Flow Rate	6 monthly	390	m^3/sec	-	30/07/2025
Moisture	6 monthly	4.6	%	-	30/07/2025
Oxygen	6 monthly	6.7	%	-	30/07/2025
Solid Particles	Quarterly	21	mg/m^3	-	30/07/2025
Temperature	6 monthly	110	Deg C	-	30/07/2025
Carbon dioxide	6 monthly	13.1	%	-	30/07/2025
Chlorine	6 monthly	<0.01	mg/m^3	-	30/04/2025
Fluorine	6 monthly	10	mg/m^3	-	30/04/2025
Hydrogen chloride	6 monthly	9.2	mg/m^3	-	30/04/2025
Sulfuric acid mist and sulfur trioxide (as SO_3)	6 monthly	3.6	mg/m^3	-	30/04/2025
Volatile organic compounds as n-	6 monthly	<0.06	mg/m^3	-	30/04/2025
Cadmium	6 monthly	0.00017	mg/m^3	-	30/07/2025
Mercury	6 monthly	0.00011	mg/m^3	-	30/07/2025
Type 1 and Type 2 substances in	6 monthly	<0.033	mg/m^3	-	30/07/2025

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

Name	Frequency	Reading	Units	Licence Limit	Date
Flow Rate		440	m^3/sec	-	30/07/2025
Moisture		6.2	%	-	30/07/2025
Oxygen		5.6	%	-	30/07/2025
Solid Particles	Quarterly	20	mg/m^3	-	30/07/2025
Temperature		119	Deg C	-	30/07/2025
Cadmium	6 monthly	0.00035	mg/m^3	-	30/07/2025
Mercury	6 monthly	0.000045	mg/m^3	-	30/07/2025
Type 1 and Type 2 substances in Aggregate	6 monthly	<0.018	mg/m^3	-	30/07/2025

Unit 3 Boiler Emission Test Results					
EPA Identification No 5 – Air Emissions monitoring, Boiler 3 stack discharge to air					
Name	**Frequency**	**Reading**	**Units**	**Licence Limit**	**Date**
Chlorine	6 monthly	0.046	mg/m^3	4	11/12/2024
Fluorine	6 monthly	9.7	mg/m^3	30	11/12/2024
Hydrogen chloride	6 monthly	15	mg/m^3	50	11/12/2024
Solid Particles	Quarterly	2.0	mg/m^3	50	31/07/2025
Sulfuric acid mist and sulfur trioxide (as SO_3)	6 monthly	1.2	mg/m^3	100	11/12/2024
Volatile organic compounds as n-propane equivalent	6 monthly	<0.08	mg/m^3	8	11/12/2024
Cadmium	6 monthly	0.00027	mg/m^3	0.03	31/07/2025
Mercury	6 monthly	<0.00004	mg/m^3	0.03	31/07/2025
Type 1 and 2 substances in Aggregate	6 monthly	≤0.01	mg/m^3	0.60	31/07/2025

EPA Identification No 11 – Air Emissions monitoring, Boiler 3 Exhaust Duct A					
Name	**Frequency**	**Reading**	**Units**	**Licence Limit**	**Date**
Flow Rate	6 monthly	430	m^3/sec	-	31/07/2025
Moisture	6 monthly	6.2	%	-	31/07/2025
Oxygen	6 Monthly	7	%	-	31/07/2025
Solid Particles	Quarterly	2.3	mg/m^3	-	31/07/2025
Temperature	6 monthly	110	Deg C	-	31/07/2025
Carbon dioxide	6 monthly	13	%	-	31//2025
Chlorine	6 monthly	0.18	mg/m^3	-	1/05/2025
Fluorine	6 monthly	16	mg/m^3	-	1/05/2025
Hydrogen chloride	6 monthly	11	mg/m^3	-	1/05/2025
Sulfuric acid mist and sulfur trioxide (as SO_3)	6 monthly	2.1	mg/m^3	-	1/05/2025
Volatile organic compounds as n-propane equivalent	6 monthly	<0.06	mg/m^3	-	1/05/2025
Cadmium	6 monthly	0.0004	mg/m^3	-	31/07/2025
Mercury	6 monthly	<0.00004	mg/m^3	-	31/07/2025
Type 1 and Type 2 substances in Aggregate	6 monthly	<0.012	mg/m^3	-	31/07/2025

EPA Identification No 12 – Air Emissions monitoring, Boiler 3 Exhaust Duct B					
Name	**Frequency**	**Reading**	**Units**	**Licence Limit**	**Date**
Flow Rate		350	m^3/sec	-	31/07/2025
Moisture		5.8	%	-	31/07/2025
Oxygen		5.7	%	-	31/07/2025
Solid Particles	Quarterly	1.6	mg/m^3	-	31/07/2025
Temperature		108	Deg C	-	31/07/2025
Cadmium	6 monthly	0.00012	mg/m^3	-	31/07/2025
Mercury	6 monthly	<0.00005	mg/m^3	-	31/07/2025
Type 1 and Type 2 substances in Aggregate	6 monthly	≤0.013	mg/m^3	-	31/07/2025

Unit 4 Boiler Emission Test Results

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

Name	Frequency	Reading	Units	Licence Limit	Date
Chlorine	6 monthly	<0.01	mg/m^3	4	12-13/12/2024
Fluorine	6 monthly	11	mg/m^3	30	12-13/12/2024
Hydrogen chloride	6 monthly	8.5	mg/m^3	50	12-13/12/2024
Solid Particles	Quarterly	6.6	mg/m^3	50	01/08/2025
Sulfuric acid mist and sulfur trioxide (as SO_3)	6 monthly	2.1	mg/m^3	100	12-13/12/2024
Volatile organic compounds as n-	6 monthly	0.11	mg/m^3	8	12-13/12/2024
Cadmium	6 monthly	0.00009	mg/m^3	0.03	01/08/2025
Mercury	6 monthly	<0.00006	mg/m^3	0.03	01/08/2025
Type 1 and 2 substances in Aggregate	6 monthly	≤0.02	mg/m^3	0.60	01/08/2025

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

Name	Frequency	Reading	Units	Licence Limit	Date
Flow Rate	6 monthly	380	m^3/sec	-	01/08/2025
Moisture	6 monthly	5	%	-	01/08/2025
Oxygen	6 monthly	7.2	%	-	01/08/2025
Solid Particles	Quarterly	6.9	mg/m^3	-	01/08/2025
Temperature	6 monthly	121	Deg C	-	01/08/2025
Carbon dioxide	6 monthly	12.8	%	-	01/08/2025
Chlorine	6 monthly	<0.03	mg/m^3	-	2/05/2025
Fluorine	6 monthly	17	mg/m^3	-	2/05/2025
Hydrogen chloride	6 monthly	14	mg/m^3	-	2/05/2025
Sulfuric acid mist and sulfur trioxide (as SO_3)	6 monthly	6.6	mg/m^3	-	2/05/2025
Volatile organic compounds as n-	6 monthly	<0.08	mg/m^3	-	2/05//2025
Cadmium	6 monthly	0.000087	mg/m^3	-	01/08/2025
Mercury	6 monthly	<0.00007	mg/m^3	-	01/08/2025
Type 1 and Type 2 substances in	6 monthly	<0.019	mg/m^3	-	01/08/2025

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

Name	Frequency	Reading	Units	Licence Limit	Date
Flow Rate		450	m^3/sec	-	01/08/2025
Moisture		5	%	-	01/08/2025
Oxygen		6.4	%	-	01/08/2025
Solid Particles	Quarterly	6.3	mg/m^3	-	01/08/2025
Temperature		119	Deg C	-	01/08/2025
Cadmium	6 monthly	0.0001	mg/m^3	-	01/08/2025
Mercury	6 monthly	<0.00005	mg/m^3	-	01/08/2025
Type 1 and Type 2 substances in Aggregate	6 monthly	≤0.019	mg/m^3	-	01/08/2025

Water Quality - Lake Monitoring LM10

EPA Identification no. 27 - The waters of Lake Macquarie located midway between cooling water inlet and Hungary Point

		Field Water Quality Recordings					
Air Temp	**Depth**	**Water Temp**	**pH**	**Salinity**	**Dissolved Oxygen**		**Sechi**
^{0}C	m	^{0}C	pH unit	ppt	%	mg/L	m
19.19	0.5	21.80	7.78	36.3	93.0	6.45	2.25

	Laboratory Analysis			
Name	**Reading**	**Units**	**Licence Limit**	**Date**
Aluminium	0.072	mg/L	-	2/10/25
Ammonia	<0.010	mg/L	-	2/10/25
Arsenic III	<0.004	mg/L	-	2/10/25
Arsenic V	<0.004	mg/L	-	2/10/25
Cadmium	<0.0002	mg/L	-	2/10/25
Chromium (Trivalent)	<0.001	mg/L	-	2/10/25
Chromium (VI) Compounds	<0.001	mg/L	-	2/10/25
Copper	0.001	mg/L	-	2/10/25
Iron	0.107	mg/L	-	2/10/25
Lead	<0.0002	mg/L	-	2/10/25
Manganese	0.0071	mg/L	-	2/10/25
Nickel	0.0008	mg/L	-	2/10/25
pH	7.96	pH units	-	2/10/25
Selenium	<0.002	mg/L	-	2/10/25
Total Suspended Solids	28	mg/L	-	2/10/25
Vanadium	0.0023	mg/L	-	2/10/25
Zinc	<0.005	mg/L	-	2/10/25

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

	Field Water Quality Recordings						
Air Temp	**Depth**	**Water Temp**	**pH**	**Salinity**	**Dissolved Oxygen**		**Secchi**
^{0}C	m	^{0}C	pH unit	ppt	%	mg/L	m
18.87	0.5	21.27	7.81	35.9	99.1	6.96	3.25

Laboratory Analysis				
Name	Reading	**Units**	**Licence Limits**	**Date**
Aluminium	0.016	mg/L	-	2/10/25
Ammonia	<0.010	mg/L	-	2/10/25
Arsenic III	<0.004	mg/L	-	2/10/25
Arsenic V	<0.004	mg/L	-	2/10/25
Cadmium	<0.0002	mg/L	-	2/10/25
Chromium (Trivalent)	<0.001	mg/L	-	2/10/25
Chromium (VI) Compounds	<0.001	mg/L	-	2/10/25
Copper	<0.001	mg/L	-	2/10/25
Iron	0.011	mg/L	-	2/10/25
Lead	<0.0002	mg/L	-	2/10/25
Manganese	0.0040	mg/L	-	2/10/25
Nickel	<0.0005	mg/L	-	2/10/25
pH	8.07	pH units	-	2/10/25
Selenium	<0.002	mg/L	-	2/10/25
Total Suspended Solids	38	mg/L	-	2/10/25
Vanadium	0.0025	mg/L	-	2/10/25
Zinc	<0.005	mg/L	-	2/10/25

Water Quality - Lake Monitoring LM4

EPA Identification no. 30 - The northern waters of Lake Macquarie east off Lake Macquarie Yacht Club

	Field Water Quality Recordings						
Air Temp	**Depth**	**Water Temp**	**pH**	**Salinity**	**Dissolved Oxygen**		**Secchi**
^{0}C	m	^{0}C	pH unit	ppt	%	mg/L	m
21.33	0.5	20.19	7.97	41.70	108.9	7.71	4.25

Laboratory Analysis

Name	Reading	Units	Licence Limits	Date
Aluminium	0.009	mg/L	-	2/10/25
Ammonia	<0.010	mg/L	-	2/10/25
Arsenic III	<0.004	mg/L	-	2/10/25
Arsenic V	<0.004	mg/L	-	2/10/25
Cadmium	<0.0002	mg/L	-	2/10/25
Chromium (Trivalent)	<0.001	mg/L	-	2/10/25
Chromium (VI) Compounds	<0.001	mg/L	-	2/10/25
Copper	<0.001	mg/L	-	2/10/25
Iron	<0.005	mg/L	-	2/10/25
Lead	<0.0002	mg/L	-	2/10/25
Manganese	0.0033	mg/L	-	2/10/25
Nickel	<0.0005	mg/L	-	2/10/25
pH	8.12	pH units	-	2/10/25
Selenium	<0.002	mg/L	-	2/10/25
Total Suspended Solids	13	mg/L	-	2/10/25
Vanadium	0.0019	mg/L	-	2/10/25
Zinc	<0.005	mg/L	-	2/10/25

EPA Identification no. 28 - The waters of Lake Macquarie located off old Wangi power station inlet point in Myuna Bay

	Field Water Quality Recordings						
Air Temp	**Depth**	**Water Temp**	**pH**	**Salinity**	**Dissolved Oxygen**		**Secchi**
^{0}C	m	^{0}C	pH unit	ppt	%	mg/L	m
18.68	0.5	23.47	7.81	40.57	112.7	7.60	3.25

Laboratory Analysis

Name	**Reading**	**Units**	**Licence Limits**	**Date**
Aluminium	0.021	mg/L	-	2/10/25
Ammonia	<0.010	mg/L	-	2/10/25
Arsenic III	<0.004	mg/L	-	2/10/25
Arsenic V	<0.004	mg/L	-	2/10/25
Cadmium	<0.0002	mg/L	-	2/10/25
Chromium (Trivalent)	<0.001	mg/L	-	2/10/25
Chromium (VI) Compounds	<0.001	mg/L	-	2/10/25
Copper	<0.001	mg/L	-	2/10/25
Iron	0.032	mg/L	-	2/10/25
Lead	<0.0002	mg/L	-	2/10/25
Manganese	0.0051	mg/L	-	2/10/25
Nickel	<0.0005	mg/L	-	2/10/25
pH	7.97	pH units	-	2/10/25
Selenium	<0.002	mg/L	-	2/10/25
Total Suspended Solids	9	mg/L	-	2/10/25
Vanadium	0.0022	mg/L	-	2/10/25
Zinc	<0.005	mg/L	-	2/10/25

Eraring Ash Dam Water Quality Monitoring

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

Name	Reading	Units	Licence Limit	Date
Aluminium	0.541	mg/L	-	2/10/25
Ammonia	1.94	mg/L	-	2/10/25
Arsenic III	<0.0005	mg/L	-	2/10/25
Arsenic V	0.0102	mg/L	-	2/10/25
Cadmium	0.00007	mg/L	-	2/10/25
Chromium (Trivalent)	<0.001	mg/L	-	2/10/25
Chromium (VI) Compounds	<0.01	mg/L	-	2/10/25
Copper	0.0042	mg/L	-	2/10/25
Iron	0.336	mg/L	-	2/10/25
Lead	0.0006	mg/L	-	2/10/25
Manganese	0.161	mg/L	-	2/10/25
Nickel	0.0031	mg/L	-	2/10/25
Nitrite and Nitrate as N	5.20	mg/L	-	2/10/25
Nitrogen	7.8	mg/L	-	2/10/25
pH	7.43	pH units	-	2/10/25
Phosphorus as P	0.78	mg/L	-	2/10/25
Reactive Phosphorus as P	0.64	mg/L	-	2/10/25
Selenium	0.0270	mg/L	-	2/10/25
Total Kjeldahl Nitrogen	2.6	mg/L	-	2/10/25
Total Suspended Solids	62	mg/L	-	2/10/25
Vanadium	0.0439	mg/L	-	2/10/25
Zinc	0.011	mg/L	-	2/10/25

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	0.051	mg/L	-	2/10/25
Ammonia	<0.005	mg/L	-	2/10/25
Arsenic III	<0.008	mg/L	-	2/10/25
Arsenic V	<0.008	mg/L	-	2/10/25
Cadmium	<0.0002	mg/L	-	2/10/25
Chromium (Trivalent)	<0.001	mg/L	-	2/10/25
Chromium (VI) Compounds	<0.01	mg/L	-	2/10/25
Copper	0.0010	mg/L	-	2/10/25
Iron	0.082	mg/L	-	2/10/25
Lead	<0.0002	mg/L	-	2/10/25
Manganese	0.0056	mg/L	-	2/10/25
Nickel	0.0006	mg/L	-	2/10/25
pH	8.09	pH units	-	2/10/25
Selenium	0.002	mg/L	-	2/10/25
Total Suspended Solids	43	mg/L	-	2/10/25
Vanadium	0.0025	mg/L	-	2/10/25
Zinc	<0.005	mg/L	-	2/10/25
Dissolved Oxygen	7.45	mg/L	-	2/10/25
Field Temperature	23	degC	-	2/10/25
Salinity	31.97	ppt	-	2/10/25
Secchi Disk	3.25	m	-	2/10/25
Temperature – Average	22.36	deg C	-	October 25
Temperature – Minimum	16.32	deg C	-	October 25
Temperature - Maximum	24.86	deg C	-	October 25

Eraring Cooling Water Outlet Canal

EPA Identification no. 36 - Cooling water outlet canal to Myuna Bay

Name	Reading	Units	Licence Limit	Date
Copper	0.0026	mg/L	0.005	2/10/25
Iron	0.062	mg/L	0.3	2/10/25
Selenium	0.001	mg/L	0.002	2/10/25

Eraring Cooling Water Outlet Canal

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

Name	Reading	Units	96.5% Limit	99.8% Limit	100% Limit	Date
Temperature – Average	28.84	deg C	35.5	37.5	38.5	October 25
Temperature – Minimum	22.15	deg C				October 25
Temperature - Maximum	34.62	deg C				October 25

Eraring Cooling Water Outlet Canal

EPA Identification no. 25 – Discharge from Ash Dam

Name	Reading	Units	Licence Limit	Date
Minimum Daily Discharge from Ash Dam	0.27	ML		October 2025
Average Daily Discharge from Ash Dam	4.42	ML		October 2025
Maximum Daily Discharge from Ash Dam	11.28	ML	150	October 2025
Monthly Discharge from Ash Dam	132.61	ML	-	October 2025

Emergency Discharge – Toe Drain Pond

EPA Identification no. 24 - Emergency discharge to toe drain collection pond.

Toe Drain Pond did not discharge in the month, background sampling only

Name	Reading	Units	Licence Limit	Date
Aluminium	0.069	mg/L	-	2/10/25
Ammonia	2.15	mg/L	-	2/10/25
Arsenic III	0.0024	mg/L	-	2/10/25
Arsenic V	0.0012	mg/L	-	2/10/25
Cadmium	<0.00005	mg/L	-	2/10/25
Chromium (Trivalent)	<0.001	mg/L	-	2/10/25
Chromium (VI) Compounds	<0.01	mg/L	-	2/10/25
Copper	<0.0005	mg/L	-	2/10/25
Iron	7.08	mg/L	-	2/10/25
Lead	<0.0001	mg/L	-	2/10/25
Manganese	0.918	mg/L	-	2/10/25
Nickel	0.0024	mg/L	-	2/10/25
Nitrite and Nitrate as N	0.074	mg/L	-	2/10/25
Nitrogen	2.84	mg/L	-	2/10/25
pH	6.87	pH units	6-9.5	2/10/25
Phosphorus as P	0.399	mg/L	-	2/10/25
Reactive Phosphorus as P	0.005	mg/L	-	2/10/25
Selenium	0.0003	mg/L	-	2/10/25
Total Kjeldahl Nitrogen	2.77	mg/L	-	2/10/25
Total Suspended Solids	23	mg/L	50	2/10/25
Vanadium	0.0006	mg/L	-	2/10/25
Zinc	0.004	mg/L	-	2/10/25

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

MR217 did not discharge in the month and no background sample taken due to insufficient water.

Name	Reading	Units	Licence Limit	Date
Aluminium		mg/L	-	2/10/25
Ammonia		mg/L	-	2/10/25
Arsenic III		mg/L	-	2/10/25
Arsenic V		mg/L	-	2/10/25
Cadmium		mg/L	-	2/10/25
Chromium (Trivalent)		mg/L	-	2/10/25
Chromium (VI) Compounds		mg/L	-	2/10/25
Copper		mg/L	-	2/10/25
Iron		mg/L	-	2/10/25
Lead		mg/L	-	2/10/25
Manganese		mg/L	-	2/10/25
Nickel		mg/L	-	2/10/25
Nitrite and Nitrate as N		mg/L	-	2/10/25
Nitrogen		mg/L	-	2/10/25
pH		pH units	6-9.5	2/10/25
Phosphorus as P		mg/L	-	2/10/25
Reactive Phosphorus as P		mg/L	-	2/10/25
Selenium		mg/L	-	2/10/25
Total Kjeldahl Nitrogen		mg/L	-	2/10/25
Total Suspended Solids		mg/L	50	2/10/25
Vanadium		mg/L	-	2/10/25
Zinc		mg/L	-	2/10/25

Groundwater Monitoring
Groundwater Well – MW01

EPA Identification no. 32 – Groundwater Monitoring Well 01

Name	Reading	Units	Licence Limit	Date
Aluminium	0.204	mg/L	-	16/09/25
Ammonia	0.03	mg/L	-	16/09/25
Arsenic (III)	<0.0005	mg/L	-	16/09/25
Arsenic (V)	<0.0005	mg/L	-	16/09/25
Cadmium	0.00006	mg/L	-	16/09/25
Calcium	2	mg/L	-	16/09/25
Chromium (trivalent)	<0.01	mg/L	-	16/09/25
Chromium (VI) compounds	<0.01	mg/L	-	16/09/25
Copper	0.0008	mg/L	-	16/09/25
Electrical Conductivity	413	uS/cm	-	16/09/25
Iron	0.794	mg/L	-	16/09/25
Lead	0.0014	mg/L	-	16/09/25
Magnesium	5	mg/L	-	16/09/25
Manganese	0.145	mg/L	-	16/09/25
Nickel	0.005	mg/L	-	16/09/25
pH	5.01	pH units	-	16/09/25
Potassium	4	mg/L	-	16/09/25
Selenium	<0.0002	mg/L	-	16/09/25
Sodium	74	mg/L	-	16/09/25
Standing Water Level	5.73	m	-	16/09/25
Vanadium	0.0006	mg/L	-	16/09/25
Zinc	0.029	mg/L	-	16/09/25

Groundwater Monitoring
Groundwater Well – MW02

EPA Identification no. 33 – Groundwater Monitoring Well 02

Name	Reading	Units	Licence Limit	Date
Aluminium	1.740	mg/L	-	15/09/25
Ammonia	6.30	mg/L	-	15/09/25
Arsenic (III)	0.0036	mg/L	-	15/09/25
Arsenic (V)	0.0018	mg/L	-	15/09/25
Cadmium	0.00018	mg/L	-	15/09/25
Calcium	218	mg/L	-	15/09/25
Chromium (trivalent)	<0.01	mg/L	-	15/09/25
Chromium (VI) compounds	<0.01	mg/L	-	15/09/25
Copper	0.0028	mg/L	-	15/09/25
Electrical Conductivity	15400	uS/cm	-	15/09/25
Iron	12.000	mg/L	-	15/09/25
Lead	0.0061	mg/L	-	15/09/25
Magnesium	260	mg/L	-	15/09/25
Manganese	0.645	mg/L	-	15/09/25
Nickel	0.0022	mg/L	-	15/09/25
pH	6.61	pH units	-	15/09/25
Potassium	122	mg/L	-	15/09/25
Selenium	0.0009	mg/L	-	15/09/25
Sodium	3060	mg/L	-	15/09/25
Standing Water Level	5.20	m	-	15/09/25
Vanadium	0.010	mg/L	-	15/09/25
Zinc	0.051	mg/L	-	15/09/25

Groundwater Monitoring
Groundwater Well – MW06

EPA Identification no. 34 – Groundwater Monitoring Well 06

Name	Reading	Units	Licence Limit	Date
Aluminium	0.021	mg/L	-	15/09/25
Ammonia	3.29	mg/L	-	15/09/25
Arsenic (III)	0.0041	mg/L	-	15/09/25
Arsenic (V)	0.0017	mg/L	-	15/09/25
Cadmium	<0.00005	mg/L	-	15/09/25
Calcium	450	mg/L	-	15/09/25
Chromium (trivalent)	<0.01	mg/L	-	15/09/25
Chromium (VI) compounds	<0.01	mg/L	-	15/09/25
Copper	<0.0005	mg/L	-	15/09/25
Electrical Conductivity	18800	uS/cm	-	15/09/25
Iron	10.300	mg/L	-	15/09/25
Lead	0.0006	mg/L	-	15/09/25
Magnesium	242	mg/L	-	15/09/25
Manganese	0.372	mg/L	-	15/09/25
Nickel	0.0007	mg/L	-	15/09/25
pH	6.74	pH units	-	15/09/25
Potassium	118	mg/L	-	15/09/25
Selenium	0.0006	mg/L	-	15/09/25
Sodium	3380	mg/L	-	15/09/25
Standing Water Level	1.79	m	-	15/09/25
Vanadium	0.0011	mg/L	-	15/09/25
Zinc	0.012	mg/L	-	15/09/25

Groundwater Monitoring
Groundwater Well – EGM/D26

EPA Identification no. 35 – Groundwater Monitoring Well D26
Groundwater well dry at time of sampling

Name	Reading	Units	Licence Limit	Date
Aluminium	1.160	mg/L	-	16/09/25
Ammonia	0.01	mg/L	-	16/09/25
Arsenic (III)	<0.0005	mg/L	-	16/09/25
Arsenic (V)	<0.0005	mg/L	-	16/09/25
Cadmium	<0.00005	mg/L	-	16/09/25
Calcium	2	mg/L	-	16/09/25
Chromium (trivalent)	<0.01	mg/L	-	16/09/25
Chromium (VI) compounds	<0.01	mg/L	-	16/09/25
Copper	0.0015	mg/L	-	16/09/25
Electrical Conductivity	89	uS/cm	-	16/09/25
Iron	1.080	mg/L	-	16/09/25
Lead	0.001	mg/L	-	16/09/25
Magnesium	2	mg/L	-	16/09/25
Manganese	0.004	mg/L	-	16/09/25
Nickel	0.001	mg/L	-	16/09/25
pH	5.68	pH units	-	16/09/25
Potassium	<1	mg/L	-	16/09/25
Selenium	0.0004	mg/L	-	16/09/25
Sodium	16	mg/L	-	16/09/25
Standing Water Level	1.48	m	-	16/09/25
Vanadium	0.0032	mg/L	-	16/09/25
Zinc	0.006	mg/L	-	16/09/25

Water Quality – Surface Water EBESS

EPA Identification no. 37 – Final discharge point from the water treatment plant
Sample Frequency – Daily during any discharge (not discharging, no samples collected).

Name	Min reading (mg/L)	Average reading (mg/L)	Maximum Reading (mg/L)	Project Criteria	Number of samples
Cadmium	-	-	-	-	0
Chromium (hexavalant)	-	-	-	-	0
Chromium (trivalent)	-	-	-	-	0
Copper	-	-	-	-	0
Manganese	-	-	-	-	0
Nickel	-	-	-	-	0
PFOS	-	-	-	0.13 ug/L	0
PFOA	-	-	-	220 ug/L	0
pH	-	-	-	6.5-9	0
Selenium	-	-	-	-	0
Total Suspended solids	-	-	-	50mg/L	0
Vanadium	-	-	-	-	0
Zinc	-	-	-	8 mg/L	0

Daily Volume Discharged		
Min	Ave	Max

EPA Identification no. 38 – Monitoring overflow point from the attenuation pond
Sample Frequency – Daily during any discharge (not discharging, no samples collected).

Name	Frequency	Reading	Project Criteria	Date
Cadmium	Daily during any discharge	-	-	
Chromium (hexavalant)	Daily during any discharge	-	-	
Chromium (trivalent)	Daily during any discharge	-	-	
Copper	Daily during any discharge	-	-	
Manganese	Daily during any discharge	-	-	
Nickel	Daily during any discharge	-	-	
PFOS	Daily during any discharge	-	0.13 ug/L	
PFOA	Daily during any discharge	-	220 ug/L	
pH	Daily during any discharge	-	6.5-9	
Selenium	Daily during any discharge	-	-	
Total Suspended solids	Daily during any discharge	-	50mg/L	
Vanadium	Daily during any discharge	-	-	
Zinc	Daily during any discharge	-	8 mg/L	

EPA Identification no. 39 – Monitoring overflow point from SW01A
Sample Frequency – Daily during any discharge (not discharging, no samples collected).

Name	Reading	Project Criteria	Date
Cadmium	-	-	
Chromium (hexavalant)	-	-	
Chromium (trivalent)	-	-	
Copper	-	-	
Manganese	-	-	
Nickel	-	-	
PFOS	-	0.13 ug/L	
PFOA	-	220 ug/L	
pH	-	6.5-9	
Selenium	-	-	
Total Suspended solids	-	50mg/L	
Vanadium	-	-	
Zinc	-	8 mg/L	

EPA Identification no. 40 – Monitoring overflow point from VAR03
Sample Frequency – Daily during any discharge (not discharging, no samples collected).

Name	Reading	Project Criteria	Date
Cadmium	-	-	
Chromium (hexavalant)	-	-	
Chromium (trivalent)	-	-	
Copper	-	-	
Manganese	-	-	
Nickel	-	-	
PFOS	-	0.13 ug/L	
PFOA	-	220 ug/L	
pH	-	6.5-9	
Selenium	-	-	
Total Suspended solids	-	50mg/L	
Vanadium	-	-	
Zinc	-	8 mg/L	

EPA Identification no. 41 – Monitoring from the attenuation Pond Discharge Pipe
Sample Frequency – Daily during any discharge (not discharging, no samples collected).

Name	Reading	Project Criteria	Date
Cadmium	-	-	
Chromium (hexavalant)	-	-	
Chromium (trivalent)	-	-	
Copper	-	-	
Manganese	-	-	
Nickel	-	-	
PFOS	-	0.13 ug/L	
PFOA	-	220 ug/L	
pH	-	6.5-9	
Selenium	-	-	
Total Suspended solids	-	50mg/L	
Vanadium	-	-	
Zinc	-	8 mg/L	

EPA Identification no. 42 – Monitoring from the Transgrid Outlet Pipe
Sample Frequency – Daily during any discharge (not discharging, no samples collected).

Name	Reading	Project Criteria	Date
Cadmium	-	-	
Chromium (hexavalant)	-	-	
Chromium (trivalent)	-	-	
Copper	-	-	
Manganese	-	-	
Nickel	-	-	
PFOS	-	0.13 ug/L	
PFOA	-	220 ug/L	
pH	-	6.5-9	
Selenium	-	-	
Total Suspended solids	-	50mg/L	
Vanadium	-	-	
Zinc	-	8 mg/L	