

# Subsurface Gas Results

## November 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 <sub>4</sub>	Carbon Dioxide CO <sub>2</sub>	Carbon Monoxide CO	Nitrogen N	Pressure	Oxygen O <sub>2</sub>	Hydrogen Sulfide H <sub>2</sub> S	Flow Rate
<b>Units:</b>		%	%	%	%	KPa	%	%	L/hr
<b>LOR:</b>		0.1	0.1	0.0001			0.1	0.0001	
CN ID	EPL ID								
SSG15A	67	32.2	30.3	0.0001	37.5	0.002	<0.1	<0.0001	0.1
SSG22	87	<0.1	6.4	0.0001	84.3	0.009	9.3	<0.0001	<0.1
SSG24	88	<0.1	9.5	<0.0001	83.5	-0.005	7	<0.0001	<0.1
SSG25	89	<0.1	12.1	0.0001	82.2	-0.009	5.7	<0.0001	<0.1
SSG26	90	<0.1	0.4	<0.0001	79.4	0.002	20.2	<0.0001	<0.1
SSG27	91	<0.1	2.9	<0.0001	81.2	0.002	15.9	<0.0001	<0.1
SSG28	92	<0.1	0.3	<0.0001	80.1	0.004	19.6	0.0001	<0.1
SSG29	93	22.9	18.7	<0.0001	58.1	-0.063	0.3	0.0049	<0.1
SSG30	94	<0.1	3.1	<0.0001	83.7	0	13.2	<0.0001	<0.1
SSG31	95	<0.1	0.9	0.0001	79	-0.007	20.1	<0.0001	<0.1
SSG32	96	<0.1	0.6	0.0001	80.4	0.002	19	0.0001	<0.1
SSG33	97	<0.1	0.1	<0.0001	79.1	0.004	20.8	<0.0001	<0.1
SSG34	98	0.1	11.7	<0.0001	81.7	0.007	6.5	<0.0001	<0.1
SSG35	99	<0.1	3.4	<0.0001	79.6	0.002	17	<0.0001	<0.1
SSG29B	101	19.6	21.8	0.0002	53.8	0.014	4.8	<0.0001	0.1
SSG29C	102	<0.1	4.6	0.0001	81.5	-0.051	13.9	<0.0001	-0.2
SSG29D	103	9.8	12.7	<0.0001	70.7	0	6.8	<0.0001	<0.1
SSG26A	104	<0.1	4.5	<0.0001	80.5	-0.002	15	<0.0001	<0.1
<b>Threshold</b>		1.0% above background <sup>1</sup> 1.0% <sup>2</sup>	1.5 % above background <sup>1</sup>		-	-	-	--	-

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

Sampling date 13 and 14 November 2024, Published date: 17 December 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>