DEPARTMENT OF THE ARMY
SAVANNAH DISTRICT, CORPS OF ENGINEERS
P.O. BOX 889
SAVANNAH, GEORGIA 31402-0889

July 14, 2011

REPLY TO
ATTENTION OF:

Environmental and Interagency and International
Services Management Branch

Directorate of Public Works
Environmental Division
Attn: IMSE-BRG-PWE-C (Sid Williamson)
Bldg. 3-1137 Butner Road
Fort Bragg, NC 28310

SUBJECT: Monthy Methane Monitoring Results Report For Lamont Road LCID and C&D Landfills, Fort Bragg, North Carolina.

Dear Mr. Williamson:

The U.S. Army Corps of Engineers, Savannah District has completed the monthly methane monitoring report for the Lamont Road C&D Landfill. The sampling event was conducted on June 3, 2011. Methane monitoring was performed at 1 well which had an exceedance during the quarterly event.

The methane monitoring included measuring levels of methane, carbon dioxide and oxygen at each location. The results of the monitoring are summarized attached filed form. The methane well, GP-13 contained below 5 % methane by volume.

Please feel free to contact the undersigned at (912) 652-6167 or Kevin Haborak at (912) 652-6083 should you have any questions on this matter.

Sincerely

Zainul Kidwai, P.G.
Project Manager

Enclosure

CF:
CESAS-PM-H (Project File)
CESAS-EN-GH (Haborak)

DENR USE ONLY: ☐ Paper Report ☐ Electronic Data - Email CD (data loaded: Yes / No) Doc/Event #:

NC DENR

Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

Notice: This form and any information attached to it are "Public Records" as defined in NC General Statute 132-1. As such, these documents are available for inspection and examination by any person upon request (NC General Statute 132-6).

Instructions:

- **Prepare one form for each individually monitored unit.**
- **Please type or print legibly.**
- Attach a notification table with values that attain or exceed NC 2L groundwater standards or NC 2B surface water standards. The notification must include a preliminary analysis of the cause and significance of each value. (e.g. naturally occurring, off-site source, pre-existing condition, etc.).
- Attach a notification table of any groundwater or surface water values that equal or exceed the reporting limits.
- Attach a notification table of any methane gas values that attain or exceed explosive gas levels. This includes any structures on or nearby the facility (NCAC 13B .1629 (4)(a)(i).
- Send the original signed and sealed form, any tables, and Electronic Data Deliverable to: Compliance Unit, NCDENR-DWM, Solid Waste Section, 1646 Mail Service Center, Raleigh, NC 27699-1646.

Solid Waste Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner):

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: Kevin Haborak Phone: (912) 652-6083

E-mail: Kevin.Haborak@usace.army.mil

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Lamont Road C&D Landfill	Fort Bragg, Construction and Demolition Landfill 2608-CDLF-1998, Lamont Road Cumberland County, North Carolina 28310	#26-08	.0500	June 3, 2011

Environmental Status: (Check all that apply)

☐ Initial/Background Monitoring ☒ Detection Monitoring ☐ Assessment Monitoring ☐ Corrective Action

Type of data submitted: (Check all that apply)

☐ Groundwater monitoring data from monitoring wells
☐ Groundwater monitoring data from private water supply wells
☐ Leachate monitoring data
☐ Surface water monitoring data
☒ Methane gas monitoring data
☐ Corrective action data (specify) _____
☐ Other(specify) _____

Notification attached?

☒ No. No groundwater or surface water standards were exceeded.

☐ Yes, a notification of values exceeding a groundwater or surface water standard is attached. It includes a list of groundwater and surface water monitoring points, dates, analytical values, NC 2L groundwater standard, NC 2B surface water standard or NC Solid Waste GWPS and preliminary analysis of the cause and significance of any concentration.

☐ Yes, a notification of values exceeding an explosive methane gas limit is attached. It includes the methane monitoring points, dates, sample values and explosive methane gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards. I am aware that there are significant penalties for making any false statement, representation, or certification including the possibility of a fine and imprisonment.

Kevin Haborak — Technical Manager — 912-652-6083

Facility Representative Name (Print) — Title — (Area Code) Telephone Number

Signature — Date 7/14/11

Affix NC Licensed/ Professional Geologist Seal

100 W Oglethorpe Ave.; Savannah, GA; 31402

Facility Representative Address

NC PE Firm License Number (if applicable effective May 1, 2009)

Revised 6/2009

Periodic Methane Monitoring Report

Monitoring Date:	3 June 2011	Facility Name:	Lamont Road LCID and C&D Landfills
Facility Permit #'s:	#26G and #26-08	Monitoring Personnel (Name/Position):	Jeff Sloop/Solid Waste Support
NC Landfill Rule:	0.0500	Monitoring Personnel (Name/Position):	Sid Williamson S.W. manager
County (Location):	Cumberland	Equipment Field Calibrated by:	
Equipment Type:	GEM 2000	Manufacturer Cal/Service Date:	12/22/10 - 25 June 2011
Equipment Serial #:	G.M. 12029/09	Date/Time of Field Calibration:	
Calibration Gas:	Oxy/Nit - CO_2/Nit	Cal Gas Expiration Date:	Jan 2014/April 2014
Meter pump rate:			

Gas Monitoring Wells

Monitoring Point ID	Time	Initial %CH4	Initial %LEL	Purge Time	Stable %CH4	Stable %LEL	Stable %O2	Stable %CO2
GP-1								
GP-2								
GP-3								
GP-4								
GP-5								
GP-6								
GP-7								
GP-8								
GP-9								
GP-10								
GP-11								
GP-12								
GP-13	1407	Ø	Ø	1409	Ø	Ø	21	Ø

Balance 79

Notes:

Facility Structures

Monitoring Point ID	Time	Initial %CH4	Initial %LEL	Purge Time	Stable %CH4	Stable %LEL	Stable %O2	Stable %CO2
Office								
Scale House								
O-3533								

Drawings identifying location where each building sampled (include north arrow):

Office

Scale House

O-3533

Climatic/Physical Conditions at Site

Samples must be collected under normal/average conditions of temperature, pressure, and climate for the season. Barhole punch sampling should not be performed during or immediately after rain events, or when soils are saturated or frozen. **All sampling must be performed after 12:00 pm** (subsurface gases have a diurnal cycle and generally are at a maximum during the afternoon), and preferably when barometric conditions are not rising (subsurface gas pressures will be less than atmospheric pressure under these conditions and gas will therefore not migrate), or representative samples may not be obtained. Barometric information can be obtained from many locations (i.e. http://weather.noaa.gov).

a. Soil Conditions: _____

b. Weather Conditions: [redacted] Partly Cloudy

c. Temperature: [redacted] 84°F

d. Barometric Conditions: Rising Falling Steady x Reading 29.92 mmHg

e. Relative Humidity within range of 10%-90%? yes Value: [redacted]%

f. Condition and Access: Are all monitoring points identified in the field (signage) in accordance with approved monitoring plan; are they secured; has the owner/operator maintained access?

If no, explain in space provided below.

f. Condition and Access: Are all monitoring points identified in the field (signage) in accordance with approved monitoring plan; are they secured; has the owner/operator maintained access? If no, explain in space provided below.

g. If stressed vegetation is noted, describe the extent and location in the space provided below.

Description of Sampling Techniques: (e.g., wells are vented or not, barhole punch methodology, etc.)

Additional Comments:

Certification:

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. I am aware that there are significant penalties for making any false statement, representation, or certification including the possibility of a fine and imprisonment.

Sidney D. Williamson — Solid Waste Manager

SIGNATURE — TITLE

Sidney D. Williamson