

Coolfog Systems

and

Odour Reduction

Airlabs Environmental Pty Ltd was commissioned to monitor for odour at a waste services facility in Sydney on 6 November 2007. In addition to determining odour concentration, gas samples collected (A) prior to odour control and (B) 45 minutes after odour control using an 'Odour Neutraliser' were analysed for their chemical components.

Operating Conditions	A	B
Compound	Concentration (ppb)	Concentration (ppb)
Acetaldehyde	131	76
Allyl mercaptan	3.2	1.0
Ammonia	61,000	35,000
n-Amyl mercaptan	2.9	<1
n-Butyl amine	180	83
Dibutyl amine	40	26
Diisopropyl amine	260	170
Dimethyl amine	3,200	1,900
Dimethyl sulphide	9.5	6.0
Diphenyl sulphide	0.95	<0.5
Ethyl amine	460	300
Ethyl mercaptan	3.1	1.9
Hydrogen sulphide	210	97
Indole	1.3	0.86
Methyl amine	5,900	3,600
Methyl mercaptan	40	19
n-Propyl mercaptan	4.9	3.1
Skatole	15	12
Thiocresol	7.0	3.2
Triethyl amine	310	190
Trimethyl amine	6.7	4.5

Operating Conditions	A	B
Odour Concentration (OU)	794	371

Odour reduction achieved after 45 minutes – 53.3%

*Odour testing was conducted in accordance with the Australian/New Zealand Standard 4323.3 "Stationary Source Emissions – Part 3: Determination of Odour Concentration by Dynamic Olfactometry". All samples were analysed within 12 hours of sample collection
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Access Environmental Systems

P.O. Box 5165 Brendale Qld 4500 Unit 5/23 Kenworth Place Brendale Qld 4500

Phone: 07) 3881-3262 Fax: 07) 3881-3265

Email: sales@coolfog.com.au www.coolfog.com.au

A.B.N. 39 084 288 120