

Lucas Heights 2  
 Licence Number: 6345  
 Licence Holder: EDL LFG (NSW) PTY LTD  
 Licensee Address: Lucas Heights 2  
 Testing Year  
 Testing Required  
 Testing 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 and Monitoring Point 2, Discharge to air, Gas engine exhaust stack labelled 'G102' on drawing number 840-BA-048, Rev A	17/03/22	12/05/22	12/05/22	Carbon dioxide	%	1	1	11.7		
	17/03/22	12/05/22	12/05/22	Carbon monoxide	mg/m <sup>3</sup>	1	1	1800		
	17/03/22	12/05/22	12/05/22	Dry gas density	Kg/m <sup>3</sup>	1	1	1.35		
	17/03/22	12/05/22	12/05/22	Moisture content	%	1	1	12		
	17/03/22	12/05/22	12/05/22	Molecular weight of stack gases	g/g mol	1	1	30.3		
	17/03/22	12/05/22	12/05/22	Nitrogen Oxides (as NO2) (Corrected @7%)	mg/m <sup>3</sup>	1	1	320	450	
	17/03/22	12/05/22	12/05/22	Oxygen	%	1	1	7.8		
	17/03/22	12/05/22	12/05/22	Sulfuric acid mist and sulphur trioxide (as SO3) (Corrected @7%)	mg/m <sup>3</sup>	1	1	68	100	No
	17/03/22	12/05/22	12/05/22	Sulphur dioxide	mg/m <sup>3</sup>	1	1	<6		
	17/03/22	12/05/22	12/05/22	Temperature	°C	1	1	546		
	17/03/22	12/05/22	12/05/22	Velocity	m/s	1	1	46		
	17/03/22	12/05/22	12/05/22	Volumetric flowrate	m <sup>3</sup> /s	1	1	1.1		
Discharge and Monitoring Point 5, Discharge to air, Gas engine exhaust stack labelled 'G105' on drawing number 840-BA-048, Rev A	17/03/22	12/05/22	12/05/22	Carbon dioxide	%	1	1	12		
	17/03/22	12/05/22	12/05/22	Carbon monoxide	mg/m <sup>3</sup>	1	1	960		
	17/03/22	12/05/22	12/05/22	Dry gas density	Kg/m <sup>3</sup>	1	1	1.35		
	17/03/22	12/05/22	12/05/22	Moisture content	%	1	1	11		
	17/03/22	12/05/22	12/05/22	Molecular weight of stack gases	g/g mol	1	1	30.3		
	17/03/22	12/05/22	12/05/22	Nitrogen Oxides (as NO2) (Corrected @7%)	mg/m <sup>3</sup>	1	1	420	450	No
	17/03/22	12/05/22	12/05/22	Oxygen	%	1	1	7.4		
	17/03/22	12/05/22	12/05/22	Sulfuric acid mist and sulphur trioxide (as SO3) (Corrected @7%)	mg/m <sup>3</sup>	1	1	7.4	100	No
	17/03/22	12/05/22	12/05/22	Sulphur dioxide	mg/m <sup>3</sup>	1	1	<6		
	17/03/22	12/05/22	12/05/22	Temperature	°C	1	1	505		
	17/03/22	12/05/22	12/05/22	Velocity	m/s	1	1	46		
	17/03/22	12/05/22	12/05/22	Volumetric flowrate	m <sup>3</sup> /s	1	1	1.2		
Discharge and Monitoring Point 7, Discharge to air, Gas engine exhaust stack labelled 'G107' on drawing number 840-BA-048, Rev A	17/03/22	12/05/22	12/05/22	Carbon dioxide	%	1	1	12		
	17/03/22	12/05/22	12/05/22	Carbon monoxide	mg/m <sup>3</sup>	1	1	970		
	17/03/22	12/05/22	12/05/22	Dry gas density	Kg/m <sup>3</sup>	1	1	1.35		
	17/03/22	12/05/22	12/05/22	Moisture content	%	1	1	11		
	17/03/22	12/05/22	12/05/22	Molecular weight of stack gases	g/g mol	1	1	30.3		
	17/03/22	12/05/22	12/05/22	Nitrogen Oxides (as NO2) (Corrected @7%)	mg/m <sup>3</sup>	1	1	430	450	No
	17/03/22	12/05/22	12/05/22	Oxygen	%	1	1	7.4		
	17/03/22	12/05/22	12/05/22	Sulfuric acid mist and sulphur trioxide (as SO3) (Corrected @7%)	mg/m <sup>3</sup>	1	1	7.9	100	No
	17/03/22	12/05/22	12/05/22	Sulphur dioxide	mg/m <sup>3</sup>	1	1	<6		
	17/03/22	12/05/22	12/05/22	Temperature	°C	1	1	534		
	17/03/22	12/05/22	12/05/22	Velocity	m/s	1	1	48		
	17/03/22	12/05/22	12/05/22	Volumetric flowrate	m <sup>3</sup> /s	1	1	1.2		
Discharge and Monitoring Point 11, Discharge to air, Gas engine exhaust stack labelled 'G111' on drawing number 840-BA-048, Rev A	17/03/22	12/05/22	12/05/22	Carbon dioxide	%	1	1	11.6		
	17/03/22	12/05/22	12/05/22	Carbon monoxide	mg/m <sup>3</sup>	1	1	1400		
	17/03/22	12/05/22	12/05/22	Dry gas density	Kg/m <sup>3</sup>	1	1	1.35		
	17/03/22	12/05/22	12/05/22	Moisture content	%	1	1	12		
	17/03/22	12/05/22	12/05/22	Molecular weight of stack gases	g/g mol	1	1	30.3		
	17/03/22	12/05/22	12/05/22	Nitrogen Oxides (as NO2) (Corrected @7%)	mg/m <sup>3</sup>	1	1	450	450	No
	17/03/22	12/05/22	12/05/22	Oxygen	%	1	1	8.1		
	17/03/22	12/05/22	12/05/22	Sulfuric acid mist and sulphur trioxide (as SO3) (Corrected @7%)	mg/m <sup>3</sup>	1	1	1.9	100	No
	17/03/22	12/05/22	12/05/22	Sulphur dioxide	mg/m <sup>3</sup>	1	1	<6		
	17/03/22	12/05/22	12/05/22	Temperature	°C	1	1	555		
	17/03/22	12/05/22	12/05/22	Velocity	m/s	1	1	42		
	17/03/22	12/05/22	12/05/22	Volumetric flowrate	m <sup>3</sup> /s	1	1	1		
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	17/03/22	12/05/22	12/05/22	Carbon dioxide	%	1	1	35		
	17/03/22	12/05/22	12/05/22	Dry gas density	mg/m <sup>3</sup>	1	1	1.21		
	17/03/22	12/05/22	12/05/22	Moisture content	%	1	1	3.2		
	17/03/22	12/05/22	12/05/22	Molecular weight of stack gases	g/g mol	1	1	27.2		
	17/03/22	12/05/22	12/05/22	Oxygen	%	1	1	1.4		
	17/03/22	12/05/22	12/05/22	Temperature	°C	1	1	67		
	17/03/22	12/05/22	12/05/22	Velocity	m/s	1	1	50		
	17/03/22	12/05/22	12/05/22	Volatile organic compounds	mg/m <sup>3</sup>	1	1	680		
Discharge and Monitoring Point 22, Discharge to air, Landfill gas flare labelled 'Flare' on drawing number 840-BA-048, Rev A	25/03/2022	12/05/22	12/05/22	Temperature	Degrees Celsius	1	1	861	Lower limit 760	No
	25/03/2022	12/05/22	12/05/22	Volumetric flowrate	m <sup>3</sup> /s	1	1	18		No
	25/03/2022	12/05/22	12/05/22	Residence time	s	1	1	0.9	Lower limit 0.6	