

ALS Landfill Emissions Report

Client:	Wollongong City Council	Date:	1/11/2017
Site:	Whytes Gully	Sampler(s)	Glenn Davies & Robert Da Lio

Transact / Location	Point	GPS North	GPS East	CH4 Conc (ppm)	Comments
1	1				Current cell no access active landfill
2	1				Current cell no access active landfill
3	1	6184301	298243	1.3	Eastern Arm Old Cell (Grass side)
3	2	6184311	298234	1.3	Eastern Arm Old Cell (Grass side)
3	3	6184323	298230	1.5	Eastern Arm Old Cell (Grass side)
3	4	6184330	298228	1.7	Eastern Arm Old Cell (Grass side)
5	1	6184310	298251	1.6	Eastern Arm Old Cell (Grass side)
5	2	6184318	298247	1.8	Eastern Arm Old Cell (Grass side)
5	3	6184329	298243	1.5	Eastern Arm Old Cell (Grass side)
5	4	6184342	298240	1.8	Eastern Arm Old Cell (Grass side)
7	1	6184431	298269	13.1	Gravel Side - Above current cell
7	2	6184446	298263	19.9	Gravel Side - Above current cell
7	3	6184468	298257	16.8	Gravel Side - Above current cell
7	4	6184492	298250	15.9	Gravel Side - Above current cell
7	5	6184519	298257	9.3	Gravel Side - Above current cell
7	6	6184545	298247	12.3	Gravel Side - Above current cell
7	7	6184565	298243	13.8	Gravel Side - Above current cell

7	8	6184378	298265	5.3	Eastern Arm Old Cell (Grass side)
7	9	6184365	298269	5.2	Eastern Arm Old Cell (Grass side)
7	10	6184352	298275	4.4	Eastern Arm Old Cell (Grass side)
7	11	6184340	298280	16.6	Eastern Arm Old Cell (Grass side)
7	12	6184330	298285	8.4	Eastern Arm Old Cell (Grass side)
7	13	6184315	298283	9.0	Eastern Arm Old Cell (Grass side)
8	1	6184408	298285	8.9	Gravel Side - Above current cell
8	2	6184392	298292	3.5	Gravel Side - Above current cell
8	3	6184376	298300	2.4	Gravel Side - Above current cell
8	4	6184363	298307	2.4	Gravel Side - Above current cell
8	5	6184350	298314	3.0	Gravel Side - Above current cell
8	6	6184336	298320	2.8	Gravel Side - Above current cell
9	1				Eastern Arm Above Current Cell (No access - covered)
10	1	6184690	298327	6.1	
10	2	6184689	298355	6.2	
10	3	6184685	298383	3.4	
10	4	6184684	298427	2.8	
10	5	6184650	298450	3.0	
10	6	6184598	298465	7.8	
10	7	6184548	298456	10.3	
10	8	6184450	298441	13.7	

	10	9	6184449	29400	13.9	
	10	10	6184513	298374	17.2	
	10	11	6184547	298379	30.2	
A		1	6184493	297813	1.8	
A		2	6184497	297788	2.1	
A		3	6184499	297763	2.2	
A		4	6184513	297734	1.8	
B		1				NO ACCESS Construction zone
C		1	6184529	297760	1.8	
C		2	6184545	297804	1.7	
C		3	6184548	297845	1.6	
C		4	6184535	297923	1.7	
C		5	6184528	297963	1.5	
C		6	6184533	297999	1.9	
C		7	6184565	298046	1.9	
C		8	6184582	298097	1.6	
D		3	6184581	297963	1.5	
D		4	6184580	297957	1.6	
D		5	6184577	297937	1.2	
D		6	6184574	297917	1.2	
D		7	6184570	297898	1.0	
D		8	6184567	297882	1.3	

E	1	6184589	297895	2.0	
E	2	6184593	297925	2.0	
E	3	6184595	297957	1.8	
E	4	6184596	297980	1.5	
E	5	6184569	297997	1.6	
E	6	6184598	298027	7.2	
E	7	6184598	298047	1.6	
F	1	6184618	298062	2.4	
F	2	6184627	298037	1.9	
F	3	6184634	297986	2.0	
F	4	6184630	297954	2.1	
F	5	6184625	297921	2.1	
F	6	6184622	297894	2.1	
F	7	6184616	297870	2.0	
F	8	6184604	297844	2.1	Methane Cage
G	1	6184645	297902	2.0	
G	2	6184651	297928	2.0	
G	3	6184660	297949	2.1	
G	4	6184664	297989	1.9	Methane Cage
G	5	6184660	298013	1.7	
G	6	6184665	298038	1.7	
G	7	6184652	298068	1.9	

H	1	6184677	297950	2.1	Methane Cage
H	2	6184676	297966	1.9	
H	3	6184673	298004	1.7	
H	4	6184667	298055	3.6	Methane Cage
H	5	6184649	298113	1.8	
H	6	6184635	298139	8.9	
I	1	6184656	298127	1.4	
I	2	6184667	298095	1.3	
I	3	6184679	298037	1.6	
I	4	6184684	297994	1.5	
I	5	6184686	297945	1.3	
I	6	6184685	297914	1.4	
J	4	6184718	287962	1.7	
J	5	6184714	297939	1.5	
J	6	6184702	287911	2.9	
K	1	6184693	298139	1.6	
K	2				NO ACCESS
K	3				NO ACCESS
K	4				NO ACCESS
K	5				NO ACCESS
K	6				NO ACCESS
L	1				No Access Stockpile Area

M	1	6184763	298123	5.6	
M	2	6184774	298103	35.9	
M	3	6184769	297998	2.0	
M	4	6184758	297993	2.0	
M	5	6184736	297970	1.8	
M	6	6184720	297945	1.8	
N	1				No Access Stockpile Area
SWERF	1	6183995	297994		Locked. No Access.
Weighbridge	1	6184042	297748	1.1	
Crib Room	1	6184168	297974		Demolished
Methane Blank (Pre testing)	1			1.1	Whytes Gully site before main gate
Methane Blank (Post testing)	1			1.0	Whytes Gully site before main gate
GlennGary Cottage	Managers Office	6183896	297954	1.0	
GlennGary Cottage	Front Office	6183896	297954	1.3	
GlennGary Cottage	Meeting Room	6183896	297954	1.1	
GlennGary Cottage	Operations Room	6183896	297954	1.2	
GlennGary Cottage	Kitchen	6183896	297954	0.9	
GlennGary Cottage	Hallway	6183896	297954	1.1	

GlennGary Cottage	Store	6183896	297954	0.9	
GlennGary Cottage	Max reading gardens	6183896	297954	2.0	
181 Reddalls Rd, fenceline adjoining landfill	1	6184607	297846	1.5	
181 Reddalls Rd, Immediate gardens max value	2	6184600	297800	1.6	
181 Reddalls Rd, fenceline adjoining landfill	3	6184580	297760	1.6	
181 Reddalls Rd, Immediate gardens max value	4	6184764	297735	1.5	
181 Reddalls Rd, fenceline adjoining landfill	5	6184520	297698	1.7	
181 Reddalls Rd, Immediate gardens max value	6	6184529	297650	1.9	
181 Reddalls Rd, fenceline adjoining landfill	7	6184500	297640	1.9	
181 Reddalls Rd, Immediate gardens max value	8	6184500	297600	2.2	
Lot 1 Farborough Rd, fenceline adjoining landfill	1	6184554	298380	1.5	
Lot 1 Farborough Rd, fenceline adjoining landfill	2	6184544	298337	1.9	
Lot 1 Farborough Rd, fenceline adjoining landfill	3	6184552	298284	1.8	
Lot 1 Farborough Rd, fenceline adjoining landfill	4	6184591	298231	4.0	
Lot 1 Farborough Rd, fenceline adjoining landfill	5	6184613	298178	3.5	
Lot 1 Farborough Rd, fenceline adjoining landfill	6	6184634	298138	2.8	
Lot 1 Farborough Rd, fenceline adjoining landfill	7	6184647	298107	2.4	
Lot 1 Farborough Rd, fenceline adjoining landfill	8	6184666	298061	2.0	

Lot 1 Farborough Rd, Immediate gardens max value	1			1.9		
Gas monitoring Wells				ppm	%V/V	
LFG MW1	1	6184088	297962	3.5	0.0004	Gas Well Only
LFG MW2	2	6184055	298045	1.4	0.0001	Water/Gas Well
LFG MW3	3	6184062	298198	0.4	0.0000	Gas Well Only
LFG MW4	4	6184093	298257	1.4	0.0001	Water/Gas Well
LFG MW5	5	6184207	298327	2.8	0.0003	Water/Gas Well
LFG MW6	6	6184283	298371	3.2	0.0003	Gas Well Only
LFG MW7	7	6184410	298367	19.6	0.0020	Water/Gas Well
LFG MW8	8	6184408	298369	3.6	0.0004	Gas Well Only
LFG MW9	9	6184465	298370	3.4	0.0003	Gas Well Only
LFG MW10	10	6184492	298344	2.8	0.0003	Gas Well Only
LFG MW11	11	6184503	298294	8.6	0.0009	Gas Well Only
LFG MW12	12	6184511	298232	7.1	0.0007	Gas Well Only