

Lucas Heights 2
 Licence Number: 6345
 Licence Holder: EDL LFG (NSW) PTY LTD
 Licensee Address: Lucas Heights 2
 Testing Year 2025
 Testing Required Points 1, 4, 9, 10 and 21
 Tesing Frequency



Engines (1-20) and the Flare are required to be tested once every 5 years. The Gas Supply Line is required to be tested whenever engines are also tested.

Location of Monitoring Point	Sampled	Obtained	Published	Pollutant	Units of Measure	No. Samples Required by Licence	No. Samples collected and Analysed	Value	Licence Limit	Exceedance (Yes/No)
Discharge & Monitoring Point 1 Air emissions monitoring Discharge to air, Gas engine exhaust stack labelled "G101" on drawing number 840-BA-060, Rev 1	26/03/25	28/04/25	1/05/25	Carbon dioxide	%	1	1	11.67		
	26/03/25	28/04/25	1/05/25	Carbon monoxide	mg/m ³	1	1	862		
	26/03/25	28/04/25	1/05/25	Dry gas density	Kg/m ³	1	1	1.35		
	26/03/25	28/04/25	1/05/25	Moisture content	%	1	1	14.9		
	26/03/25	28/04/25	1/05/25	Molecular weight of stack gases	g/g mol	1	1	30.17		
	26/03/25	28/04/25	1/05/25	Nitrogen Oxides (as NO2) (Corrected @7%)	mg/m ³	1	1	300	450	No
	26/03/25	28/04/25	1/05/25	Oxygen	%	1	1	7.54		
	26/03/25	28/04/25	1/05/25	Sulfuric acid mist and sulphur trioxide (as SO3) (Corrected @7%)	mg/m ³	1	1	21	100	No
	26/03/25	28/04/25	1/05/25	Sulphur dioxide	mg/m ³	1	1	11.4		
	26/03/25	28/04/25	1/05/25	Temperature	°C	1	1	502		
	26/03/25	28/04/25	1/05/25	Velocity	m/s	1	1	39.6		
	26/03/25	28/04/25	1/05/25	Volumetric flowrate	m ³ /s	1	1	1.48		
Discharge & Monitoring Point 4 Air emissions monitoring Discharge to air, Gas engine exhaust stack labelled "G104" on drawing number 840-BA-060, Rev 1	26/03/25	28/04/25	1/05/25	Carbon dioxide	%	1	1			
	26/03/25	28/04/25	1/05/25	Carbon monoxide	mg/m ³	1	1			
	26/03/25	28/04/25	1/05/25	Dry gas density	Kg/m ³	1	1			
	26/03/25	28/04/25	1/05/25	Moisture content	%	1	1			
	26/03/25	28/04/25	1/05/25	Molecular weight of stack gases	g/g mol	1	1			
	26/03/25	28/04/25	1/05/25	Nitrogen Oxides (as NO2) (Corrected @7%)	mg/m ³	1	1		450	No
	26/03/25	28/04/25	1/05/25	Oxygen	%	1	1			
	26/03/25	28/04/25	1/05/25	Sulfuric acid mist and sulphur trioxide (as SO3) (Corrected @7%)	mg/m ³	1	1		100	No
	26/03/25	28/04/25	1/05/25	Sulphur dioxide	mg/m ³	1	1			
	26/03/25	28/04/25	1/05/25	Temperature	°C	1	1			
	26/03/25	28/04/25	1/05/25	Velocity	m/s	1	1			
	26/03/25	28/04/25	1/05/25	Volumetric flowrate	m ³ /s	1	1			
Discharge & Monitoring Point 9 Air emissions monitoring Discharge to air, Gas engine exhaust stack labelled "G109" on drawing number 840-BA-060, Rev 1	26/03/25	28/04/25	1/05/25	Carbon dioxide	%	1	1	12.57		
	26/03/25	28/04/25	1/05/25	Carbon monoxide	mg/m ³	1	1	1158		
	26/03/25	28/04/25	1/05/25	Dry gas density	Kg/m ³	1	1	1.36		
	26/03/25	28/04/25	1/05/25	Moisture content	%	1	1	10.8		
	26/03/25	28/04/25	1/05/25	Molecular weight of stack gases	g/g mol	1	1	30.28		
	26/03/25	28/04/25	1/05/25	Nitrogen Oxides (as NO2) (Corrected @7%)	mg/m ³	1	1	4442	450	No
	26/03/25	28/04/25	1/05/25	Oxygen	%	1	1	6.67		
	26/03/25	28/04/25	1/05/25	Sulfuric acid mist and sulphur trioxide (as SO3) (Corrected @7%)	mg/m ³	1	1	29	100	No
	26/03/25	28/04/25	1/05/25	Sulphur dioxide	mg/m ³	1	1	8.4		
	26/03/25	28/04/25	1/05/25	Temperature	°C	1	1	514		
	26/03/25	28/04/25	1/05/25	Velocity	m/s	1	1	42.1		
	26/03/25	28/04/25	1/05/25	Volumetric flowrate	m ³ /s	1	1	1.62		
Discharge & Monitoring Point 10 Air emissions monitoring Discharge to air, Gas engine exhaust stack labelled "G110" on drawing number 840-BA-060, Rev 1	26/03/25	28/04/25	1/05/25	Carbon dioxide	%	1	1	11.66		
	26/03/25	28/04/25	1/05/25	Carbon monoxide	mg/m ³	1	1	1640		
	26/03/25	28/04/25	1/05/25	Dry gas density	Kg/m ³	1	1	1.36		
	26/03/25	28/04/25	1/05/25	Moisture content	%	1	1	13.2		
	26/03/25	28/04/25	1/05/25	Molecular weight of stack gases	g/g mol	1	1	30.16		
	26/03/25	28/04/25	1/05/25	Nitrogen Oxides (as NO2) (Corrected @7%)	mg/m ³	1	1	407	450	No
	26/03/25	28/04/25	1/05/25	Oxygen	%	1	1	7.35		
	26/03/25	28/04/25	1/05/25	Sulfuric acid mist and sulphur trioxide (as SO3) (Corrected @7%)	mg/m ³	1	1	16	100	No
	26/03/25	28/04/25	1/05/25	Sulphur dioxide	mg/m ³	1	1	9.34		
	26/03/25	28/04/25	1/05/25	Temperature	°C	1	1	516		
	26/03/25	28/04/25	1/05/25	Velocity	m/s	1	1	44.1		
	26/03/25	28/04/25	1/05/25	Volumetric flowrate	m ³ /s	1	1	1.66		
Discharge and Monitoring Point 21, Gas Supply Monitoring, LFG Supply Line to gas engines labelled 'LFG SUPPLY LINE' on drawing 840-BA-048, Rev A	27/03/25	28/04/25	1/05/25	Carbon dioxide	%	1	1	40		
	27/03/25	28/04/25	1/05/25	Dry gas density	mg/m ³	1	1	1.25		
	27/03/25	28/04/25	1/05/25	Moisture content	%	1	1	3.84		
	27/03/25	28/04/25	1/05/25	Molecular weight of stack gases	g/g mol	1	1	27.72		
	27/03/25	28/04/25	1/05/25	Oxygen	%	1	1	0.9		
	27/03/25	28/04/25	1/05/25	Temperature	°C	1	1	55		
	27/03/25	28/04/25	1/05/25	Velocity	m/s	1	1	31		
	27/03/25	28/04/25	1/05/25	Volatile organic compounds (as N-propane)	mg/m ³	1	1	576		
	27/03/25	28/04/25	1/05/25	Volumetric flowrate	m ³ /s	1	1	2.2		

Change Log:

NA