

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):

Joyce Engineering

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

Name: Van Burbach, Ph.D., P.G.

Phone: (336) 323-0092

E-mail: vburbach@joyceengineering.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Dan Johnson Landfill Wilkes County	Mailing Address: 9219 Elkin Highway Roaring River, NC 28669	97-02	.0500	10/26/2015

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

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.

G. Van Ness Burbach Ph.D., P.G.

Technical Consultant

(336) 323-0092

Facility Representative Name (Print)

Title

(Area Code) Telephone Number

Affix NC Licensed/ Professional Geologist Seal

Signature

Date

2211 West Meadowview Rd. Suite 101, Greensboro, NC 27407

Facility Representative Address

C-0782

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

Revised 6/2009





2211 West Meadowview Rd.
Greensboro, NC 27407

tel: 336/323-0092
fax: 336/323-0093

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October 30, 2015

Mr. Ervin Lane
Compliance Hydrogeologist
Division of Waste Management/Solid Waste Section
1646 Mail Service Center
Raleigh, NC 27699-1646

**RE: Wilkes County Dan Johnson Landfill, Permit No. 97-02
Fourth Quarterly Gas Monitoring Results of 2015
JOYCE Project No. 356.1601.12, Task No. 06**

Dear Ervin:

Attached are the results from the October 26, 2015, fourth quarterly monitoring event at the Wilkes County Dan Johnson Landfill, Permit Number 97-02. During this event, Joyce Engineering (JOYCE) monitored three gas probes for the presence of landfill gas. Methane was detected in GP-2 at a level of 33.6% Vol. which exceeds the Lower Explosive Limit (LEL.) Methane was not detected in GP-1 or GP-3. Wilkes County completed installation of a gas interception trench between GP-2 and the inactive waste cell. The methane remediation trench contains 3 passive vents, which were each checked for methane concentration. The monitoring results of the gas trench vents are included on the attached monitoring log. Continued monitoring will be required to determine what affect the interception trench is having on methane migration in the area around GP-2. A copy of the monitoring results will be placed in the records for this facility. If we can provide any additional information, please call Alex Everhart or myself at (336) 323-0092.

Sincerely,
JOYCE ENGINEERING

Gretta A. Eller
Field Consultant

Attachments: Environmental Monitoring Reporting Form
Exceedance Tables
Landfill Gas Monitoring Log
Site Location Map

C: Kent Brandon

TABLE 1: Methane Detections

Date	Location	CH₄ (% LEL)	CH₄ (% Volume)
10/26/2015	GP-2	672	33.6

TABLE 2: Exceedances of the LEL

Date	Location	CH₄ (% LEL)	CH₄ (% Volume)
10/26/2015	GP-2	672	33.6

CH₄ = Methane

LEL = Lower Explosive Limit for Methane

LEL = 5% by volume at standard temperature and pressure

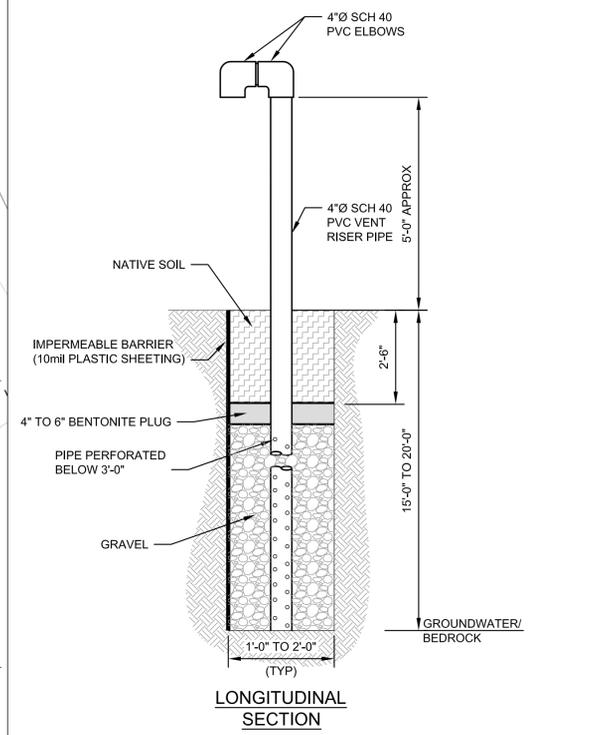
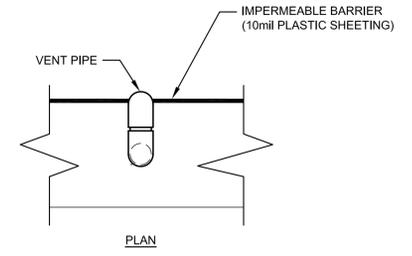
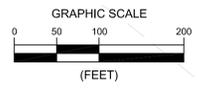
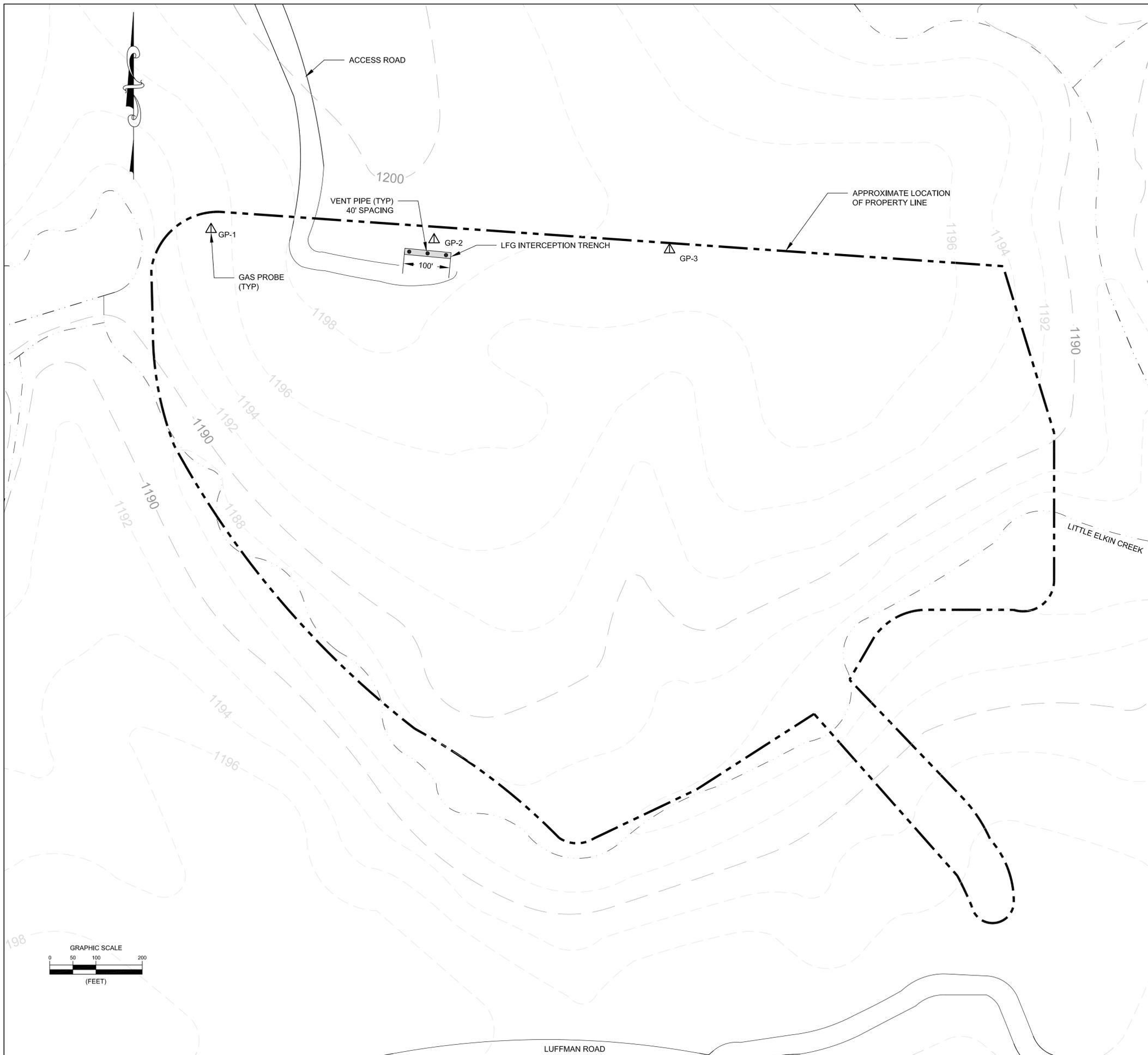
Landfill Gas Monitoring Log

Facility Name: Dan Johnson Closed Landfill
 Date of Sampling: 10/26/15
 Gas Monitor Type & Serial Number: GEM 2000 GM05194
 Field Calibration Date & Time: 10/26/2015 9:38
 General Weather Conditions: Sunny, 60's

Permit Number: 97-02
 Personnel: Gretta Eller
 Calibration Date: 15% CH4, exp. 12-2016
 Calibration Gas Type: 28.99 In-Hg
 Barometer :

Location or LFG Well ID	Instr. purged	Time	Probe Pressure (InWg)	Time Pumped (sec.)	CH ₄ (% Vol)	CH ₄ (%LEL)	Limit (%LEL)	Notes
GP-1	Y	952	0.000	60	0.0	0.0	100.0	
GP-2	Y	937	0.10	60	33.6	672.0	100.0	
GP-3	Y	945	-0.100	60	0.0	0.0	100.0	
GTV-1	Y	1008	NA	45	0.0	0.0	NA	Gas Intercept Trench Vent check
GTV-2	Y	1010	NA	45	0.0	0.0	NA	Gas Intercept Trench Vent check
GTV-3	Y	1011	NA	45	0.0	0.0	NA	Gas Intercept Trench Vent check

Abbreviations: LEL= Lower Explosive Limit
 GP = Boundary Probe
 GTV = Gas Intercept Trench Vent
 NA = Not Applicable



TYPICAL GAS INTERCEPTION TRENCH
N.T.S.

DESIGNED		RWJ	NO.	BY	CHK.	APP.
DRAWN		RWJ				
CHECKED		GVB				
APPROVED		GVB				
DATE		02/02/15				
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 2211 W. MEADOWVIEW ROAD GREENSBORO, NC 27407 PHONE: (336) 323-0092 NC CORP LIC: C-0762						
DAN JOHNSON LANDFILL WILKES COUNTY, NORTH CAROLINA						
LANDFILL GAS TRENCH						
PROJECT NO.		356				
SCALE		AS SHOWN				
DRAWING NO.		2				