

Subsurface Gas Results

November 2023

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	30.6	<0.0001	36.4	0.016	0	<0.0001	0.1
SSG22	87	<0.1	9.2	0.0001	85.8	-0.012	5	<0.0001	0.1
SSG24	88	<0.1	9	<0.0001	80.1	0	10.9	<0.0001	0
SSG25	89	<0.1	13.4	<0.0001	80.7	-0.005	7.7	<0.0001	0
SSG26	90	<0.1	2.6	<0.0001	78.7	-0.132	18.7	<0.0001	0
SSG27	91	0.1	1.7	0.0001	77.9	-0.012	20.3	<0.0001	0
SSG28	92	<0.1	0.4	<0.0001	78.6	-3.047	21	<0.0001	-0.3
SSG29	93	31	18.9	0.0001	47.34	-0.028	2.7	0.0017	0.1
SSG30	94	0.1	6	0.0001	86.8	0.005	7.1	<0.0001	0
SSG31	95	<0.1	7.1	<0.0001	84.4	0.01	8.5	<0.0001	0.1
SSG32	96	0.1	2.9	<0.0001	79.2	0.012	17.8	<0.0001	0.1
SSG33	97	<0.1	0	<0.0001	77.4	-0.023	22.6	<0.0001	0.1
SSG34	98	<0.1	11.3	<0.0001	79.7	-0.016	9	<0.0001	0
SSG35	99	<0.1	4	<0.0001	77.2	0.002	18.8	<0.0001	0
SSG29B	101	26.2	25.2	0.0005	46.9	0	1.7	<0.0001	0
SSG29C	102	0.3	5.4	0.0003	79.5	-6.499	14.8	<0.0001	-1.5
SSG29D	103	2.7	2.5	<0.0001	75.6	-0.865	19.2	<0.0001	-0.1
SSG26A	104	<0.1	3.6	0.0003	79.9	-0.005	16.5	<0.0001	0

Threshold	1.0% above background ¹ 1.25% ²	1.5 % above background ¹		-	-	-	--	-
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- Please note the nitrogen concentration is automatically calculated by the instrument.

Sampling date 16, 17 and 21 November 2023. Final data obtained 21/11/23. Published date: 20/12/23.

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 20 March 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>