

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, Inc.

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

Name: G. Van Ness 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)
Butner Landfill	State Road 1004 Butner, NC	39-02	.0500	June 20, 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
 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

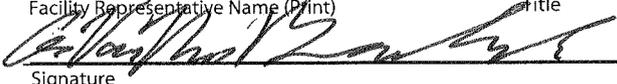
Notification attached?

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

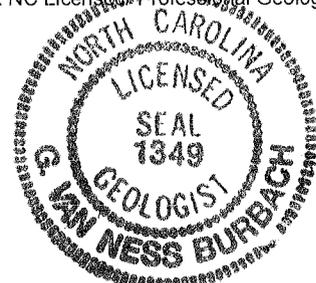
To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis 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. VanNess Burbach, Ph.D., PG Technical Consultant (336) 323-0092

Facility Representative Name (Print) _____ Title _____
 _____
 Signature _____ Date 6/28/11

(Area Code) Telephone Number _____
 Affix NC Licensed Professional Geologist Seal

2211 W. Meadowview Rd., Ste. 101 Greensboro, NC 27407
 Facility Representative Address _____
 C-0782
 NC PE Firm License Number (if applicable effective May 1, 2009) _____





Waste Industry Experts

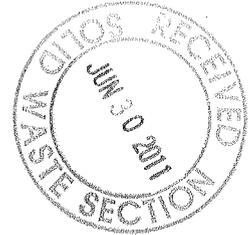
Joyce Engineering, Inc
2211 W. Meadowview Road
Suite 101
Greensboro, NC 27407

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

www.JoyceEngineering.com

June 28, 2011

Ms. Jackie Drummond
North Carolina Department of Environment and Natural Resources
Division of Waste Management, Solid Waste Section
1646 Mail Service Center
Raleigh, North Carolina 27699-1646



**RE: Landfill Gas Monitoring Report
Second Semiannual Sampling Event of 2011 GP-2 Re-sampling
Granville County – Butner Landfill, Permit No. 39-02
JEI Project No. 660.1001.11, Task No. 01**

Dear Ms. Drummond:

Please find attached a North Carolina Environmental Monitoring Reporting Form (EMRF), Landfill Gas Monitoring Data Form, and location map for a re-monitoring event that occurred on June 20, 2011 at the Granville County Butner closed Landfill (Permit number 39-02). This was a follow-up to the quarterly landfill gas monitoring event performed on June 8, 2011, when methane was detected in GP-2 above the LEL. On June 20, 2011 methane was detected in GP-2 at a peak level of 3% volume. Since this was below the LEL, no additional delineation monitoring was performed.

The original Landfill Gas Monitoring Data Form submitted with the Second Semiannual Sampling Event of 2011 contained an error in the date of sampling, so I have also attached a corrected form for that event. The next full quarterly monitoring event is currently scheduled for September 15, 2011. If you have any questions regarding the results or further recommendations, please contact me at (336) -323-0092. Thank you.

Sincerely,
JOYCE ENGINEERING, INC.

Van Burbach, Ph.D., P.G.
Technical Consultant

Attachments
Copy: Jason Falls, Granville County

Landfill Gas Monitoring Data Form

Facility Name: Butner Landfill, Granville County

Date of Sampling: June 20, 2011

Gas Monitor Type & Serial Number: RKI GX-2003, SN 55030103RN

Field Calibration Date & Time: 6/20/2011 6:30

General Weather Conditions: Sunny, 78° F, 0" Precipitation.

Permit Number: 3902

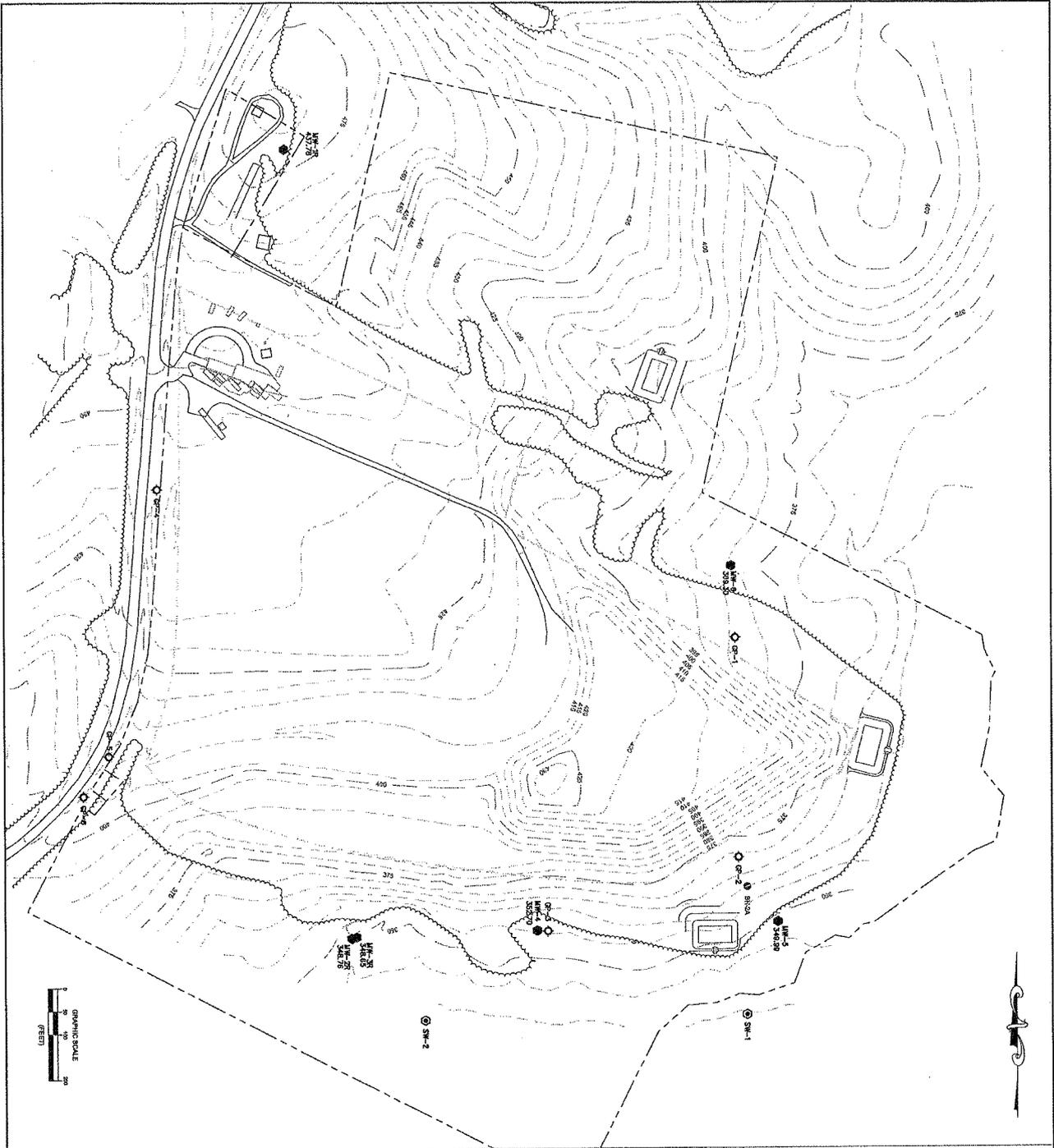
Personnel: Dan Girdner, Robert Winfield /JEI

Calibration Date: October 8, 2010

Calibration Gas Type: 2.5% CH4, exp. 8-2013

Barometer : 29.88 In-Hg

Location or ID	Time	Probe Pressure (In-Wg)	Instr. sample tube purged	Time Pumped (sec.)	Initial %LEL	Stable %LEL	CH ₄ (%Vol)	Notes
GP-2	8:41	3.88	Y	45	60	60	3	



LEGEND

- EXISTING 25' TOPOGRAPHIC CONTOUR
- EXISTING 5' TOPOGRAPHIC CONTOUR
- PROPERTY LINE
- APPROXIMATE LIMITS OF WASTE
- GROUNDWATER SURFACE CENTROID (FEET ABOVE MEAN SEA LEVEL)
- EXISTING ROAD
- CENTRIPOLE OF STREAM
- GROUNDWATER MONITORING WELL
- SM-24
- SM-1
- SM-1
- (NM)

NOTES

1. TOPOGRAPHIC CONTOUR INTERVAL = 5 FEET
2. ELEVATION RELATIVE TO MEAN SEA LEVEL
3. TOPOGRAPHIC CONTOUR AND PROPERTY LINE DATA DERIVED FROM THE APRIL 2008 DATA BY SEVERAL FEET IN SOME LOCATIONS.

BUTNER LANDFILL GRANVILLE COUNTY, NORTH CAROLINA QUARTERLY LFG MONITORING LOCATIONS	2311 W. MEADOWVIEW ROAD GREENSBORO, NC 27407 PHONE: (336) 322-0002	DESIGNED: ACE DRAWN: SWH CHECKED: JCB APPROVED: GVB DATE: 05/20/11	REVISIONS AND RECORD OF ISSUE		NO. BY CK APP
		PROJECT NO. 650-1004-11	SCALE AS NOTED	DRAWING NO. 1	DATE

Landfill Gas Monitoring Data Form

Facility Name: Butner Landfill, Granville County
 Date of Sampling: June 8, 2011

Permit Number: 3902

Personnel: Alex Everhart, Casey Davis /JEI

Gas Monitor Type & Serial Number: RKI GX-2003, SN 55030103RN

Calibration Date: October 8, 2010

Field Calibration Date & Time: 6/8/2011 8:30

Calibration Gas Type: 2.5% CH4, exp. 8-2013

General Weather Conditions: Sunny, 80° F, 0" Precipitation,

Barometer : 30.06 In-Hg

Location or ID	Time	Probe Pressure (In-Wg)	Instr. sample tube purged	Time Pumped (sec.)	Initial %LEL	Stable %LEL	CH ₄ (%Vol)	Notes
GP-1	8:35	0.00	Y	45	0	0	0	
GP-2	8:41	3.88	Y	45	260	260	13	
GP-2A	8:45	-	Y	20	0	0	0	
GP-3	8:51	0.00	Y	45	0	0	0	
GP-4	9:05	0.07	Y	45	60	60	3	Soil bar-hole 50' E of GP-2
GP-5	9:00	0.00	Y	45	0	0	0	
GP-6	8:55	0.00	Y	45	0	0	0	
GP-7	-	-	-	-	-	-	-	not located/missing
GP-8	9:10	-	Y	240	0	0	0	scalehouse/office