

Subsurface Gas Results

May 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	34.7	30.2	<0.0001	34.9	0.116	0.2	<0.0001	1.1
SSG22	87	<0.1	4.5	<0.0001	81.9	0.105	13.6	<0.0001	1.1
SSG24	88	<0.1	8.7	<0.0001	82.7	0.13	8.6	<0.0001	1.1
SSG25	89	<0.1	14.9	<0.0001	80.3	0.088	4.8	<0.0001	1
SSG26	90	<0.1	0.5	<0.0001	79.6	0.112	19.9	<0.0001	1
SSG27	91	<0.1	<0.1	<0.0001	79.2	0.109	20.8	<0.0001	1.1
SSG28	92	<0.1	0.4	<0.0001	79.9	0.086	19.7	<0.0001	0.9
SSG29	93	23.6	20.7	<0.0001	54.2	0.109	1.5	<0.0001	1
SSG30	94	<0.1	5.9	<0.0001	92.2	0.091	1.9	<0.0001	1
SSG31	95	<0.1	14.3	<0.0001	84.7	0.109	1	<0.0001	1
SSG32	96	<0.1	3.7	<0.0001	83.1	0.103	13.2	<0.0001	1
SSG33	97	<0.1	<0.1	<0.0001	79.1	0.102	20.9	<0.0001	1
SSG34	98	<0.1	10.6	<0.0001	81.1	0.102	8.3	<0.0001	1.1
SSG35	99	<0.1	3.6	<0.0001	80.5	0.107	15.9	<0.0001	1
SSG29B	101	23	25	<0.0001	49.6	0.103	2.4	<0.0001	1.1
SSG29C	102	66.4	28.7	<0.0001	4.9	-0.012	<0.1	<0.0001	0.6
SSG29D	103	14.3	12.2	<0.0001	68.7	0.1	4.8	<0.0001	0.9
SSG26A	104	<0.1	6.4	<0.0001	82.2	0.09	11.4	<0.0001	1

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

Sampling date 29 May 2024 Published date: 20/06/24.

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>