



# MURROW AD PLANT LTD PERMIT VARIATION APPLICATION MARCH 2023

## List of Emissions Points

Prepared for  
Murrow AD Plant Ltd

# REPORT SCHEDULE

**Client:** Murrow AD Plant Ltd

**Project Title:** Murrow AD Plant Permit Variation Application

**Document Title:** List of Emissions Points

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## Revision History

DATE OF REVISION	NEW VERSION	REASON FOR CHANGE	APPROVED
12.02.24	V2.0 FINAL	Update application at duly making due to change scope of variation	Murrow AD Plant Ltd. 16.02.24

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# 1. FORM PART C3

## 1.1. List of Emission Points

1.1.1. Application Form C3 Section 2 requires that all emissions to air, water and land are listed. Table 2 below provides the list of emissions as required. All emissions points referred to are shown on CB2107-05 – site layout, permit boundary and emissions point plan.

**Table 2- Emissions (releases)**

Emission Point Reference and Location	Source	Parameter	Quantity	Unit
<b>Point source emission to air</b>				
<b>A1</b> Flare	Emergency Flare	Oxides of Nitrogen	≤ 150 hourly average	mg/m <sup>3</sup>
		Carbon Monoxide	≤ 50 hourly average	mg/m <sup>3</sup>
		Total VOC's	≤ 10 hourly average	mg/m <sup>3</sup>
<b>A2</b> - Unused	-	-	-	-
<b>A3a</b> CHP Engine Exhaust Stack	CHP Engine	Oxides of Nitrogen	≤ 500 hourly average	mg/m <sup>3</sup>
		Carbon Monoxide	≤ 1400 hourly average	mg/m <sup>3</sup>
		Sulphur Dioxide	≤ 107hourly average	mg/m <sup>3</sup>
		Volatile Organic Compounds	No limit set	-
<b>A3b</b> CHP Engine Exhaust Stack	CHP Engine	Oxides of Nitrogen	≤ 500 hourly average	mg/m <sup>3</sup>
		Carbon Monoxide	≤ 1400 hourly average	mg/m <sup>3</sup>
		Sulphur Dioxide	≤ 107 hourly average	mg/m <sup>3</sup>
		Volatile Organic Compounds	No limit set	-
<b>A3c</b> CHP Engine Exhaust Stack	CHP Engine	Oxides of Nitrogen	≤ 500 hourly average	mg/m <sup>3</sup>

Emission Point Reference and Location	Source	Parameter	Quantity	Unit
		Carbon Monoxide	≤ 1400 hourly average	mg/m <sup>3</sup>
		Sulphur Dioxide	≤ 107 hourly average	mg/m <sup>3</sup>
		Volatile Organic Compounds	No limit set	-
<b>A3d</b> CHP Engine Exhaust Stack	CHP Engine	Oxides of Nitrogen	≤ 500 hourly average	mg/m <sup>3</sup>
		Carbon Monoxide	≤ 1400 hourly average	mg/m <sup>3</sup>
		Sulphur Dioxide	≤ 107 hourly average	mg/m <sup>3</sup>
		Volatile Organic Compounds	No limit set	-
<b>A4</b> Biogas Upgrading Unit CO <sub>2</sub> vent	Biogas Upgrading Unit	CO <sub>2</sub> and trace VOC's/H <sub>2</sub> S	No limit set	-
<b>A5</b> CO <sub>2</sub> Recovery Unit Emergency Pressure Relief Valve	Emergency vent from CO <sub>2</sub> recovery plant	CO <sub>2</sub> undergoing recovery	No limit set	-
<b>A6</b> Backup Diesel Generator Exhaust Stack	Exhaust stack emergency generator	Exhaust gases – emergency use only	No limit set	-
<b>A7a – A7f</b> Emergency Under/Over Pressure Relief Valves on Digesters	Biogas stored in digester roof stores	Biogas stored in digester roof stores	Time in use recorded	Minutes in use
<b>A8</b> Displaced Air Vent – Liquid Feedstock Reception Tank	Liquid feed reception tank	Displaced air - odour	No limit set	-
<b>A9</b> ROV Switch Emergency Pressure Relief Valve	Remote operable valve (ROV) for upgraded biomethane	Upgraded biomethane	No limit set	-
<b>A10</b> Emergency Pressure Relief Valve LNG Flogas Tank	Flogas Tanks	Liquified Natural Gas (LNG)	No limit set	-
<b>A11</b> Emergency Pressure Relief Valve LNG (liquified natural gas) Flogas Tank	Flogas Tanks	Liquified Natural Gas (LNG)	No limit set	-

Emission Point Reference and Location	Source	Parameter	Quantity	Unit
<b>A12</b> Emergency Pressure Relief Valve LNG Flogas Tank	Flogas Tanks	Liquified Natural Gas (LNG)	No limit set	-
<b>Point Source Emissions to Water (other than sewers)</b>				
<b>W1</b> Discharge of Clean Surface Water	Clean concrete areas and roadways	Clean surface water	No limit set	Visible oil and grease
<b>W2</b> Discharge of Clean Surface Water Batch Following Test and Release	Clean concrete areas and roadways	Clean surface water	No limit set	See test and release procedure outlined in CB2107-11
<b>W3</b> Discharge of Clean Surface Water Batch Following Test and Release	Clean concrete areas and roadways	Clean surface water	No limit set	See test and release procedure outlined in CB2107-11
<b>Point source emissions to sewers, effluent treatment plants, or other transfers off site</b>				
None Present				
<b>Point Source Emissions to Land</b>				
None Present				

