

Jacks Gully Power Station

Licence Number: 10021

Licence Holder: EDL LFG (NSW) PTY LTD

Licencee Address: Jacks Gully Waste Management Centre, Richardson Road, Mount Annan NSW 2567

Testing year: 2018

Testing Required: Once every 5 years test Engine 1 and 2, Landfill Gas Supply Line and Flare

Location of Monitoring Point	Sampled	Obtained	Published	Frequency	Pollutant	Units of Measure	Licence Limit	No. Samples Required by Licence	No. Samples you collected and Analysed	Value	Exceedance (Yes/No)
Discharge and Monitoring Point 1, Gas engine exhaust stack labelled "gas engine" on drawing number 874-BA-001 Rev 5	27/03/2018	18/06/2018	27/06/2018	Once every 5 years Monitoring Point 1 and 2 must be sampled at the same time	Carbon dioxide	%		1	1	12.4	
					Carbon monoxide	mg/m3		1	1	971.791	
					Dry gas density	kg/m3		1	1	1.351	
					Moisture Content	%		1	1	6.23	
					Molecular weight of stack gases in engine exhaust	g/g-mole		1	1	30.3	
					Nitrogen Oxides	mg/m3	≤ 450	1	1	357.983	No
					Oxygen (O2)	%		1	1	7.03	
					Sulfuric acid mist and sulfur trioxide (as SO3)	mg/m3	≤ 100	1	1	73.3	No
					Sulphur dioxide	mg/m3		1	1	11.038	
					Temperature	°C		1	1	550	
					Velocity	m/s		1	1	48.7	
Volumetric flowrate	m3/s		1	1	1.07						
Destruction Efficiency	%	≥ 98%	0	1	99.4						
Discharge and Monitoring Point 2, Landfill gas supply line labelled "gas supply line" on drawing number 874-BA-001 Rev 5	27/03/2018	18/06/2018	27/06/2018	Once every 5 years Monitoring Point 1 and 2 must be sampled at the same time	Carbon dioxide	%		1	1	27.5	
					Dry gas density	kg/m3		1	1	1.449	
					Moisture Content	%		1	1	16	
					Molecular weight of stack gases in gas supply line	g/g-mole		1	1	32.5	
					Oxygen (O2)	%		1	1	1.4	
					Temperature	°C		1	1	50	
					Velocity	m/s		1	1	2.556	
					Volatile organic compounds (as n-propane)	mg/m3		1	1	0.211	
Volumetric flowrate	m3/s		1	1	0.135						
Discharge and Monitoring Point 3, Landfill gas flare labelled "flare" on drawing number 874-BA-001 Rev 5	27/03/2018	18/06/2018	27/06/2018	Once every 5 years	Temperature	°C	≥ 760	1	1	762	Compliant
					Volumetric flowrate (residence time)	m3/s	≥ 0.6	1	1	0.818	Compliant
Discharge and Monitoring Point 4, Gas engine exhaust stack labelled "generator module 2" on drawing number 874-BA-001 Rev 7	27/03/2018	18/06/2018	27/06/2018	Once every 5 years	Carbon dioxide	%		1	1	10.9	
					Carbon monoxide	mg/m3		1	1	562.24	
					Dry gas density	kg/m3		1	1	1.343	
					Moisture Content	%		1	1	7.2	
					Molecular weight of stack gases in engine exhaust	g/g-mole		1	1	30.1	
					Nitrogen Oxides	mg/m3	≤ 450	1	1	250.273	No
					Oxygen (O2)	%		1	1	8.69	
					Sulfuric acid mist and sulfur trioxide (as SO3)	mg/m3	≤ 100	1	1	51.649	No
					Sulphur dioxide	mg/m3		1	1	14.227	
					Temperature	°C		1	1	500	
					Velocity	m/s		1	1	34.7	
Volumetric flowrate	m3/s		1	1	1.1						
Destruction Efficiency	%	≥ 98%	0	1	99.6						

Change Log

Date	Change
21/07/2020	Updated to clarify gas molecular weight locations
21/07/2020	Corrected spelling of trioxide from triode
27/07/2020	Updated to clarify the required testing frequency, discharge point locations, licence limits, samples required and taken