

Subsurface Gas Results

August 2024

Environment Protection Licence 5897 - Condition M2 - Air Quality - Quarterly Subsurface Gas
City of Newcastle - Summerhill Waste Management Centre
141 Minmi Road, Wallsend, NSW

Parameter		Methane CH ₄	Carbon Dioxide CO ₂	Carbon Monoxide CO	Nitrogen N	Pressure	Oxygen O ₂	Hydrogen Sulfide H ₂ S	Flow Rate
Units:		%	%	%	%	KPa	%	%	L/hr
LOR:		0.1	0.1	0.0001			0.1	0.0001	
CN ID	EPL ID								
SSG15A	67	33.9	31.1	<0.0001	35	0.021	<0.1	<0.0001	0.1
SSG22	87	0.1	5.2	<0.0001	81.7	-0.004	13	<0.0001	<0.1
SSG24	88	<0.1	9.9	<0.0001	83.1	0	7	<0.0001	<0.1
SSG25	89	0.1	15.1	0.0001	82.4	-0.004	2.5	<0.0001	<0.1
SSG26	90	<0.1	1.3	<0.0001	78.6	0.014	20.1	<0.0001	<0.1
SSG27	91	0.4	4.6	<0.0001	81.7	0.004	13.4	<0.0001	<0.1
SSG28	92	<0.1	0.4	<0.0001	79.5	0.023	20	<0.0001	0.2
SSG29	93	24.3	21.5	<0.0001	53.9	0.039	0.2	0.0024	0.1
SSG30	94	<0.1	4.1	0.0001	79.5	0	16.4	<0.0001	<0.1
SSG31	95	<0.1	11.1	<0.0001	83.4	0	5.6	<0.0001	<0.1
SSG32	96	<0.1	4.3	<0.0001	84.8	0.011	10.8	<0.0001	0.1
SSG33	97	0.1	0.1	<0.0001	77.2	0	22.6	<0.0001	<0.1
SSG34	98	<0.1	9	<0.0001	80.1	0.004	10.9	<0.0001	<0.1
SSG35	99	<0.1	3	<0.0001	78.3	-0.054	18.7	<0.0001	<0.1
SSG29B	101	21.4	24.5	0.0003	51.3	0.03	2.8	<0.0001	<0.1
SSG29C	102	<0.1	6.3	0.0002	80.4	-0.026	13.3	<0.0001	-0.2
SSG29D	103	12.8	12.3	0.0001	68.2	0.005	6.6	<0.0001	<0.1
SSG26A	104	0.1	7.7	0.0001	81.9	-0.007	10.3	<0.0001	<0.1
Threshold		1.0% above background ¹ 1.0% ²	1.5 % above background ¹		-	-	-	--	-

Please note the nitrogen concentration is automatically calculated by the instrument.

Sampling date 7 and 8 August 2024, Published date: 19 Sept 2024.

LOR = Limit of reporting of the instrument

CN = City of Newcastle

EPL = Environment Protection Licence

1. NSW EPA Environmental Guidelines for Solid Waste Landfills, 2016.

2. EPL 5897, version date 4 July 2023

A copy of the Environmental Protection Licence can be viewed at: <http://app.epa.nsw.gov.au/prpoeoapp/>

A map showing the location of gas wells can be viewed at: <http://www.newcastle.nsw.gov.au/Living/Waste-recycling/Summerhill-Waste-management-Centre/Environmental-Monitoring-Data>