

Subsurface Gas Results

June 2025

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	40.6	31	<0.0001	28.3	0.009	0.1	<0.0001	<0.1
SSG22	87	<0.1	2.2	<0.0001	77.7	0.003	20.1	<0.0001	<0.1
SSG24	88	<0.1	6.9	<0.0001	80.4	-0.002	12.7	<0.0001	<0.1
SSG25	89	<0.1	14.5	<0.0001	82.6	0.002	2.9	<0.0001	<0.1
SSG26	90	<0.1	1.6	0.0001	80.8	-0.005	17.6	<0.0001	<0.1
SSG27	91	<0.1	4.3	<0.0001	82	0.012	13.7	<0.0001	0.1
SSG28	92	<0.1	0.7	<0.0001	80.6	-0.349	18.7	<0.0001	-1.3
SSG29	93	21.4	14.5	0.0001	61.5	0.04	2.6	0.0052	0.1
SSG30	94	0.5	5.8	0.0001	88.7	0.002	5	<0.0001	<0.1
SSG31	95	0.1	13.5	0.0002	84.5	-0.005	1.9	<0.0001	<0.1
SSG32	96	0.1	3.6	0.0001	84.1	0.03	12.2	<0.0001	<0.1
SSG33	97	<0.1	0.1	<0.0001	79.1	0.002	20.8	<0.0001	<0.1
SSG34	98	0.1	0.1	<0.0001	78.3	-0.007	21.5	0.0001	<0.1
SSG35	99	0.1	0.2	<0.0001	78.6	0.002	21.1	<0.0001	<0.1
SSG29B	101	24.5	22	0.0001	49.5	-0.002	4	<0.0001	<0.1
SSG29C	102	<0.1	5.9	<0.0001	80.9	0.284	13.2	<0.0001	1.2
SSG29D	103	11.8	9.2	<0.0001	70	0.014	9	<0.0001	<0.1
SSG26A	104	<0.1	10.5	<0.0001	82.5	-0.002	7	<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 10 and 11 June 2025, Published date: 20 June 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>