



**CONESTOGA-ROVERS  
& ASSOCIATES**

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April 23, 2009

Reference No. 055710

Mr. Thomas Lewis  
District Manager  
WMNY-CHAFFEE LANDFILL  
10860 Olean Road  
Chaffee, NY 14030

Dear Mr. Lewis:

Re: First Quarter Surface Monitoring at Chaffee Landfill  
NYSDEC Permit ID No.: 9-1642-00001/00013

On March 23, 2009 Conestoga-Rovers & Associates, Inc. (CRA) conducted the first quarter surface monitoring at the Waste Management of New York, LLC-Chaffee Landfill facility located in Sardinia, New York. The monitoring was conducted in accordance with Code of Federal Regulations (CFR) Title 40, Part 60, Appendix A, Method 21.

Mr. Bryan Szalda of CRA performed the calibration evaluation and monitoring using a Thermo Environmental Instruments Toxic Vapor Analyzer (TVA) 1000 flame ionization detector to determine surface methane levels. Attachment 1 contains the monitoring instrument performance evaluation and calibration documentation. Mr. Bryan Szalda was accompanied with Mr. Al Zylinski of the New York State Department of Environmental Conservation (NYSDEC) during the surface monitoring. The monitoring followed a serpentine pattern at 30-meter intervals, as required in 40 CFR Part 60 Subpart 60.753, and generally followed the pattern described in the Surface Monitoring Plan for the facility.

During the surface scan, one exceedance was observed at the following location:

<i>Location</i>	<i>Reading (ppm above background)</i>
Base of Well 38	836

This area was marked with a red flag and the site Operations Manager was immediately notified. Figure 1 shows the location of the monitoring exceedance and Attachment 2 contains a data sheet giving a description of the exceedance and the follow-up monitoring. The following corrective actions were implemented immediately to address the exceedance:

- It was determined that the lateral pipe leading to GW-38R was pinched, causing a reduced vacuum on the gas well; the area around the well was excavated, the lateral pipe was repaired, and soil was backfilled and compacted around GW-38R.

Equal  
Employment Opportunity  
Employer

REGISTERED COMPANY FOR  
**ISO 9001**  
ENGINEERING DESIGN



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On March 27, 2008, Mr. Bryan Szalda of CRA performed the 10-day follow-up. The location was re-monitored and no readings exceeding the 500-ppm above background limit were detected.

On April 21, 2009, Mr. Bryan Szalda of CRA performed a 30-day follow-up at the location. No readings exceeding the 500-ppm limit were detected at the location, and no further action is required for the Q-1 monitoring period. Therefore the Chaffee Landfill facility is in compliance with the requirement of 40 CFR 60.753(d) for Municipal Solid Waste (MSW) Landfills.

Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

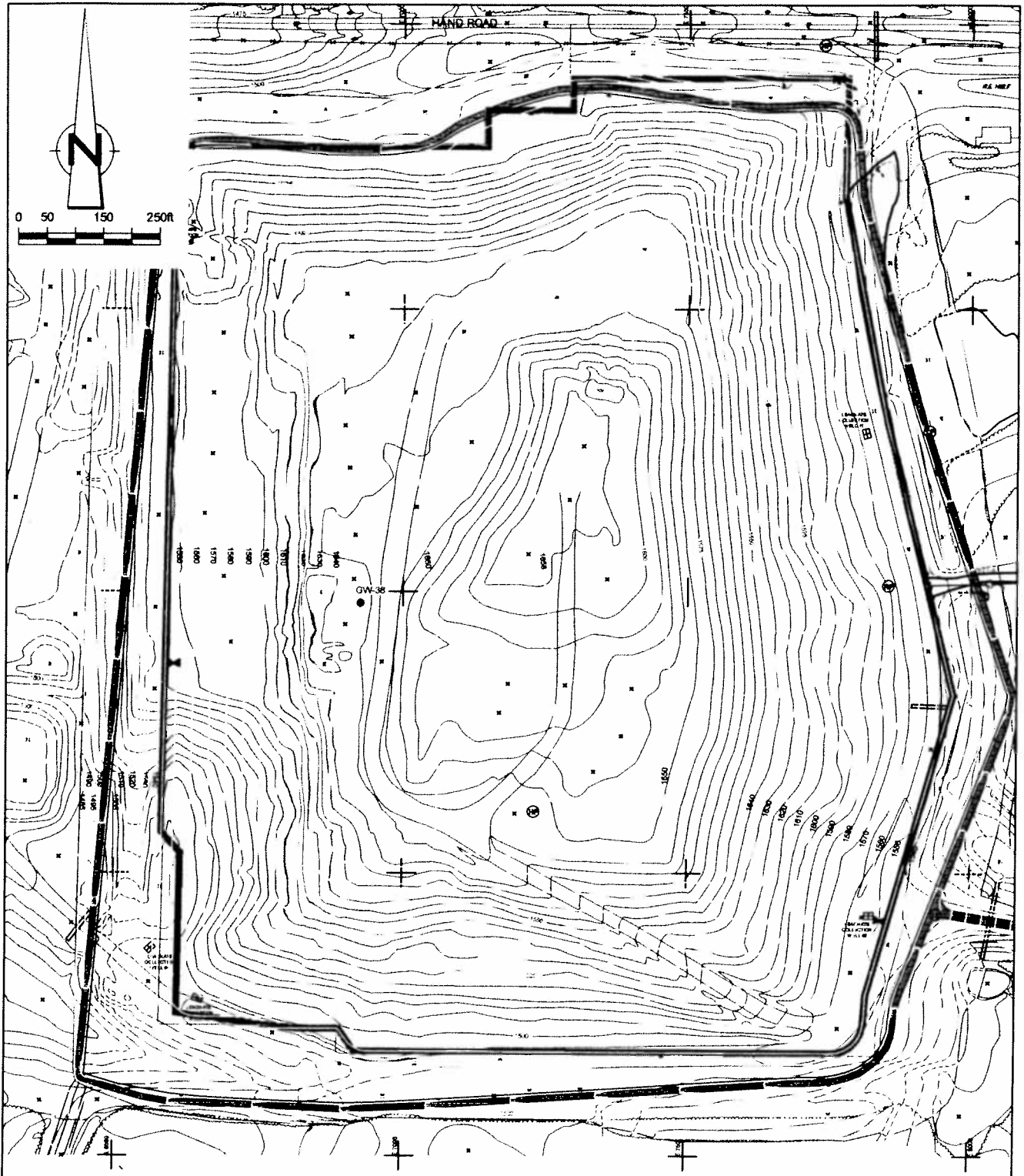
A handwritten signature in cursive script, reading 'William F. Doebler IV', is written in dark ink.

William F. Doebler IV

WFD/cs/2

Attachments

FIGURE



**LEGEND**

- LOCATION OF MONITORING EXCEEDENCE



figure 1

**Q-1 LANDFILL SURFACE  
SCAN EXCEEDANCES  
WASTE MANAGEMENT OF NEW YORK  
*Chaffee, New York***

ATTACHMENT 1  
MONITORING INSTRUMENT PERFORMANCE EVALUATION AND CALIBRATION  
DOCUMENTATION



**CONESTOGA-ROVERS  
& ASSOCIATES**

Project Number: 55710

Client: WMNY

Date: 3-23-09

Operator Name: Bryan Szalda

Facility: Chaffee Landfill

Instrument ID: IE TVA-1000 FID (#B18896B)

Calibration Gas Conc.: 500 ppm

90% of Calib. Gas Conc.: 450 ppm

<u>Trial No.</u>	<u>Time to reach 90% gas value</u>	
1	<u>4</u>	seconds
2	<u>4</u>	seconds
3	<u>4</u>	seconds
Average	<u>4</u>	seconds

NOTE: Must be < 30 seconds

<u>Trial No.</u>	<u>Meter Reading After Zero Gas *</u>	<u>Meter Reading After Methane Gas</u>	<u>Difference Between Calibration Gas and Meter Reading</u>
1	<u>0</u> ppm	<u>509</u> ppm	<u>9</u> ppm
2	<u>0</u> ppm	<u>520</u> ppm	<u>20</u> ppm
3	<u>0</u> ppm	<u>516</u> ppm	<u>16</u> ppm

/ Average Difference: 15 ppm

$$\begin{aligned} \text{Calibration Precision} &= \text{Average Difference} / \text{Calibration Gas Conc.} \times 100\% \\ &= \frac{15}{500} \times 100\% \\ &= 3.0\% \end{aligned}$$

\* If results are > zero (0 ppm) then an internal calibration is required



CONESTOGA-ROVERS & ASSOCIATES

Project Number: 55710

Client: WMNY

**General Information:**

Date: 3-23-09

Operator Name: Bryan Szalda

Facility: Chaffee Landfill

Instrument ID: JE TVA-1000 FID (#B18896B)

Wind Direction: N  NE E SE S SW W NW (circle one)

Approximate Wind Speed 0-5 mph

General Weather: 22 °F,

clear, partly cloudy, overcast, \_\_\_\_\_ (circle one or write in)

no precip, drizzle, rain, snow, \_\_\_\_\_ (circle one or write in)

**Calibration Information:**

Calibration Gas Conc.: 500 ppm

Conduct internal zero calibration? Yes  No (circle one)

Instrument reading after calibration: 500 ppm (should be same as above)

Time of Calibration: 9:20 pm (fill in and pick one)

**Background Concentration Information:**

Background concentration upwind of site: 2.0 ppm

Background concentrations downwind of site: 6.4 ppm

Average: 4.2 ppm

**Location of background readings**

Upwind: NE of Closed Landfill near old greenhouse

Downwind: SW of Closed Landfill near access road



**CONESTOGA-ROVERS  
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Project Number: 55710

Client: WMNY

Date: 4-21-09

Operator Name: Bryan Szalda

Facility: Chaffee Landfill

Instrument ID: IE TVA-1000 FID (#B18278)

Calibration Gas Conc.: 500 ppm

90% of Calib. Gas Conc.: 450 ppm

<u>Trial No.</u>	<u>Time to reach 90% gas value</u>	
1	<u>4</u>	seconds
2	<u>3</u>	seconds
3	<u>3</u>	seconds
Average	<u>3.33</u>	seconds

NOTE: Must be < 30 seconds

<u>Trial No.</u>	<u>Meter Reading After Zero Gas *</u>	<u>Meter Reading After Methane Gas</u>	<u>Difference Between Calibration Gas and Meter Reading</u>
1	<u>0</u> ppm	<u>498</u> ppm	<u>2</u> ppm
2	<u>0</u> ppm	<u>499</u> ppm	<u>1</u> ppm
3	<u>0</u> ppm	<u>497</u> ppm	<u>3</u> ppm

Average Difference: 2.0 ppm

$$\begin{aligned}
 \text{Calibration Precision} &= \text{Average Difference} / \text{Calibration Gas Conc.} \times 100\% \\
 &= \frac{2.0}{500} \times 100\% \\
 &= \underline{0.4} \%
 \end{aligned}$$

\* If results are > zero (0 ppm) then an internal calibration is required



CONESTOGA-ROVERS & ASSOCIATES

Project Number: 55710

Client: WMNY

**General Information:**

Date: 4-21-09

Operator Name: Bryan Szalda

Facility: Chaffee Landfill

Instrument ID: JETVA-1006 F10 (#B182788)

Wind Direction: N NE E SE S (SW) W NW (circle one)

Approximate Wind Speed 5-10 mph

General Weather: 48 °F, clear, (partly cloudy) overcast, \_\_\_\_\_ (circle one or write in)

\* rained overnight

(no precip.) drizzle, rain, snow, \_\_\_\_\_ (circle one or write in)

**Calibration Information:**

Calibration Gas Conc.: 500 ppm

Conduct internal zero calibration? Yes (No) (circle one)

Instrument reading after calibration: 499 ppm (should be same as above)

Time of Calibration: 9:15 (am) pm (fill in and pick one)

**Background Concentration Information:**

Background concentration upwind of site: 1.65 ppm

Background concentrations downwind of site: 6.10 ppm

Average: 3.88 ppm

**Location of background readings**

Upwind: SW of Closed LF near access road

Downwind: NE of Closed LF near old greenhouse

ATTACHMENT 2  
MONITORING EXCEEDANCE DESCRIPTIONS



CONESTOGA-ROVERS & ASSOCIATES

Project Number: 55710

Client: WMNY

Initial Monitoring Exceedance:

Date: 3-23-09 Time: 10:15 am pm Monitoring Technician Initials: BPS  
Instrument reading - Background reading: 840 ppm - 4.2 ppm = 836 ppm

Location of monitored exceedance (include description of field marker used):

Base of GW-38R ; marked with red flag  
Describe cover maintenance or adjustments to the vacuum of adjacent wells to increase gas collection in vicinity of measured exceedance before remonitoring in 10 days: The lateral to GW-38R was pinched, causing a reduced vacuum on the gas well; the area around the well was excavated, the lateral was repaired, and soil was backfilled and compacted around GW-38R.

Remonitor location within 10 calendar days of initial exceedance:

Date: 3-27-09 Time: 10:10 am pm Monitoring Technician Initials: BPS  
Instrument reading - Background reading: 43.1 ppm - 2.1 ppm = 41.0 ppm

If 10-day remonitoring shows an exceedance, describe additional corrective action taken before remonitoring again within 10 days:

If the 10 day remonitoring is <500 ppm, remonitor 1 month from initial exceedance:

Date: 4-21-09 Time: 10:45 am pm Monitoring Technician Initials: BPS  
Instrument reading - Background reading: 13.0 ppm - 3.9 ppm = 9.1 ppm

If the 1 month remonitoring is <500 ppm, resume normal quarterly monitoring.

If the 1 month remonitoring shows an exceedance, describe additional corrective action taken before remonitoring again within 10 days:

Remonitor location within 10 calendar days of 2nd exceedance:

Date: \_\_\_\_\_ Time: \_\_\_\_\_ am pm Monitoring Technician Initials: \_\_\_\_\_  
Instrument reading - Background reading: \_\_\_\_\_ ppm - \_\_\_\_\_ ppm = \_\_\_\_\_ ppm

If the 10 day remonitoring is <500 ppm, remonitor 1 month from initial exceedance:

Date: \_\_\_\_\_ Time: \_\_\_\_\_ am pm Monitoring Technician Initials: \_\_\_\_\_  
Instrument reading - Background reading: \_\_\_\_\_ ppm - \_\_\_\_\_ ppm = \_\_\_\_\_ ppm

If the 1 month remonitoring is <500 ppm, resume normal quarterly monitoring.

If the 1 month remonitoring shows an exceedance, describe additional corrective action taken before remonitoring again within 10 days:

(use additional forms if necessary)\*

\*If remonitoring shows 3 consecutive exceedances within a quarterly period a new well or other collection device must be installed within 120 days of initial exceedance or alternative remedies/timelines may be submitted to the Administrator for approval. Further monitoring is not necessary until the remedy is completed.

