ASSESSMENT MONITORING

# Landfill Gas Measurements Field Worksheet
# Francis Farm Landfill - Permit #44-03
# Haywood County, North Carolina

| Field Calibration Gas Type & Canister Expiration Date | | |
|---|---|---|
| $CH_4$ | 50% | May-15 |
| $CO_2$ | 35% | May-15 |
| $O_2$ | 4% | Jun-15 |

Name of Person Taking Readings: Randal Siske, Environmental Coordinator
Weather Conditions: Fair 62% Humidity
Gas Monitoring Equipment: Land-Tec GEM 2000+
Factory Calibration Date: March 19, 2014
Pump Rate Flow: 300 cc/min Vacuum: 70 inches $H_20$

Date: October 02, 2014
Ambient Temp: 67° Barometric Pressure: 27.33 Hg
Serial #: 11944
Field Calibration Date/Time : October 02, 2014 1400

| Well ID | Sample Tube Purge (> 60sec) | Stable Reading | Time Pumped (sec) | Time | %LEL | %$CH_4$ | %$CO_2$ | %$O_2$ | Baro Press | Notes: |
|---|---|---|---|---|---|---|---|---|---|---|
| MM-1 | Y | Y | 240 | 17:45:00 PM | 1280.0 | 64.0 | 35.9 | 0.0 | 27.33 | |
| MM-2 | Y | Y | 180 | 17:53:00 PM | 1238.0 | 61.9 | 37.8 | 0.0 | 27.33 | |
| MM-3 | Y | Y | 240 | 18:00:00 PM | 1112.0 | 55.6 | 39.5 | 0.1 | 27.33 | Cover hasp difficult to open/close |
| MM-4 | Y | Y | 360 | 18:11:00 PM | 610.0 | 30.5 | 27.4 | 0.0 | 27.33 | |
| MM-5 | Y | Y | 180 | 18:15:00 PM | 0.0 | 0.0 | 2.7 | 19.0 | 27.33 | |
| MM-6 | Y | Y | 300 | 18:23:00 PM | 276.0 | 13.8 | 12.5 | 0.0 | 27.33 | |
| MM-7 | Y | Y | 240 | 14:47:00 PM | 0.0 | 0.0 | 5.7 | 15.4 | 27.33 | |
| MM-8 | Y | Y | 240 | 14:40:00 PM | 0.0 | 0.0 | 4.3 | 17.5 | 27.33 | |
| MM-9 | Y | Y | 240 | 16:52:00 PM | 0.0 | 0.0 | 3.5 | 18.2 | 27.33 | |
| MM-10 | Y | Y | 240 | 17:01:00 PM | 0.0 | 0.0 | 11.2 | 12.2 | 27.33 | |
| MM-11 | Y | Y | 210 | 17:10:00 PM | 724.0 | 36.2 | 31.2 | 0.1 | 27.33 | |
| MM-12 | Y | Y | 210 | 17:17:00 PM | 1232.0 | 61.6 | 38.2 | 0.1 | 27.33 | |
| MM-13 | Y | Y | 240 | 17:26:00 PM | 0.0 | 0.0 | 11.8 | 9.0 | 27.33 | |
| SM-1a | Y | Y | 120 | 15:00:00 PM | 0.0 | 0.0 | 0.0 | 20.9 | 27.33 | |
| SM-1b | Y | Y | 120 | 14:51:00 PM | 0.0 | 0.0 | 0.0 | 20..8 | 27.33 | Garage door open. |
| SM-1c | Y | Y | 120 | 14:54:00 PM | 0.0 | 0.0 | 0.0 | 20.9 | 27.33 | Garage door open. |
| SM-2 | Y | Y | 120 | 14:34:00 PM | 0.0 | 0.0 | 0.0 | 20.7 | 27.33 | Garage door open. |
| SM-3 | Y | Y | 120 | 15:06:00 PM | 0.0 | 0.0 | 0.0 | 20.9 | 27.33 | |
| MW-12 | Y | Y | 120 | 15:10:0 0 PM | 0.0 | 0.0 | 0.0 | 20.8 | 27.33 | |

Note: If methane gas readings exceed 25% of LEL in structures or 100% of LEL in probes contact Haywood County Solid Waste Director immediatley at 828-400-3544.