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):

Richardson Smith Gardner and Associates, Inc.

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

Name: Joan A. Smyth, P.G. Phone: 919-828-0577 x 221

E-mail: joan@rsgengineers.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Closed City of High Point Riverdale MSW Landfill	Riverdale Drive City of High Point	41-01	.0500	December 16, 2010

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.

Joan A. Smyth, P.G. | Senior Hydrogeologist | 919-828-0577 x 221

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

Joan A. Smyth 12/22/10

Signature | Date

Affix NC Licensed/ Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 1389 GEOLOGIST JOAN A. SMYTH 12/22/10

14 N. Boylan Avenue Raleigh, NC 27603

Facility Representative Address

C0828

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

Revised 6/2009

NC Division of Waste Management - Solid Waste Section

Landfill Gas Monitoring Data 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).

Facility Name: CITY OF HIGH POINT, CLOSED RIVERDALE LF Permit Number: 41-01

Date of Sampling: 12-16-10 NC Landfill Rule (.0500 or .1600): 0.0500

Name and Position of Sample Collector: DON MISENHEIMER PROJECT SCIENTIST (RSG)

Type and Serial Number of Gas Meter: GEM 2000 GM07002 HP Calibration Date of Gas Meter: 9/23/10

Date and Time of Field Calibration: 12-16-10 (11:00a)

Type of Field Calibration Gas (15/15 or 35/50): 15/15 Expiration Date of Field Calibration Gas Canister: 4/2013

Pump Rate of Gas Meter: 0.5 L/min

Ambient Air Temperature: 32°F Barometric Pressure: 29.85 General Weather Conditions: COLD / ICEY

Instructions: Under "Location or LFG Well" identify the monitoring wells or describe the location for other tests (e.g., inside buildings). A drawing showing the location of test must be attached. Report methane readings in both % LEL and % methane by volume. A reading in percent methane by volume can be converted to % LEL as follows: % methane by volume = % LEL/20

Location or LFG Well ID	Sample Tube Purge	Time	Time Pumped (s)	Initial %LEL	Stabilized %LEL	%CH4 by Volume	%O2	%CO2	Notes
LFG-7	>60s	12:42p	>60s	>100	>100	11.0	16.5	7.7	
7-1	>60s	1:01p	>60s	6	58	2.9	17.4	4.8	
7-2	>60s	1:07p	>60s	2	0	0	21.7	0	
7-3	>60s	1:11p	>60s	2	>100	11.8	5.3	22.5	
7-4	>60s	1:16p	>60s	0	>100	30.6	6.3	25.3	
LFG-8	>60s	1:20p	>60s	2	>100	48.0	6.1	33.0	
8-1	>60s	1:24p	>60s	2	>100	68.0	19.4	8.0	
8-2	>60s	1:28p	>60s	2	>100	43.6	6.0	35.8	
8-3	>60s	1:32p	>60s	60	54	2.7	11.4	10.2	
8-4	>60s	1:36p	>60s	>100	>100	46.3	5.2	32.7	

If your facility has more gas monitoring locations than there is room on this form, please attach additional sheets listing the same information as contained on this form.

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.

Don Misenheimer (RSG) — SIGNATURE

PROJECT SCIENTIST — TITLE

NOTE 1

* METER WAS FIELD CAL'D USING 15/15 gas, therefore HIGH READINGS MAY NOT HAVE A HIGH LEVEL OF ACCURACY. THE GEM 2000 WAS RE-CAL'D (FIELD) AFTER HIGH READINGS WERE FOUND. THE PROBES WERE RETESTED WITH NO SIGNIFICANT CHANGES.

NC Division of Waste Management - Solid Waste Section

Landfill Gas Monitoring Data Form

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Facility Name: CITY OF HIGH POINT, CLOSED RIVERDALE LF Permit Number: 41-01

Date of Sampling: 12·16·10 NC Landfill Rule (.0500 or .1600): 0.0500

Name and Position of Sample Collector: DON MISENHEIMER, PROJECT SCIENTIST (RSG)

Type and Serial Number of Gas Meter: GEM 2000, GM07002 HP Calibration Date of Gas Meter: 9/23/10

Date and Time of Field Calibration: 12-16-10 (11:00a)

Type of Field Calibration Gas (15/15 or 35/50): 15/15 Expiration Date of Field Calibration Gas Canister: 4/2013

Pump Rate of Gas Meter: 0.5 L/min

Ambient Air Temperature: 32°F Barometric Pressure: 29.85 General Weather Conditions: COLD, ICEY

Instructions: Under "Location or LFG Well" identify the monitoring wells or describe the location for other tests (e.g., inside buildings). A drawing showing the location of test must be attached. Report methane readings in both % LEL and % methane by volume. A reading in percent methane by volume can be converted to % LEL as follows: % methane by volume = % LEL/20

Location or LFG Well ID	Sample Tube Purge	Time	Time Pumped (s)	Initial %LEL	Stabilized %LEL	%CH4 by Volume	%O2	%CO2	Notes
8-5	>60s	1:40p	>60s	2	2	0.1	22.2	0.1	
LFG-9	>60s	1:44p	>60s	7100	7100	6.0	17.0	6.1	
9-1	>60s	1:48p	>60s	7100	7100	30.6	10.0	24.9	
8A	>60s	2:24p	>60s	7100	7100	49.6	1.3	33.7	
8B	>60s	2:28p	>60s	7100	7100	52.7	1.5	40.6	
LFG-10	>60s	2:40p	>60s	0	0	0	21.3	0.3	

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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.

Don M (RSG) PROJECT SCIENTIST

SIGNATURE TITLE

* SEE NOTE 1 FROM PREVIOUS PAGE

NC Division of Waste Management - Solid Waste Section

Landfill Gas Monitoring Data Form

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Date of Sampling: 12·16·10 NC Landfill Rule (.0500 or .1600): .0500

Name and Position of Sample Collector: DON MISENHEIMER, PROJECT SCIENTIST (RSG)

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Location or LFG Well ID	Sample Tube Purge	Time	Time Pumped (s)	Initial %LEL	Stabilized %LEL	%CH4 by Volume	%O2	%CO2	Notes
LFG-6	>60s	2:50p	>60s	4	4	0.2	20.9	1.0	
LFG-5	>60s	2:55p	>60s	0	0	0.	20.1	1.1	
LFG-4	>60s	3:01p	>60s	2	0	0	19.3	2.2	
LFG-3	>60s	3:11p	>60s	2	0	0	21.6	0.1	
1-1	>60s	3:06p	>60s	0	0	0	20.6	1.7	

If your facility has more gas monitoring locations than there is room on this form, please attach additional sheets listing the same information as contained on this form.

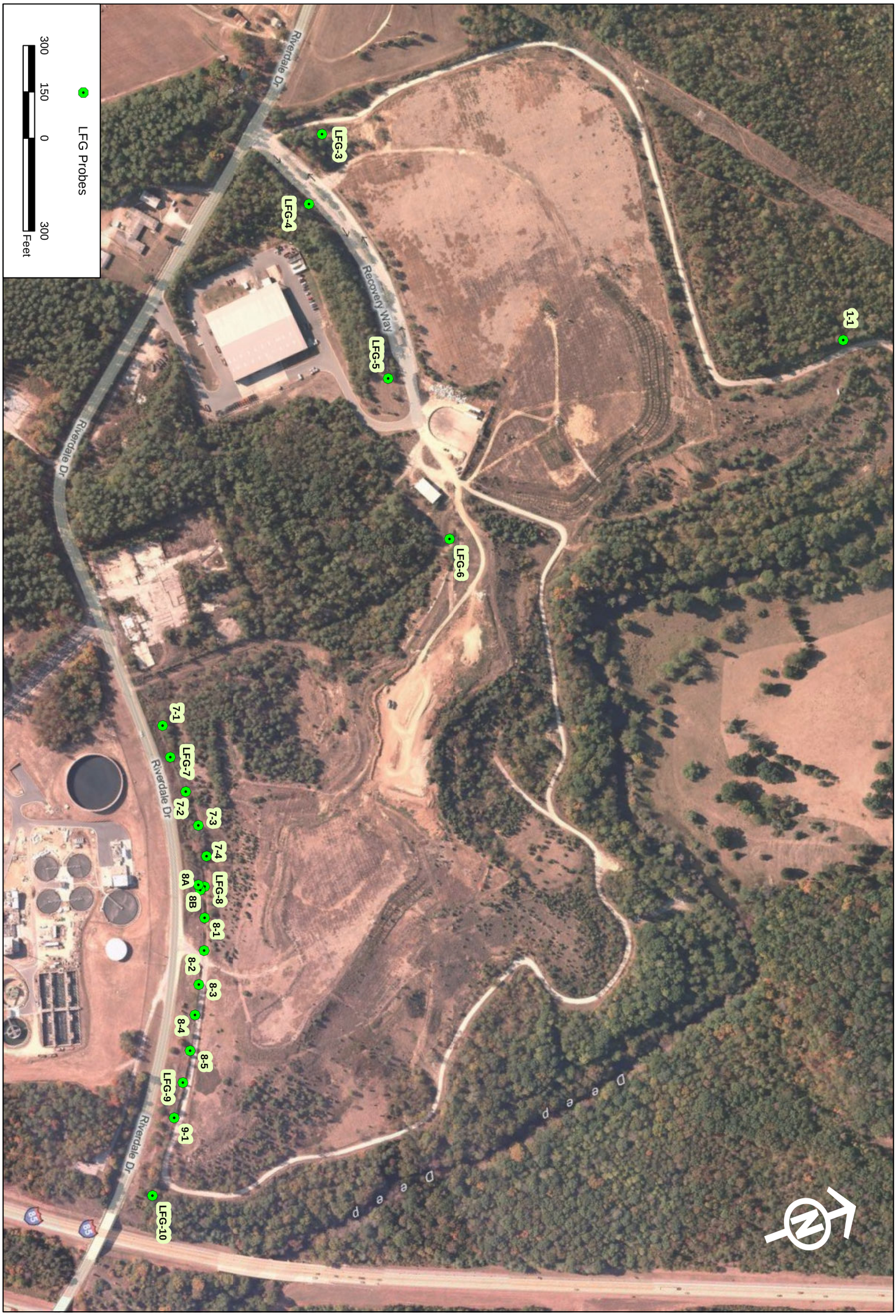
Certification

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.

Don (RSG) PROJECT SCIENTIST

SIGNATURE TITLE

H:\Projects\High Point (NC)\HPOINT-10-2\GIS\High_Point GP.mxd 12/21/2010 11:30:30 AM



TITLE:
LFG MONITORING PROBE LOCATIONS
CLOSED RIVERDALE LANDFILL
CITY OF HIGH POINT,
NORTH CAROLINA

DRAWN BY:	CHECKED BY:	SCALE:	FIGURE NO.
D.M.M.	J.A.S.	AS SHOWN	1
DATE:	PROJECT NO.	FILE NAME	
DEC. 2010	HPOINT 10-2		

RICHARDSON SMITH GARDNER & ASSOCIATES
14 N. Boylan Ave.
Raleigh, N.C. 27603
NC LIC. NO. C-0829 (Engineering)
www.rsgengineers.com
ph: 919-828-0577
fax: 919-828-3899