

Air Monitoring Data Report

14-Sep-25

The attached report contains the air monitoring data for all the licenced air monitoring points as required by the Environment Protection Licence 10232, for July to August 2025 as part of the reporting period July 2025 - June 2026.

Authorised by:



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Latest Publication Date:14-Sep-25

Monitoring Location No:1

Description:Exit point from Stack 1 to atmosphere

Monitoring Type:Continuous

Environment Protection Licence:10232

Reporting Period:July 2025 to June 2026

Sample Type:Air

Month	Date of publication	Pollutant	Unit of measure	Concentration Limit	Data collected (%)	Lowest value	Highest value	Mean	Compliance (Yes/No)	Comment
July	14-Aug	Flow	Nm3/s	100	100.00	56.76	89.42	80.32	Y	
		Hydrogen chloride	mg/m3	50	100.00	0.00	31.74	1.57	Y	
		Moisture	%	N/A	100.00	0.00	16.89	14.50	N/A	
		Nitrogen Oxides (as NO2)	mg/m3	400	100.00	0.45	193.14	110.81	Y	
		Opacity	%	20	99.65	0.34	60.20	4.18	N	Equipment Issues
		Oxygen (O2)	%	N/A	100.00	2.25	11.45	3.60	N/A	
		Sulphur dioxide (SO2)	mg/m3	250	100.00	0.01	181.76	27.85	Y	
		Temperature	°C	N/A	100.00	117.90	255.73	183.59	N/A	
		TRS (as H2S)	mg/m3	3.6	100.00	0.17	7.80	0.37	Y	Planned Shut Down
August	14-Sep	Flow	Nm3/s	100	100.00	26.78	92.87	80.94	Y	
		Hydrogen chloride	mg/m3	50	100.00	0.00	211.36	1.24	Y	Planned Maintenance
		Moisture	%	N/A	100.00	0.00	60.00	18.50	N/A	
		Nitrogen Oxides (as NO2)	mg/m3	400	100.00	70.46	350.93	158.58	Y	
		Opacity	%	20	99.70	0.50	57.65	3.80	N	Equipment Issues
		Oxygen (O2)	%	N/A	100.00	0.00	22.36	3.52	N/A	
		Sulphur dioxide (SO2)	mg/m3	250	100.00	0.00	481.42	27.33	Y	Planned Maintenance
		Temperature	°C	N/A	100.00	124.57	245.53	187.04	N/A	
		TRS (as H2S)	mg/m3	3.6	100.00	0.07	13.76	0.39	Y	Planned Maintenance



Latest Publication Date:14-Sep-25

Monitoring Location No:1

Description:Exit point from Stack 1 to Atmosphere

Monitoring Type:Grab Sample

Environment Protection Licence:10232

Reporting Period:July 2025 to June 2026

Sample Type:Air

Pollutant	Unit of measure	Concentration		Date of Sample	Date of Report	Report No.	Data	Compliance (Yes/No)	Comment
		Limit	Sampling Freq						
Chlorine	mg/m3	100	Annual						
Sulfuric acid mist & sulfur trioxide (as SO3)	mg/m3	20	Annual						
TCDD (equivalent)	ng/m3	0.1	Annual						
Total Solid Particles	mg/m3	50	1st Qrt						
Total Solid Particles	mg/m3	50	2nd Qrt						
Total Solid Particles	mg/m3	50	3rd Qrt						
Total Solid Particles	mg/m3	50	4th Qrt						
Type 1 and 2 substances	mg/m3	1	Annual						

ND- No Data
N/A- Not Applicable



Latest Publication Date: 14-Sep-25

Monitoring Location No: 2

Description: Discharge duct downstream of Recovery Boiler A prior to junction with Stack 1

Monitoring Type: Continuous

Environment Protection Licence: 10232

Reporting Period: July 2025 to June 2026

Sample Type: Air

Month	Date of publication	Pollutant	Unit of measure	Reporting Level	Data collected (%)	Lowest value	Highest value	Mean	Compliance (Yes/No)	Comment
July	14-Aug	Carbon monoxide (CO)	mg/m3	N/A	100.00	2.90	533.35	47.33	N/A	
		Flow	Nm3/s	N/A	100.00	0.01	98.95	52.41	N/A	
		Moisture	%	N/A	100.00	0.00	27.20	24.42	N/A	
		Nitrogen Oxides (as NO2)	mg/m3	N/A	100.00	66.88	232.89	185.36	N/A	
		Opacity	%	N/A	100.00	0.72	23.66	3.66	N/A	
		Oxygen (O2)	%	N/A	100.00	2.13	16.47	3.58	N/A	
		Temperature	°C	N/A	100.00	91.25	180.18	170.28	N/A	
August	14-Sep	Carbon monoxide (CO)	mg/m3	N/A	100.00	1.53	635.19	53.86	N/A	
		Flow	Nm3/s	N/A	100.00	0.05	98.79	50.15	N/A	
		Moisture	%	N/A	100.00	0.00	27.57	24.58	N/A	
		Nitrogen Oxides (as NO2)	mg/m3	N/A	100.00	58.98	212.31	175.34	N/A	
		Opacity	%	N/A	100.00	0.64	23.34	3.35	N/A	
		Oxygen (O2)	%	N/A	100.00	1.98	15.35	3.62	N/A	
		Temperature	°C	N/A	100.00	161.72	183.23	172.48	N/A	



Latest Publication Date: 14-Sep-25

Monitoring Location No: 2

Environment Protection Licence: 10232

Description: Discharge duct downstream of Recovery Boiler A prior to junction with Stack 1

Reporting Period: July 2025 to June 2026

Monitoring Type: Grab Sample

Sample Type: Air

Pollutant	Unit of measure	Reporting Level	Sampling Freq	Date of Sample	Date of Report	Report No.	Data	Compliance(Yes/No)	Comment
Methanol	mg/m3	N/A	Annual						
Total Solid Particles	mg/m3	N/A	Annual						

ND - No Data
N/A - Not applicable



Latest Publication Date: 14-Sep-25

Monitoring Location No: 3

Environment Protection Licence: 10232

Description: Discharge duct downstream of Power Boiler prior to junction with Stack 1

Reporting Period: July 2025 to June 2026

Monitoring Type: Continuous

Sample Type: Air

Month	Date of publication	Pollutant	Unit of measure	Reporting Level	Data collected (%)	Lowest value	Highest value	Mean	Compliance (Yes/No)	Comment
July	14-Aug	Carbon monoxide (CO)	mg/m3	N/A	99.87	5.58	434.80	36.54	N/A	
		Flow	Nm3/s	N/A	100.00	0.00	73.52	36.60	N/A	
		Moisture	%	N/A	100.00	0.00	32.10	21.45	N/A	
		Nitrogen Oxides (as NO2)	mg/m3	N/A	100.00	0.01	256.88	183.79	N/A	
		Opacity	%	N/A	100.00	2.87	63.47	10.75	N/A	
		Oxygen (O2)	%	N/A	100.00	1.42	21.70	5.21	N/A	
		Temperature	°C	N/A	100.00	17.10	224.63	191.31	N/A	
August	14-Sep	Carbon monoxide (CO)	mg/m3	N/A	99.19	12.19	156.39	54.46	N/A	
		Flow	Nm3/s	N/A	100.00	0.03	73.74	37.40	N/A	
		Moisture	%	N/A	100.00	0.00	32.81	21.84	N/A	
		Nitrogen Oxides (as NO2)	mg/m3	N/A	100.00	44.01	269.62	176.04	N/A	
		Opacity	%	N/A	100.00	1.53	32.45	8.98	N/A	
		Oxygen (O2)	%	N/A	100.00	0.91	13.70	4.29	N/A	
		Temperature	°C	N/A	100.00	201.13	223.40	208.97	N/A	



Latest Publication Date: 14-Sep-25

Monitoring Location No: 3

Description: Discharge duct downstream of Power Boiler prior to junction with Stack 1

Monitoring Type: Grab Sample

Environment Protection Licence: 10232

Reporting Period: July 2025 to June 2026

Sample Type: Air

Pollutant	Unit of measure	Concentration Limit	Sampling Freq	Date of Sample	Date of Report	Report No.	Data	Compliance (Yes/No)	Comment
Cadmium	mg/m3	0.06	1st Qrt						Note
Mercury	mg/m3	0.06	1st Qrt						Note
TCDD (equivalent)	ng/m3	0.1	1st Qrt						Note
Type 1 and 2 substances	mg/m3	0.6	1st Qrt						Note
Cadmium	mg/m3	0.06	2nd Qrt						Note
Mercury	mg/m3	0.06	2nd Qrt						Note
TCDD (equivalent)	ng/m3	0.1	2nd Qrt						Note
Total Solid Particles	mg/m3	30	Annual						Note 2
Type 1 and 2 substances	mg/m3	0.6	2nd Qrt						Note
Cadmium	mg/m3	0.06	3rd Qrt						Note
Mercury	mg/m3	0.06	3rd Qrt						Note
TCDD (equivalent)	ng/m3	0.1	3rd Qrt						Note
Type 1 and 2 substances	mg/m3	0.6	3rd Qrt						Note
Cadmium	mg/m3	0.06	4th Qrt						Note
Mercury	mg/m3	0.1	4th Qrt						Note
TCDD (equivalent)	ng/m3	0.1	4th Qrt						Note
Type 1 and 2 substances	mg/m3	0.6	4th Qrt						Note

ND- No Data
N/A- Not Applicable

Note: Quarterly when non-standard fuels are being burnt in the Power Boiler, and not required at other times
Note 2: Concentration Limit only applicable when non-standard fuel is being burnt in the Power Boiler



Latest Publication Date:

14-Sep-25

Monitoring Location No:

4

Description:

Discharge duct downstream of Lime Kiln A
prior to junction with Stack 1

Monitoring Type:

Continuous

Environment Protection Licence:

10232

Reporting Period:

July 2025 to June 2026

Sample Type:

Air

Month	Date of publication	Pollutant	Unit of measure	Reporting Level	Data collected (%)	Lowest value	Highest value	Mean	Compliance (Yes/No)	Comment
July	14-Aug	Carbon monoxide (CO)	mg/m3	N/A	100.00	10.67	5755.90	280.85	N/A	
		Moisture	%	N/A	100.00	0.00	33.75	29.80	N/A	
		Nitrogen Oxides (as NO2)	mg/m3	N/A	100.00	18.13	264.41	188.57	N/A	
		Opacity	%	N/A	100.00	0.03	33.78	9.47	N/A	
		Oxygen (O2)	%	N/A	100.00	0.00	20.57	2.36	N/A	
		Temperature	°C	N/A	100.00	228.90	302.49	267.75	N/A	
August	14-Sep	Carbon monoxide (CO)	mg/m3	N/A	100.00	4.49	8038.76	140.44	N/A	
		Moisture	%	N/A	100.00	0.00	34.05	29.79	N/A	
		Nitrogen Oxides (as NO2)	mg/m3	N/A	100.00	9.40	341.78	193.69	N/A	
		Opacity	%	N/A	100.00	0.00	67.94	10.31	N/A	
		Oxygen (O2)	%	N/A	100.00	0.00	20.88	2.82	N/A	
		Temperature	°C	N/A	100.00	222.67	296.26	266.93	N/A	



Latest Publication Date: 14-Sep-25

Monitoring Location No: 4

Environment Protection Licence: 10232

Reporting Period: July 2025 to June 2026

Description: Discharge duct downstream of Lime Kiln A prior to junction with Stack 1

Monitoring Type: Grab Sample

Sample Type: Air

Pollutant	Unit of measure	Reporting Level	Sampling Freq	Date of Sample	Date of Report	Report No.	Data	Compliance(Yes/No)	Comment
Total Solid Particles	mg/m3	N/A	Annual						

ND - No Data
N/A - Not applicable



Latest Publication Date:		14-Sep-25		Environment Protection Licence:		10232				
Monitoring Location No:		21		Reporting Period:		July 2025 to June 2026				
Description:		Discharge duct downstream of Lime Kiln B prior to junction with Stack 1		Sample Type:		Air				
Monitoring Type:		Continuous								
Month	Date of publication	Pollutant	Unit of measure	Reporting Level	Data collected (%)	Lowest value	Highest value	Mean	Compliance (Yes/No)	Comment
July	14-Aug	Carbon monoxide (CO)	mg/m3	N/A	100.00	0.56	5615.41	160.96	N/A	
		Moisture	%	N/A	100.00	0.00	39.05	30.29	N/A	
		Nitrogen Oxides (as NO2)	mg/m3	N/A	100.00	0.01	831.20	422.68	N/A	
		Opacity	%	N/A	100.00	0.01	90.60	7.07	N/A	
		Oxygen (O2)	%	N/A	100.00	0.00	21.00	2.11	N/A	
		Temperature	°C	N/A	100.00	79.63	421.97	257.69	N/A	
August	14-Sep	Carbon monoxide (CO)	mg/m3	N/A	100.00	0.55	6000.00	213.93	N/A	
		Moisture	%	N/A	100.00	0.00	45.01	30.23	N/A	
		Nitrogen Oxides (as NO2)	mg/m3	N/A	100.00	0.00	677.25	411.81	N/A	
		Opacity	%	N/A	100.00	0.01	90.64	7.94	N/A	
		Oxygen (O2)	%	N/A	100.00	0.00	19.40	2.63	N/A	
		Temperature	°C	N/A	100.00	65.20	447.36	260.19	N/A	



Latest Publication Date:

14-Sep-25

Monitoring Location No:

21

Environment Protection Licence:

10232

Description:

Discharge duct downstream of Lime Kiln B prior to junction with Stack 1

Reporting Period:

July 2025 to June 2026

Monitoring Type:

Grab Sample

Sample Type:

Air

Pollutant	Unit of measure	Sampling Freq	Date of Sample	Date of Report	Report No.	Data	Comment
Total Solid Particles	mg/m3	Annual					

General Note: Limits are not applicable to this monitoring point



Latest Publication Date:14-Sep-25

Monitoring Location No:22

Environment Protection Licence:10232

Description:Exit point from Stack 2 to atmosphere

Reporting Period:July 2025 to June 2026

Monitoring Type:Continuous

Sample Type:Air

Month	Date of publication	Pollutant	Unit of measure	Concentration Limit	Data collected (%)	Lowest value	Highest value	Mean	Compliance (Yes/No)	Comment
July	14-Aug	Flow	Nm3/s	N/A	100.00	0.02	100.00	43.82	N/A	
		Hydrogen chloride	mg/m3	50	100.00	0.10	16.23	0.57	Y	
		Moisture	%	N/A	100.00	14.82	40.28	17.97	N/A	
		Nitrogen Oxides (as NO2)	mg/m3	400	100.00	2.33	270.77	144.93	Y	
		Opacity	%	20	99.62	3.68	28.43	9.28	Y	Auto Calibration
		Oxygen (O2)	%	N/A	100.00	3.87	23.38	5.90	N/A	
		Sulphur dioxide (SO2)	mg/m3	250	100.00	0.00	3.49	0.73	Y	
		Temperature	°C	N/A	100.00	153.96	173.49	165.32	N/A	
		TRS (as H2S)	mg/m3	3.6	100.00	0.24	1.19	0.95	Y	
August	14-Sep	Flow	Nm3/s	100	100.00	0.01	100.00	44.02	N/A	
		Hydrogen chloride	mg/m3	50	99.87	0.11	32.74	0.58	Y	
		Moisture	%	N/A	100.00	7.77	40.12	17.82	N/A	
		Nitrogen Oxides (as NO2)	mg/m3	400	100.00	29.77	199.86	126.89	Y	
		Opacity	%	20	99.68	3.01	28.58	9.03	Y	Auto Calibration
		Oxygen (O2)	%	N/A	100.00	3.65	23.14	5.74	N/A	
		Sulphur dioxide (SO2)	mg/m3	250	100.00	0.35	5.66	0.65	Y	
		Temperature	°C	N/A	100.00	152.69	172.39	163.37	N/A	
		TRS (as H2S)	mg/m3	3.6	100.00	0.31	1.77	1.05	Y	



Latest Publication Date:

14-Sep-25

Monitoring Location No:

22

Description:

Exit point from Stack 2 to atmosphere

Monitoring Type:

Grab Sample

Environment Protection Licence:

10232

Reporting Period:

July 2025 to June 2026

Sample Type:

Air

Pollutant	Unit of measure	Concentration		Sampling Freq	Date of Sample	Date of Report	Report No.	Data	Compliance (Yes/No)	Comments
		Limit								
Chlorine	mg/m3	100		Annual						
Sulfuric acid mist & sulfur trioxide (as SO3)	mg/m3	20		Annual						
TCDD (equivalent)	ng/m3	0.1		Annual						
Total Solid Particles	mg/m3	50		1st Qrt						
Total Solid Particles	mg/m3	50		2nd Qrt						
Total Solid Particles	mg/m3	50		3rd Qrt						
Total Solid Particles	mg/m3	50		4th Qrt						
Type 1 and 2 substances	mg/m3	1		Annual						

ND- No Data
N/A- Not Applicable