



June 25, 2008

Ms. Jaclynne Drummond
Division of Waste Management - Solid Waste Section
401 Oberlin Road, Suite 150
Raleigh, NC 27605

Re: Methane Monitoring Status
Lee County Landfill - Sanford, NC
NCDWM-Solid Waste Section Permit # 53-01
Terraquest Project No. 02296

Dear Ms. Drummond:

On behalf of the Lee County Public Works Department, Terraquest Environmental Consultants, P.C. is hereby reporting the status of methane monitoring for the Lee County Landfill located south of Sanford, NC. Due to the prior detection of gas concentrations at 100% of the LEL in M8, M28, and M29, Terraquest has initiated bi-weekly monitoring of those wells. As detailed on the attached Table 1, LEL violations were again present in M8, M28, and M29 on June 20, 2008. An NCDWM-SW Environmental Monitoring Reporting Form is attached. The site location, vicinity, and layout are displayed on the attached Figures 1, 2, and 3, respectively.

Terraquest has received verbal approval of the proposed addition of venting and assessment wells from both the NCDWM-SW and from the Lee County Public Works Department. The conversion of wells M8, M28, and M29 to vent wells along with the installation of additional wells is currently scheduled for July 16-17, 2008. Bi-weekly monitoring of the LEL violation wells will continue in the interim.

Sincerely,

TERRAQUEST ENVIRONMENTAL CONSULTANTS, P.C.

A handwritten signature in black ink, appearing to read "R. Kerins".

Ryan D. Kerins
Project Manager

Attachments: NCDWM-SW Environmental Monitoring Reporting Form
Table 1 – Methane Monitoring
Figure 1 – Site Location Map
Figure 2 – Site Vicinity Map
Figure 3 – Site Layout Map

cc: Joe Cherry – Lee County Public Works Department

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)).
- In accordance with NC General Statutes Chapter 89C and 89E and NC Solid Waste Management Rules 15A NCAC 13B, be sure to affix a seal to the bottom of this page, when applicable.
- 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):

TerraQuest Environmental Consultants, P.C.

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

Name: Ryan Kerins

Phone: (919) 563-9091

E-mail: rdkerins@terraquestpc.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Lee County Landfill	331 Landfill Rd, Sanford, NC 27332	53-01	.1600	June 20, 2008

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.

Ryan Kerins

Project Manager

(919) 563-9091

Facility Representative Name (Print)

Title

(Area Code) Telephone Number

Signature

Date

Affix NC Licensed/ Professional Geologist/Engineer Seal here:

6/25/08

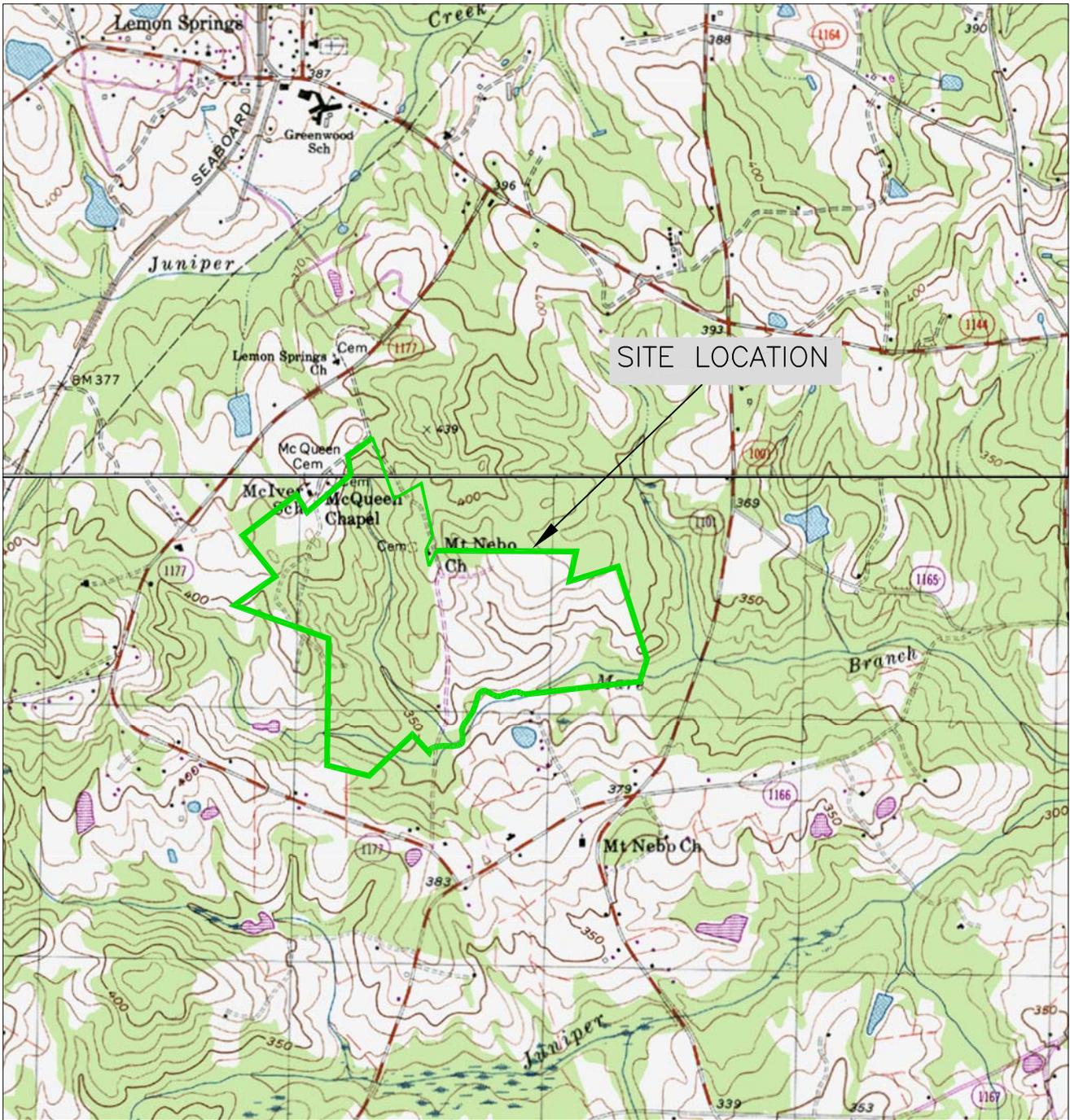


Table 1
Date: 6/25/08

METHANE MONITORING 6/20/08
Facility Name: Lee County Landfill

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	COLLECT DATE
53-01	SITE	SW325	325	ambient temperature	24.0	°C	10:19AM 6/20/08
53-01	SITE			barometric pressure	30.08	"Hg	10:19AM 6/20/08
53-01	SITE			barometric pressure	1,018.5	hPA	10:19AM 6/20/08
53-01	M8	SW329	329	methane gas - OVM reading	100	%LEL	6/20/2008
53-01	M8	SW318	318	Depth To Water	11.47	feet	6/20/2008
53-01	M27	SW329	329	methane gas - OVM reading	10	%LEL	6/20/2008
53-01	M27	SW318	318	Depth To Water	11.77	feet	6/20/2008
53-01	M28	SW329	329	methane gas - OVM reading	100	%LEL	6/20/2008
53-01	M28	SW318	318	Depth To Water	9.42	feet	6/20/2008
53-01	M29	SW329	329	methane gas - OVM reading	100	%LEL	6/20/2008
53-01	M29	SW318	318	Depth To Water	8.67	feet	6/20/2008

Note: Results with concentrations at the LEL are highlighted and denoted in red text.



MAP SOURCE: USGS 7.5 MINUTE TOPOGRAPHICS – SANFORD AND MURCHISONTOWN, NC

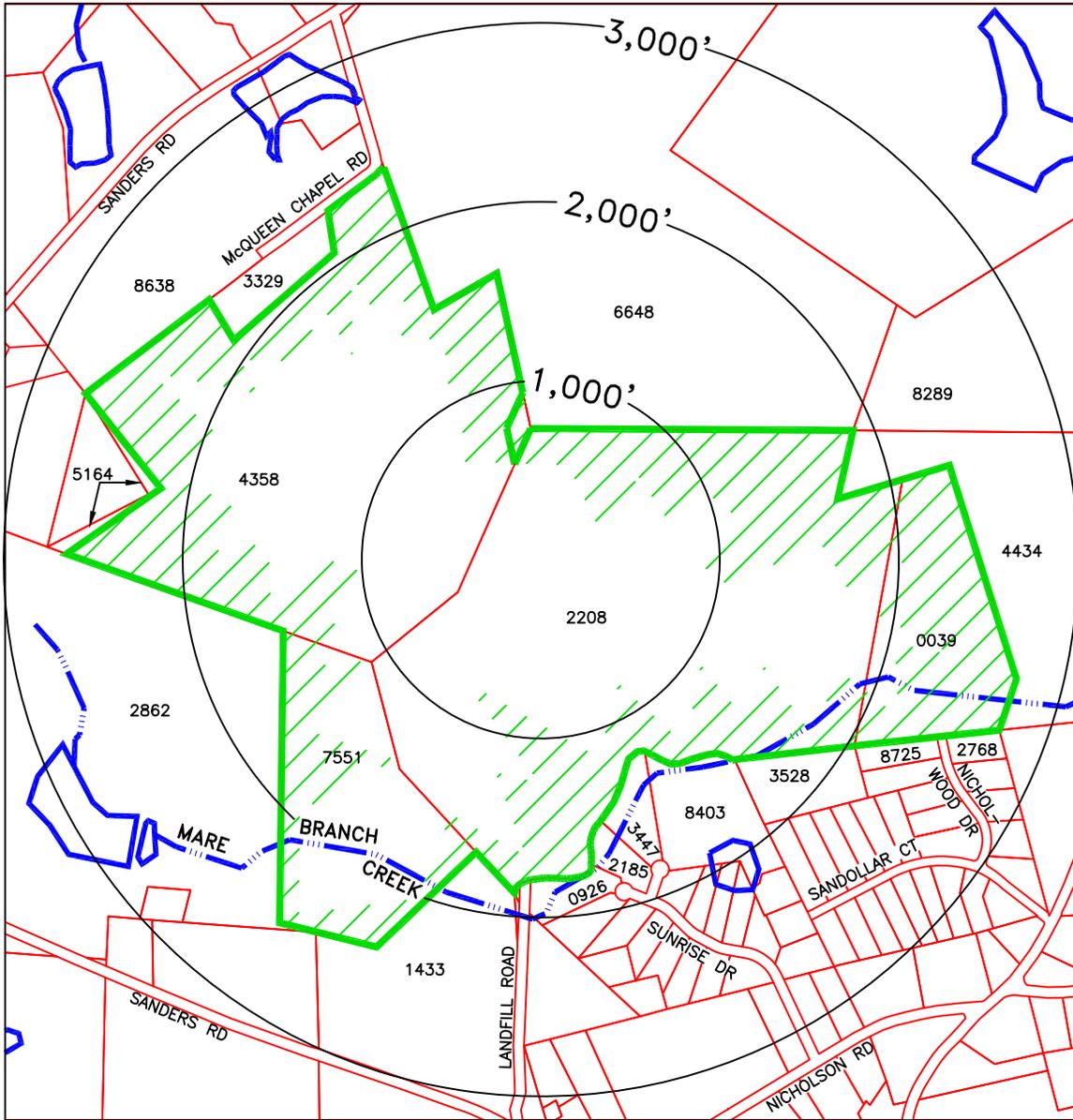
GRAPHIC SCALE



ENVIRONMENTAL CONSULTANTS, P.C.

SITE LOCATION MAP
 LEE COUNTY LANDFILL
 331 LANDFILL ROAD
 LEE COUNTY, NORTH CAROLINA

LEE COUNTY PUBLIC WORKS			SANFORD, NC
PROJECT NO.	02296	DRAWN BY:	RDJ
SCALE:	1" = 2000'	CHECKED BY:	JRG/MJB
		DATE:	6/25/08
		FIGURE NO.	1



LEGEND

LANDFILL PROPERTY BOUNDARY

PARCEL BOUNDARIES

DISTANCE FROM LANDFILL CENTER

SURFACE WATER BODY

2106 TAX PARCEL ID (SEE TABLE 1)

GRAPHIC SCALE (1" = 1,000')



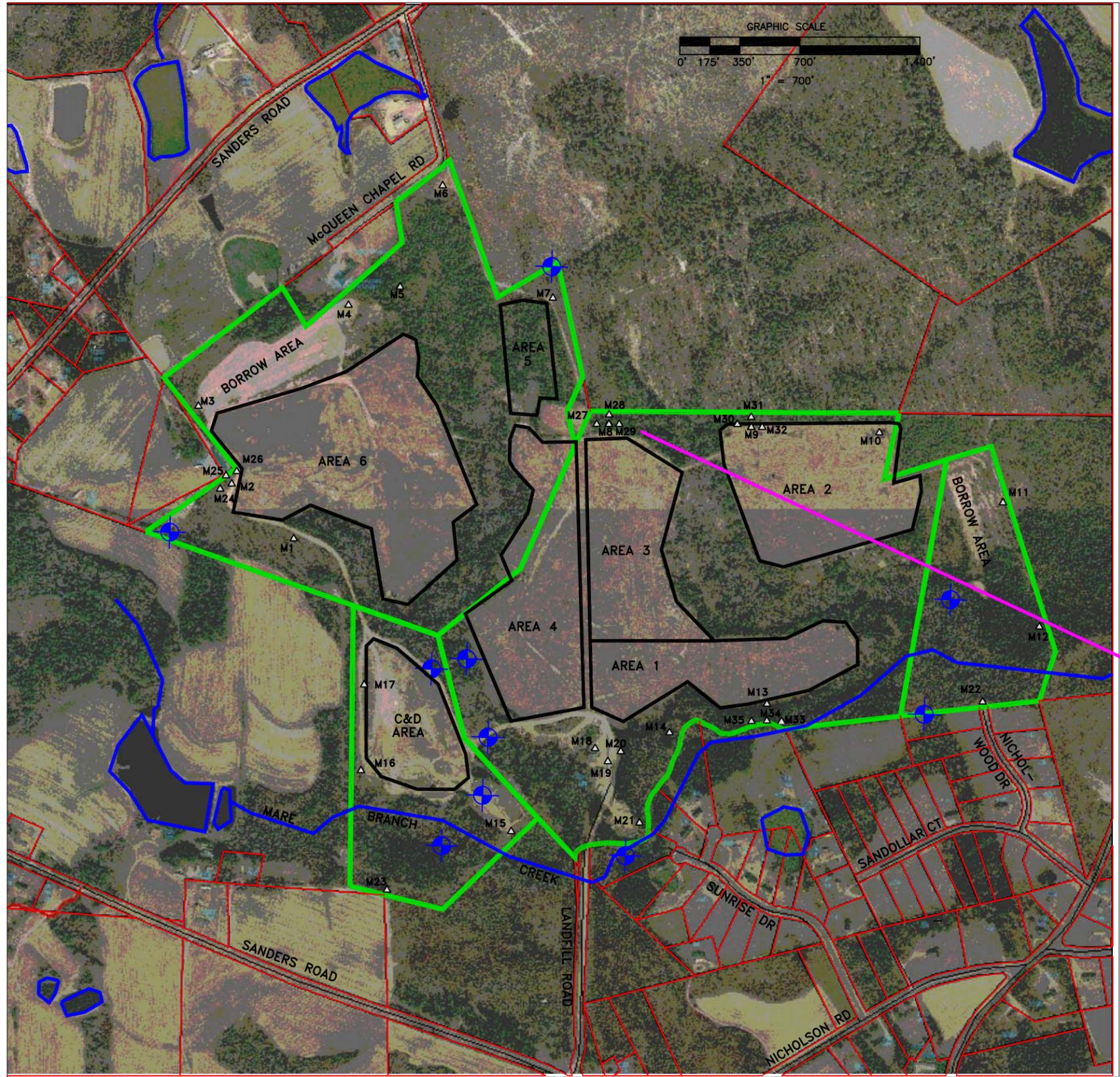
(NOTE: MAP ADAPTED FROM INFORMATION PROVIDED BY THE LEE COUNTY DEPARTMENT OF STRATEGIC SERVICES)



SITE VICINITY MAP

LEE COUNTY LANDFILL
331 LANDFILL ROAD
SANFORD, LEE COUNTY, NC 27332

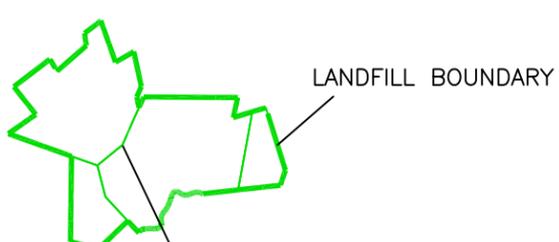
LKEE COUNTY PUBLIC WORKS			SANFORD, NC	
PROJECT NO.	02296	DRAWN BY:	RDK	DATE: 6/25/08
SCALE:	1" = 1,000'	CHECKED BY:	MJB	FIGURE NO. 2

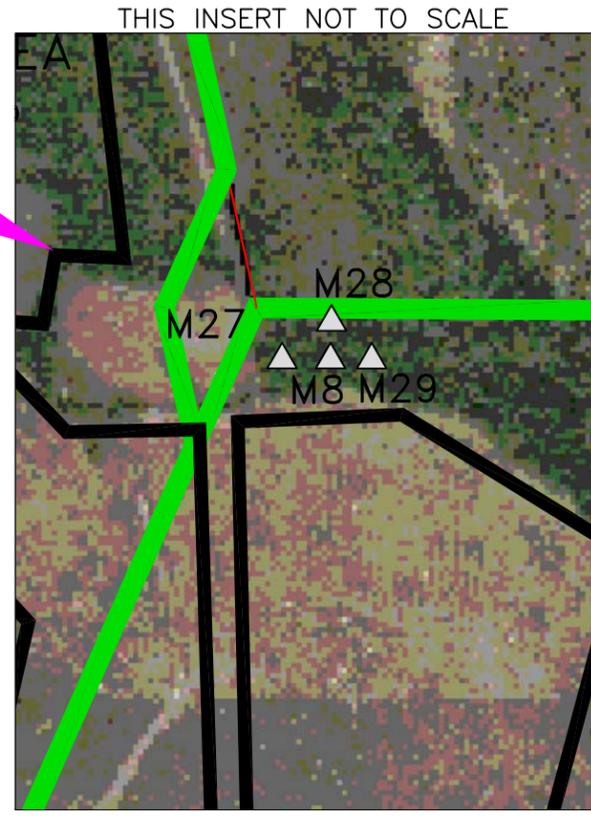


LEGEND

△ APPROVED METHANE MONITORING WELL

AREAS 1 – 6 CLOSED MSW
C&D AREA STILL ACTIVE





(NOTE: MAP ADAPTED FROM INFORMATION PROVIDED BY THE LEE COUNTY DEPARTMENT OF STRATEGIC SERVICES)



SITE LAYOUT MAP – AERIAL VIEW
 LEE COUNTY LANDFILL
 SANFORD, LEE COUNTY, NC

LEE COUNTY PUBLIC WORKS	PROJECT NO: 02296	CHECKED BY: MJB	FIGURE NO. 3	SANFORD, NC
SCALE: 1" = 700'	DRAWN BY: RDK	DATE: 8/25/08		