



**Licence No 4627 Publication of Monitoring Data  
M8 St Peters Interchange –10-16 Albert Street, St Peters**

**Disclaimer:** In NSW, section 66(6) of the Protection of the Environment Operations Act 1997 (POEO Act) requires holders of environment protection licences to make their pollution monitoring data publicly available. Accordingly, the monitoring data below is provided to meet Transport for NSW (TfNSW) obligations under section 66(6) the POEO Act and any associated guidance documentation published by the Environment Protection Authority ([www.epa.nsw.gov.au](http://www.epa.nsw.gov.au)). TfNSW recognises that the intent of section 66(6) of the POEO Act is to improve the general public's access to information about the environmental performance of licensed facilities. To the best of TfNSW's knowledge, the data contained in this document is as accurate as possible. No material in this document is to be reproduced or published elsewhere in any form without TfNSW's prior written consent.

Link to licence on EPA website;

<https://app.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=237009&SYSUID=1&LICID=4627>

**Landfill Gas Monitoring – Subsurface Gas**

**EPL No:** 4627

**Date of Sampling** 31 January, 1, 2, 3 and 9 February 2022

**Date Received** 5 May 2022

**Date of Publication** 24 May 2022

Subsurface landfill gas monitoring is usually a number of measurements taken over time with two events. The first event is initial measurements and the second event is measurements after the air space in the well has been pumped out. The highest measurement in the first (initial) and second (post-purge) events are reported in the following table.

Where the groundwater level is above the well screen the high water level can interfere with the monitoring equipment and no measurement/s can be taken.

Monitoring Point	EPA Identification Number	Frequency	Pollutant									
			Carbon Dioxide (%v/v)		Carbon Monoxide (ppm)		Hydrogen Sulphide (ppm)		Methane (%v/v)		Oxygen (%v/v)	
			Initial	Post Purge	Initial	Post Purge	Initial	Post Purge	Initial	Post Purge	Initial	Post Purge
LDS-GM-001	22	Quarterly	0.3	0.2	8	5	0	0	0	0	9.7	2.2
LDS-GM-002	23	Quarterly	Well destroyed									
LDS-GM-002C		Quarterly	14.5	13.8	1	1	0	0	0.5	0	8.4	10.8
LDS-GM-003A	24	Quarterly	Well destroyed									
LDS-GM-003B	25	Quarterly	Well destroyed									
LDS-GM-003C		Quarterly	13.0	10.2	1	1	0	0	0	0	3.0	3.3

Monitoring Point	EPA Identification Number	Frequency	Pollutant									
			Carbon Dioxide (%v/v)		Carbon Monoxide (ppm)		Hydrogen Sulphide (ppm)		Methane (%v/v)		Oxygen (%v/v)	
			Initial	Post Purge	Initial	Post Purge	Initial	Post Purge	Initial	Post Purge	Initial	Post Purge
LDS-GM-004	26	Quarterly	5.7	5.8	4	2	0	0	3.9	4.1	6.4	0.1
LDS-GM-005	27	Quarterly	6.6	6.5	7	6	1	0	0	0	18.0	14.1
LDS-GM-006A	28	Quarterly	0.1	NR1	1	NR1	0	NR1	0	NR1	20.0	NR1
LDS-GM-006B	29	Quarterly	15.5	NR1	2	NR1	0	NR1	0	NR1	0.3	NR1
LDS-GM-007A	30	Quarterly	High water level in well									
LDS-GM-007B	31	Quarterly	High water level in well									
LDS-GM-008A	32	Quarterly	0.1	NR1	2	NR1	0	NR1	0	NR1	21.1	NR1
LDS-GM-008B	33	Quarterly	High water level in well									
LDS-GM-009C	34	Quarterly	7.9	6.1	22	8	0	0	0	0	17.3	19.9
LDS-GM-009D	35	Quarterly	18.3	9.0	7	4	0	0	0	0	17	16.9
LDS-GM-010A	36	Quarterly	6.7	6.4	5	4	0	0	0	0	19.6	20.1
LDS-GM-010B	37	Quarterly	1.9	1.4	4	4	0	0	0	0	18.6	18.9
LDS-GM-011A	38	Quarterly	0.1	0	1	2	0	0	0	0	15.0	15.0
LDS-GM-012C	39	Quarterly	9.7	11.9	3	2	0	0	0	0	19.4	9.4
LDS-GM-012D	40	Quarterly	12.2	12	1	2	0	0	0	0	18.0	15.3
LDS-GM-013*	41	Quarterly	0.3	NR2	1	NR2	0	NR2	0.9	NR2	18.6	NR2
LDS-GM-014	42	Quarterly	0.6	0.5	0	1	0	0	4.8	4.8	0	0
LDS-GM-015	43	Quarterly	0.4	0.8	1	2	0	0	0.9	0	10.8	10.3
LDS-GM-016	44	Quarterly	3.7	3.8	2	0	0	0	0.1	0	6.6	0
LDS-GM-017	45	Quarterly	1.6	1.6	2	3	0	0	1.9	1.7	3.4	3.3
LDS-GM-018	46	Quarterly	2.8	4.3	3	1	0	0	1.9	0	9.9	4.6

Monitoring Point	EPA Identification Number	Frequency	Pollutant									
			Carbon Dioxide (%v/v)		Carbon Monoxide (ppm)		Hydrogen Sulphide (ppm)		Methane (%v/v)		Oxygen (%v/v)	
			Initial	Post Purge	Initial	Post Purge	Initial	Post Purge	Initial	Post Purge	Initial	Post Purge
LDS-GM-019	47	Quarterly	2.3	2.3	3	0	0	9	2.7	2.3	19.4	0
LDS-GM-020	48	Quarterly	14.6	5.7	2	4	0	0	0	0	13.4	20.7
LDS-GM-021	49	Quarterly	14.5	5.7	2	4	0	0	0	0	13.4	11.5
LDS-GM-022A	50	Quarterly	11.1	14	6	3	1	0	0	0	14.2	4
LDS-GM-023	51	Quarterly	0.1	0	6	5	1	1	0	0	17.9	10.8
LDS-GM-024A	52	Quarterly	3.5	0.5	1	2	0	0	0	0	11.7	18.5
LDS-GM-024B	53	Quarterly	5.6	1.1	4	2	0	0	0.8	0.5	0.5	7.8
LDS-GM-025	54	Quarterly	4.5	4.5	5	4	1	1	0	0	12.9	13.1
LDS-GM-026	55	Quarterly	9.3	8.6	1	0	0	0	0	0	2.8	4.3
LDS-GM-027	56	Quarterly	13.9	13.9	0	0	0	0	0	0	3.2	3.2
LDS-GM-028	57	Quarterly	32.8	33	6	2	0	0	62.1	62	0.2	0
LDS-GM-029	58	Quarterly	8.5	8.6	4	1	0	0	0.6	0.6	4.3	0.1
LDS-GM-030	59	Quarterly	5.6	5.6	2	4	0	0	0	0	14.0	14.1
LDS-BH-10321A	17	Quarterly	0.2	14.9	5	2	0	0	0.8	0.9	15.7	26.0
LDS-BH-10322	18	Quarterly	7.5	4.8	4	4	0	0	0.1	0	5.4	15.0
LDS-BH-10329	19	Quarterly	Well destroyed									
LDS-BH-10329A		Quarterly	25.2	11.0	3	0	0	0	3.7	3.5	7.8	0
LDS-BH-10331	20	Quarterly	7.6	8.1	1	1	0	0	0	0	0	0
LDS-BH-10332	21	Quarterly	7.7	7.7	7	3	1	0	0.2	0.2	0.5	0.1
LDS-GV-48	60	Quarterly	17.7	NR2	12.0	NR2	1.0	NR2	12.4	NR2	7.9	NR2
LDS-GV-49	61	Quarterly	20.2	NR2	12.0	NR2	1	NR2	39.3	NR2	1.8	NR2

Monitoring Point	EPA Identification Number	Frequency	Pollutant									
			Carbon Dioxide (%v/v)		Carbon Monoxide (ppm)		Hydrogen Sulphide (ppm)		Methane (%v/v)		Oxygen (%v/v)	
			Initial	Post Purge	Initial	Post Purge	Initial	Post Purge	Initial	Post Purge	Initial	Post Purge
LDS-GV-50	62	Quarterly	0.9	NR2	5	NR2	2	NR2	0	NR2	19.2	NR2

\*The well LDS-GM-013 has been converted to a passive gas vent – the gas vent methodology of pre-purge results has been include in this table.

**NOTES:**

- EPL - Environment Protection Licence
- %v/v - percentage by volume
- ppm - parts per million
- NR1 - no result 1 – the water level too high to take measurement
- NR2 - gas vent monitoring methodology used – only pre-purge results recorded.

The wells LDS-GM-002, LDS-GM-003A, LDS-GM-003B and LDS-BH-10329 were destroyed before the present monitoring program started in October 2020. Replacement wells LDS-GM-002C and LDS–GM-003C have been installed adjacent to destroyed wells with the same depth and well screens Replacement well LDS-GM-0329A has been installed at an agreed nearby location.