



June 20, 2012

Mr. Brian Wootton, Hydrogeologist  
Solid Waste Section  
Division of Waste Management  
North Carolina Department of  
Environment and Natural Resources  
1646 Mail Service Center  
Raleigh, NC 27699

Re: Cramerton (#36-01), Biggerstaff (#36-02), and Auten Road (#36-03) Landfills  
Landfill Gas Monitoring Plan Updates  
Gaston County, North Carolina  
CHA Project Number 21420

Dear Mr. Wootton:

In response to the Facility Compliance Inspection Report and Notice of Deficiency(s) issued by SWS relative to the above referenced facilities, please find attached an updated Landfill Gas Monitoring Plan (LFGMP) for each of the respective sites. The updated plans address the continued long-term monitoring for each site.

Please advise if you have any questions or comments regarding these updated LFGMPs.

Sincerely,

A handwritten signature in blue ink that reads 'Robert C. Sallach'.

Robert C. Sallach, PE  
Project Manager

RCS/det

Attachments

cc: Marcie Smith, Gaston County  
Bill Wagner, NCDENR, Asheville

AUTEN ROAD LANDFILL  
PERMIT NO. 36-03

**LANDFILL GAS  
MONITORING PLAN  
UPDATE**

MAY 2012

*Prepared for:*



Gaston County, North Carolina  
P.O. Box 1578  
Gastonia, NC 28053-1578



*Prepared by:*



8720 Red Oak Boulevard, Suite 505  
Charlotte, North Carolina 28217

N.C. License No. F-1165

Project Number 21420

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**1.0 INTRODUCTION**

**1.1 Purpose**

This Landfill Gas Monitoring Plan (LFGMP) presents information and procedures associated with the landfill gas monitoring program for the closed Auten Road Landfill (Permit No. 36-03). The Auten Road Landfill is owned and maintained by the Gaston County Department of Public Works and is located on Monterey Park Drive in Gastonia, North Carolina. A site location map of the Auten Road Landfill is included in Appendix A.

**1.2 Regulatory Requirements**

The Auten Road Landfill did not receive waste after October 9, 1991, and is subject to compliance with the closure requirements of 15A NCAC 13B.0510. The County has historically monitored the site for explosive gases and groundwater contamination.

The LFGMP, as described herein, is for monitoring of methane gas concentrations at the property boundary, and to document post-closure care actions and landfill gas (LFG) monitoring procedures already set in-place by the County.

In accordance with 15A NCAC 13B.0503, the following requirements must be met:

- The concentration of explosive gases generated by the site shall not exceed (i) 25 percent of the limit for the gases in site structures (excluding gas control or recovery system components); and (ii) the lower explosive limit for the gases at the property boundary.

**2.0 SITE HISTORY**

**2.1 Background**

The Auten Road Landfill is a pre-Subtitle D (unlined) landfill that operated from 1975 until it was closed in 1987. A chronology of key events is presented in the following table:

<b>TABLE 1 Auten Road Landfill Key Events</b>	
Activity	Date
First permitted	November 1975
Landfill stops receiving waste	1987
County receives letter from State recognizing placement of 2-feet of final cover and stating that additional grading and seeding is required for final closure certification.	April 1987
Debris from Hurricane Hugo is stored at the site as an emergency measure	September 1989
Hugo debris is cleared from the site	June 1990
County installs groundwater monitoring system	June 1994
SWS determination that facility has been closed in accordance with applicable requirements	July 1996

TABLE 1 Auten Road Landfill Key Events	
Activity	Date
County notification that facility will be maintained in accordance with the post closure conditions specified in SWS letter dated July 24, 1996. County requests effective closure date of November 28, 1995 to coincide with first groundwater monitoring event.	August 1996
SWS approves effective closure date of November 28, 1995.	August 1996

The landfill is currently well vegetated and the final layer of waste is covered by a minimum of 2 feet of soil cover in accordance with 15A NCAC 13B.0505.

The County currently performs post-closure care activities that include site maintenance, storm-water management, erosion and sediment control, groundwater monitoring, and landfill gas monitoring.

## 2.2 Landfill Gas Monitoring

The County currently performs annual LFG monitoring at six permanent wells located near the property boundary. Refer to Appendix B for well locations. Based upon recent monitoring results (from year 2006 to 2012), the recorded concentration of explosive (methane) gas is not detected or is below the regulatory requirements noted in Section 1.2 at all six monitoring locations.

## 3.0 CONTINUED LONG-TERM MONITORING PLAN

### 3.1 Monitoring

As required by 15A NCAC 13B.503, the County is responsible for assessing and monitoring for LFG migration, specifically off-site migration beyond the property boundary, and for determining if methane is accumulating in any on-site structures.

There are no on-site structures located at the Auten Road Landfill, thus the Monitoring Plan for this site consists of continued monitoring of the wells noted in Section 2.2. The County will also conduct ambient surface monitoring of specific locations on an as-needed basis if the presence of LFG is suspected.

### 3.2 Frequency

The County will continue to monitor the compliance wells on an annual basis throughout the remainder of the post-closure care period. The effective closure date of the Auten Road facility was determined to be November 28, 1995 (see Table 1). If methane concentration levels that exceed the regulatory requirements are observed, the County will institute quarterly or more frequent monitoring, following the implementation of corrective measures, until such time as it can be demonstrated that any migration issue is resolved to the satisfaction of the County and the Division of Waste Management.

### 3.3 Monitoring Protocols

Prior to initiating a LFG monitoring event, monitoring personnel (County or a third party) will record pertinent weather information. Via the use of a LFG analyzer, the following measurements will typically be recorded at each monitoring well or on-site structure:

- Methane concentrations (percent volume in air and lower explosive limit); and
- Oxygen, carbon dioxide, and balance gas concentration.

Concentrations of gases, using a CES-Landtech, GEM 2000 analyzer (or equivalent type analyzer) at the monitoring wells, will be determined using the following sampling procedures:

- The instrument will be calibrated per the manufacturer's recommendations prior to use.
- The instrument will be turned on prior to sampling of the monitoring well.
- The instrument's sampling pump will be started and readings will be observed and recorded. Typically, two monitoring well volumes will be pumped and purged prior to recording measurements.
- Readings will be measured for a three-five minute time interval following the well purging.

The LFG Monitoring Report form is presented in Appendix C.

### 3.4 Detections and Exceedences

If methane concentrations are detected above 1.25 percent by volume in on-site structures or above 5.00 percent by volume at the property boundary, the County will:

- Notify the Division of Waste Management, Solid Waste Section (SWS);
- Perform a site investigation;
- Provide SWS monitoring data related to the exceedence; and
- Propose appropriate corrective actions.

### 3.5 Notification and Reporting

Landfill monitoring under this Plan will be scheduled annually during the month of July.

The LFG Monitoring Report form is presented in Appendix C. LFG monitoring results will be submitted to SWS within 30 days following the completion of the monitoring event. However, notification will be provided to SWS within 48 hours if methane concentrations from any monitoring well exceed the prescribed regulatory requirements.

### 3.6 Revisions to the Plan

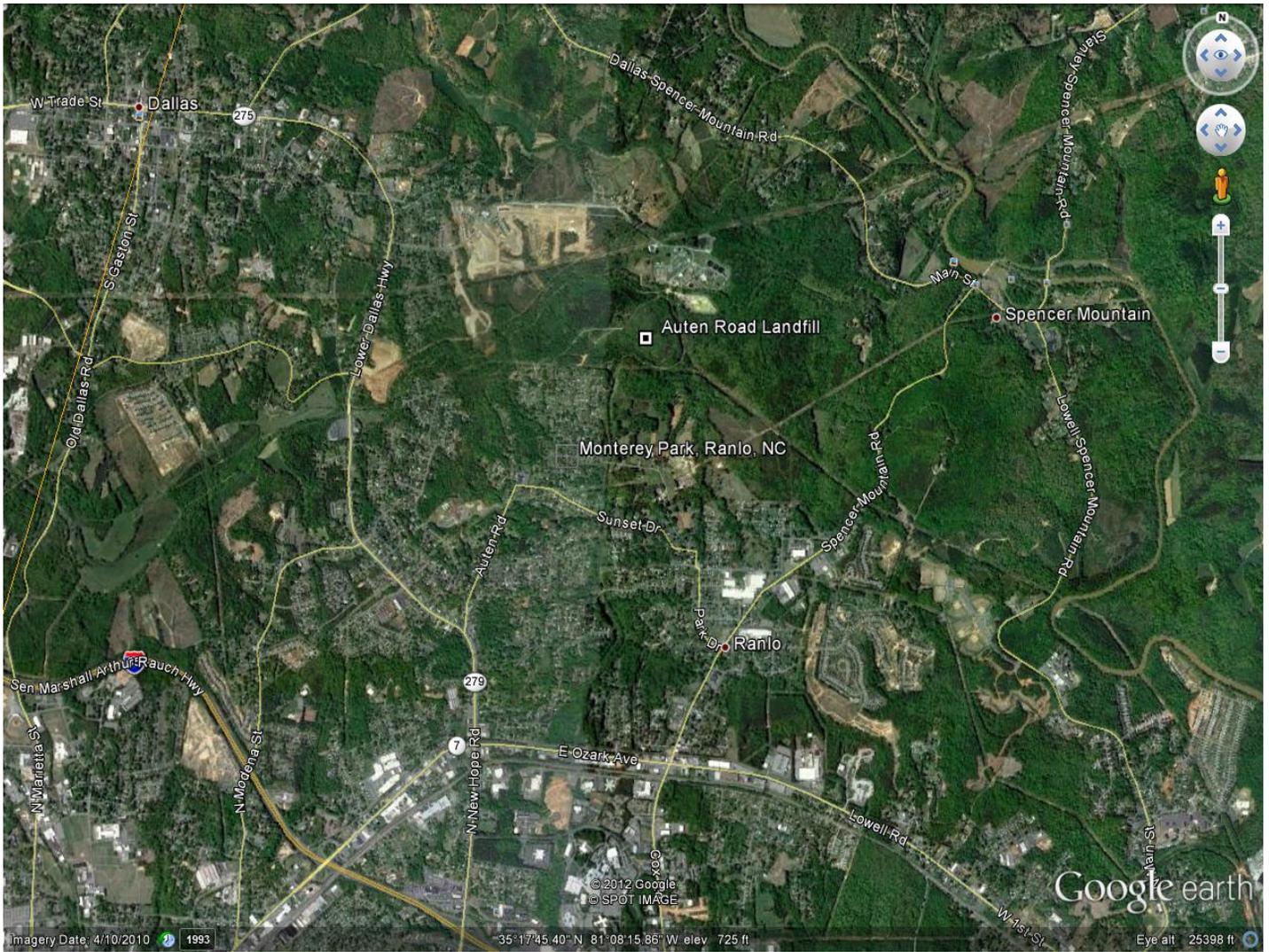
The County will update the LFGMP to reflect any proposed addition of new monitoring wells or other pertinent modifications to the LFG monitoring system and submit to SWS for approval.

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**APPENDIX A**

**Site Location Map**

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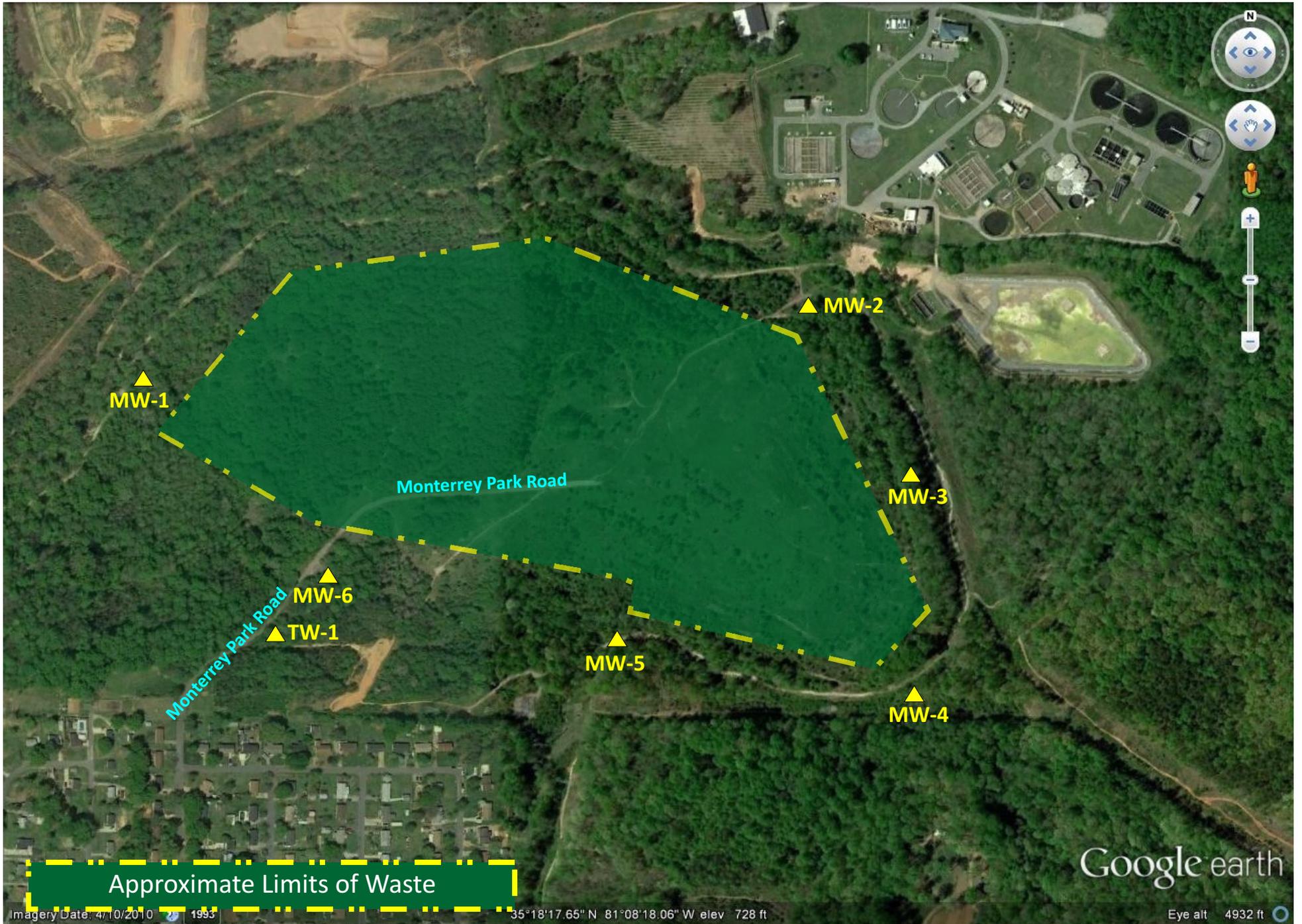
Auten Road Landfill - Site Location Map

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**APPENDIX B**

**Monitoring Well Location Plan**

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Auten Road Landfill – Monitoring Well Location Plan

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**APPENDIX C**

**LFG Monitoring Report Form**

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**AUTEN ROAD  
LANDFILL**

**LANDFILL GAS MONITORING REPORT – CLOSED LANDFILL**

Date: \_\_\_\_\_

Facility Name: Auten Road Landfill

Permit Number: 36-03

Sampling Personnel: \_\_\_\_\_

Instrument Used: \_\_\_\_\_

Date Instrument Calibrated and Standard Used: \_\_\_\_\_

Weather Conditions: \_\_\_\_\_

Monitoring Well/Probe	% LEL	% CH <sub>4</sub>	% O <sub>2</sub>	% CO <sub>2</sub>	% Balance Gas	Comments
Facility Structures	% LEL	% CH <sub>4</sub>	% O <sub>2</sub>	% CO <sub>2</sub>	% Balance Gas	Comments

List wells/probes not sampled during this monitoring event: \_\_\_\_\_

**BIGGERSTAFF LANDFILL  
PERMIT NO. 36-02**

**LANDFILL GAS  
MONITORING PLAN  
UPDATE**

**MAY 2012**

*Prepared for:*



Gaston County, North Carolina  
P.O. Box 1578  
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*Prepared by:*



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**1.0 INTRODUCTION**

**1.1 Purpose**

This Landfill Gas Monitoring Plan (LFGMP) presents information and procedures associated with the landfill gas monitoring program for the closed Biggerstaff Landfill (Permit No. 36-02). The Biggerstaff Landfill is owned and maintained by the Gaston County Department of Public Works and is located at 555 Biggerstaff Landfill Road, Bessmermer City, North Carolina 28016. A site location map of the Biggerstaff Landfill is included in Appendix A.

**1.2 Regulatory Requirements**

The Biggerstaff Landfill did not receive waste after October 9, 1991, and is subject to compliance with the closure requirements of 15A NCAC 13B.0510. The County has historically monitored the site for explosive gases and groundwater contamination.

The LFGMP, as described herein, is for monitoring of methane gas concentrations at the property boundary, and to document post-closure care actions and landfill gas (LFG) monitoring procedures already set in-place by the County.

In accordance with 15A NCAC 13B.0503, the following requirements must be met:

- The concentration of explosive gases generated by the site shall not exceed (i) 25 percent of the limit for the gases in site structures (excluding gas control or recovery system components); and (ii) the lower explosive limit for the gases at the property boundary.

**2.0 SITE HISTORY**

**2.1 Background**

The Biggerstaff Landfill is a pre-Subtitle D (unlined) landfill that operated from 1967 until it was closed in 1987. A chronology of key events is presented in the following table:

<b>TABLE 1 Biggerstaff Landfill Key Events</b>	
Activity	Date
First permitted	September 1967
Landfill stops receiving waste	1987
Certification of final cover depth by Law Engineering	September 1987
Division of Solid Waste Management issues Closure Letter	December 1991
County notification that facility will be maintained in accordance with the post closure conditions specified in SWS letter dated July 24, 1996. County requests effective closure date of November 28, 1995 to coincide with first groundwater monitoring event.	August 1996
SWS approves effective closure date of November 28, 1995.	August 1996

The landfill is currently well vegetated and the final layer of waste is covered by a minimum of 2 feet of soil cover in accordance with 15A NCAC 13B.0505.

This site is also home to the Lewis Brooks Airfield, which is used by the public for recreational radio-controlled airplane flying. Facilities include a 30-foot by 300-foot paved airstrip, open shelter, and stone access road and parking area. The Conditional Use Permit (CUP) for this activity was approved in 1994.

The County currently performs post-closure care activities that include site maintenance, storm-water management, erosion and sediment control, groundwater monitoring, and landfill gas monitoring.

## **2.2 Landfill Gas Monitoring**

The County currently conducts annual LFG monitoring at five permanent wells located near the property boundary. Refer to Appendix B for well locations. Based upon recent monitoring results (from year 2006 to 2012), the recorded concentration of explosive (methane) gas is not detected or is below the regulatory requirements noted in Section 1.2 at all five monitoring locations.

## **3.0 CONTINUED LONG-TERM MONITORING PLAN**

### **3.1 Monitoring**

As required by 15A NCAC 13B.503, the County is responsible for assessing and monitoring for LFG migration, specifically off-site migration beyond the property boundary, and for determining if methane is accumulating in any on-site structures.

There are no enclosed on-site structures located at the Biggerstaff Landfill, thus the Monitoring Plan for this site consists of continued monitoring of the wells noted in Section 2.2. As noted in Section 2.1, a radio-controlled model airplane airstrip has been constructed on the closed fill area. The County will also conduct ambient surface monitoring of specific locations on an as-needed basis if the presence of LFG is suspected.

### **3.2 Frequency**

The County will continue to monitor the compliance wells on an annual basis throughout the remainder of the post-closure care period. The effective closure date of the Biggerstaff facility was determined to be November 28, 1995 (see Table 1). If methane concentration levels that exceed the regulatory requirements are observed, the County will institute quarterly or more frequent monitoring, following the implementation of corrective measures, until such time as it can be demonstrated that any migration issue is resolved to the satisfaction of the County and the Division of Waste Management.

### 3.3 Monitoring Protocols

Prior to initiating a LFG monitoring event, monitoring personnel (County or a third party) will record pertinent weather information. Via the use of a LFG analyzer, the following measurements will typically be recorded at each monitoring well or on-site structure:

- Methane concentrations (percent volume in air and lower explosive limit); and
- Oxygen, carbon dioxide, and balance gas concentration.

Concentrations of gases, using a CES-Landtech, GEM 2000 analyzer (or equivalent type analyzer) at the monitoring wells, will be determined using the following sampling procedures:

- The instrument will be calibrated per the manufacturer's recommendations prior to use.
- The instrument will be turned on prior to sampling of the monitoring well.
- The instrument's sampling pump will be started and readings will be observed and recorded. Typically, two monitoring well volumes will be pumped and purged prior to recording measurements.
- Readings will be measured for a three-five minute time interval following the well purging.

The LFG Monitoring Report form is presented in Appendix C.

### 3.4 Detections and Exceedences

If methane concentrations are detected above 1.25 percent by volume in on-site structures or above 5.00 percent by volume at the property boundary, the County will:

- Notify the Division of Waste Management, Solid Waste Section (SWS);
- Perform a site investigation;
- Provide SWS monitoring data related to the exceedence; and
- Propose appropriate corrective actions.

### 3.5 Notification and Reporting

Landfill monitoring under this Plan will be scheduled annually during the month of July.

The LFG Monitoring Report form is presented in Appendix C. LFG monitoring results will be submitted to SWS within 30 days following the completion of the monitoring event. However, notification will be provided to SWS within 48 hours if methane concentrations from any monitoring well exceed the prescribed regulatory requirements.

### 3.6 Revisions to the Plan

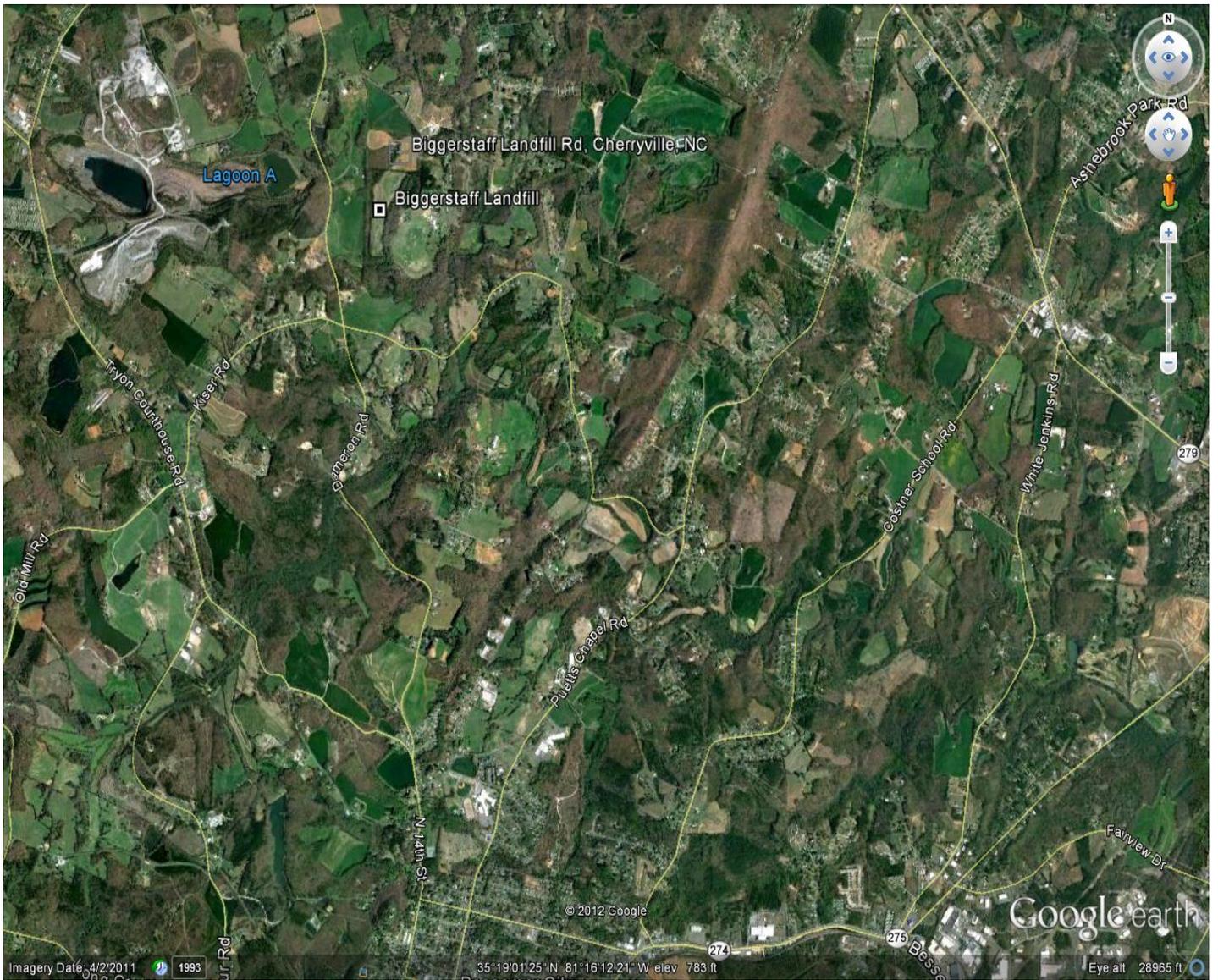
The County will update the LFGMP to reflect any proposed addition of new monitoring wells or other pertinent modifications to the LFG monitoring system and submit to SWS for approval.

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**APPENDIX A**

**Site Location Map**

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Biggerstaff Landfill - Site Location Map

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**APPENDIX B**

**Monitoring Well Location Plan**

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Biggerstaff Landfill – Monitoring Well Location Plan

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**APPENDIX C**

**LFG Monitoring Report Form**

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**BIGGERSTAFF  
LANDFILL**

**LANDFILL GAS MONITORING REPORT – CLOSED LANDFILL**

Date: \_\_\_\_\_

Facility Name:   **Biggerstaff Landfill**  

Permit Number:   **36-02**  

Sampling Personnel: \_\_\_\_\_

Instrument Used: \_\_\_\_\_

Date Instrument Calibrated and Standard Used: \_\_\_\_\_

Weather Conditions: \_\_\_\_\_

Monitoring Well/Probe	% LEL	% CH <sub>4</sub>	% O <sub>2</sub>	% CO <sub>2</sub>	% Balance Gas	Comments
Facility Structures	% LEL	% CH <sub>4</sub>	% O <sub>2</sub>	% CO <sub>2</sub>	% Balance Gas	Comments

List wells/probes not sampled during this monitoring event: \_\_\_\_\_

CRAMERTON LANDFILL  
PERMIT NO. 36-01

**LANDFILL GAS  
MONITORING PLAN  
UPDATE**

MAY 2012

*Prepared for:*



Gaston County, North Carolina  
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Appendix A – Site Location Map

Appendix B – Monitoring Well Location Plan

Appendix C – LFG Monitoring Report Form

## 1.0 INTRODUCTION

### 1.1 Purpose

This Landfill Gas Monitoring Plan (LFGMP) presents information and procedures associated with the landfill gas monitoring program for the closed Cramerton Landfill (Permit No. 36-01). The Cramerton Landfill is owned and maintained by the Gaston County Department of Public Works and is located on Cramerton Road in Gastonia, North Carolina. A site location map of the Cramerton Landfill is included in Appendix A.

### 1.2 Regulatory Requirements

The Cramerton Landfill did not receive waste after October 9, 1991, and is subject to compliance with the closure requirements of 15A NCAC 13B.0510. The County has historically monitored the site for explosive gases and groundwater contamination.

The LFGMP, as described herein, is for monitoring of methane gas concentrations at the property boundary, and to document post-closure care actions and landfill gas (LFG) monitoring procedures already set in-place by the County.

In accordance with 15A NCAC 13B.0503, the following requirements must be met:

- The concentration of explosive gases generated by the site shall not exceed (i) 25 percent of the limit for the gases in site structures (excluding gas control or recovery system components); and (ii) the lower explosive limit for the gases at the property boundary.

## 2.0 SITE HISTORY

### 2.1 Background

The Cramerton Landfill is a pre-Subtitle D (unlined) landfill that operated from 1974 until it was closed in 1984. A chronology of key events is presented in the following table:

Activity	Date
First Permitted	November 1974
Landfill stops receiving waste	October 1983
County receives letter from State recognizing placement of 2-feet of final cover and stating that additional grading and seeding is required for final closure certification.	January 1984
Debris from Hurricane Hugo is stored at the site as an emergency measure	September 1989
Hugo debris is cleared from the site	Mid-1993
County installs groundwater monitoring system	February 1994
First groundwater monitoring report submitted to SWS	April 1994

<b>TABLE 1</b>	
<b>Cramerton Landfill Key Events</b>	
Activity	Date
SWS determination that facility has been closed in accordance with applicable requirements	July 1996
County notification that facility will be maintained in accordance with the post-closure conditions specified in SWS letter dated July 24, 1996. County requests effective closure date of November 28, 1995 to coincide with first groundwater monitoring event.	August 1996
SWS approves effective closure date of November 28, 1995	August 1996

The landfill is currently well vegetated and the final layer of waste is covered by a minimum of 2 feet of soil cover in accordance with 15A NCAC 13B.0505.

The County currently performs post-closure care activities that include site maintenance, storm-water management, erosion and sediment control, groundwater monitoring, and landfill gas monitoring.

## **2.2 Landfill Gas Monitoring**

The County currently performs annual LFG monitoring at eight permanent wells located near the property boundary. Refer to Appendix B for well locations. Based upon recent monitoring results (from year 2006 to 2012), the recorded concentration of explosive (methane) gas is not detected or is below the regulatory requirements noted in Section 1.2 at all eight monitoring locations.

## **3.0 CONTINUED LONG-TERM MONITORING PLAN**

### **3.1 Monitoring**

As required by 15A NCAC 13B.503, the County is responsible for assessing and monitoring for LFG migration, specifically off-site migration beyond the property boundary, and for determining if methane is accumulating in any on-site structures.

There are no on-site structures located at the Cramerton Landfill, thus the Monitoring Plan for this site consists of continued monitoring of the wells noted in Section 2.2. The County will also conduct ambient surface monitoring of specific locations on an as-needed basis if the presence of LFG is suspected.

### **3.2 Frequency**

The County will continue to monitor the compliance wells on an annual basis throughout the remainder of the post-closure care period. The effective date of the Cramerton facility was determined to be November 28, 1995 (see Table 1). If methane concentration levels that exceed the regulatory requirements are observed, the County will institute quarterly or more frequent monitoring, following the implementation of corrective measures, until such time as it can be demonstrated that any migration issue is resolved to the satisfaction of the County and the Division of Waste Management.

### 3.3 Monitoring Protocols

Prior to initiating a LFG monitoring event, monitoring personnel (County or a third party) will record pertinent weather information. Via the use of a LFG analyzer, the following measurements will typically be recorded at each monitoring well or on-site structure:

- Methane concentrations (percent volume in air and lower explosive limit); and
- Oxygen, carbon dioxide, and balance gas concentration.

Concentrations of gases, using a CES-Landtech, GEM 2000 analyzer (or equivalent type analyzer) at the monitoring wells, will be determined using the following sampling procedures:

- The instrument will be calibrated per the manufacturer's recommendations prior to use.
- The instrument will be turned on prior to sampling of the monitoring well.
- The instrument's sampling pump will be started and readings will be observed and recorded. Typically, two monitoring well volumes will be pumped and purged prior to recording measurements.
- Readings will be measured for a three-five minute time interval following the well purging.

The LFG Monitoring Report form is presented in Appendix C.

### 3.4 Detections and Exceedences

If methane concentrations are detected above 1.25 percent by volume in on-site structures or above 5.00 percent by volume at the property boundary, the County will:

- Notify the Division of Waste Management, Solid Waste Section (SWS);
- Perform a site investigation;
- Provide SWS monitoring data related to the exceedence; and
- Propose appropriate corrective actions.

### 3.5 Notification and Reporting

Landfill monitoring under this Plan will be scheduled annually during the month of July.

The LFG Monitoring Report form is presented in Appendix C. LFG monitoring results will be submitted to SWS within 30 days following the completion of the monitoring event. However, notification will be provided to SWS within 48 hours if methane concentrations from any monitoring well exceed the prescribed regulatory requirements.

### 3.6 Revisions to the Plan

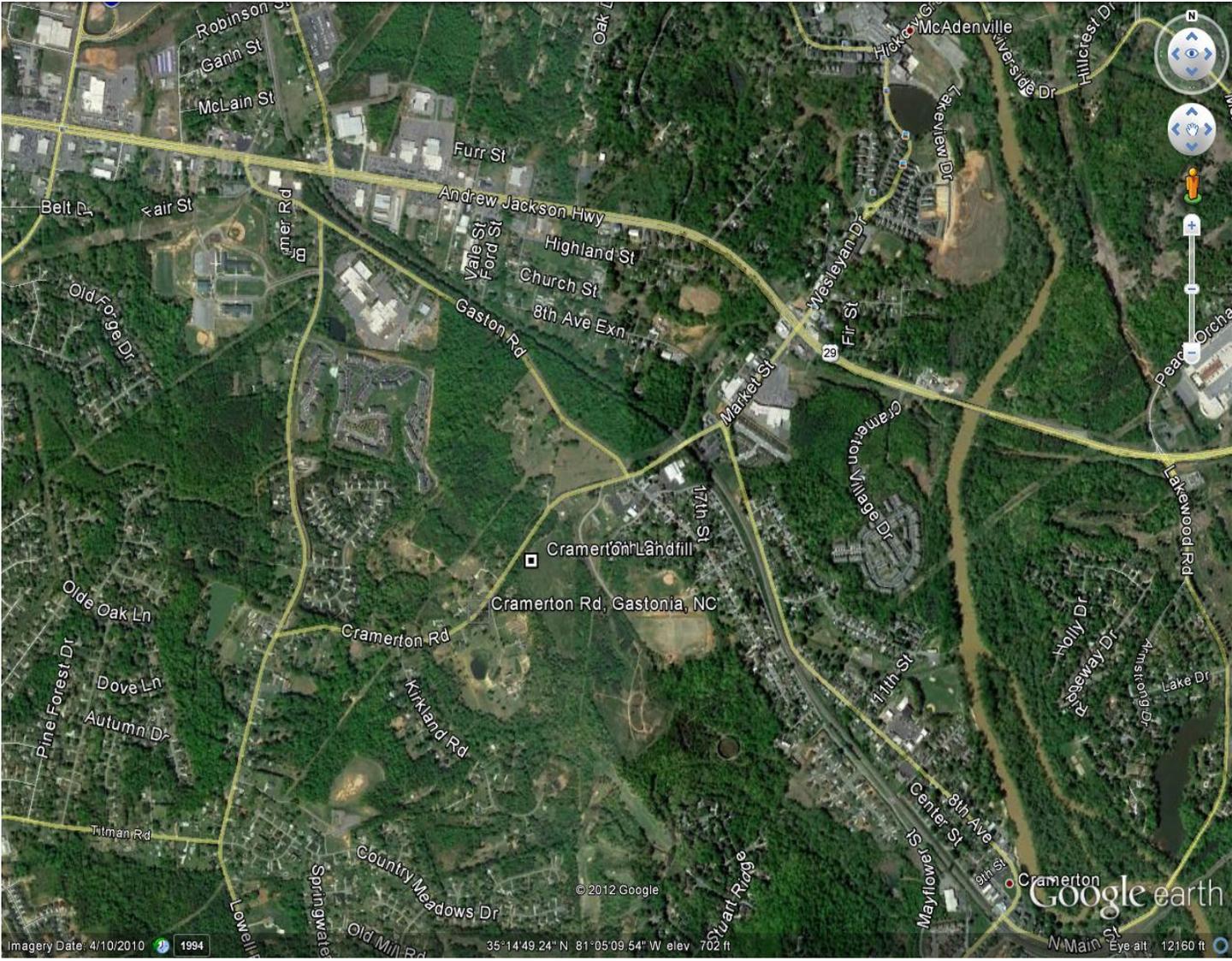
The County will update the LFGMP to reflect any proposed addition of new monitoring wells or other pertinent modifications to the LFG monitoring system and submit to SWS for approval.

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**APPENDIX A**

**Site Location Map**

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Cramerton Landfill – Site Location Map

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**APPENDIX B**

**Monitoring Well Location Plan**

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Cramerton Landfill – Monitoring Well Location Plan

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**APPENDIX C**

**LFG Monitoring Report Form**

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**CRAMERTON  
LANDFILL**

**LANDFILL GAS MONITORING REPORT – CLOSED LANDFILL**

Date: \_\_\_\_\_

Facility Name:   Cramerton Landfill  

Permit Number:   36-01  

Sampling Personnel: \_\_\_\_\_

Instrument Used: \_\_\_\_\_

Date Instrument Calibrated and Standard Used: \_\_\_\_\_

Weather Conditions: \_\_\_\_\_

Monitoring Well/Probe	% LEL	% CH <sub>4</sub>	% O <sub>2</sub>	% CO <sub>2</sub>	% Balance Gas	Comments
Facility Structures	% LEL	% CH <sub>4</sub>	% O <sub>2</sub>	% CO <sub>2</sub>	% Balance Gas	Comments

List wells/probes not sampled during this monitoring event: \_\_\_\_\_