

ALS Landfill Emissions Report

| Client: | Wollongong City Council | | | Date: | 10/12/2015 |
|---------------------|-------------------------|-----------|----------|----------------|---------------------------|
| Site: | Whytes Gully | | | Sampler(s) | Glenn & Aneta |
| Transact / Location | Point | GPS North | GPS East | CH4 Conc (ppm) | Comments |
| 1 | 1 | | | | No access active landfill |
| 1 | 2 | | | | No access active landfill |
| 1 | 3 | | | | No access active landfill |
| 1 | 4 | | | | No access active landfill |
| 1 | 5 | | | | No access active landfill |
| | | | | | |
| 2 | 1 | | | | No access active landfill |
| 2 | 2 | | | | No access active landfill |
| 2 | 3 | | | | No access active landfill |
| 2 | 4 | | | | No access active landfill |
| 2 | 5 | | | | No access active landfill |
| | | | | | |
| 3 | 1 | 6184113 | 298146 | 2.30 | Grass |
| 3 | 2 | 6184132 | 298139 | 4.90 | Grass |
| 3 | 3 | 6184135 | 298148 | 40.20 | Gravel |
| 3 | 4 | 6184180 | 298116 | 12.00 | Gravel |
| 3 | 5 | 6184236 | 298077 | 7.60 | Gravel |
| 3 | 6 | 6184336 | 298068 | 11.70 | Gravel |

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|---|---|---------|--------|------|--------|
| 3 | 7 | 6184347 | 298036 | 3.50 | Gravel |
| | | | | | |
| 4 | 1 | | | | |
| 4 | 2 | | | | |
| 4 | 3 | | | | |
| 4 | 4 | | | | |
| 4 | 5 | | | | |
| 4 | 6 | | | | |
| 4 | 7 | | | | |
| | | | | | |
| 5 | 1 | 6184179 | 298161 | 2.80 | Grass |
| 5 | 2 | 6184158 | 298169 | 4.70 | Grass |
| 5 | 3 | 6184137 | 298178 | 3.80 | Grass |
| 5 | 4 | 6184371 | 298102 | 2.10 | Gravel |
| 5 | 5 | 6184262 | 298124 | 8.10 | Gravel |
| 5 | 6 | 6184226 | 298140 | 9.10 | Gravel |
| | | | | | |
| 6 | 1 | | | | |
| 6 | 2 | | | | |
| 6 | 3 | | | | |
| 6 | 4 | | | | |
| 6 | 5 | | | | |
| 6 | 6 | | | | |

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|----|---|---------|--------|-------|--|
| 6 | 7 | | | | |
| 7 | 1 | 6184196 | 298175 | 7.20 | |
| 7 | 2 | 6184180 | 298180 | 5.80 | |
| 7 | 3 | 6184157 | 298192 | 3.60 | |
| 7 | 4 | 6184136 | 298203 | 4.20 | |
| 7 | 5 | 6184130 | 298205 | 3.30 | |
| 8 | 1 | | | | |
| 8 | 2 | | | | |
| 8 | 3 | | | | |
| 8 | 4 | | | | |
| 8 | 5 | | | | |
| 8 | 6 | | | | |
| 9 | 1 | 6184199 | 298188 | 10.70 | |
| 9 | 2 | 6184179 | 298197 | 4.90 | |
| 9 | 3 | 6184164 | 298204 | 4.20 | |
| 9 | 4 | 6184150 | 298210 | 2.70 | |
| 9 | 5 | 6184137 | 298216 | 23.70 | |
| 10 | 1 | 6184483 | 298201 | 33.80 | |

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|---|----|---|---------|--------|-------|--|
| | 10 | 2 | 6184499 | 298233 | 26.30 | |
| | 10 | 3 | 6184493 | 298266 | 33.00 | |
| | 10 | 4 | 6184491 | 298325 | 3.30 | |
| | 10 | 5 | 6184474 | 298357 | 7.80 | |
| | 10 | 6 | 6184362 | 298360 | 10.20 | |
| | | | | | | |
| A | | 1 | 6184267 | 297900 | 2.30 | |
| A | | 2 | 6184274 | 297874 | 2.70 | |
| A | | 3 | 6184281 | 297852 | 2.00 | |
| A | | 4 | 6184288 | 297815 | 1.80 | |
| A | | 5 | 6184294 | 297770 | 1.60 | |
| A | | 6 | 6184299 | 297713 | 1.50 | |
| A | | 7 | 6184301 | 297687 | 1.60 | |
| A | | 8 | 6184307 | 297646 | 1.10 | |
| | | | | | | |
| B | | 1 | | | | |
| B | | 2 | | | | |
| B | | 3 | | | | |
| B | | 4 | | | | |
| B | | 5 | | | | |
| | | | | | | |
| C | | 1 | 6184346 | 297779 | 3.00 | |

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|---|---|---------|--------|-------|--------------|
| C | 2 | 6184335 | 297856 | 3.60 | |
| C | 3 | 6184339 | 297895 | 13.50 | |
| C | 4 | 6184358 | 297921 | 2.30 | |
| | | | | | |
| D | 1 | 6184328 | 297648 | 1.40 | |
| D | 2 | 6184348 | 297697 | 1.60 | |
| D | 3 | 6184356 | 297743 | 3.30 | |
| D | 4 | 6184377 | 297958 | 4.30 | |
| D | 5 | 6184393 | 298004 | 5.50 | |
| D | 6 | 6184411 | 298050 | 5.90 | |
| D | 7 | 6184377 | 297796 | 1.40 | |
| D | 8 | 6184386 | 297855 | 1.50 | |
| | | | | | |
| E | 1 | 6184402 | 297937 | 1.40 | |
| E | 2 | 6184404 | 297906 | 1.40 | |
| E | 3 | 6184404 | 297876 | 1.30 | Methane Cage |
| E | 4 | 6184402 | 297838 | 1.10 | |
| E | 5 | 6184399 | 297808 | 1.10 | |
| E | 6 | 6184397 | 297789 | 1.00 | |
| E | 7 | 6184397 | 297779 | 1.20 | |
| | | | | | |
| F | 1 | 6184409 | 297735 | 1.10 | Methane Cage |
| F | 2 | 6184426 | 297783 | 1.30 | |

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|---|---|---------|--------|------|--------------|
| F | 3 | 6184429 | 297813 | 1.00 | |
| F | 4 | 6184436 | 297860 | 0.90 | |
| F | 5 | 6184435 | 297904 | 1.30 | |
| F | 6 | 6184433 | 297920 | 1.10 | |
| F | 7 | 6184429 | 297936 | 0.90 | |
| F | 8 | 6184421 | 297956 | 1.00 | |
| | | | | | |
| G | 1 | 6184456 | 297795 | 1.40 | |
| G | 2 | 6184467 | 297840 | 1.40 | |
| G | 3 | 6184468 | 297859 | 1.10 | |
| G | 4 | 6184469 | 297885 | 1.00 | Methane Cage |
| G | 5 | 6184461 | 297915 | 1.00 | |
| G | 6 | 6184456 | 297943 | 0.80 | |
| G | 7 | 6184455 | 297964 | 0.60 | |
| | | | | | |
| H | 1 | 6184456 | 298003 | 2.90 | |
| H | 2 | 6184466 | 297969 | 2.60 | |
| H | 3 | 6184471 | 297950 | 2.50 | Methane cage |
| H | 4 | 6184480 | 297898 | 2.00 | |
| H | 5 | 6184483 | 297864 | 1.70 | |
| H | 6 | 6184484 | 297844 | 1.30 | Methane cage |
| | | | | | |
| I | 1 | 6184492 | 297810 | 3.90 | |

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|---|---|---------|--------|------|--|
| I | 2 | 6184492 | 297845 | 1.40 | |
| I | 3 | 6184490 | 297882 | 1.10 | |
| I | 4 | 6184485 | 297921 | 1.20 | |
| I | 5 | 6184474 | 297972 | 1.50 | |
| I | 6 | 6184457 | 298031 | 2.70 | |
| | | | | | |
| J | 1 | 6184513 | 298034 | 1.80 | |
| J | 2 | 6184518 | 298012 | 2.30 | |
| J | 3 | 6184518 | 297988 | 1.40 | |
| J | 4 | 6184521 | 287875 | 2.00 | |
| J | 5 | 6184522 | 287847 | 3.20 | |
| | | | | | |
| K | 1 | 6184599 | 298058 | 1.50 | |
| K | 2 | 6184579 | 298025 | 3.00 | |
| K | 3 | 6184565 | 297989 | 1.70 | |
| K | 4 | 6184553 | 297962 | 1.40 | |
| K | 6 | 6184546 | 297945 | 2.00 | |
| K | 6 | 6184540 | 297927 | 1.80 | |
| | | | | | |
| L | 1 | 6184614 | 298052 | 1.40 | |
| L | 2 | 6184601 | 298018 | 2.70 | |
| L | 3 | 6184587 | 297985 | 3.20 | |
| L | 4 | 6184573 | 297954 | 1.50 | |

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|-------------|---|---------|--------|-------|--------------------|
| L | 5 | 6184511 | 297818 | 4.80 | |
| L | 6 | 6184524 | 297857 | 2.00 | |
| | | | | | |
| M | 1 | 6184618 | 298048 | 1.50 | |
| M | 2 | 6184609 | 298007 | 1.60 | |
| M | 3 | 6184602 | 297977 | 36.80 | |
| M | 4 | 6184594 | 297950 | 18.40 | |
| M | 5 | 6184571 | 297902 | 4.10 | |
| M | 6 | 6184537 | 297860 | 2.30 | |
| | | | | | |
| N | 1 | 6184560 | 297874 | 2.10 | |
| N | 2 | 6184576 | 297897 | 7.80 | |
| N | 3 | 6184588 | 297916 | 8.90 | |
| N | 4 | 6184606 | 297942 | 13.80 | |
| N | 5 | 6184619 | 297969 | 14.00 | |
| N | 6 | 6184626 | 297991 | 3.00 | |
| | | | | | |
| SWERF | 1 | 6183995 | 297994 | | Locked. No Access. |
| SWERF | 1 | 6184011 | 297961 | | Locked. No Access. |
| | | | | | |
| Weighbridge | 1 | 6184042 | 297748 | 0.60 | |
| | | | | | |
| Crib Room | 1 | 6184168 | 297974 | | Demolished |

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| | | | | | |
| GlennGary Cottage | Managers Office | 6183896 | 297954 | 1.80 | |
| GlennGary Cottage | Front Office | 6183896 | 297954 | 1.30 | |
| GlennGary Cottage | Meeting Room | 6183896 | 297954 | 1.20 | |
| GlennGary Cottage | Operations Room | 6183896 | 297954 | 1.30 | |
| GlennGary Cottage | Kitchen | 6183896 | 297954 | 1.20 | |
| GlennGary Cottage | Hallway | 6183896 | 297954 | 1.40 | |
| GlennGary Cottage | Store | 6183896 | 297954 | 1.20 | |
| GlennGary Cottage | Max reading gardens | 6183896 | 297954 | 1.60 | |
| | | | | | |
| 181 Reddalls Rd, fenceline adjoining landfill | 1 | 6184607 | 297846 | 2.00 | |
| 181 Reddalls Rd, fenceline adjoining landfill | 2 | 6184600 | 297800 | 2.00 | |
| 181 Reddalls Rd, fenceline adjoining landfill | 3 | 6184580 | 297760 | 2.10 | |
| 181 Reddalls Rd, fenceline adjoining landfill | 4 | 6184764 | 297735 | 1.90 | |
| 181 Reddalls Rd, fenceline adjoining landfill | 5 | 6184520 | 297698 | 1.90 | |
| 181 Reddalls Rd, fenceline adjoining landfill | 6 | 6184529 | 297650 | 2.00 | |
| 181 Reddalls Rd, fenceline adjoining landfill | 7 | 6184500 | 297640 | 2.10 | |
| 181 Reddalls Rd, fenceline adjoining landfill | 8 | 6184500 | 297600 | 2.10 | |
| 181 Reddalls Rd, immediate gardens max value | 1 | | | 2.10 | |
| | | | | | |
| Lot 1 Farborough Rd, fenceline adjoining landfill | 1 | 6184554 | 298380 | | |
| Lot 1 Farborough Rd, fenceline adjoining landfill | 2 | 6184544 | 298337 | | |
| Lot 1 Farborough Rd, fenceline adjoining landfill | 3 | 6184552 | 298284 | | |

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| Lot 1 Farborough Rd, fence line adjoining landfill | 4 | 6184591 | 298231 | | | |
| Lot 1 Farborough Rd, fence line adjoining landfill | 5 | 6184613 | 298178 | | | |
| Lot 1 Farborough Rd, fence line adjoining landfill | 6 | 1684634 | 298138 | | | |
| Lot 1 Farborough Rd, fence line adjoining landfill | 7 | 6184647 | 298107 | | | |
| Lot 1 Farborough Rd, fence line adjoining landfill | 8 | 6184666 | 298061 | | | |
| Lot 1 Farborough Rd, Immediate gardens max value | 1 | | | | | |
| | | | | | | |
| Gas monitoring Wells | | | | ppm | %V/V | |
| LFG MW1 | 1 | 6184088 | 297962 | 0.90 | <0.0001 | Gas Well Only |
| LFG MW2 | 2 | 6184055 | 298045 | 2.80 | 0.0003 | Water/Gas Well |
| LFG MW3 | 3 | 6184062 | 298198 | 1.70 | 0.0002 | Gas Well Only |
| LFG MW4 | 4 | 6184093 | 298257 | 2.20 | 0.0002 | Water/Gas Well |
| LFG MW5 | 5 | 6184207 | 298327 | 3.30 | 0.0003 | Water/Gas Well |
| LFG MW6 | 6 | 6184283 | 298371 | 16.30 | 0.0016 | Gas Well Only |
| LFG MW7 | 7 | 6184410 | 298367 | 30.60 | 0.0031 | Water/Gas Well |
| LFG MW8 | 8 | 6184408 | 298369 | 4.20 | 0.0004 | Gas Well Only |
| LFG MW9 | 9 | 6184465 | 298370 | 34.50 | 0.0035 | Gas Well Only |
| LFG MW10 | 10 | 6184492 | 298344 | 6.90 | 0.0007 | Gas Well Only |
| LFG MW11 | 11 | 6184503 | 298294 | 6.70 | 0.0007 | Gas Well Only |
| LFG MW12 | 12 | 6184511 | 298232 | 23.60 | 0.0024 | Gas Well Only |