
THE COLINAS GROUP, INC.
HYDROGEOLOGISTS & ENGINEERS

August 27, 2014

Mr. Jackey Jackson
Sumter County Public Works
319 East Anderson Avenue
Bushnell, FL 33513

Subj: Sumter County Closed Landfill
Long-Term Care Permit No. 22926-003-SF
WACS Facility ID No. CD/60/53008
August 15, 2014 Gas Migration Monitoring
TCG Project No. P-483

Dear Mr. Jackson:

At the request of the Florida Department of Environmental Protection (FDEP), Central District Office to Sumter County, The Colinas Group, Inc. (TCG) measured and recorded landfill methane gas concentrations at Gas Probes, Gas Vents and existing buildings located throughout the landfill property. Locations of measuring points are shown on attached Figure 1. Gas measurements were recorded on August 15, 2014.

Copies of the Calibration Certificates for the methane monitoring instrument used are attached. The instrument was calibrated both prior to and following the gas survey to verify function.

Ambient air in the Animal Services buildings, old Scale House, Recyclable Storage Area, Equipment and Maintenance Shop, Old Material Recovery building and the new Scale House was tested upon morning opening. All measurements in these buildings and work areas were reported as zero percent methane LEL.

Perimeter Gas Probes (GP-1 through GP-4 and M-1 through M-24) reported zero percent methane LEL. Gas Vents located within the closed waste cell footprint, except for GV-52, reported methane at zero percent of the LEL. Reported methane measurements for Gas Probes, Gas Vents and occupied buildings are shown on Figure 1.

AUG 29 '14 PM 1:00

Five additional gas vents (GV-53 – GV-57) were surveyed for the first time during this monitoring event and also reported zero percent of the LEL for methane.

Two signed and sealed original copies of the report are provided. One copy of this report should be forwarded to:

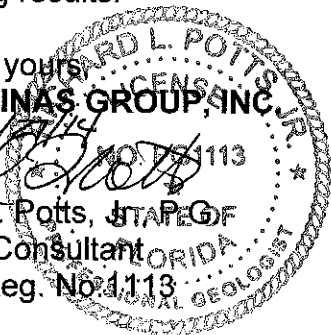
Florida Department of Environmental Protection
Central District Office
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803-3767
Attention: Mr. F. Thomas Lubozynski, P.E.

Please let me know if you have any questions concerning the Gas Migration Monitoring results.

Very truly yours,

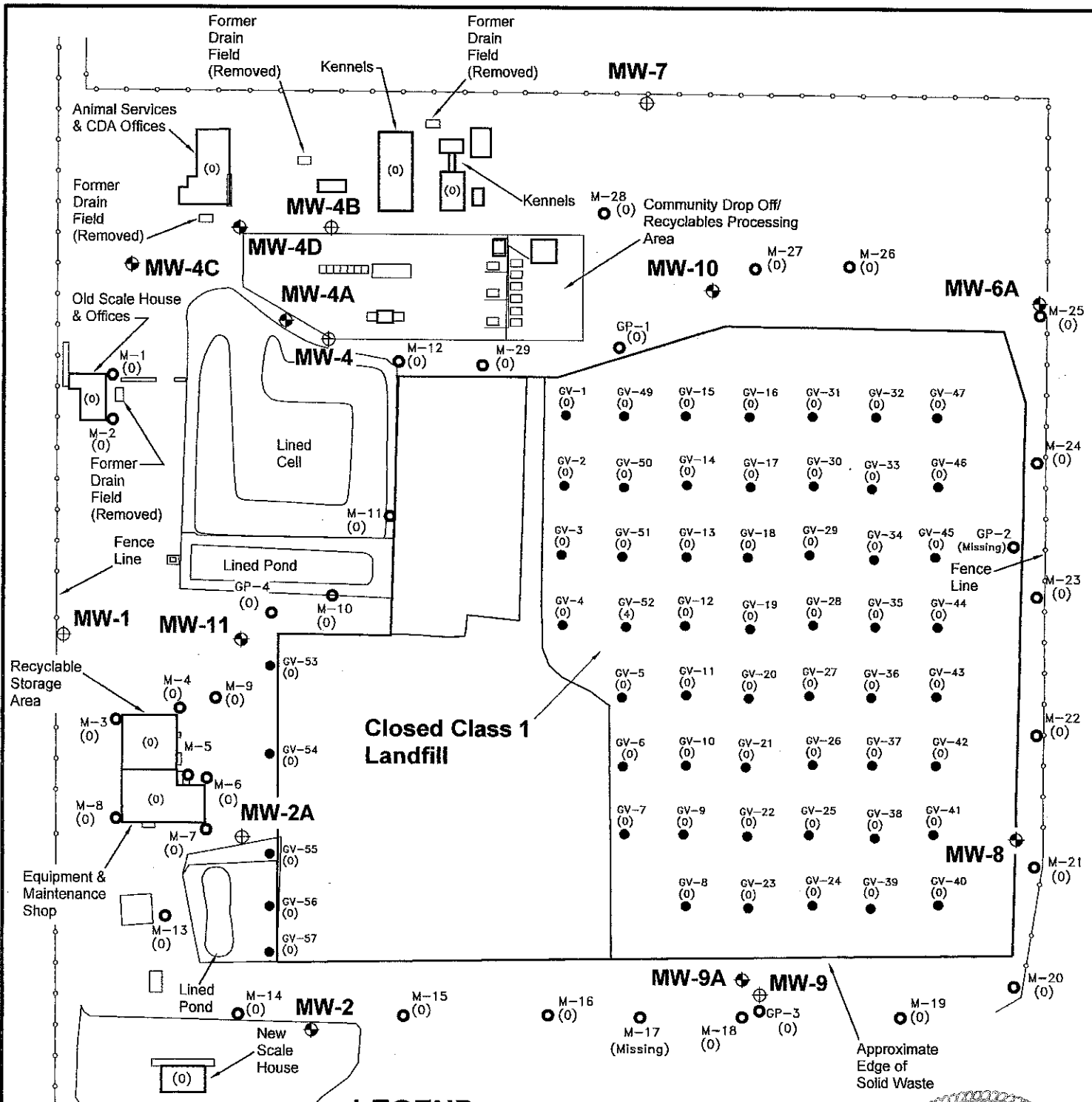
THE COLINAS GROUP, INC.


Richard L. Potts, J.T.A.P.E.G.
Principal Consultant
FL P.G. Reg. No. 1113



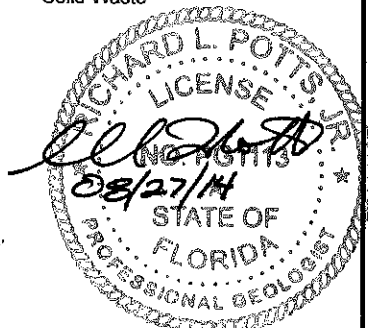
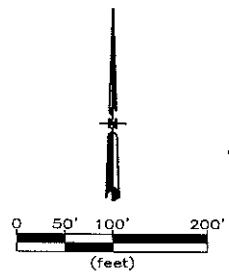
Attachments: Figure 1- August 15, 2014 Gas Migration Monitoring Map
Instrument Calibration Certificates (Cyclone Instruments, Inc.)

cc: Ms. Chris Morrison, Sumter County
Mr. Bob Mackey, P.E., S2L, Inc.



LEGEND

- M-1 (0) Gas Probes and % LEL (8/15/14)
- GV-1 (0) Landfill Gas Vents and % LEL (8/15/14)
- MW-2 (0) Monitor Well Location
- MW-1 (0) Piezometer Location



Note: Result of post monitoring LEL meter calibration check using 50% LEL methane calibration gas: 48% LEL

The Colinas Group, Inc. 377 Maitland Avenue Suite 2012 Altamonte Springs, Florida 32701	PROJ. NO.: P-483	SUMTER COUNTY CLOSED CLASS I LANDFILL AUGUST 15, 2014 LANDFILL GAS MIGRATION MONITORING SUMTER COUNTY, FLORIDA	FIGURE 1
	DATE: AUGUST 2014		
	SCALE: 1" = 200'		

Cyclone Instruments
718 W. Princeton Street
Orlando, FL 32804
(407) 246-7276

CALIBRATION CERTIFICATE

RAE SYSTEMS
QRAE 4 Gas

SERVICE DATE 8-15-14 TECHNICIAN: [Signature]

SERIAL #: 101710 417538 413142 417556

Calibration Gas Standard Used:
Accuracy +/- 1% @ 25 C*
LOT # Expiration date: August 31, 2015

<u>Gas</u>		<u>Instrument reading</u>
Oxygen	20.9	<u>20.9</u>
LEL 2.5 % Methane	50 %	<u>51</u>
Carbon Monoxide	50 ppm	<u>48</u>
Hydrogen Sulfide	25 ppm	<u>24</u>

The calibration results were obtained by following the manufactures standard Calibration Procedures.

All measurement standards are calibrated at scheduled intervals as prescribed by the NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY (NIST) or are measured against certified standards which are traceable to the National Institute of Standards and Technology, formerly the National Bureau of Standards (NBS).

Cyclone Instruments
718 W. Princeton Street
Orlando, FL 32804
(407) 246-7276

CALIBRATION CERTIFICATE

RAE SYSTEMS

QRAE 4 Gas

SERVICE DATE: 9-25-14 TECHNICIAN: [Signature]

SERIAL #: 101710

417538

413142

417556

Calibration Gas Standard Used:

Accuracy +/- 1% @ 25 C*

LOT # Expiration date: August 31, 2015

4:30pm

Gas

Instrument reading

Oxygen	20.9
LEL 2.5 % Methane	50 %
Carbon Monoxide	50 ppm
Hydrogen Sulfide	25 ppm

<u>20.9</u>
<u>48</u>
<u>47</u>
<u>24</u>

The calibration results were obtained by following the manufactures standard Calibration Procedures.

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