



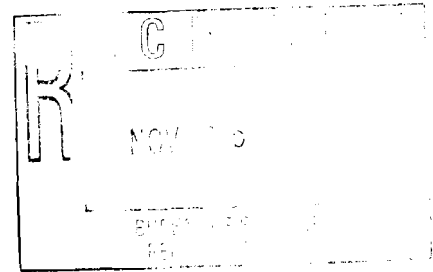
TOWN OF HUNTINGTON

FRANK P. PETRONE, *Supervisor*

ENVIRONMENTAL WASTE MANAGEMENT

November 12, 2004

John Strang, P. E.
Environmental Engineer
NYS Dept. of Environmental Conservation
Division of Environmental Remediation
Bureau of Hazardous Site Control, 11th Floor
625 Broadway
Albany, New York 12233-7014



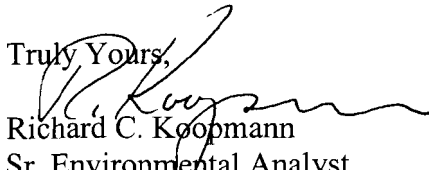
Re. Huntington/East Northport Landfill
NYSDEC Site # 1-52-040

Dear John,

As required by the Record of Decision for the above referenced site, transmitted herewith please find a copy of the "Landfill Gas and Control System Monitoring Report" for the East Northport Landfill for the months of August and September 2004.

Please do not hesitate to call me if you have any questions or comments.

Truly Yours,


Richard C. Koopmann
Sr. Environmental Analyst

cc: M. Laux, Deputy Director, DEWM, w/encl.(1)
B. Tuohey, DEWM, w/encl.(1)
H. Zeiss, DEWM, w/encl.(1)
J.J. Anastasia II, TOH, Director, DMS
P. Wolpensinger, TOH, Director, DES, w/encl.(1)
T. Chambers, Covanta Energy, w/encl.(1)
S. Farkas, NYSDEC, w/encl.(2)

RCK:rk
Encl. (2)



TOWN OF HUNTINGTON

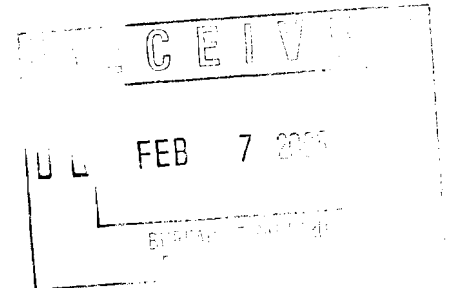
FRANK P. PETRONE, *Supervisor*

ENVIRONMENTAL WASTE MANAGEMENT

February 3, 2005

Mr. John Strang, P. E.
NYS Dept. of Environmental Conservation
Division of Environmental Remediation
Bureau of Hazardous Site Control, 11th Floor
625 Broadway
Albany, New York 12233-7014

Re. Huntington/East Northport Landfill
NYSDEC Site # 1-52-040

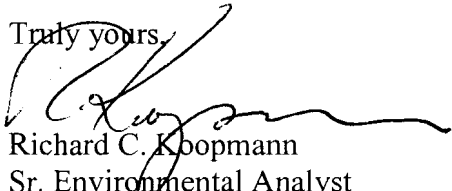


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Please do not hesitate to call me if you have any questions or comments.

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Richard C. Koopmann
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S. Farkas, NYSDEC, w/encl.(2)

**Landfill Gas and Control System Monitoring
Town of Huntington East Northport Landfill
East Northport, New York
July, 2004**

Prepared for:

**Town of Huntington Department of Environmental Waste Management
100 Main Street
Huntington, New York 11743**

Prepared by:

**R & C Formation, Ltd.
30 Broadway, Suite 6
Massapequa, New York 11758**

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Landfill Gas and Control System Monitoring Town of Huntington East Northport Landfill East Northport, New York July, 2004

Introduction

Presented herein are the results of landfill gas and control system monitoring activities performed July, 2004 at the Town of Huntington East Northport Landfill (as stipulated by the New York State Department of Environmental Conservation).

The primary landfill gas migration control system consists of thirty active landfill gas control wells connected - via a single header pipe forming a complete loop around the 44 acre East Northport Landfill - to one blower station. Landfill gas monitoring wells (consisting of 3-4 probes screened from approximately 5-70 feet below grade) are situated outside of the aforementioned header pipe, thereby providing a means to verify the control system's efficacy. Separate landfill gas control and monitoring systems are located at adjacent Animal Control and Resource Recovery Facilities.

Figure 1 illustrates the landfill area and pertinent components of the landfill gas monitoring and control system. The scope-of-work completed (per our agreement with the Town of Huntington Department of Environmental Waste Management dated August 15, 2003) precedes a summary of results. A discussion of methane monitoring data - with an emphasis on trends and occurrence - and the system's physical and operating condition, follows.

Scope-of-Work

The scope-of-work includes performance of the following on a monthly basis:

- 1) Monitoring of all probes in 43 landfill monitoring wells and up to 5 probes around the Town Animal Control Facility for methane gas and gas pressure.
- 2) Monitoring of 30 methane control wells and blower station for temperature, flow rate, vacuum, methane and oxygen (balance of the control system to be checked and adjustment to wells and to blower intake made, if necessary).

3) Examination of 5 condensate traps in the control system for proper operation and water accumulation.

4) Noting of any problems, damage, missing parts etc. at each monitoring well, methane control well, condensate trap, Animal Control Facility probes and blower station.

Summary of Results

General

Reported monthly monitoring activities were performed July 30, 2004. Climatic conditions for the monitoring period are as follows:

Temperature: 74 (°F); Barometric pressure: 30.13 (in. Hg); Relative Humidity: 91.0%; Precipitation: 0.00 inches; Wind Speed & Direction: 7.8 mph, southwesterly.

Monitoring Wells

A summary of measured and recorded landfill gas monitoring well data is presented on Table 1. As shown, methane was not detected throughout the entire monitoring well network.

LFG Control Wells

Table 2 presents a summary of measured and recorded landfill gas control well data - including the system's blower station where 2 "inlet" measuring points (Blower Station 1 & 2) and 1 "outlet" measuring point (Blower Station 3) are located. As shown on Table 2, control well vacuum values (i.e., negative pressure), a direct indicator of the system's balance, range from -0.2 - -4.0 (in. H₂O). "Extracted" methane values range from 0.0 - 8.1 %.

Condensate Traps

Standing water measured within condensate traps CD-1 (1.1 feet), CD-2 (1.7 feet), CD-3 (1.4 feet), CD-4 (7.2 feet) and CD-5 (0.1 feet) was evacuated, as per usual, upon the completion of monitoring activities.

Discussion

Methane Monitoring Data

Table 3 summarizes methane concentrations detected at landfill gas monitoring wells throughout the period of record from October, 1999 through July, 2004. As shown on Table 3, methane has been detected sporadically and at low levels at 14 monitoring wells, including at Animal Control Facility monitoring well AS-NE, where, it was last detected at a concentration of 0.1 % during April, 2004 monitoring activities. The highest recorded value of 5.0 % was measured at this well during March, 2001 monitoring activities.

Methane has not been detected at monitoring wells associated with the primary landfill gas migration control system since a slight concentration (0.1 %) was recorded at monitoring well MW-49 during June, 2002 monitoring activities. The sporadic nature of low-level methane detections indicates that landfill gas control systems relative to both the Animal Control Facility and East Northport Landfill continue to function effectively.

Table 4 summarizes methane concentrations detected at landfill gas control wells during the above-mentioned period of record. As shown on Table 4, with the exception of minor anomalies (e.g., control well N-2: October, 2001; February, 2002), measured values are generally consistent throughout the 58 month period.

Physical and Operating Condition

As evidenced by measured and recorded landfill gas monitoring well data, the Town of Huntington East Northport Landfill primary landfill gas control system continues to successfully negate the off-site migration of methane. Although vacuum values at the northern-most portion of the system remain comparatively low, this state, as indicated by historic data presented in Appendix 1, has existed throughout the period of record.

As reported previously, apparent water accumulation within laterals of "northern" control wells N-1 and N-2 was corrected July 3, 2002 (by way of lowering respective well-heads). As shown in Appendix 1, an initial vacuum increase at these control wells, decreased for a period (January-June, 2003). The previously reported return to increased vacuum levels, indicated during July, 2003 monitoring activities, remains.

The physical condition of system monitoring wells and control wells is noted on Tables 1 and 2, respectively. As shown on Tables 1 and 2, neither monitoring nor control wells are currently damaged.

Alternate blower station pump # 2 was in operation during this reported event and all control wells continue to be set in the full-open-position (since April, 2003). As previously reported, this full-open-position will be maintained for an evaluation period and modified if/as necessary.

Recommendations

- * In the event that methane is detected at any monitoring well associated with the primary landfill gas migration control system, recommence the monitoring of off and on-site structures.
- * Continue monitoring control wells N-1 and N-2 on a monthly basis, to assess the long-term affect of previously reported well-head modifications on future vacuum levels at the northern-most portion of the primary landfill gas system.
- * Assess occurrence of methane versus landfill area (i.e., identify dominant landfill gas production zones).
- * Continue assessment of potential impact of all control valves at full-open-position on system-wide vacuum/methane levels.

Table 1
Landfill Gas Monitoring Well Data
Town of Huntington East Northport Landfill, East Northport, New York
Measured July 30, 2004

Well No.	Probe Pressure (in. H ₂ O)				Methane 0-100% (Volume)				Condition
	A	B	C	D	A	B	C	D	
MW-A	-0.1	0.0			0.0	0.0			
MW-B	-0.1	-0.1			0.0	0.0			
MW-2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-4	-0.1	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	
MW-5	-0.1	-0.1	-0.1		0.0	0.0	0.0		
MW-6	0.0	0.0	0.0		0.0	0.0	0.0		
MW-7	0.0	-0.2	0.0		0.0	0.0	0.0		
MW-8	0.0	0.0	0.0		0.0	0.0	0.0		
MW-9	-0.2	0.0	-0.2		0.0	0.0	0.0		
MW-10	0.0	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	
MW-11	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-12	0.0	0.0	0.0		0.0	0.0	0.0		
MW-13	0.0	-0.1	-0.3		0.0	0.0	0.0		
MW-15	-0.1	-0.1	0.0		0.0	0.0	0.0		
MW-16	-0.1	0.0	0.0		0.0	0.0	0.0		
MW-17	0.0	0.0	0.0		0.0	0.0	0.0		
MW-18	0.0	-0.1	-0.1		0.0	0.0	0.0		
MW-19	-0.3	-0.3	0.0	-0.3	0.0	0.0	0.0	0.0	
MW-20	-0.3	-0.3	-0.3		0.0	0.0	0.0		
MW-21	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	
MW-22	-0.2	0.0	0.0		0.0	0.0	0.0		

Table 1 (continued)

Well No.	Probe Pressure (in. H ₂ O)				Methane 0-100% (Volume)				Condition
	A	B	C	D	A	B	C	D	
MW-23	0.0	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	
MW-24	0.0	0.0	-0.1		0.0	0.0	0.0		
MW-25	-0.4	-0.2	-0.1		0.0	0.0	0.0		
MW-26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-27	-0.1	0.0	0.0		0.0	0.0	0.0		
MW-28	0.0	0.0	0.0		0.0	0.0	0.0		
MW-37	0.0	0.0	0.0		0.0	0.0	0.0		
MW-38	0.0	0.0	0.0		0.0	0.0	0.0		
MW-39	0.0	0.0	0.0		0.0	0.0	0.0		
MW-40	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	
MW-41	0.0	0.0	0.0		0.0	0.0	0.0		
MW-42	-0.1	-0.1	-0.1		0.0	0.0	0.0		
MW-43	0.0	0.0	0.0		0.0	0.0	0.0		
MW-44	0.0	0.0	0.0		0.0	0.0	0.0		
MW-45	-0.1	-0.2	-0.2		0.0	0.0	0.0		
MW-46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-47	0.0	0.0	0.0		0.0	0.0	0.0		
MW-48	0.0	-0.1	-0.1		0.0	0.0	0.0		
MW-49	0.0	-0.1	0.0		0.0	0.0	0.0		
MW-51	0.0	-0.2	0.0		0.0	0.0	0.0		
AS-NW	0.0				0.0				
AS-NE	0.0				0.0				
AS-SW	0.0				0.0				
AS-SC	-0.1				0.0				
AS-SE	-0.1				0.0				

D - Deepest Probe

C - Deep Probe

B - Middle Probe

A - Shallow Probe

Shading indicates the well is not equipped with that particular probe.

Table 2
Landfill Gas Control Well Data
Town of Huntington East Northport Landfill, East Northport, New York
Measured July 30, 2004

Well No.	Temp (°F)	Flow Rate (ft ³ /min)	Vacuum (in. H ₂ O)	Methane 0-100 % (Volume)	Oxygen % in Air	Condition
CWI-4	80.5	158.4	-2.4	0.2	18.0	
CWI-5	84.1	40.9	-2.5	0.4	15.2	
CWI-6	77.3	44.2	-2.8	0.4	15.8	
CWI-7	89.3	32.7	-2.7	0.6	13.5	
CWII-1	85.4	65.3	-4.0	8.1	13.6	
CWII-2	93.2	59.7	-2.2	0.7	12.5	
CWII-3	90.5	33.8	-2.4	3.1	14.8	
CWII-4	84.3	18.9	-2.6	0.6	18.0	
CWII-5	82.7	19.6	-2.3	0.6	16.8	
CWII-6	85.1	37.6	-1.7	2.2	15.2	
CWII-7	80.1	31.4	-1.0	0.2	16.2	
CWII-8	81.2	39.2	-0.5	0.2	18.0	
CWII-9	79.3	45.9	-0.9	0.6	17.0	
NW-1	61.6	97.2	-2.2	0.0	19.8	
NW-2	60.1	95.1	-2.8	0.0	18.5	
NW-3	59.2	155.0	-2.1	0.0	19.0	
NW-4	60.3	161.0	-1.9	0.0	19.2	
NW-5	60.6	185.0	-1.6	0.0	20.9	
NW-6	68.2	176.2	-2.0	0.0	20.6	
Ext-1	58.9	10.8	-0.9	0.9	20.0	
Ext-2	71.3	34.2	-0.9	0.0	18.5	
Ext-3	72.4	49.8	-1.6	0.0	18.5	
Ext-4	71.2	51.0	-1.7	0.1	18.5	
Ext-5	68.9	62.0	-1.3	0.0	19.7	
N-1	73.2	41.4	-0.8	0.0	19.0	
N-2	80.6	32.1	-0.8	0.0	19.0	
N-3	69.1	20.9	-0.2	0.0	20.6	
N-4	71.4	25.6	-0.2	0.0	20.6	
N-5	74.0	22.7	-0.3	0.0	19.8	
N-6	71.7	31.2	-0.9	0.0	19.0	
Blower Station - 1	72.3	3,020.0	-3.9	0.7	18.6	
Blower Station - 2	72.3	3,110.0	-18.0	0.7	18.6	
Blower Station - 3	84.9	5,000.0	+1.9	0.7	18.6	

**Landfill Gas and Control System Monitoring
Town of Huntington East Northport Landfill
East Northport, New York
August, 2004**

Prepared for:

**Town of Huntington Department of Environmental Waste Management
100 Main Street
Huntington, New York 11743**

Prepared by:

**R & C Formation, Ltd.
30 Broadway, Suite 6
Massapequa, New York 11758**

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Appendix

Appendix 1. Landfill Gas Control Well Vacuum Data	
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Landfill Gas and Control System Monitoring Town of Huntington East Northport Landfill East Northport, New York August, 2004

Introduction

This report presents the results of landfill gas and control system monitoring activities performed August, 2004 at the Town of Huntington East Northport Landfill (as stipulated by the New York State Department of Environmental Conservation).

The primary landfill gas migration control system consists of thirty active landfill gas control wells connected - via a single header pipe forming a complete loop around the 44 acre East Northport Landfill - to one blower station. Landfill gas monitoring wells (consisting of 3-4 probes screened from approximately 5-70 feet below grade) are situated outside of the aforementioned header pipe, thereby providing a means to verify the control system's efficacy. Separate landfill gas control and monitoring systems are located at adjacent Animal Control and Resource Recovery Facilities.

The landfill area and pertinent components of the landfill gas monitoring and control system are depicted in Figure 1. The scope-of-work completed (per our agreement with the Town of Huntington Department of Environmental Waste Management dated August 15, 2003) precedes a summary of results. A discussion of methane monitoring data - with an emphasis on trends and occurrence - and the system's physical and operating condition, follows.

Scope-of-Work

The scope-of-work includes performance of the following on a monthly basis:

- 1) Monitoring of all probes in 43 landfill monitoring wells and up to 5 probes around the Town Animal Control Facility for methane gas and gas pressure.
- 2) Monitoring of 30 methane control wells and blower station for temperature, flow rate, vacuum, methane and oxygen (balance of the control system to be checked and adjustment to wells and to blower intake made, if necessary).

3) Examination of 5 condensate traps in the control system for proper operation and water accumulation.

4) Noting of any problems, damage, missing parts etc. at each monitoring well, methane control well, condensate trap, Animal Control Facility probes and blower station.

Summary of Results

General

Reported monthly monitoring activities were performed August 31, 2004. Climatic conditions for the monitoring period are as follows:

Temperature: 77 (°F); Barometric pressure: 29.96 (in. Hg); Relative Humidity: 78.5%; Precipitation: 0.65 inches; Wind Speed & Direction: 8.9 mph, northerly.

Monitoring Wells

Table 1 presents a summary of measured and recorded landfill gas monitoring well data. As shown on Table 1, methane was not detected throughout the entire monitoring well network.

LFG Control Wells

A summary of measured and recorded landfill gas control well data - including the system's blower station where 2 "inlet" measuring points (Blower Station 1 & 2) and 1 "outlet" measuring point (Blower Station 3) are located - is presented on Table 2. As shown on Table 2, control well vacuum values (i.e., negative pressure), a direct indicator of the system's balance, range from -0.1 - -4.2 (in. H₂O). "Extracted" methane values range from 0.0 - 8.0 %.

Condensate Traps

The minimal volume of standing water measured within condensate traps CD-1 (trace), CD-2 (trace), CD-3 (trace), CD-4 (0.3 feet) and CD-5 (trace) was evacuated, as per usual, upon the completion of monitoring activities.

Discussion

Methane Monitoring Data

A summary of methane concentrations detected at landfill gas monitoring wells throughout the period of record from October, 1999 through August, 2004 is presented on Table 3. As shown on Table 3, methane has been detected sporadically and at low levels at 14 monitoring wells, including at Animal Control Facility monitoring well AS-NE, where, it was last detected at a concentration of 0.1 % during April, 2004 monitoring activities. The highest recorded methane concentration of 5.0 % was measured at this well during March, 2001 monitoring activities.

Methane has not been detected at monitoring wells associated with the primary landfill gas migration control system since a slight concentration (0.1 %) was recorded at monitoring well MW-49 during June, 2002 monitoring activities. The sporadic nature of low-level methane detections indicates that landfill gas control systems relative to both the Animal Control Facility and East Northport Landfill continue to function effectively.

Table 4 summarizes methane concentrations detected at landfill gas control wells during the above-mentioned period of record. As shown, with the exception of minor anomalies (e.g., control well N-2: October, 2001; February, 2002), measured values are generally consistent throughout the 59 month period.

Physical and Operating Condition

As evidenced by measured and recorded landfill gas monitoring well data, the Town of Huntington East Northport Landfill primary landfill gas control system continues to successfully negate the off-site migration of methane. Although vacuum values at the northern-most portion of the system remain comparatively low, this state, as indicated by historic data presented in Appendix 1, has existed throughout the period of record.

As reported previously, apparent water accumulation within laterals of "northern" control wells N-1 and N-2 was corrected July 3, 2002 (by way of lowering respective well-heads). As shown in Appendix 1, an initial vacuum increase at these control wells, decreased for a period (January-June, 2003). A return to increased vacuum levels, indicated during July, 2003 monitoring activities, continues.

R & C Formation, Ltd.

The physical condition of system monitoring wells and control wells is noted on Tables 1 and 2, respectively. As shown on Tables 1 and 2, neither monitoring nor control wells are currently damaged.

Alternate blower station pump # 2 was in operation during this reported event and all control wells continue to be set in the full-open-position (since April, 2003). As reported previously, this full-open-position will be maintained for an evaluation period and modified if/as necessary.

Recommendations

- * In the event that methane is detected at any monitoring well associated with the primary landfill gas migration control system, recommence the monitoring of off and on-site structures.
- * Continue monitoring control wells N-1 and N-2 on a monthly basis, to assess the long-term affect of previously reported well-head modifications on future vacuum levels at the northern-most portion of the primary landfill gas system.
- * Assess occurrence of methane versus landfill area (i.e., identify dominant landfill gas production zones).
- * Continue assessment of potential impact of all control valves at full-open-position on system-wide vacuum/methane levels.

Table 1
Landfill Gas Monitoring Well Data
Town of Huntington East Northport Landfill, East Northport, New York
Measured August 31, 2004

Well No.	Probe Pressure (in. H ₂ O)				Methane 0-100% (Volume)				Condition
	A	B	C	D	A	B	C	D	
MW-A	0.0	0.0			0.0	0.0			
MW-B	0.0	-0.1			0.0	0.0			
MW-2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-4	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	
MW-5	0.0	0.0	-0.1		0.0	0.0	0.0		
MW-6	0.0	0.0	0.0		0.0	0.0	0.0		
MW-7	0.0	-0.1	0.0		0.0	0.0	0.0		
MW-8	0.0	0.0	0.0		0.0	0.0	0.0		
MW-9	-0.1	-0.1	-0.1		0.0	0.0	0.0		
MW-10	0.0	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	
MW-11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-12	0.0	0.0	0.0		0.0	0.0	0.0		
MW-13	0.0	-0.1	-0.2		0.0	0.0	0.0		
MW-15	0.0	-0.1	0.0		0.0	0.0	0.0		
MW-16	0.0	0.0	0.0		0.0	0.0	0.0		
MW-17	0.0	0.0	0.0		0.0	0.0	0.0		
MW-18	0.0	-0.1	0.0		0.0	0.0	0.0		
MW-19	-0.1	-0.1	0.0	-0.2	0.0	0.0	0.0	0.0	
MW-20	-0.2	-0.3	-0.3		0.0	0.0	0.0		
MW-21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-22	-0.1	0.0	0.0		0.0	0.0	0.0		

Table 1 (continued)

Well No.	Probe Pressure (in. H2O)				Methane 0-100% (Volume)				Condition
	A	B	C	D	A	B	C	D	
MW-23	0.0	0.0	-0.1	-0.1	0.0	0.0	0.0	0.0	
MW-24	0.0	-0.1	-0.1		0.0	0.0	0.0		
MW-25	-0.3	-0.1	-0.1		0.0	0.0	0.0		
MW-26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-27	0.0	0.0	0.0		0.0	0.0	0.0		
MW-28	0.0	0.0	0.0		0.0	0.0	0.0		
MW-37	0.0	0.0	0.0		0.0	0.0	0.0		
MW-38	0.0	0.0	0.0		0.0	0.0	0.0		
MW-39	0.0	0.0	0.0		0.0	0.0	0.0		
MW-40	0.0	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	
MW-41	0.0	0.0	0.0		0.0	0.0	0.0		
MW-42	0.0	-0.1	0.0		0.0	0.0	0.0		
MW-43	0.0	0.0	0.0		0.0	0.0	0.0		
MW-44	0.0	0.0	0.0		0.0	0.0	0.0		
MW-45	-0.1	-0.1	-0.1		0.0	0.0	0.0		
MW-46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-47	0.0	0.0	0.0		0.0	0.0	0.0		
MW-48	0.0	0.0	-0.1		0.0	0.0	0.0		
MW-49	0.0	0.0	0.0		0.0	0.0	0.0		
MW-51	0.0	-0.1	0.0		0.0	0.0	0.0		
AS-NW	0.0				0.0				
AS-NE	-0.1				0.0				
AS-SW	0.0				0.0				
AS-SC	0.0				0.0				
AS-SE	-0.1				0.0				

A - Shallow Probe B - Middle Probe C - Deep Probe D - Deepest Probe

Shading indicates the well is not equipped with that particular probe.

Table 2
Landfill Gas Control Well Data
Town of Huntington East Northport Landfill, East Northport, New York
Measured August 31, 2004

Well No.	Temp (°F)	Flow Rate (ft ³ /min)	Vacuum (in. H ₂ O)	Methane 0-100 % (Volume)	Oxygen % in Air	Condition
CWI-4	81.2	121.3	-2.8	0.8	18.4	
CWI-5	85.6	16.7	-2.0	1.2	16.5	
CWI-6	78.2	38.2	-2.5	1.0	16.8	
CWI-7	88.2	30.1	-2.6	0.8	14.0	
CWII-1	86.3	62.6	-4.2	8.0	14.0	
CWII-2	90.5	50.2	-2.4	0.8	13.2	
CWII-3	89.7	32.4	-2.0	4.2	15.3	
CWII-4	81.2	19.1	-2.7	1.0	18.0	
CWII-5	80.1	15.4	-2.5	0.8	17.2	
CWII-6	84.2	38.0	-2.0	2.8	16.0	
CWII-7	82.1	29.6	-1.0	0.4	17.0	
CWII-8	80.7	41.2	-0.6	0.2	17.8	
CWII-9	78.2	44.1	-1.0	0.4	16.8	
NW-1	69.1	98.1	-2.4	0.0	19.8	
NW-2	61.4	97.1	-2.6	0.0	19.8	
NW-3	60.1	152.0	-2.0	0.0	19.8	
NW-4	60.0	85.5	-1.9	0.0	20.0	
NW-5	60.1	125.7	-1.8	0.0	20.0	
NW-6	60.6	101.0	-1.8	0.0	19.9	
Ext-1	57.3	12.5	-0.8	1.0	20.0	
Ext-2	70.5	29.3	-1.0	0.0	19.0	
Ext-3	71.5	48.2	-1.8	0.0	19.0	
Ext-4	70.3	49.2	-1.8	0.1	19.0	
Ext-5	66.3	58.3	-1.5	0.0	19.8	
N-1	72.1	40.3	-1.0	0.0	19.0	
N-2	78.6	30.2	-0.8	0.0	19.0	
N-3	68.2	19.0	-0.1	0.0	20.8	
N-4	70.1	22.4	-0.2	0.0	20.8	
N-5	71.9	20.2	-0.4	0.0	20.0	
N-6	69.9	29.3	-1.0	0.0	19.8	
Blower Station - 1	73.4	2,187.0	-3.8	0.8	18.5	
Blower Station - 2	73.4	3,200.0	-15.6	0.8	18.5	
Blower Station - 3	85.1	4,200.0	1.7	0.8	18.5	

**Landfill Gas and Control System Monitoring
Town of Huntington East Northport Landfill
East Northport, New York
September, 2004**

Prepared for:

**Town of Huntington Department of Environmental Waste Management
100 Main Street
Huntington, New York 11743**

Prepared by:

**R & C Formation, Ltd.
30 Broadway, Suite 6
Massapequa, New York 11758**

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Landfill Gas and Control System Monitoring Town of Huntington East Northport Landfill East Northport, New York September, 2004

Introduction

Presented herein are the results of landfill gas and control system monitoring activities performed September, 2004 at the Town of Huntington East Northport Landfill (as stipulated by the New York State Department of Environmental Conservation).

The primary landfill gas migration control system consists of thirty active landfill gas control wells connected - via a single header pipe forming a complete loop around the 44 acre East Northport Landfill - to one blower station. Landfill gas monitoring wells (consisting of 3-4 probes screened from approximately 5-70 feet below grade) are situated outside of the aforementioned header pipe, thereby providing a means to verify the control system's efficacy. Individual landfill gas control and monitoring systems are located at adjacent Animal Control and Resource Recovery Facilities.

Figure 1 depicts the landfill area and pertinent components of the landfill gas monitoring and control system. The scope-of-work completed (per our agreement with the Town of Huntington Department of Environmental Waste Management dated August 15, 2003) precedes a summary of results. A discussion of methane monitoring data - with an emphasis on trends and occurrence - and the system's physical and operating condition, follows.

Scope-of-Work

The scope-of-work includes performance of the following on a monthly basis:

- 1) Monitoring of all probes in 43 landfill monitoring wells and up to 5 probes around the Town Animal Control Facility for methane gas and gas pressure.
- 2) Monitoring of 30 methane control wells and blower station for temperature, flow rate, vacuum, methane and oxygen (balance of the control system to be checked and adjustment to wells and to blower intake made, if necessary).

3) Examination of 5 condensate traps in the control system for proper operation and water accumulation.

4) Noting of any problems, damage, missing parts etc. at each monitoring well, methane control well, condensate trap, Animal Control Facility probes and blower station.

Summary of Results

General

Reported monthly monitoring activities were performed September 23, 2004. Climatic conditions for the monitoring period are as follows:

Temperature: 72 (°F); Barometric pressure: 30.19 (in. Hg); Relative Humidity: 69.5%; Precipitation: 0.0 inches; Wind Speed & Direction: 6.1 mph, northerly.

Monitoring Wells

A summary of measured and recorded landfill gas monitoring well data is presented on Table 1. As shown, methane was not detected throughout the entire monitoring well network.

LFG Control Wells

A summary of measured and recorded landfill gas control well data - including the system's blower station where 2 "inlet" measuring points (Blower Station 1 & 2) and 1 "outlet" measuring point (Blower Station 3) are located - is presented on Table 2. As shown on Table 2, control well vacuum values (i.e., negative pressure), a direct indicator of the system's balance, range from 0.0 - -3.1 (in. H₂O). "Extracted" methane values range from 0.0 - 3.7 %.

Blower Station Outlet

Analytical results relative to landfill gas sampled at Blower Station outlet "BS-3" (via a SUMMA canister using EPA Method TO-14) are summarized in Appendix 1. A copy of the original laboratory analytical report is presented in Appendix 2.

Condensate Traps

Standing water measured within condensate traps CD-1 (trace), CD-2 (1.9 feet), CD-3 (6.5 feet), CD-4 (5.8 feet) and CD-5 (0.3 feet) was evacuated, as per usual, upon the completion of monitoring activities.

Discussion

Methane Monitoring Data

Table 3 presents a summary of methane concentrations detected at landfill gas monitoring wells throughout the period of record from October, 1999 through September, 2004. As shown, methane has been detected sporadically and at low levels at 14 monitoring wells, including at Animal Control Facility monitoring well AS-NE, where it was last detected at a concentration of 0.1 % during April, 2004 monitoring activities. The highest recorded methane concentration of 5.0 % was measured at this well during March, 2001 monitoring activities.

Methane has not been detected at monitoring wells associated with the primary landfill gas migration control system since a slight concentration (0.1 %) was recorded at monitoring well MW-49 during June, 2002 monitoring activities. The sporadic nature of low-level methane detections indicates that landfill gas control systems relative to both the Animal Control Facility and East Northport Landfill continue to function effectively.

Table 4 summarizes methane concentrations detected at landfill gas control wells during the above-mentioned period of record. As shown, with the exception of minor anomalies (e.g., control well N-2: October, 2001; February, 2002), measured values are generally consistent throughout the 60 month period.

Physical and Operating Condition

As evidenced by measured and recorded landfill gas monitoring well data, the Town of Huntington East Northport Landfill primary landfill gas control system continues to successfully negate the off-site migration of methane. Although vacuum values at the northern-most portion of the system remain comparatively low, this state, as indicated by historic data presented in Appendix 3, has existed throughout the period of record.

As reported previously, apparent water accumulation within laterals of "northern" control wells N-1 and N-2 was corrected July 3, 2002 (by way of lowering respective well-

heads). As shown in Appendix 3, an initial vacuum increase at these control wells, decreased for a period (January-June, 2003). A return to increased vacuum levels, indicated during July, 2003 monitoring activities, continues.

The physical condition of system monitoring wells and control wells is noted on Tables 1 and 2, respectively. As shown on the aforementioned Tables, neither monitoring nor control wells are currently damaged.

Alternate blower station pump # 2 was in operation during this reported event and all control wells continue to be set in the full-open-position (since April, 2003). As reported previously, this full-open-position will be maintained for an evaluation period and modified if/as necessary.

Recommendations

- * In the event that methane is detected at any monitoring well associated with the primary landfill gas migration control system, recommence the monitoring of off and on-site structures.
- * Continue monitoring control wells N-1 and N-2 on a monthly basis, to assess the long-term affect of previously reported well-head modifications on future vacuum levels at the northern-most portion of the primary landfill gas system.
- * Assess occurrence of methane versus landfill area (i.e., identify dominant landfill gas production zones).
- * Continue assessment of potential impact of all control valves at full-open-position on system-wide vacuum/methane levels.

Table 1
Landfill Gas Monitoring Well Data
Town of Huntington East Northport Landfill, East Northport, New York
Measured September 23, 2004

Well No.	Probe Pressure (in. H ₂ O)				Methane 0-100% (Volume)				Condition
	A	B	C	D	A	B	C	D	
MW-A	0.0	0.0			0.0	0.0			
MW-B	0.0	0.0			0.0	0.0			
MW-2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-5	0.0	0.0	0.0		0.0	0.0	0.0		
MW-6	0.0	0.0	0.0		0.0	0.0	0.0		
MW-7	-0.1	0.0	0.0		0.0	0.0	0.0		
MW-8	-0.1	0.0	0.0		0.0	0.0	0.0		
MW-9	0.0	0.0	0.0		0.0	0.0	0.0		
MW-10	0.0	0.0	-0.1	-0.1	0.0	0.0	0.0	0.0	
MW-11	-0.1	-0.2	-0.2	0.0	0.0	0.0	0.0	0.0	
MW-12	-0.1	0.0	0.0		0.0	0.0	0.0		
MW-13	-0.3	0.0	-0.4		0.0	0.0	0.0		
MW-15	-0.1	-0.1	0.0		0.0	0.0	0.0		
MW-16	-0.3	-0.3	-0.2		0.0	0.0	0.0		
MW-17	0.0	0.0	-0.2		0.0	0.0	0.0		
MW-18	0.0	0.0	-0.3		0.0	0.0	0.0		
MW-19	-0.4	-0.4	0.0	-0.4	0.0	0.0	0.0	0.0	
MW-20	-0.3	-0.4	-0.4		0.0	0.0	0.0		
MW-21	0.0	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	
MW-22	-0.3	-0.3	-0.3		0.0	0.0	0.0		

Table 1 (continued)

Well No.	Probe Pressure (in. H2O)				Methane 0-100% (Volume)				Condition
	A	B	C	D	A	B	C	D	
MW-23	0.0	-0.1	-0.2	-0.1	0.0	0.0	0.0	0.0	
MW-24	0.0	-0.2	0.0		0.0	0.0	0.0		
MW-25	-0.5	0.0	-0.5		0.0	0.0	0.0		
MW-26	-0.2	-0.2	-0.2	-0.2	0.0	0.0	0.0	0.0	
MW-27	0.0	-0.1	0.0		0.0	0.0	0.0		
MW-28	-0.1	0.0	0.0		0.0	0.0	0.0		
MW-37	-0.1	-0.1	0.0		0.0	0.0	0.0		
MW-38	-0.1	-0.1	-0.2		0.0	0.0	0.0		
MW-39	-0.1	-0.1	-0.1		0.0	0.0	0.0		
MW-40	0.0	0.0	-0.1	-0.1	0.0	0.0	0.0	0.0	
MW-41	-0.1	-0.1	-0.1		0.0	0.0	0.0		
MW-42	0.0	-0.1	-0.1		0.0	0.0	0.0		
MW-43	0.0	0.0	0.0		0.0	0.0	0.0		
MW-44	-0.1	0.0	-0.1		0.0	0.0	0.0		
MW-45	0.0	0.0	0.0		0.0	0.0	0.0		
MW-46	0.0	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	
MW-47	0.0	0.0	0.0		0.0	0.0	0.0		
MW-48	0.0	-0.1	-0.1		0.0	0.0	0.0		
MW-49	0.0	-0.1	-0.1		0.0	0.0	0.0		
MW-51	-0.1	-0.1	0.0		0.0	0.0	0.0		
AS-NW	-0.1				0.0				
AS-NE	-0.1				0.0				
AS-SW	-0.1				0.0				
AS-SC	-0.6				0.0				
AS-SE	0.0				0.0				

A - Shallow Probe B - Middle Probe C - Deep Probe D - Deepest Probe

Shading indicates the well is not equipped with that particular probe.

APPENDIX 1

Summary of Analytical Results
Landfill Gas Sampled August 31, 2004
Volatile Organic Compounds Reported in Micrograms Per Cubic Meter

Parameter	BS-3
Benzene	7.5
Bromomethane	ND(1.9)
Carbon Tetrachloride	ND(3.1)
Chlorobenzene	16.0
Chloroethane	ND(1.3)
Chloroform	ND(2.4)
Chloromethane	3.2
1,2-Dibromoethane	ND(3.8)
1,2-Dichlorobenzene	ND(3.0)
1,3-Dichlorobenzene	ND(3.0)
1,4-Dichlorobenzene	ND(3.0)
Dichlorodifluoromethane	88.6
1,1-Dichloroethane	ND(2.0)
1,2-Dichloroethane	ND(2.0)
1,1-Dichloroethylene	ND(2.0)
cis-1,2-Dichloroethylene	ND(2.0)
1,2-Dichloropropane	ND(2.3)
cis-1,3-Dichloropropene	ND(2.3)
trans-1,3-Dichloropropene	ND(2.3)
1,2-Dichlorotetrafluoroethane (114)	21.3
Ethylbenzene	28.9
Hexachlorobutadiene	ND(5.3)
Methylene Chloride	ND(1.7)
Styrene	ND(2.1)
1,1,2,2-Tetrachloroethane	ND(3.4)
Tetrachloroethylene	14.9
Toluene	10.6
1,2,4-Trichlorobenzene	ND(3.7)
1,1,1-Trichloroethane	ND(2.7)
1,1,2-Trichloroethane	ND(2.7)
Trichloroethylene	ND(2.7)
Trichlorofluoromethane	ND(2.8)
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND(3.8)
1,2,4-Trimethylbenzene	11.0
1,3,5-Trimethylbenzene	34.9
Vinyl Chloride	ND(1.3)
m/p-Xylene	77.6
o-Xylene	53.4

Note:
 ND() = Not detected at the method detection limit

APPENDIX 2



39 Spruce Street ° 2nd Floor ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

REPORT DATE 9/13/2004

R&C FORMATION
30 BROADWAY
MASSPEQUA, NY 11758
ATTN: BOB CASSON

CONTRACT NUMBER:
PURCHASE ORDER NUMBER:

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMS-81818
JOB NUMBER: -

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: EAST NORTHPORT

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST
BS-3	04B27482	AIR	NOT SPECIFIED	to-14 ppbv
BS-3	04B27482	AIR	NOT SPECIFIED	to-14 ug/m3

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations :

AIHA 100033	AIHA ELLAP (LEAD) 100033	
MASSACHUSETTS MA0100	NEW HAMPSHIRE NELAP 2516	NEW JERSEY NELAP NJ MA007 (AIR)
CONNECTICUT PH-0567	VERMONT DOH (LEAD) No. LL015036	ARIZONA AZ0648
NEW YORK ELAP/NELAP 10899	RHODE ISLAND (LIC. No. 112)	ARIZONA AZ0654 (AIR)

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Sondra S. Kocot 09/14/04

SIGNATURE

DATE

Tod Kopyscinski
Director of Operations

Sondra S. Kocot
Quality Control Coordinator

Edward Denson
Technical Director



39 Spruce Street ° 2nd Floor ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

BOB CASSON
R&C FORMATION
30 BROADWAY
MASSPEQUA, NY 11758

9/13/2004
Page 1 of 5

Purchase Order No.:

Project Location: EAST NORTHPORT
Date Received: 9/2/2004
Field Sample #: BS-3

LIMS-BAT #: LIMS-81818
Job Number: -

Sample ID : 04B27482

Sampled : 8/31/2004
NOT SPECIFIED

Sample Matrix: AIR

Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Benzene	PPBv	2.4	09/10/04	WSD	0.5			
Bromomethane	PPBv	ND	09/10/04	WSD	0.5			
Carbon Tetrachloride	PPBv	ND	09/10/04	WSD	0.5			
Chlorobenzene	PPBv	3.5	09/10/04	WSD	0.5			
Chloroethane	PPBv	ND	09/10/04	WSD	0.5			
Chloroform	PPBv	ND	09/10/04	WSD	0.5			
Chloromethane	PPBv	1.6	09/10/04	WSD	0.5			
1,2-Dibromoethane	PPBv	ND	09/10/04	WSD	0.5			
1,2-Dichlorobenzene	PPBv	ND	09/10/04	WSD	0.5			
1,3-Dichlorobenzene	PPBv	ND	09/10/04	WSD	0.5			
1,4-Dichlorobenzene	PPBv	ND	09/10/04	WSD	0.5			
Dichlorodifluoromethane	PPBv	17.9	09/10/04	WSD	0.5			
1,1-Dichloroethane	PPBv	ND	09/10/04	WSD	0.5			
1,2-Dichloroethane	PPBv	ND	09/10/04	WSD	0.5			
1,1-Dichloroethylene	PPBv	ND	09/10/04	WSD	0.5			
cis-1,2-Dichloroethylene	PPBv	ND	09/10/04	WSD	0.5			
1,2-Dichloropropane	PPBv	ND	09/10/04	WSD	0.5			
cis-1,3-Dichloropropene	PPBv	ND	09/10/04	WSD	0.5			
trans-1,3-Dichloropropene	PPBv	ND	09/10/04	WSD	0.5			
1,2-Dichlorotetrafluoroethane (114)	PPBv	3.0	09/10/04	WSD	0.5			
Ethylbenzene	PPBv	6.7	09/10/04	WSD	0.5			
Hexachlorobutadiene	PPBv	ND	09/10/04	WSD	0.5			
Methylene Chloride	PPBv	ND	09/10/04	WSD	0.5			
Styrene	PPBv	ND	09/10/04	WSD	0.5			
1,1,2,2-Tetrachloroethane	PPBv	ND	09/10/04	WSD	0.5			
Tetrachloroethylene	PPBv	2.2	09/10/04	WSD	0.5			
Toluene	PPBv	2.8	09/10/04	WSD	0.5			
1,2,4-Trichlorobenzene	PPBv	ND	09/10/04	WSD	0.5			
1,1,1-Trichloroethane	PPBv	ND	09/10/04	WSD	0.5			
1,1,2-Trichloroethane	PPBv	ND	09/10/04	WSD	0.5			

RL = Reporting Limit

ND = Not Detected

NM = Not Measured

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

* = See end of report for comments and notes applying to this sample



39 Spruce Street ° 2nd Floor ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

BOB CASSON
R&C FORMATION
30 BROADWAY
MASSPEQUA, NY 11758

Purchase Order No.:

9/13/2004
Page 2 of 5

Project Location: EAST NORTHPORT
Date Received: 9/2/2004

LIMS-BAT #: LIMS-81818
Job Number: -

Field Sample #: BS-3

Sample ID: 04B27482

Sampled: 8/31/2004
NOT SPECIFIED

Sample Matrix: AIR

Sample Medium: SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Trichloroethylene	PPBv	ND	09/10/04	WSD	0.5			
Trichlorofluoromethane (Freon 11)	PPBv	ND	09/10/04	WSD	0.5			
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	ND	09/10/04	WSD	0.5			
1,2,4-Trimethylbenzene	PPBv	2.2	09/10/04	WSD	0.5			
1,3,5-Trimethylbenzene	PPBv	7.1	09/10/04	WSD	0.5			
Vinyl Chloride	PPBv	ND	09/10/04	WSD	0.5			
m/p-Xylene	PPBv	17.9	09/10/04	WSD	0.5			
o-Xylene	PPBv	12.3	09/10/04	WSD	0.5			

Analytical Method:
EPA TO-14A

SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

RL = Reporting Limit
ND = Not Detected
NM = Not Measured

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

* = See end of report for comments and notes applying to this sample



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BOB CASSON
R&C FORMATION
30 BROADWAY
MASSPEQUA, NY 11758

9/13/2004
Page 3 of 5

Purchase Order No.:

Project Location: EAST NORTHPORT

LIMS-BAT #: LIMS-81818

Date Received: 9/2/2004

Job Number: -

Field Sample #: BS-3

Sample ID: 04B27482

Sampled: 8/31/2004

NOT SPECIFIED

Sample Matrix: AIR

Sample Medium: SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Benzene	ug/m3	7.5	09/10/04	WSD	1.6			
Bromomethane	ug/m3	ND	09/10/04	WSD	1.9			
Carbon Tetrachloride	ug/m3	ND	09/10/04	WSD	3.1			
Chlorobenzene	ug/m3	16.0	09/10/04	WSD	2.3			
Chloroethane	ug/m3	ND	09/10/04	WSD	1.3			
Chloroform	ug/m3	ND	09/10/04	WSD	2.4			
Chloromethane	ug/m3	3.2	09/10/04	WSD	1.0			
1,2-Dibromoethane	ug/m3	ND	09/10/04	WSD	3.8			
1,2-Dichlorobenzene	ug/m3	ND	09/10/04	WSD	3.0			
1,3-Dichlorobenzene	ug/m3	ND	09/10/04	WSD	3.0			
1,4-Dichlorobenzene	ug/m3	ND	09/10/04	WSD	3.0			
Dichlorodifluoromethane	ug/m3	88.6	09/10/04	WSD	2.5			
1,1-Dichloroethane	ug/m3	ND	09/10/04	WSD	2.0			
1,2-Dichloroethane	ug/m3	ND	09/10/04	WSD	2.0			
1,1-Dichloroethylene	ug/m3	ND	09/10/04	WSD	2.0			
cis-1,2-Dichloroethylene	ug/m3	ND	09/10/04	WSD	2.0			
1,2-Dichloropropane	ug/m3	ND	09/10/04	WSD	2.3			
cis-1,3-Dichloropropene	ug/m3	ND	09/10/04	WSD	2.3			
trans-1,3-Dichloropropene	ug/m3	ND	09/10/04	WSD	2.3			
1,2-Dichlorotetrafluoroethane (114)	ug/m3	21.3	09/10/04	WSD	3.5			
Ethylbenzene	ug/m3	28.9	09/10/04	WSD	2.2			
Hexachlorobutadiene	ug/m3	ND	09/10/04	WSD	5.3			
Methylene Chloride	ug/m3	ND	09/10/04	WSD	1.7			
Styrene	ug/m3	ND	09/10/04	WSD	2.1			
1,1,2,2-Tetrachloroethane	ug/m3	ND	09/10/04	WSD	3.4			
Tetrachloroethylene	ug/m3	14.9	09/10/04	WSD	3.4			
Toluene	ug/m3	10.6	09/10/04	WSD	1.9			
1,2,4-Trichlorobenzene	ug/m3	ND	09/10/04	WSD	3.7			
1,1,1-Trichloroethane	ug/m3	ND	09/10/04	WSD	2.7			
1,1,2-Trichloroethane	ug/m3	ND	09/10/04	WSD	2.7			

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9/13/2004
Page 4 of 5

Purchase Order No.:

Project Location: EAST NORTHPORT
Date Received: 9/2/2004

LIMS-BAT #: LIMS-81818
Job Number: -

Field Sample #: BS-3

Sample ID: 04B27482

Sampled: 8/31/2004
NOT SPECIFIED

Sample Matrix: AIR

Sample Medium: SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Trichloroethylene	ug/m3	ND	09/10/04	WSD	2.7			
Trichlorofluoromethane	ug/m3	ND	09/10/04	WSD	2.8			
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	09/10/04	WSD	3.8			
1,2,4-Trimethylbenzene	ug/m3	11.0	09/10/04	WSD	2.5			
1,3,5-Trimethylbenzene	ug/m3	34.9	09/10/04	WSD	2.5			
Vinyl Chloride	ug/m3	ND	09/10/04	WSD	1.3			
m/p-Xylene	ug/m3	77.6	09/10/04	WSD	2.2			
o-Xylene	ug/m3	53.4	09/10/04	WSD	2.2			

Analytical Method:
EPA TO-14A

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Page 5 of 5

Project Location: EAST NORTHPORT
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** END OF REPORT **

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 9/13/2004

Lims Bat #: LIMS-81818

Page 1 of 2

QC Batch Number: BATCH-7219

Sample Id	Analysis	QC Analysis	Values	Units	Limits
04B27482	4-Bromofluorobenzene	Surrogate Recovery	124.4	%	70-130
BLANK-64213	Benzene	Blank	<1.6	ug/m3	
	Carbon Tetrachloride	Blank	<3.1	ug/m3	
	Chloroform	Blank	<2.4	ug/m3	
	1,2-Dichloroethane	Blank	<2.0	ug/m3	
	1,4-Dichlorobenzene	Blank	<3.0	ug/m3	
	Ethylbenzene	Blank	<2.2	ug/m3	
	Styrene	Blank	<2.1	ug/m3	
	Tetrachloroethylene	Blank	<3.4	ug/m3	
	Toluene	Blank	<1.9	ug/m3	
	1,1,1-Trichloroethane	Blank	<2.7	ug/m3	
	Trichloroethylene	Blank	<2.7	ug/m3	
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Blank	<3.8	ug/m3	
	Trichlorofluoromethane	Blank	<2.8	ug/m3	
	o-Xylene	Blank	<2.2	ug/m3	
	m/p-Xylene	Blank	<2.2	ug/m3	
	1,2-Dichlorobenzene	Blank	<3.0	ug/m3	
	1,3-Dichlorobenzene	Blank	<3.0	ug/m3	
	1,1-Dichloroethane	Blank	<2.0	ug/m3	
	1,1-Dichloroethylene	Blank	<2.0	ug/m3	
	Vinyl Chloride	Blank	<1.3	ug/m3	
	Methylene Chloride	Blank	<1.7	ug/m3	
	Chlorobenzene	Blank	<2.3	ug/m3	
	Chloromethane	Blank	<1.0	ug/m3	
	Bromomethane	Blank	<1.9	ug/m3	
	Chloroethane	Blank	<1.3	ug/m3	
	cis-1,3-Dichloropropene	Blank	<2.3	ug/m3	
	trans-1,3-Dichloropropene	Blank	<2.3	ug/m3	
	1,1,2-Trichloroethane	Blank	<2.7	ug/m3	
	1,1,2,2-Tetrachloroethane	Blank	<3.4	ug/m3	
	Hexachlorobutadiene	Blank	<5.3	ug/m3	
	1,2,4-Trichlorobenzene	Blank	<3.7	ug/m3	
	1,2,4-Trimethylbenzene	Blank	<2.5	ug/m3	
	1,3,5-Trimethylbenzene	Blank	<2.5	ug/m3	
	cis-1,2-Dichloroethylene	Blank	<2.0	ug/m3	
	1,2-Dichloropropane	Blank	<2.3	ug/m3	
	Dichlorodifluoromethane	Blank	<2.5	ug/m3	
	1,2-Dibromoethane	Blank	<3.8	ug/m3	
	1,2-Dichlorotetrafluoroethane (114)	Blank	<3.5	ug/m3	



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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates BATCH QC: Lab fortified Blanks and Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates Standard Reference Materials and Duplicates
Method Blanks

Report Date: 9/13/2004 Lims Bat #: LIMS-81818 Page 2 of 2

QUALITY CONTROL DEFINITIONS AND ABBREVIATIONS

QC BATCH NUMBER This is the number assigned to all samples analyzed together that would be subject to comparison with a particular set of Quality Control Data.

LIMITS Upper and Lower Control Limits for the QC ANALYSIS Reported. All values normally would fall within these statistically determined limits, unless there is an unusual circumstance that would be documented in a NOTE appearing on the last page of the QC SUMMARY REPORT. Not all QC results will have Limits defined.

Sample Amount Amount of analyte found in a sample.

Blank Method Blank that has been taken though all the steps of the analysis.

LFBLANK Laboratory Fortified Blank (a control sample)

STDADD Standard Added (a laboratory control sample)

Matrix Spk Amt Added Amount of analyte spiked into a sample
MS Amt Measured Amount of analyte found including amount that was spiked
Matrix Spike % Rec. % Recovery of spiked amount in sample.

Duplicate Value The result from the Duplicate analysis of the sample.
Duplicate RPD The Relative Percent Difference between two Duplicate Analyses.

Surrogate Recovery The % Recovery for non-environmental compounds (surrogates) spiked into samples to determine the performance of the analytical methods.

Sur. Recovery (ELCD) Surrogate Recovery on the Electrolytic Conductivity Detector.
Sur. Recovery (PID) Surrogate Recovery on the Photoionization Detector.

Standard Measured Amount measured for a laboratory control sample
Standard Amt Added Known value for a laboratory control sample
Standard % Recovery % recovered for a laboratory control sample with a known value.

Lab Fort Blank Amt Laboratory Fortified Blank Amount Added
Lab Fort Blk. Found Laboratory Fortified Blank Amount Found
Lab Fort Blk % Rec Laboratory Fortified Blank % Recovered
Dup Lab Fort Bl Amt Duplicate Laboratory Fortified Blank Amount Added
Dup Lab Fort Bl Fnd Duplicate Laboratory Fortified Blank Amount Found
Dup Lab Fort Bl % Rec Duplicate Laboratory Fortified Blank % Recovery
Lab Fort Blank Range Laboratory Fortified Blank Range (Absolute value of difference between recoveries for Lab Fortified Blank and Lab Fortified Blank Duplicate).

Lab Fort Bl. Av. Rec. Laboratory Fortified Blank Average Recovery

Duplicate Sample Amt Sample Value for Duplicate used with Matrix Spike Duplicate
MSD Amount Added Matrix Spike Duplicate Amount Added (Spiked)
MSD Amt Measured Matrix Spike Duplicate Amount Measured
MSD % Recovery Matrix Spike Duplicate % Recovery
MSD Range Absolute difference between Matrix Spike and Matrix Spike Duplicate Recoveries

**Landfill Gas and Control System Monitoring
Town of Huntington East Northport Landfill
East Northport, New York
October, 2004**

Prepared for:

**Town of Huntington Department of Environmental Waste Management
100 Main Street
Huntington, New York 11743**

Prepared by:

**R & C Formation, Ltd.
30 Broadway, Suite 6
Massapequa, New York 11758**

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Appendix 1. Landfill Gas Control Well Vacuum Data	
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**Landfill Gas and Control System Monitoring
Town of Huntington East Northport Landfill
East Northport, New York
October, 2004**

Introduction

This report presents the results of October, 2004 landfill gas and control system monitoring activities performed at the Town of Huntington East Northport Landfill, as stipulated by the New York State Department of Environmental Conservation.

The primary landfill gas migration control system consists of thirty active landfill gas control wells connected - via a single header pipe forming a complete loop around the 44 acre East Northport Landfill - to one blower station. Landfill gas monitoring wells (consisting of 3-4 probes screened from approximately 5-70 feet below grade) are situated outside of the aforementioned header pipe, thereby providing a means to verify the control system's efficacy. Separate landfill gas control and monitoring systems are located at adjacent Animal Control and Resource Recovery Facilities.

The landfill area and pertinent components of the landfill gas monitoring and control system are depicted in Figure 1. The scope-of-work completed (per our agreement with the Town of Huntington Department of Environmental Waste Management dated August 15, 2003) precedes a summary of results. A discussion of methane monitoring data - with an emphasis on trends and occurrence - and the system's physical and operating condition, follows.

Scope-of-Work

The scope-of-work includes performance of the following on a monthly basis:

- 1) Monitoring of all probes in 43 landfill monitoring wells and up to 5 probes around the Town Animal Control Facility for methane gas and gas pressure.
- 2) Monitoring of 30 methane control wells and blower station for temperature, flow rate, vacuum, methane and oxygen (balance of the control system to be checked and adjustment to wells and to blower intake made, if necessary).

3) Examination of 5 condensate traps in the control system for proper operation and water accumulation.

4) Noting of any problems, damage, missing parts etc. at each monitoring well, methane control well, condensate trap, Animal Control Facility probes and blower station.

Summary of Results

General

Reported monthly monitoring activities were performed October 27, 2004. Climatic conditions for the monitoring period are as follows:

Temperature: 54 (°F); Barometric pressure: 30.17 (in. Hg); Relative Humidity: 68.0%; Precipitation: 0.0 inches; Wind Speed & Direction: 6.9 mph, northerly.

Monitoring Wells

Table 1 presents a summary of measured and recorded landfill gas monitoring well data. As shown on Table 1, methane was not detected throughout the entire monitoring well network.

LFG Control Wells

A summary of measured and recorded landfill gas control well data - including the system's blower station where 2 "inlet" measuring points (Blower Station 1 & 2) and 1 "outlet" measuring point (Blower Station 3) are located - is presented on Table 2. As shown on Table 2, control well vacuum values (i.e., negative pressure), a direct indicator of the system's balance, range from -0.1 - -2.6 (in. H₂O). "Extracted" methane values range from 0.0 - 6.0 %.

Condensate Traps

Standing water measured within condensate traps CD-1 (0.7), CD-2 (2.4 feet), CD-3 (3.6 feet), CD-4 (0.9 feet) and CD-5 (0.5 feet) was evacuated, as per usual, upon the completion of monitoring activities.

Discussion

Methane Monitoring Data

A summary of methane concentrations detected at landfill gas monitoring wells throughout the period of record from October, 1999 through October, 2004 is presented on Table 3. As shown, methane has been detected sporadically and at low levels at 14 monitoring wells, including at Animal Control Facility monitoring well AS-NE, where it was last detected at a concentration of 0.1 % during April, 2004 monitoring activities. The highest recorded methane concentration of 5.0 % was measured at this well during March, 2001 monitoring activities.

Methane has not been detected at monitoring wells associated with the primary landfill gas migration control system since a slight concentration (0.1 %) was recorded at monitoring well MW-49 during June, 2002 monitoring activities. The sporadic nature of low-level methane detections indicates that landfill gas control systems relative to both the Animal Control Facility and East Northport Landfill continue to function effectively.

Table 4 summarizes methane concentrations detected at landfill gas control wells during the above-mentioned period of record. As shown, with the exception of minor anomalies (e.g., control well N-2: October, 2001; February, 2002), measured values are generally consistent throughout the 61 month period.

Physical and Operating Condition

As evidenced by measured and recorded landfill gas monitoring well data, the Town of Huntington East Northport Landfill primary landfill gas control system continues to successfully negate the off-site migration of methane, although vacuum values at the northern-most portion of the system remain comparatively low. This state, as indicated by historic control well vacuum data presented in Appendix 1, has existed throughout the period of record.

As reported previously, apparent water accumulation within laterals of "northern" control wells N-1 and N-2 was corrected July 3, 2002 (by way of lowering respective well-heads). As shown in Appendix 1, an initial vacuum increase at these control wells, decreased for a period (January-June, 2003). A return to increased vacuum levels, indicated during July, 2003 monitoring activities, continues.

The physical condition of system monitoring wells and control wells is noted on Tables 1 and 2, respectively. As shown on Tables 1 and 2, with the exception of a pile

of stones and cobbles overlying monitoring well MW-15 (removal anticipated prior to November monitoring activities), neither monitoring nor control wells are currently damaged.

Alternate blower station pump # 2 was in operation during this reported event and all control wells continue to be set in the full-open-position (since April, 2003). As reported previously, this full-open-position will be maintained for an evaluation period and modified if/as necessary.

Recommendations

- * In the event that methane is detected at any monitoring well associated with the primary landfill gas migration control system, recommence the monitoring of off and on-site structures.
- * Continue monitoring control wells N-1 and N-2 on a monthly basis, to assess the long-term affect of previously reported well-head modifications on future vacuum levels at the northern-most portion of the primary landfill gas system.
- * Assess occurrence of methane versus landfill area (i.e., identify dominant landfill gas production zones).
- * Continue assessment of potential impact of all control valves at full-open-position on system-wide vacuum/methane levels.

Table 1
Landfill Gas Monitoring Well Data
Town of Huntington East Northport Landfill, East Northport, New York
Measured October 27, 2004

Well No.	Probe Pressure (in. H ₂ O)				Methane 0-100% (Volume)				Condition
	A	B	C	D	A	B	C	D	
MW-A									
MW-B	-0.2	-0.3			0.0	0.0			
MW-2	0.0	-0.1	0.0	-0.1	0.0	0.0	0.0	0.0	
MW-3	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	
MW-4	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	
MW-5	-0.1	-0.1	-0.1		0.0	0.0	0.0		
MW-6	0.0	0.0	0.0		0.0	0.0	0.0		
MW-7	0.0	0.0	0.0		0.0	0.0	0.0		
MW-8	0.0	0.0	0.0		0.0	0.0	0.0		
MW-9	-0.2	0.0	-0.2		0.0	0.0	0.0		
MW-10	-0.2	0.0	0.0	-0.2	0.0	0.0	0.0	0.0	
MW-11	-0.1	-0.2	-0.2	-0.1	0.0	0.0	0.0	0.0	
MW-12	-0.1	-0.1	-0.2		0.0	0.0	0.0		
MW-13	-0.2	-0.4	-0.3		0.0	0.0	0.0		
MW-15	NA	NA	NA		NA	NA	NA		Buried beneath stones & cobbles
MW-16	-0.1	-0.2	-0.1		0.0	0.0	0.0		
MW-17	0.0	-0.1	-0.2		0.0	0.0	0.0		
MW-18	0.0	0.0	-0.2		0.0	0.0	0.0		
MW-19	-0.4	-0.4	0.0	-0.4	0.0	0.0	0.0	0.0	
MW-20	-0.3	-0.4	-0.3		0.0	0.0	0.0		
MW-21	-0.1	-0.2	-0.3	-0.2	0.0	0.0	0.0	0.0	
MW-22	0.0	-0.3	-0.2		0.0	0.0	0.0		

Table 1 (continued)

Well No.	Probe Pressure (in. H ₂ O)				Methane 0-100% (Volume)				Condition
	A	B	C	D	A	B	C	D	
MW-23	-0.1	-0.2	-0.1	-0.2	0.0	0.0	0.0	0.0	
MW-24	0.0	0.0	0.0		0.0	0.0	0.0		
MW-25	-0.3	0.0	-0.4		0.0	0.0	0.0		
MW-26	-0.2	-0.2	-0.2	-0.2	0.0	0.0	0.0	0.0	
MW-27	0.0	-0.1	-0.1		0.0	0.0	0.0		
MW-28	0.0	0.0	0.0		0.0	0.0	0.0		
MW-37	-0.1	0.0	0.0		0.0	0.0	0.0		
MW-38	-0.1	-0.1	-0.1		0.0	0.0	0.0		
MW-39	-0.1	-0.1	-0.1		0.0	0.0	0.0		
MW-40	0.0	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	
MW-41	-0.1	0.0	-0.1		0.0	0.0	0.0		
MW-42	-0.1	-0.1	-0.1		0.0	0.0	0.0		
MW-43	0.0	-0.1	-0.1		0.0	0.0	0.0		
MW-44	0.0	0.0	0.0		0.0	0.0	0.0		
MW-45	0.0	0.0	0.0		0.0	0.0	0.0		
MW-46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-47	0.0	0.0	0.0		0.0	0.0	0.0		
MW-48	0.0	-0.1	-0.1		0.0	0.0	0.0		
MW-49	0.0	-0.1	0.0		0.0	0.0	0.0		
MW-51	0.0	-0.1	0.0		0.0	0.0	0.0		
AS-NW	-0.1				0.0				
AS-NE	0.0				0.0				
AS-SW	-0.2				0.0				
AS-SC	-0.4				0.0				
AS-SE	0.0				0.0				

A - Shallow Probe B - Middle Probe C - Deep Probe D - Deepest Probe
 Shading indicates the well is not equipped with that particular probe.

Table 2
Landfill Gas Control Well Data
Town of Huntington East Northport Landfill, East Northport, New York
Measured October 27, 2004

Well No.	Temp (°F)	Flow Rate (ft ³ /min)	Vacuum (in. H ₂ O)	Methane 0-100 % (Volume)	Oxygen % in Air	Condition
CWI-4	71.8	183.0	-2.5	0.1	20.7	
CWI-5	78.1	98.6	-2.6	0.8	20.1	
CWI-6	84.8	56.0	-2.5	0.8	20.2	
CWI-7	86.9	58.5	-2.4	1.6	20.4	
CWII-1	95.1	102.0	-2.3	6.0	18.6	
CWII-2	96.7	57.5	-2.3	1.6	19.1	
CWII-3	87.4	33.2	-2.3	1.8	18.8	
CWII-4	81.5	69.0	-2.2	3.2	18.7	
CWII-5	82.1	29.5	-2.2	0.2	18.9	
CWII-6	83.2	19.2	-1.4	0.1	17.7	
CWII-7	71.1	13.9	-1.0	0.0	18.6	
CWII-8	67.8	0.0	-0.1	0.0	20.1	
CWII-9	80.0	28.1	-0.7	0.3	18.5	
NW-1	60.9	102.0	-2.4	0.0	20.9	
NW-2	59.8	60.5	-2.6	0.0	20.8	
NW-3	59.1	58.0	-2.3	0.0	20.6	
NW-4	58.7	78.5	-2.1	0.0	20.6	
NW-5	59.6	104.0	-1.8	0.0	20.8	
NW-6	59.8	102.0	-1.8	0.0	20.9	
Ext-1	63.6	5.75	-0.1	0.0	20.8	
Ext-2	64.5	23.3	-0.7	0.0	20.4	
Ext-3	68.4	43.4	-1.7	0.1	19.6	
Ext-4	73.3	34.3	-1.6	0.1	19.0	
Ext-5	61.7	63.0	-1.4	0.0	20.1	
N-1	71.8	44.9	-0.4	0.0	20.7	
N-2	86.5	11.3	-0.5	3.9	11.9	
N-3	60.9	6.05	-0.1	0.0	20.6	
N-4	62.7	2.85	-0.1	0.0	20.8	
N-5	62.2	5.75	-0.1	0.0	20.2	
N-6	69.5	23.0	-0.8	0.0	19.4	
Blower Station - 1	64.3	3,000.0	-4.0	0.6	20.3	
Blower Station - 2	64.3	2,990.0	-16.8	0.6	20.3	
Blower Station - 3	79.7	4,200.0	1.7	0.6	20.1	

**Landfill Gas and Control System Monitoring
Town of Huntington East Northport Landfill
East Northport, New York
November, 2004**

Prepared for:

**Town of Huntington Department of Environmental Waste Management
100 Main Street
Huntington, New York 11743**

Prepared by:

**R & C Formation, Ltd.
30 Broadway, Suite 6
Massapequa, New York 11758**

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**Landfill Gas and Control System Monitoring
Town of Huntington East Northport Landfill
East Northport, New York
November, 2004**

Introduction

Presented herein are the results of November, 2004 landfill gas and control system monitoring activities performed at the Town of Huntington East Northport Landfill, as stipulated by the New York State Department of Environmental Conservation.

The primary landfill gas migration control system consists of thirty active landfill gas control wells connected - via a single header pipe forming a complete loop around the 44 acre East Northport Landfill - to one blower station. Landfill gas monitoring wells (consisting of 3-4 probes screened from approximately 5-70 feet below grade) are situated outside of the aforementioned header pipe, thereby providing a means to verify the control system's efficacy. Separate landfill gas control and monitoring systems are located at adjacent Animal Control and Resource Recovery Facilities.

Figure 1 depicts the landfill area and pertinent components of the landfill gas monitoring and control system. The scope-of-work completed (per our agreement with the Town of Huntington Department of Environmental Waste Management dated August 15, 2003) precedes a summary of results. A discussion of methane monitoring data - with an emphasis on trends and occurrence - and the system's physical and operating condition, follows.

Scope-of-Work

The scope-of-work includes performance of the following on a monthly basis:

- 1) Monitoring of all probes in 43 landfill monitoring wells and up to 5 probes around the Town Animal Control Facility for methane gas and gas pressure.
- 2) Monitoring of 30 methane control wells and blower station for temperature, flow rate, vacuum, methane and oxygen (balance of the control system to be checked and adjustment to wells and to blower intake made, if necessary).

- 3) Examination of 5 condensate traps in the control system for proper operation and water accumulation.
- 4) Noting of any problems, damage, missing parts etc. at each monitoring well, methane control well, condensate trap, Animal Control Facility probes and blower station.

Summary of Results

General

Reported monthly monitoring activities were performed November 30, 2004. Climatic conditions for the monitoring period are as follows:

Temperature: 41 (°F); Barometric pressure: 30.24 (in. Hg); Relative Humidity: 64.0%; Precipitation: 0.0 inches; Wind Speed & Direction: 3.1 mph, southerly.

Monitoring Wells

A summary of measured and recorded landfill gas monitoring well data is presented on Table 1. As shown on Table 1, methane was not detected throughout the entire monitoring well network.

LFG Control Wells

Table 2 presents a summary of measured and recorded landfill gas control well data - including the system's blower station where 2 "inlet" measuring points (Blower Station 1 & 2) and 1 "outlet" measuring point (Blower Station 3) are located. As shown on Table 2, control well vacuum values (i.e., negative pressure), a direct indicator of the system's balance, range from 0.0 - -3.4 (in. H₂O). "Extracted" methane values range from 0.0 - 6.0 %.

Condensate Traps

Standing water measured within condensate traps CD-1 (3.4), CD-2 (2.6 feet), CD-3 (7.1 feet), CD-4 (0.9 feet) and CD-5 (4.6 feet) was evacuated, as per usual, upon the completion of monitoring activities.

Discussion

Methane Monitoring Data

A summary of methane concentrations detected at landfill gas monitoring wells throughout the period of record from October, 1999 through November, 2004 is presented on Table 3. As shown, methane has been detected sporadically and at low levels at 14 monitoring wells, including at Animal Control Facility monitoring well AS-NE, where it was last detected at a concentration of 0.1 % during April, 2004 monitoring activities. The highest recorded methane concentration of 5.0 % was measured at this well during March, 2001 monitoring activities.

Methane continues to absent at monitoring wells associated with the primary landfill gas migration control system since a slight concentration (0.1 %) was recorded at monitoring well MW-49 during June, 2002 monitoring activities. The sporadic nature of low-level methane detections indicates that landfill gas control systems relative to both the Animal Control Facility and East Northport Landfill continue to function effectively.

Table 4 summarizes methane concentrations detected at landfill gas control wells during the above-mentioned period of record. As shown, with the exception of minor anomalies (e.g., control well N-2: October, 2001; February, 2002), measured values are generally consistent throughout the 62 month period.

Physical and Operating Condition

As evidenced by measured and recorded landfill gas monitoring well data, the Town of Huntington East Northport Landfill primary landfill gas control system continues to successfully negate the off-site migration of methane, although vacuum values at the northern-most portion of the system remain comparatively low. This state, as indicated by historic control well vacuum data presented in Appendix 1, has existed throughout the period of record.

As reported previously, apparent water accumulation within laterals of "northern" control wells N-1 and N-2 was corrected July 3, 2002 (by way of lowering respective well-heads). As shown in Appendix 1, an initial vacuum increase at these control wells, decreased for a period (January-June, 2003). Following a return to increased vacuum levels, indicated during July, 2003 monitoring activities, the vacuum level at monitoring well N-1 has, once again, decreased.

The physical condition of system monitoring wells and control wells is noted on Tables 1 and 2, respectively. As shown on Tables 1 and 2, neither monitoring nor control wells are currently damaged.

Alternate blower station pump # 2 was in operation during this reported event and all control wells continue to be set in the full-open-position (since April, 2003). As reported previously, this full-open-position will be maintained for an evaluation period and modified if/as necessary.

Recommendations

- * In the event that methane is detected at any monitoring well associated with the primary landfill gas migration control system, recommence the monitoring of off and on-site structures.
- * Continue monitoring control wells N-1 and N-2 on a monthly basis, to assess the long-term affect of previously reported well-head modifications on future vacuum levels at the northern-most portion of the primary landfill gas system.
- * Assess occurrence of methane versus landfill area (i.e., identify dominant landfill gas production zones).
- * Continue assessment of potential impact of all control valves at full-open-position on system-wide vacuum/methane levels.

Table 1
Landfill Gas Monitoring Well Data
Town of Huntington East Northport Landfill, East Northport, New York
Measured November 30, 2004

Well No.	Probe Pressure (in. H ₂ O)				Methane 0-100% (Volume)				Condition
	A	B	C	D	A	B	C	D	
MW-A	-0.2	-0.6			0.0	0.0			
MW-B	-0.0	-0.2			0.0	0.0			
MW-2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-5	0.0	0.0	0.1		0.0	0.0	0.0		
MW-6	0.0	0.0	0.0		0.0	0.0	0.0		
MW-7	0.0	0.0	0.0		0.0	0.0	0.0		
MW-8	0.0	0.0	0.0		0.0	0.0	0.0		
MW-9	0.0	0.0	0.0		0.0	0.0	0.0		
MW-10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-12	0.0	0.0	0.0		0.0	0.0	0.0		
MW-13	-0.3	0.0	-0.3		0.0	0.0	0.0		
MW-15	-0.1	-0.1	0.0		0.0	0.0	0.0		
MW-16	-0.1	-0.1	0.0		0.0	0.0	0.0		
MW-17	0.0	-0.1	0.0		0.0	0.0	0.0		
MW-18	0.0	0.0	-0.1		0.0	0.0	0.0		
MW-19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-20	0.0	-0.1	-0.1		0.0	0.0	0.0		
MW-21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-22	-0.2	-0.2	-0.3		0.0	0.0	0.0		

Table 1 (continued)

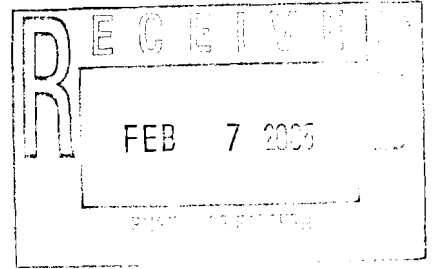
Well No.	Probe Pressure (in. H2O)				Methane 0-100% (Volume)				Condition
	A	B	C	D	A	B	C	D	
MW-23	-0.1	-0.2	-0.1	-0.2	0.0	0.0	0.0	0.0	
MW-24	0.0	-0.1	0.0		0.0	0.0	0.0		
MW-25	-0.5	0.0	-0.5		0.0	0.0	0.0		
MW-26	-0.2	-0.2	-0.2	-0.2	0.0	0.0	0.0	0.0	
MW-27	0.0	0.0	0.0		0.0	0.0	0.0		
MW-28	0.0	0.0	0.0		0.0	0.0	0.0		
MW-37	0.0	0.0	0.0		0.0	0.0	0.0		
MW-38	-0.1	-0.2	-0.2		0.0	0.0	0.0		
MW-39	-0.1	-0.1	-0.1		0.0	0.0	0.0		
MW-40	-0.1	0.0	-0.1	-0.1	0.0	0.0	0.0	0.0	
MW-41	-0.1	-0.1	-0.1		0.0	0.0	0.0		
MW-42	0.0	0.0	-0.1		0.0	0.0	0.0		
MW-43	0.0	0.0	0.0		0.0	0.0	0.0		
MW-44	0.0	0.0	0.0		0.0	0.0	0.0		
MW-45	0.0	0.0	0.0		0.0	0.0	0.0		
MW-46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-47	0.0	-0.1	-0.1		0.0	0.0	0.0		
MW-48	0.0	-0.1	-0.1		0.0	0.0	0.0		
MW-49	0.0	-0.2	0.0		0.0	0.0	0.0		
MW-51	0.0	-0.1	0.0		0.0	0.0	0.0		
AS-NW	0.0				0.0				
AS-NE	0.0				0.0				
AS-SW	0.0				0.0				
AS-SC	-0.6				0.0				
AS-SE	0.0				0.0				

A - Shallow Probe B - Middle Probe C - Deep Probe D - Deepest Probe

Shading indicates the well is not equipped with that particular probe.

Table 2
Landfill Gas Control Well Data
Town of Huntington East Northport Landfill, East Northport, New York
Measured November 30, 2004

Well No.	Temp (°F)	Flow Rate (ft ³ /min)	Vacuum (in. H ₂ O)	Methane 0-100 % (Volume)	Oxygen % in Air	Condition
CWI-4	71.7	169.0	-3.0	0.1	19.8	
CWI-5	76.7	67.0	-3.2	1.0	19.0	
CWI-6	83.2	40.1	-3.4	0.7	18.7	
CWI-7	85.8	38.6	-3.3	2.6	17.7	
CWII-1	94.1	52.5	-3.1	6.0	6.3	
CWII-2	94.0	78.5	-3.1	1.5	16.6	
CWII-3	87.4	18.3	-3.3	1.8	17.3	
CWII-4	80.7	39.3	-3.3	3.9	15.2	
CWII-5	59.5	0.0	-0.1	0.1	16.5	
CWII-6	65.2	0.0	0.0	0.1	16.0	
CWII-7	62.4	2.0	0.0	0.1	16.6	
CWII-8	60.3	0.0	0.0	0.0	18.6	
CWII-9	62.5	0.0	0.0	0.1	16.3	
NW-1	60.1	103.0	-2.6	0.0	20.7	
NW-2	59.2	63.0	-2.9	0.0	20.7	
NW-3	58.6	59.5	-2.5	0.0	20.1	
NW-4	58.4	103.0	-2.4	0.0	19.6	
NW-5	58.7	165.0	-2.1	0.0	19.9	
NW-6	58.9	121.0	-2.0	0.0	20.4	
Ext-1	57.3	4.0	0.0	0.9	20.4	
Ext-2	61.1	28.8	-0.8	0.1	18.9	
Ext-3	67.4	54.5	-2.1	0.7	18.2	
Ext-4	72.6	43.0	-2.0	0.3	16.3	
Ext-5	59.6	72.0	-1.6	0.0	20.0	
N-1	67.0	10.8	-0.1	0.0	18.9	
N-2	85.7	12.2	-0.6	3.5	7.9	
N-3	57.2	1.3	0.0	0.0	20.3	
N-4	58.3	0.5	-0.1	0.0	20.6	
N-5	56.5	1.7	0.0	0.0	19.4	
N-6	56.0	0.0	0.0	0.1	18.2	
Blower Station - 1	59.2	2,870.0	-4.6	0.7	18.4	
Blower Station - 2	58.6	2,850.0	-16.0	0.7	18.6	
Blower Station - 3	68.7	2,100.0	2.0	0.7	18.7	



**Landfill Gas and Control System Monitoring
Town of Huntington East Northport Landfill
East Northport, New York
December, 2004**

Prepared for:

**Town of Huntington Department of Environmental Waste Management
100 Main Street
Huntington, New York 11743**

Prepared by:

**R & C Formation, Ltd.
30 Broadway, Suite 6
Massapequa, New York 11758**

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Appendix 1. Landfill Gas Control Well Vacuum Data	
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**Landfill Gas and Control System Monitoring
Town of Huntington East Northport Landfill
East Northport, New York
December, 2004**

Introduction

Presented herein are the results of December, 2004 landfill gas and control system monitoring activities performed at the Town of Huntington East Northport Landfill, as stipulated by the New York State Department of Environmental Conservation.

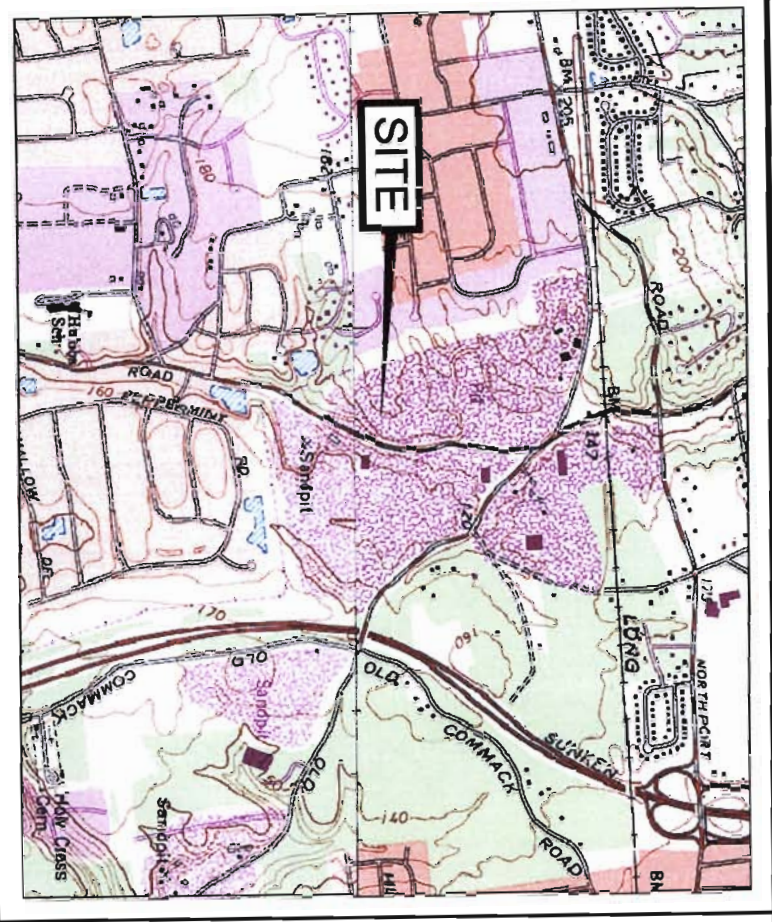
The primary landfill gas migration control system consists of thirty active landfill gas control wells connected - via a single header pipe forming a complete loop around the 44 acre East Northport Landfill - to one blower station. Landfill gas monitoring wells (consisting of 3-4 probes screened from approximately 5-70 feet below grade) are situated outside of the aforementioned header pipe, thereby providing a means to verify the control system's efficacy. Separate landfill gas control and monitoring systems are located at adjacent Animal Control and Resource Recovery Facilities.

Figure 1 illustrates the landfill area and pertinent components of the landfill gas monitoring and control system. The scope-of-work completed (per our agreement with the Town of Huntington Department of Environmental Waste Management dated August 15, 2003) precedes a summary of results. A discussion of methane monitoring data - with an emphasis on trends and occurrence - and the system's physical and operating condition follows.

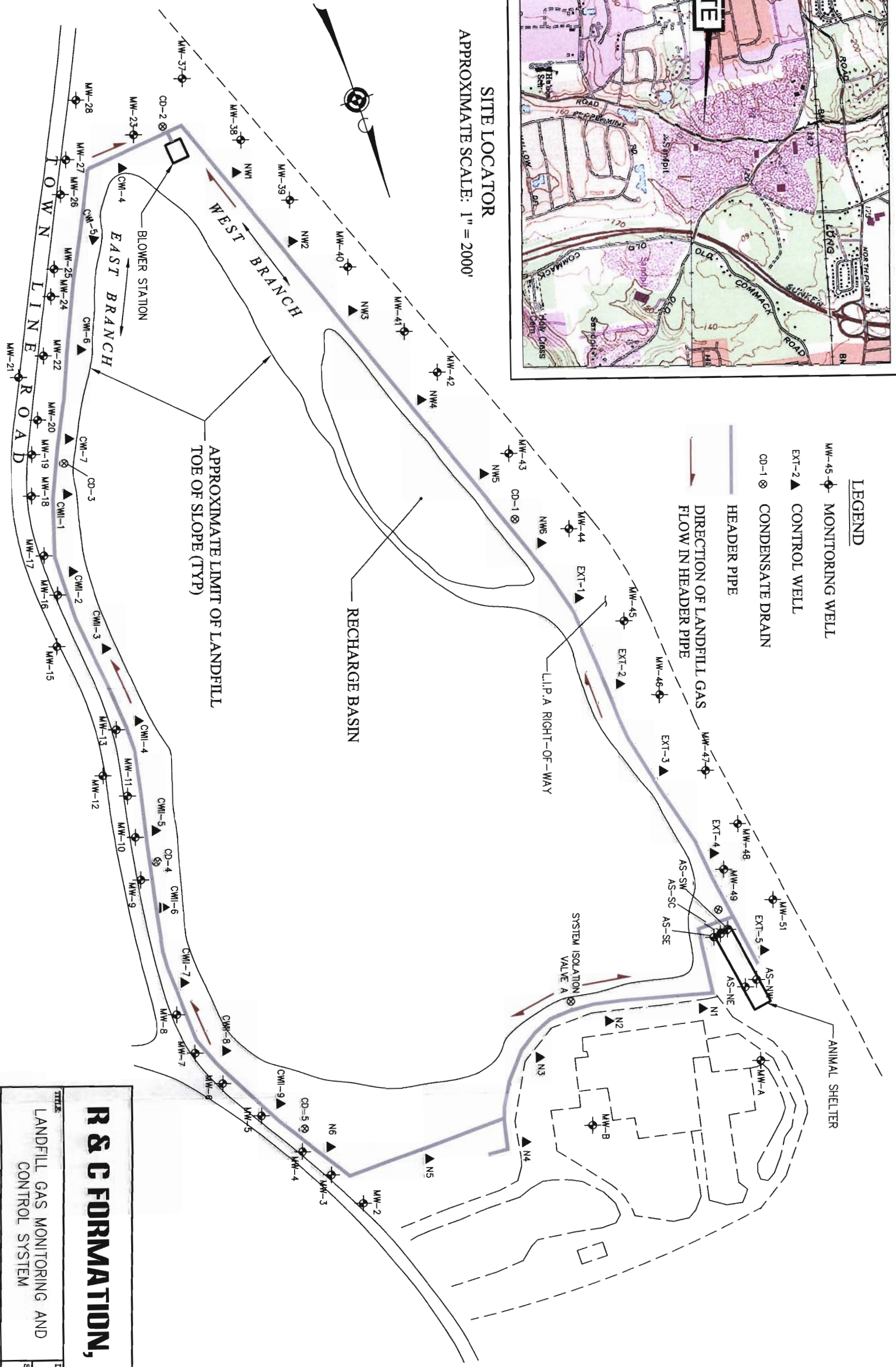
Scope-of-Work

The scope-of-work includes performance of the following on a monthly basis:

- 1) Monitoring of all probes in 43 landfill monitoring wells and up to 5 probes around the Town Animal Control Facility for methane gas and gas pressure.
- 2) Monitoring of 30 methane control wells and blower station for temperature, flow rate, vacuum, methane and oxygen (balance of the control system to be checked and adjustment to wells and to blower intake made, if necessary).



SITE LOCATOR
 APPROXIMATE SCALE: 1" = 2000'



LEGEND

- MW-45 ◉ MONITORING WELL
- EXT-2 ▲ CONTROL WELL
- CD-1 ⊗ CONDENSATE DRAIN
- HEADER PIPE
- DIRECTION OF LANDFILL GAS FLOW IN HEADER PIPE

R & C FORMATION, LTD.

LANDFILL GAS MONITORING AND CONTROL SYSTEM

1	FIGURES	DATE
	TOWN OF HUNTINGTON EAST NORTHPORT LANDFILL EAST NORTHPORT, NY	9/22/03
	SCALE: AS SHOWN	DRAWING NO: 01006-1A
	APPR. BY: B.C.	

- 3) Examination of 5 condensate traps in the control system for proper operation and water accumulation.
- 4) Noting of any problems, damage, missing parts etc. at each monitoring well, methane control well, condensate trap, Animal Control Facility probes and blower station.

Summary of Results

General

Reported monthly monitoring activities were performed December 29 - 30, 2004. Climatic conditions for the monitoring period are as follows:

December 29 - Temperature: 38 (°F); Barometric Pressure: 30.21 (in. Hg); Relative Humidity: 56.0%; Precipitation: 0.0 inches; Wind Speed & Direction: 8.5 mph, westerly.

December 30 - Temperature: 37 (°F); Barometric Pressure: 30.46 (in. Hg); Relative Humidity: 68.0%; Precipitation: 0.00 inches; Wind Speed & Direction: 4.1 mph, northwesterly.

Monitoring Wells

A summary of measured and recorded landfill gas monitoring well data is presented on Table 1. As shown, methane was not detected throughout the entire monitoring well network.

LFG Control Wells

Table 2 presents a summary of measured and recorded landfill gas control well data - including the system's blower station where 2 "inlet" measuring points (Blower Station 1 & 2) and 1 "outlet" measuring point (Blower Station 3) are located. As shown on Table 2, control well vacuum values (i.e., negative pressure), a direct indicator of the system's balance, range from 0.0 - -7.4 (in. H₂O). "Extracted" methane values range from 0.0 to 6.0%.

Condensate Traps

Standing water measured within condensate traps CD-1 (trace), CD-2 (2.1 feet), CD-3 (0.7 feet), CD-4 (1.5 feet) and CD-5 (0.3 feet) was evacuated, as per usual, upon the completion of monitoring activities.

Discussion

Methane Monitoring Data

Table 3 presents a summary of methane concentrations detected at landfill gas monitoring wells throughout the period of record from October, 1999 through December, 2004. As shown, methane has been detected sporadically and at low levels at 14 monitoring wells, including at Animal Control Facility monitoring well AS-NE, where it was last detected at a concentration of 0.1 % during April, 2004 monitoring activities. The highest recorded methane concentration of 5.0 % was measured at this well during March, 2001 monitoring activities.

Methane has not been detected at monitoring wells associated with the primary landfill gas migration control system since a slight concentration (0.1 %) was recorded at monitoring well MW-49 during June, 2002 monitoring activities. The sporadic nature of low-level methane detections indicates that landfill gas control systems relative to both the Animal Control Facility and East Northport Landfill continue to function effectively.

A summary of methane concentrations, as detected during the above-mentioned period-of-record at landfill gas control wells, is presented on Table 4. As shown, with the exception of minor anomalies (e.g., control well N-2: October, 2001; February, 2002), measured values are generally consistent throughout the 63 month period.

Physical and Operating Condition

As evidenced by measured and recorded landfill gas monitoring well data, the Town of Huntington East Northport Landfill primary landfill gas control system continues to successfully negate the off-site migration of methane. Vacuum values, however, continue to remain comparatively low at the northern-most portion of the system. As indicated by historic control well vacuum data (Appendix 1), this state has existed throughout the monitoring period-of-record.

As reported previously, apparent water accumulation within laterals of "northern" control wells N-1 and N-2 was corrected July 3, 2002 (by way of lowering respective well-heads). As shown in Appendix 1, an initial vacuum increase at these control wells, decreased for a period (i.e., January-June, 2003). With the exception of a recent (i.e., November, 2004) decrease at "northern" control well N-1, this increase continues.

The physical condition of system monitoring wells and control wells is noted on Tables 1 and 2, respectively. As shown, neither monitoring nor control wells are currently damaged.

Alternate blower station pump # 1 was in operation during this reported event and all control wells continue to be set in the full-open-position (since April, 2003). As reported previously, this full-open-position will be maintained for an evaluation period and modified if/as necessary.

Recommendations

- * In the event that methane is detected at any monitoring well associated with the primary landfill gas migration control system, recommence the monitoring of off and on-site structures.
- * Continue to assess the long-term affect of well-head modifications at control wells N-1 and N-2 on future vacuum levels at the northern-most portion of the primary landfill gas migration control system.
- * Assess occurrence of methane versus landfill area (i.e., identify dominant landfill gas production zones).
- * Continue assessment of potential impact of all control valves at full-open-position on system-wide vacuum/methane levels.

Table 1
Landfill Gas Monitoring Well Data
Town of Huntington East Northport Landfill, East Northport, New York
Measured December 29 - 30, 2004

Well No.	Probe Pressure (in. H ₂ O)				Methane 0-100% (Volume)				Condition
	A	B	C	D	A	B	C	D	
MW-A	-0.1	-0.3			0.0	0.0			
MW-B	0.0	-0.1			0.0	0.0			
MW-2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-4	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-5	0.0	0.0	0.0		0.0	0.0	0.0		
MW-6	0.0	0.0	0.0		0.0	0.0	0.0		
MW-7	-0.1	-0.1	-0.1		0.0	0.0	0.0		
MW-8	0.0	0.0	0.0		0.0	0.0	0.0		
MW-9	0.0	0.0	0.0		0.0	0.0	0.0		
MW-10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-12	0.0	0.0	0.0		0.0	0.0	0.0		
MW-13	0.0	0.0	0.0		0.0	0.0	0.0		
MW-15	0.0	0.0	0.0		0.0	0.0	0.0		
MW-16	0.0	-0.1	0.0		0.0	0.0	0.0		
MW-17	0.0	0.0	0.0		0.0	0.0	0.0		
MW-18	0.0	0.0	0.0		0.0	0.0	0.0		
MW-19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-20	0.0	0.0	0.0		0.0	0.0	0.0		
MW-21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-22	0.0	0.0	0.0		0.0	0.0	0.0		

Table 1 (continued)

Well No.	Probe Pressure (in. H2O)				Methane 0-100% (Volume)				Condition
	A	B	C	D	A	B	C	D	
MW-23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-39	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	
MW-40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-44	0.0	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	
MW-45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-46	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	
MW-47	0.0	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	
MW-48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-51	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	
AS-NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
AS-NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
AS-SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
AS-SC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
AS-SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

A - Shallow Probe B - Middle Probe C - Deep Probe D - Deepest Probe

Shading indicates the well is not equipped with that particular probe.

Table 2
Landfill Gas Control Well Data
Town of Huntington East Northport Landfill, East Northport, New York
Measured December 29 - 30, 2004

Well No.	Temp (°F)	Flow Rate (ft ³ /min)	Vacuum (in. H ₂ O)	Methane 0-100 % (Volume)	Oxygen % in Air	Condition
CWI-4	70.4	179.0	-2.4	0.1	20.5	
CWI-5	76.2	99.3	-2.6	0.6	20.0	
CWI-6	82.6	55.0	-2.5	0.7	20.4	
CWI-7	83.1	59.4	-7.4	1.5	19.8	
CWII-1	93.6	101.0	-2.3	6.0	19.4	
CWII-2	94.2	59.6	-2.2	1.6	18.8	
CWII-3	81.5	35.2	-3.0	0.1	17.4	
CWII-4	47.0	0.0	-0.1	0.0	20.2	
CWII-5	48.9	0.0	-0.1	0.0	19.8	
CWII-6	50.6	0.0	0.0	0.1	16.5	
CWII-7	47.2	0.0	0.0	0.0	16.6	
CWII-8	46.2	0.0	-0.1	0.0	19.2	
CWII-9	50.7	19.2	-0.9	0.1	16.1	
NW-1	59.8	58.8	-2.5	0.0	20.3	
NW-2	58.4	60.4	-2.6	0.0	20.5	
NW-3	57.2	57.2	-2.3	0.0	20.5	
NW-4	59.0	76.4	-2.3	0.0	20.5	
NW-5	58.5	107.0	-1.8	0.0	20.7	
NW-6	58.6	109.0	-1.8	0.0	20.3	
Ext-1	61.5	5.5	-1.7	0.0	20.5	
Ext-2	62.4	15.6	-1.6	0.0	20.8	
Ext-3	63.1	22.4	-1.6	0.1	20.8	
Ext-4	62.3	23.6	-1.5	0.1	20.1	
Ext-5	61.0	54.0	-1.3	0.0	19.6	
N-1	65.4	38.5	-0.3	0.0	18.8	
N-2	62.4	10.2	-0.7	1.4	15.4	
N-3	50.2	2.3	-0.1	0.0	20.2	
N-4	49.6	1.3	-0.2	0.0	21.2	
N-5	48.7	1.0	-0.2	0.0	19.6	
N-6	48.1	1.1	-0.1	0.0	17.5	
Blower Station - 1	63.6	2950.0	-6.0	0.6	19.8	
Blower Station - 2	63.6	3100.0	-20.6	0.6	19.8	
Blower Station - 3	76.4	4000.0	1.8	0.6	19.8	

Table 3
Summary of Methane Detections
Landfill Gas Monitoring Wells
Town of Huntington East Northport Landfill, East Northport, New York
for period of record between October, 1999 and December, 2004

Well	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00	1/01
MW-7C	0.0	0.0	0.0	0.0	na	0.0	0.0	0.0	0.0	0.1	na	0.0	0.0	0.0	0.0	0.0
MW-8C	0.0	0.0	0.0	0.0	na	0.0	0.0	0.0	0.0	0.1	na	0.0	0.0	0.0	0.0	0.0
MW-9A	0.0	0.0	0.2	0.0	na	0.0	0.0	0.0	0.0	0.0	na	0.0	0.0	0.0	0.0	0.0
MW-9B	0.1	0.4	0.2	0.8	na	0.0	0.0	0.0	0.0	0.1	na	0.0	0.0	0.0	0.0	0.0
MW-9C	0.0	0.3	0.2	0.9	na	0.0	0.0	0.0	0.0	0.0	na	0.0	0.0	0.0	0.0	0.0
MW-11A	0.0	0.0	0.0	0.0	na	0.0	0.0	0.1	0.0	0.0	na	0.0	0.0	0.0	0.0	0.0
MW-12A	0.0	0.0	0.0	0.0	na	0.0	0.0	0.0	0.0	0.1	na	0.0	0.0	0.0	0.0	0.0
MW-12C	0.0	0.0	0.0	0.0	na	0.0	0.0	0.0	0.0	0.1	na	0.0	0.0	0.0	0.0	0.0
MW-18A	0.4	0.0	0.0	0.0	na	0.0	0.0	0.0	0.0	0.0	na	0.0	0.0	0.0	0.0	0.0
MW-19A	0.0	0.0	0.3	0.4	na	0.0	0.0	0.0	0.0	0.0	na	0.0	0.0	0.0	0.0	0.0
MW-24C	0.0	0.0	0.0	0.0	na	0.0	0.0	0.0	0.3	0.0	na	0.0	0.0	0.0	0.0	0.0
MW-38B	1.0	0.0	0.0	0.0	na	0.0	0.0	0.0	0.0	0.0	na	0.0	0.0	0.0	0.0	0.0
MW-39A	0.0	0.2	0.0	0.0	na	0.0	0.0	0.0	0.0	0.0	na	0.0	0.0	0.0	0.0	0.0
MW-49A	0.0	0.0	0.0	0.0	na	0.0	0.0	0.0	0.0	0.0	na	0.1	0.0	0.0	0.0	0.0
MW-49B	0.0	0.0	0.0	0.0	na	0.0	0.0	0.0	0.0	0.0	na	0.0	0.0	0.0	0.0	0.0
MW-49C	0.0	0.0	0.0	0.0	na	0.0	0.0	0.0	0.0	0.0	na	0.1	0.0	0.0	0.0	0.0
AS-SW	0.0	0.0	0.0	0.0	na	0.0	0.0	0.0	0.0	0.0	na	0.0	1.0	0.0	0.0	0.0
AS-SC	0.0	0.0	0.0	0.0	na	0.0	0.0	0.0	0.0	0.0	na	0.2	0.0	0.0	0.0	0.0
AS-NE	0.0	0.0	0.0	0.0	na	0.0	0.0	0.0	0.0	0.0	na	0.0	0.0	0.0	0.0	0.0

na - not available
 Measured in % Volume

Table 3 (continued)

Well	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02
MW-7C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-8C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-9A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-9B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-9C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-11A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-12A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-12C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-18A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-19A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-24C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-38B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-39A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-49A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-49B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-49C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AS-SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AS-SC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AS-NE	0.0	5.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0

na - not available
 Measured in % Volume

Table 3 (continued)

Well	6/02	7/02	8/02	9/02	10/02	11/02	12/02	1/03	2/03	3/03	4/03	5/03	6/03	7/03	8/03	9/03
MW-7C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-8C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-9A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-9B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-9C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-11A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-12A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-12C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-18A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-19A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-24C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-38B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	na	0.0	0.0	0.0
MW-39A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	na	0.0	0.0	0.0
MW-49A	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	na	0.0	0.0	0.0
MW-49B	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	na	0.0	0.0	0.0
MW-49C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	na	0.0	0.0	0.0
AS-SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	na	0.0	0.0	0.0	na	0.0	0.0	0.0
AS-SC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	na	0.0	0.0	0.0	na	0.0	0.0	0.0
AS-NE	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	na	0.0	0.0	0.0

na - not available
 Measured in % Volume

Table 3 (continued)

Well	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04	7/04	8/04	9/04	10/04	11/04	12/04	1/05
MW-7C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-8C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-9A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-9B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-9C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-11A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-12A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-12C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-18A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-19A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-24C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-38B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-39A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-49A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-49B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-49C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AS-SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AS-SC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AS-NE	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

na - not available
 Measured in % Volume

Table 4
Landfill Gas Control Well Methane Data
Town of Huntington East Northport Landfill, East Northport, New York
for period of record between October, 1999 and December, 2004

Well	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00	1/01
CWI-4	0.2	0.3	0.3	0.0	NA	0.0	0.0	0.6	0.6	2.3	NA	0.2	0.2	0.2	6.0	0.2
CWI-5	1.6	3.2	1.5	0.0	NA	0.7	0.7	0.7	0.8	0.4	NA	1.4	3.4	1.6	1.1	1.6
CWI-6	0.8	3.6	0.7	0.0	NA	0.7	0.3	0.9	0.8	1.8	NA	1.3	0.6	1.0	0.8	1.4
CWI-7	1.9	1.9	1.9	0.0	NA	na	0.8	1.2	1.3	2.7	NA	3.0	2.0	2.8	0.0	2.2
CWII-1	5.0	10.0	5.0	5.1	NA	4.3	3.0	1.3	1.2	5.6	NA	5.5	6.0	10.0	4.8	8.0
CWII-2	3.0	5.4	3.1	7.0	NA	0.8	2.3	1.0	1.0	4.3	NA	5.2	3.2	4.0	3.0	4.4
CWII-3	6.8	12.5	7.2	11.2	NA	10.7	7.3	5.5	4.9	7.2	NA	6.0	5.5	12.5	10.0	4.8
CWII-4	5.3	8.5	7.4	6.9	NA	5.0	5.0	0.0	0.0	8.4	NA	5.5	4.9	6.0	0.2	6.0
CWII-5	0.0	1.0	0.0	0.0	NA	0.0	0.0	0.5	0.0	1.0	NA	0.0	0.0	0.0	0.2	0.0
CWII-6	3.5	6.0	0.8	0.0	NA	0.0	1.5	0.1	0.0	5.4	NA	6.0	4.0	5.0	0.9	0.0
CWII-7	0.9	1.3	0.0	0.0	NA	0.0	0.0	0.5	0.3	0.0	NA	0.2	0.1	0.2	0.1	0.0
CWII-8	0.0	0.0	0.0	0.0	NA	0.0	0.0	0.3	0.4	0.0	NA	0.0	0.0	0.0	0.2	0.0
CWII-9	0.8	2.2	0.0	0.0	NA	0.0	0.0	0.2	0.1	0.9	NA	1.6	1.0	1.6	0.3	0.0
NW-1	0.0	0.0	0.0	na	NA	0.0	0.0	0.0	0.0	0.2	NA	0.0	0.0	0.0	0.0	0.0
NW-2	0.0	0.0	0.1	0.0	NA	0.0	0.0	0.0	0.0	0.4	NA	0.1	0.0	0.0	0.0	0.0
NW-3	0.0	0.0	0.0	0.0	NA	0.2	0.0	0.0	0.0	0.5	NA	0.1	0.0	0.0	0.1	0.0
NW-4	0.4	0.3	0.1	0.0	NA	0.0	0.0	0.0	0.0	0.9	NA	0.0	0.0	0.0	0.0	0.0
NW-5	0.0	0.0	0.1	0.0	NA	0.0	0.0	0.0	0.0	0.5	NA	0.0	0.0	0.0	0.0	0.0
NW-6	0.0	0.1	0.2	0.0	NA	0.0	0.0	0.0	0.0	0.0	NA	0.0	0.0	0.0	0.0	0.0
Ext-1	0.0	0.0	0.0	0.0	NA	0.0	0.0	0.8	0.9	0.4	NA	0.0	0.0	0.0	0.0	0.0
Ext-2	0.0	0.6	0.0	0.0	NA	0.0	1.2	1.1	0.9	0.7	NA	0.6	0.2	0.5	0.3	0.6
Ext-3	0.0	3.1	0.0	0.0	NA	1.0	1.8	0.0	0.0	0.5	NA	2.3	0.1	2.0	0.0	2.2
Ext-4	0.0	1.4	0.0	0.0	NA	0.5	0.0	1.1	0.9	0.1	NA	1.4	0.3	0.8	0.4	1.9
Ext-5	0.0	0.0	0.0	0.0	NA	0.0	0.0	0.0	0.0	0.2	NA	0.0	0.0	0.0	0.0	0.0
N-1	0.0	NA	0.0	0.0	NA	0.0	0.0	0.0	0.0	0.0	NA	0.1	0.0	0.0	0.0	0.0
N-2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	5.0	0.2	5.0	0.0
N-3	0.0	0.0	0.0	0.0	NA	0.0	0.0	na	0.0	0.0	NA	0.0	0.0	0.0	0.0	na
N-4	0.0	0.0	0.0	0.0	NA	0.0	0.0	0.1	0.1	0.0	NA	0.0	0.0	0.0	0.0	0.0
N-5	0.2	0.3	0.0	0.0	NA	0.0	0.0	0.0	0.0	0.0	NA	0.1	0.0	0.0	0.0	0.0
N-6	0.0	0.0	0.0	0.0	NA	0.0	0.0	0.0	0.0	0.0	NA	0.3	0.2	0.1	0.0	0.0
BS-1	1.0	1.6	1.3	0.8	NA	0.9	0.9	0.5	0.4	2.6	NA	1.8	0.6	0.6	0.1	1.4

na - not available
 Measured in % Volume

Table 4 (continued)

Well	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02
CWI-4	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.3	0.2	0.4	0.0	0.1	1.0
CWI-5	1.2	1.0	1.2	1.0	1.2	1.2	1.2	1.0	1.4	1.2	1.2	1.0	1.0	1.0	1.2	0.0
CWI-6	0.9	0.5	1.0	1.4	1.2	1.6	2.0	1.1	1.0	1.0	0.8	2.0	1.5	1.0	1.1	2.0
CWI-7	1.8	1.4	1.6	2.4	3.0	3.4	2.8	2.6	3.0	1.6	0.0	2.0	2.0	1.8	0.0	1.6
CWII-1	8.0	4.4	6.0	8.0	8.0	8.0	8.0	8.0	12.0	5.0	4.8	8.0	5.0	6.0	4.0	5.0
CWII-2	3.8	3.0	3.8	4.0	3.8	4.4	6.0	4.0	4.2	2.5	2.8	2.5	2.8	2.5	2.5	2.8
CWII-3	4.6	12.0	6.0	4.6	4.8	10.0	4.8	4.6	12.0	10.0	NA	NA	10.0	9.8	8.0	7.0
CWII-4	5.0	10.0	7.0	10.0	8.0	8.0	10.0	8.0	10.0	5.0	3.0	8.0	8.0	6.8	5.0	5.0
CWII-5	0.0	0.0	0.0	0.3	0.0	0.3	0.3	0.0	0.2	0.0	0.2	0.1	0.0	0.0	0.0	0.1
CWII-6	0.0	0.2	0.0	3.8	4.8	6.0	4.8	5.0	7.0	3.6	0.8	3.0	3.0	3.4	3.4	5.0
CWII-7	0.0	0.3	0.0	0.0	0.1	0.0	0.2	0.1	0.2	0.2	0.0	0.2	0.0	0.2	0.2	0.2
CWII-8	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CWII-9	0.2	0.0	0.2	1.3	1.0	1.2	1.3	1.3	1.6	1.1	0.6	1.0	1.0	1.0	0.9	0.6
NW-1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW-2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW-3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW-4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
NW-5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW-6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ext-1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ext-2	0.2	0.4	0.1	0.4	0.0	0.2	0.0	0.1	0.0	0.0	0.2	0.3	0.4	0.1	0.0	0.3
Ext-3	0.0	1.8	0.1	1.2	0.0	0.0	0.0	0.4	0.2	0.2	0.0	1.8	1.8	1.4	0.2	2.5
Ext-4	0.2	1.8	0.4	1.4	0.0	0.2	0.0	0.6	0.4	0.2	0.5	1.4	1.5	1.1	0.4	3.1
Ext-5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9
N-1	0.0	0.0	0.0	0.0	0.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N-2	0.0	0.0	0.0	0.0	0.5	0.0	6.0	0.0	18.0	2.5	2.8	2.4	10.0	3.4	2.8	1.7
N-3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N-4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
N-5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N-6	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.2	1.0	0.3	0.0	0.0
BS-1	1.0	0.8	0.8	1.0	1.2	1.4	0.5	1.2	1.3	0.6	1.0	1.0	1.0	1.1	1.0	1.0

na - not available

Measured in % Volume

Table 4 (continued)

Well	6/02	7/02	8/02	9/02	10/02	11/02	12/02	1/03	2/03	3/03	4/03	5/03	6/03	7/03	8/03	9/03
CWI-4	0.0	0.2	0.8	0.2	0.3	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.0	0.1	0.1	0.1
CWI-5	0.7	0.2	1.0	0.9	0.9	0.8	0.9	0.8	0.9	0.6	0.7	0.8	0.1	0.8	0.6	0.7
CWI-6	0.9	1.0	1.1	1.1	1.1	0.3	0.9	0.2	0.8	0.6	0.7	1.0	0.0	1.0	0.8	0.6
CWI-7	1.3	1.5	1.6	1.5	1.3	0.9	0.8	0.6	0.7	0.4	0.6	0.9	0.1	1.8	1.0	1.2
CWII-1	5.0	5.0	5.0	7.0	3.0	8.0	8.0	8.0	6.0	6.0	7.0	8.0	0.1	7.0	7.0	7.2
CWII-2	0.1	1.8	1.6	1.3	1.0	2.0	2.6	1.6	2.2	2.3	3.2	3.3	0.1	2.4	2.3	2.6
CWII-3	0.3	6.0	5.0	7.0	3.5	6.0	11.0	5.5	7.0	7.0	8.0	12.0	0.0	6.0	3.8	3.6
CWII-4	0.2	5.0	5.0	5.0	6.0	7.0	7.0	6.2	NA	6.0	6.0	7.0	0.0	5.0	6.0	6.0
CWII-5	0.4	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.6	0.0	0.3	0.2	0.3
CWII-6	3.9	4.7	4.6	4.8	3.8	2.1	1.0	1.3	0.1	1.1	0.4	2.8	0.0	2.7	2.3	2.4
CWII-7	0.2	0.2	0.3	0.2	0.2	0.1	0.0	0.1	NA	0.1	0.1	0.1	0.0	0.1	0.1	0.2
CWII-8	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.0	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CWII-9	1.2	1.2	1.0	1.0	1.0	1.0	0.1	0.6	0.0	0.7	0.5	1.1	0.1	0.7	0.8	0.9
NW-1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW-2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW-3	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW-4	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW-5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW-6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ext-1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NA	0.0	0.0	0.0
Ext-2	0.0	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.2	0.2	NA	0.1	0.2	0.1
Ext-3	0.1	0.4	0.4	0.7	0.2	1.8	0.2	1.6	1.4	1.4	0.8	0.6	NA	0.7	0.6	0.7
Ext-4	0.3	2.0	1.8	0.7	0.3	1.9	0.5	1.7	1.0	0.6	1.2	1.0	NA	1.0	1.0	1.0
Ext-5	2.1	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	NA	0.0	0.0	0.0
N-1	0.0	0.3	0.2	0.2	0.1	0.1	0.1	0.1	NA	0.0	0.0	0.0	NA	0.0	0.0	0.0
N-2	2.5	0.0	3.8	3.4	3.5	3.7	3.5	3.5	NA	0.0	0.0	0.0	NA	3.5	2.5	2.0
N-3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NA	0.0	0.0	0.0	NA	0.0	0.0	0.0
N-4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NA	0.0	0.0	0.0	NA	0.0	0.0	0.0
N-5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NA	0.0	0.0	0.0	NA	0.0	0.0	0.0
N-6	0.1	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.1	NA	0.1	0.1	0.1
BS-1	1.0	1.2	1.1	1.1	1.2	1.1	1.4	1.0	1.0	0.8	0.9	1.1	0.0	0.9	0.9	0.8

na - not available
Measured in % Volume

Table 4 (continued)

Well	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04	7/04	8/04	9/04	10/04	11/04	12/04	1/05
CWI-4	0.1	0.1	0.1	0.1	0.2	0.4	0.3	0.1	0.2	0.2	0.8	0.2	0.1	0.1	0.1	
CWI-5	0.5	0.6	0.5	0.8	1.9	1.0	1.2	0.4	0.5	0.4	1.2	0.5	0.8	1.0	0.6	
CWI-6	0.7	0.5	0.5	0.6	0.9	0.8	1.0	0.4	0.4	0.4	1.0	1.2	0.8	0.7	0.7	
CWI-7	1.0	1.1	1.2	1.0	1.7	2.3	1.3	0.8	0.7	0.6	0.8	1.5	1.6	2.6	1.5	
CWII-1	7.5	7.0	7.2	6.0	7.0	12.0	10.0	9.0	9.0	8.1	8.0	3.7	6.0	6.0	6.0	
CWII-2	2.0	2.5	2.3	2.3	1.2	1.6	1.8	0.6	0.8	0.7	0.8	1.7	1.6	1.5	1.6	
CWII-3	4.0	4.0	4.0	1.2	1.7	7.0	8.0	7.0	7.5	3.1	4.2	2.5	1.8	1.8	0.1	
CWII-4	5.5	5.2	5.1	NA	3.1	NA	5.2	1.7	0.8	0.6	1.0	3.5	3.2	3.9	0.0	
CWII-5	0.1	0.2	0.2	0.0	0.1	0.6	0.2	0.5	0.5	0.6	0.8	0.7	0.2	0.1	0.0	
CWII-6	2.5	2.4	2.3	0.1	0.8	1.6	2.0	2.0	1.8	2.2	2.8	0.1	0.1	0.1	0.1	
CWII-7	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.4	0.1	0.0	0.1	0.0	
CWII-8	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.2	0.2	0.1	0.0	0.0	0.0	
CWII-9	0.5	0.5	0.4	0.1	0.4	0.6	1.0	0.1	0.1	0.6	0.4	0.1	0.3	0.1	0.1	
NW-1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
NW-2	0.0	0.0	0.0	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
NW-3	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
NW-4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
NW-5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
NW-6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Ext-1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	1.0	0.0	0.0	0.9	0.0	
Ext-2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	
Ext-3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.7	0.1	
Ext-4	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.3	0.1	
Ext-5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
N-1	0.0	0.0	0.1	NA	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
N-2	2.4	1.7	3.0	NA	3.8	2.9	3.6	0.1	0.0	0.0	0.0	0.0	3.9	3.5	1.4	
N-3	0.0	0.0	0.1	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
N-4	0.0	0.0	0.1	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
N-5	0.0	0.0	0.0	NA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
N-6	0.0	0.0	0.1	0.0	0.1	NA	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	
BS-1	0.6	0.7	0.8	0.8	0.7	1.0	0.6	0.3	0.4	0.7	0.8	0.6	0.6	0.7	0.6	

na - not available
 Measured in % Volume

APPENDIX 1

Landfill Gas Control Well Vacuum Data
East Northport Landfill, East Northport, New York
 for period of record between October, 1999 and December, 2004

Well	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00	1/01	2/01	3/01	4/01
CWI-4	-3.7	-2.9	-4.3	-4.0	NA	-4.4	-5.0	-5.4	-6.4	-5.2	NA	-3.8	-3.8	-3.9	-4.7	-4.5	-4.0	-4.4	-4.3
CWI-5	-3.7	-2.7	-4.4	-4.0	NA	-4.8	-5.6	-3.7	-4.7	-3.1	NA	-3.8	-3.6	-3.8	-5.0	-4.9	-4.2	-4.7	-4.5
CWI-6	-3.8	-3.0	-5.0	-4.6	NA	-5.1	-5.7	-3.6	-3.6	-3.6	NA	-4.0	-4.1	-4.2	-5.1	-5.3	-4.4	-4.8	-4.6
CWI-7	-3.7	-3.6	-3.7	-4.2	NA	NA	5.5	-3.7	-3.5	-3.3	NA	-3.9	-3.2	-3.1	-3.8	-5.3	-4.3	-3.8	-3.7
CWI-1	-3.1	-2.4	-4.0	-3.8	NA	-4.3	-4.5	-2.8	-2.6	-3.3	NA	-3.4	-3.3	-3.4	-4.3	-4.5	-3.7	-4.1	-3.9
CWI-2	-3.4	-3.1	-4.4	-4.4	NA	-4.8	-5.2	-3.0	-3.1	-4.6	NA	-3.5	-3.6	-3.7	-4.6	-4.9	-3.9	-4.4	-4.1
CWI-3	-3.4	-3.4	-4.6	-4.6	NA	-5.1	-4.8	-3.1	-4.4	-3.3	NA	-3.6	-3.7	-3.7	-4.8	-5.1	-4.0	-4.4	-4.2
CWI-4	-3.3	-3.0	-4.4	-4.3	NA	-4.9	-4.6	-3.0	-3.6	-3.1	NA	-3.5	-3.6	-3.6	-4.6	-5.1	-3.9	-4.3	-4.1
CWI-5	-3.4	-3.1	-4.4	-3.6	NA	-3.8	-4.8	-1.8	-3.7	-3.8	NA	-3.6	-3.6	-3.7	-4.8	-0.4	-4.0	-4.4	-4.2
CWI-6	-2.4	-2.2	0.0	0.3	NA	0.0	-3.3	-2.9	-3.6	-3.6	NA	-2.7	-2.6	-2.6	-0.1	0.0	-3.0	-3.2	-3.1
CWI-7	-2.0	-1.9	0.0	0.2	NA	0.0	-2.8	-1.8	-2.9	-0.9	NA	-2.2	-2.1	-2.1	-0.4	0.0	-2.3	-1.7	-2.4
CWI-8	0.0	0.0	0.1	0.3	NA	0.3	0.0	-1.6	-2.0	0.0	NA	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1
CWI-9	-1.4	-2.4	0.0	-0.8	NA	0.0	-2.7	-1.2	-1.8	-0.4	NA	-1.3	-1.4	-1.3	0.0	0.0	-1.5	-2.6	-1.7
NW-1	-3.0	-3.1	-3.3	NA	NA	-4.0	-3.6	-3.7	-3.7	-3.0	NA	-3.3	-3.3	-3.4	-5.3	-3.9	-3.5	-3.7	-3.9
NW-2	-2.2	-2.3	-2.7	-2.6	NA	-3.1	-3.1	-3.6	-3.6	-2.9	NA	-2.7	-2.6	-2.7	-5.3	-3.1	-3.0	-3.4	-3.4
NW-3	-2.7	-2.9	-3.2	-3.6	NA	-4.1	-4.2	-3.1	-3.1	-3.0	NA	-3.6	-3.4	-3.5	-4.9	-4.0	-3.7	-4.1	-4.1
NW-4	-2.9	-3.2	-3.6	-4.0	NA	-4.3	-4.4	-5.1	-3.4	-2.8	NA	-4.0	-3.7	-3.8	-4.2	-4.4	-4.1	-4.4	-4.4
NW-5	-2.2	-2.8	-2.7	-3.8	NA	-3.2	-3.6	-2.9	-3.0	-2.9	NA	-3.4	-3.1	-3.0	-3.6	-3.5	-3.0	-3.4	-3.4
NW-6	-2.2	-2.7	-3.0	-3.3	NA	-3.6	0.0	-3.0	-3.0	3.0	NA	-3.2	-3.1	-3.1	-3.6	-3.6	-3.6	-3.9	-3.6
Ext-1	-2.6	-2.1	0.0	-2.5	NA	-4.0	-4.0	-2.2	-1.6	-1.1	NA	-3.6	-3.5	-3.6	-3.9	-3.7	-3.9	-4.0	-0.1
Ext-2	-3.0	-3.0	0.0	-3.2	NA	-3.9	-3.9	-3.8	-1.4	-1.3	NA	-3.4	-3.5	-3.5	-3.9	-3.5	-3.7	-1.3	-1.4
Ext-3	-2.9	-2.8	0.0	-2.6	NA	-3.9	-3.6	-3.0	-2.1	-2.4	NA	-3.4	-3.4	-3.4	-3.8	-3.5	-3.5	-3.8	-3.7
Ext-4	-2.5	-2.6	0.0	-2.6	NA	-3.6	-4.4	-3.3	-3.0	-2.6	NA	-3.2	-3.1	-3.1	-3.7	-3.4	-3.4	-3.6	-3.7
Ext-5	-1.9	-2.1	0.0	-1.0	NA	-3.7	-3.6	-2.9	-2.8	-2.7	NA	-2.9	-2.7	-2.7	-2.8	-2.9	-2.8	-3.3	-3.0
N-1	0.0	NA	0.0	0.0	NA	-0.2	-0.6	na	-3.7	-0.1	NA	-0.9	-0.7	-0.2	-0.7	-0.3	-0.5	-0.3	0.0
N-2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	-0.1	0.0	-0.4	0.1	-0.2	-0.1	-0.2
N-3	0.4	0.0	-0.3	0.0	NA	0.0	0.0	na	0.0	-0.6	NA	-0.2	0.0	0.0	-0.2	NA	0.0	-0.1	-0.1
N-4	0.0	0.0	0.0	0.0	NA	0.0	0.0	0.0	0.0	-0.7	NA	-0.1	0.0	0.0	-0.2	0.0	-0.1	-0.1	-0.1
N-5	0.9	-0.1	0.2	0.4	NA	-0.4	-0.2	-1.2	0.0	-1.8	NA	-0.2	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
N-6	0.0	0.0	0.2	0.0	NA	-1.0	-1.6	0.0	-3.2	-1.6	NA	-1.4	-1.4	-1.3	0.0	0.0	-1.4	-1.7	-1.5
BS-1	-6.6	-6.6	-7.3	-7.4	NA	-7.4	-9.2	-6.7	-7.4	-7.2	NA	-6.7	-6.8	-6.8	-7.4	-7.6	-7.0	-7.6	-7.5

Measured in inches of H2O
 na = not available

Landfill Gas Control Well Vacuum Data
East Northport Landfill, East Northport, New York
for period of record between October, 1999 and December, 2004

Well	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02	10/02	11/02
CWI-4	-3.9	-3.8	-3.7	-4.7	-1.7	-5.2	-5.1	-4.9	-4.4	-4.3	-4.3	-5.9	-6.5	-5.8	-5.5	-5.6	-5.9	-3.7	-6.3
CWI-5	-4.1	-3.8	-3.9	-4.9	-1.7	-5.5	-5.1	-5.0	-4.5	-4.3	-4.5	-6.0	-6.0	-5.9	-5.5	-5.9	-5.8	-3.8	-6.8
CWI-6	-4.5	-4.1	-4.5	-5.1	-1.9	-5.6	-5.4	-5.1	-4.9	-1.6	-4.8	-6.5	-6.4	-6.3	-6.1	-6.2	-6.3	-4.1	-7.1
CWI-7	-3.4	-3.2	-3.3	-3.9	-1.8	-4.2	-4.1	-4.2	-3.6	-3.4	-3.5	-4.8	-4.8	-4.8	-4.4	-4.9	-4.7	-2.8	-5.6
CWII-1	-3.8	-2.9	-3.8	-4.3	-1.6	-4.8	-4.4	-4.5	-4.1	-3.9	-3.9	-5.1	-5.0	-5.1	-4.5	-4.8	-4.9	-2.6	-5.8
CWII-2	-3.9	-3.7	-4.2	-4.6	-1.7	-4.9	-4.7	-4.6	-4.2	-4.0	-4.1	-5.5	-5.6	-5.7	-4.7	-4.8	-5.0	-3.0	-6.2
CWII-3	-3.9	-3.7	-3.9	-4.7	-1.9	-5.2	-5.0	NA	NA	-4.2	-4.2	-5.7	-6.0	-5.7	-5.0	-5.6	-5.6	-2.6	-6.5
CWII-4	-4.6	-3.6	-3.7	-4.6	-1.9	-5.1	-4.6	-4.6	-4.2	-4.1	-4.0	-5.6	-5.5	-5.4	-5.0	-5.4	-5.3	-2.0	-6.2
CWII-5	-3.9	-3.7	-4.1	-4.6	-1.9	-5.0	-4.7	-4.6	-4.3	-4.0	-4.2	-5.6	-5.6	-5.6	-5.1	-5.4	-5.5	-2.0	-6.2
CWII-6	-3.1	-2.9	-1.3	-3.6	-1.2	-2.2	-3.4	-2.9	-3.2	-3.0	-3.0	-4.2	-4.0	-4.0	-3.9	-3.8	-4.0	-4.2	-4.6
CWII-7	-2.2	-1.7	-0.9	-2.6	-0.9	-1.5	-2.7	-0.3	-2.4	-2.4	-2.3	-3.3	-3.1	-3.1	-2.5	-2.4	-3.2	-3.5	-3.6
CWII-8	-1.6	-0.1	0.0	-0.2	0.0	0.0	-0.1	-0.2	0.0	0.0	0.0	-0.1	-0.2	-0.1	-0.1	-0.1	-0.1	0.0	0.0
CWII-9	-1.4	-1.4	-0.6	-1.6	-0.6	-1.0	-1.7	-1.4	-1.6	-1.5	-1.5	-2.0	-1.8	-1.9	-1.7	-1.4	-2.0	-2.1	-2.0
NW-1	-3.7	-3.3	-3.3	-4.0	-0.7	-4.6	-4.5	-4.3	-4.0	-3.9	-3.8	-4.1	-3.8	-5.1	-3.5	-5.1	-5.1	-4.0	-5.5
NW-2	-3.0	-2.6	-2.4	-2.9	-1.1	-3.9	-3.3	-3.8	-3.1	-3.0	-2.9	-3.9	-3.6	-5.5	-4.9	-3.7	-3.7	-3.5	-4.0
NW-3	-3.9	-3.2	-3.6	-4.0	-1.5	-4.2	-4.2	-4.3	-3.9	-3.9	-3.8	-3.9	-3.7	-4.7	-4.7	-4.7	-4.9	-4.6	-5.6
NW-4	-4.1	-3.7	-3.6	-4.4	-1.2	-4.9	-5.0	-4.6	-4.3	-4.1	-4.0	-5.4	-4.9	-5.8	-5.5	-5.5	-5.6	-4.1	-6.5
NW-5	-3.3	-2.9	-2.9	-3.6	-1.5	-3.7	-4.0	-4.1	-3.5	-3.3	-3.2	-4.5	-3.9	-3.9	-4.1	-4.0	-4.4	-4.0	-4.8
NW-6	-3.4	-3.0	-3.0	-3.6	-1.2	-4.3	-4.0	-3.9	-3.5	-3.3	-3.3	-4.1	-3.9	-4.6	-4.2	-4.2	-4.4	-4.2	-5.0
Ext-1	-0.2	0.0	-0.1	-0.1	-0.1	-0.2	-0.2	-1.3	-0.2	-0.2	-0.1	-0.2	-0.2	-1.8	-0.1	-0.1	-0.2	-0.3	-0.1
Ext-2	-1.4	-1.2	-1.2	-1.4	-0.5	-1.4	-1.6	-2.1	-1.4	-1.4	-1.3	-1.8	-1.8	-0.2	-1.6	-1.6	-1.5	-1.6	-1.7
Ext-3	-3.6	-3.3	-3.2	-3.6	-1.4	-4.1	-4.1	-4.0	-3.7	-3.6	-3.6	-5.0	-4.9	-5.0	-4.6	-4.8	-4.4	-4.9	-5.3
Ext-4	-3.6	-2.9	-3.0	-3.5	-1.1	-3.9	-4.1	-4.1	-3.6	-3.6	-3.4	-4.8	-3.9	-4.9	-4.0	-4.0	-4.2	-4.7	-4.9
Ext-5	-2.9	-2.5	-2.5	-2.9	-1.1	-3.6	-3.6	-3.7	-3.2	-3.2	-3.1	-4.2	-3.7	-3.8	-3.2	-3.4	-3.8	-3.9	-4.2
N-1	-0.2	-1.1	-1.6	-2.1	-0.3	-0.3	-0.2	-0.3	-0.3	-0.4	-0.4	-0.3	-0.3	-0.3	-2.1	-2.3	-2.1	-1.3	-1.0
N-2	-0.3	-0.2	0.0	-0.4	-0.1	-0.5	-0.5	-0.5	-0.8	-0.6	-0.7	-0.5	-0.2	-0.4	-0.6	-0.9	-0.9	-0.6	-0.5
N-3	-0.2	-0.1	-0.1	-0.2	-0.1	-0.1	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	0.0	-0.2	-0.2	-0.2	-0.2
N-4	-0.2	-0.2	-0.1	-0.2	-0.2	-0.1	-0.2	-0.1	-0.1	-0.1	-0.2	-0.2	0.0	0.0	-0.1	-0.2	-0.2	-0.2	-0.2
N-5	-0.2	-0.1	-0.1	-0.2	-0.1	-0.1	-0.2	-0.2	-0.3	-3.4	-3.4	-0.4	-0.5	-0.2	-0.1	-0.3	-0.2	-0.8	-0.6
N-6	-1.4	-1.3	-0.3	-1.6	-0.7	-1.1	-1.7	-1.3	-1.5	-1.5	-1.5	-1.8	-2.0	-1.9	-1.8	-1.2	-1.0	-2.1	-2.2
BS-1	-7.1	-6.8	-6.9	-8.6	-2.7	-9.9	-9.8	-9.1	-8.5	-8.3	-8.1	-12.1	-12.0	-11.8	-11.5	-11.5	-11.8	-8.2	-12.0

Measured in inches of H2O

na = not available

Landfill Gas Control Well Vacuum Data
East Northport Landfill, East Northport, New York
for period of record between October, 1999 and December, 2004

Well	12/02	1/03	2/03	3/03	4/03	5/03	6/03	7/03	8/03	9/03	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04
CWI-4	-7.2	-6.3	-7.4	-6.8	-6.5	-6.4	NA	-4.1	-4.1	-4.0	-4.2	-4.1	-4.2	-4.3	-2.7	-3.2	-3.1	-2.3	-2.4
CWI-5	-8.0	-6.6	-8.3	-7.2	-7.0	-7.2	NA	-4.6	-4.5	-4.4	-4.6	-2.8	-3.0	-3.4	-3.0	-3.5	-3.6	-2.4	-2.5
CWI-6	-8.7	-6.8	-8.9	-7.4	-7.1	-7.2	NA	-4.5	-4.4	-4.2	-4.4	-3.7	-3.2	-3.7	-2.9	-3.5	-3.4	-2.5	-2.5
CWI-7	-7.4	-5.5	-7.8	-6.3	-6.2	-6.9	NA	-4.2	-4.2	-4.0	-4.3	-2.6	-2.9	-2.7	-2.9	-3.5	-2.8	-2.3	-2.4
CWII-1	-7.6	-5.7	-8.0	-6.4	-6.4	-6.1	NA	-4.2	-3.6	-3.8	-3.5	-3.0	-2.8	-3.1	-2.6	-3.9	-4.0	-3.7	-3.8
CWII-2	-8.5	-6.2	-8.5	-6.5	-6.5	-6.2	NA	-4.0	-3.5	-3.6	-3.5	-3.2	-3.3	-3.1	-2.7	-3.4	-3.4	-1.9	-2.0
CWII-3	-8.7	-6.3	-9.2	-6.9	-6.7	-6.5	NA	-4.1	-3.9	-3.8	-3.7	-3.6	-3.7	-3.3	-2.7	-3.6	-3.5	-2.1	-2.2
CWII-4	-8.3	-6.6	NA	-6.7	-6.5	-6.1	NA	-3.9	-3.7	-3.6	-3.6	-3.5	-3.0	N/A	-2.6	N/A	-3.3	-2.1	-2.5
CWII-5	-0.1	-6.8	0.0	-7.3	-6.6	-6.3	NA	-3.9	-3.9	-3.8	-3.7	-2.4	-2.5	-2.6	-2.7	-3.6	-2.6	-2.0	-1.9
CWII-6	-0.1	-4.3	0.0	-4.8	-4.7	-4.5	NA	-3.1	-3.5	-3.5	-3.6	-3.2	-3.1	-0.1	-1.2	-0.2	-0.3	-0.4	-0.8
CWII-7	0.0	-3.8	NA	-3.9	-3.8	-3.5	NA	-2.2	-2.8	-2.7	-2.5	-3.1	-3.1	-0.2	-1.1	-0.1	-0.2	-0.4	-0.7
CWII-8	0.0	0.0	NA	-0.2	-0.1	0.0	NA	-0.1	-0.1	0.0	-0.2	-0.1	-0.2	0.0	-0.1	0.0	0.0	0.1	-0.2
CWII-9	0.0	-2.2	0.0	-2.3	-2.3	-2.2	NA	-1.5	-1.5	-1.4	-1.5	-1.5	-1.3	-0.1	-0.8	-0.2	-0.1	0.0	-0.2
NW-1	-6.1	-5.7	NA	-6.2	-5.9	-6.4	NA	-4.0	-4.0	-3.8	-4.0	-4.0	-4.0	-0.1	-0.1	-3.1	-3.4	-1.8	-2.2
NW-2	-4.8	-4.1	-5.2	-5.0	-4.7	-4.2	NA	-4.7	-4.2	-4.5	-4.7	-2.7	-3.1	N/A	-3.1	-3.5	-3.1	-2.4	-2.8
NW-3	-7.0	-6.4	-6.9	-6.2	-6.0	-6.9	NA	-4.1	-4.0	-4.0	-4.1	-4.0	-3.9	-2.5	-2.8	-3.1	-3.1	-2.2	-2.1
NW-4	-6.3	-4.7	-8.0	-7.0	-6.7	-6.6	NA	-3.9	-3.8	-3.6	-3.8	-3.9	-3.9	-2.6	-2.8	-2.9	-2.6	-1.9	-1.8
NW-5	-5.5	-4.7	NA	-5.7	-5.1	-4.9	NA	-3.1	-3.0	-3.0	-3.1	-3.5	-3.5	-2.3	-2.1	-2.7	-3.0	-1.7	-1.6
NW-6	-5.6	-5.6	-6.5	-5.7	-5.3	-5.3	NA	-3.2	-3.1	-3.0	-3.1	-1.9	-2.1	-2.4	-2.1	-2.5	-2.2	-2.1	-1.9
Ext-1	-0.3	-0.1	-0.2	-0.6	-0.1	-0.1	NA	-0.1	-0.1	-0.1	-0.1	-0.2	-0.1	-0.6	-0.2	-0.6	-0.4	-0.3	-0.9
Ext-2	-2.0	-1.6	-1.8	-1.6	-2.0	-1.5	NA	-2.0	-2.0	-2.0	-2.0	-0.8	-0.8	-1.0	-1.0	-1.2	-1.0	-1.0	-0.7
Ext-3	-5.7	-5.4	-5.2	-4.8	-5.8	-6.0	NA	-5.1	-5.0	-4.8	-3.2	-2.0	-2.2	-2.2	-2.3	-2.5	-2.8	-3.0	-1.7
Ext-4	-5.7	-5.0	-6.2	-5.9	-5.8	-5.5	NA	-5.3	-5.2	-5.0	-3.0	-1.8	-2.0	-1.9	-2.0	-2.1	-2.2	-2.3	-1.5
Ext-5	-4.3	-4.9	-4.2	-3.9	-4.8	-5.0	NA	-4.5	-4.3	-4.2	-4.2	-1.5	-1.9	-1.6	-1.8	-1.9	-1.9	-2.0	-2.2
N-1	-1.5	0.0	NA	-0.1	-0.1	0.0	NA	-1.2	-1.1	-1.0	-1.0	-1.0	-0.9	N/A	-0.7	-0.6	-1.0	-0.7	-0.9
N-2	-1.7	-0.1	NA	-0.1	-0.1	0.0	NA	-0.8	-0.9	-0.9	-0.8	-0.6	-0.8	N/A	-0.6	-0.8	-0.7	-0.5	-0.8
N-3	-0.8	-0.2	NA	-0.2	-0.1	-0.1	NA	-0.2	-0.2	-0.1	-0.2	-0.2	-0.2	N/A	-0.2	-0.2	-0.3	-0.1	-0.1
N-4	-0.3	-0.2	NA	-0.2	-0.1	-0.1	NA	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	N/A	-0.2	-0.2	-0.3	-0.1	-0.1
N-5	-0.3	-0.6	NA	-0.2	-0.1	-0.1	NA	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	N/A	-0.2	-0.2	-0.2	-0.1	-0.2
N-6	0.0	-2.1	0.0	-2.4	-2.3	-2.1	NA	-1.5	-1.3	-1.3	-1.2	-1.0	-0.9	-0.9	-0.8	N/A	-0.9	0.0	-0.8
BS-1	-13.3	-12.6	-13.4	-12.8	-12.5	-12.2	-10.5	-7.6	-7.4	-7.0	-7.8	-11.0	-14.4	-4.3	-4.4	-4.8	-4.4	-3.9	-3.9

Measured in inches of H2O

na = not available

Landfill Gas Control Well Vacuum Data
East Northport Landfill, East Northport, New York
 for period of record between October, 1999 and December, 2004

Well	7/04	8/04	9/04	10/04	11/04	12/04	1/05	2/05	3/05	4/05	5/05	6/05	7/05	8/05	9/05	10/05	11/05	12/05	1/06
CWI-4	-2.4	-2.8	-2.5	-2.5	-3.0	-2.4													
CWI-5	-2.5	-2.0	-3.0	-2.6	-3.2	-2.6													
CWI-6	-2.8	-2.5	-3.1	-2.5	-3.4	-2.5													
CWI-7	-2.7	-2.6	-3.0	-2.4	-3.3	-7.4													
CWII-1	-4.0	-4.2	-3.0	-2.3	-3.1	-2.3													
CWII-2	-2.2	-2.4	-3.0	-2.3	-3.1	-2.2													
CWII-3	-2.4	-2.0	-3.1	-2.3	-3.3	-3.0													
CWII-4	-2.6	-2.7	-3.0	-2.2	-3.3	-0.1													
CWII-5	-2.3	-2.5	-3.0	-2.2	-0.1	-0.1													
CWII-6	-1.7	-2.0	0.0	-1.4	0.0	0.0													
CWII-7	-1.0	-1.0	0.0	-1.0	0.0	0.0													
CWII-8	-0.5	-0.6	0.0	-0.1	0.0	-0.1													
CWII-9	-0.9	-1.0	0.0	-0.7	0.0	-0.9													
NW-1	-2.2	-2.4	-2.3	-2.4	-2.6	-2.5													
NW-2	-2.8	-2.6	-2.9	-2.6	-2.9	-2.6													
NW-3	-2.1	-2.0	-2.1	-2.3	-2.5	-2.3													
NW-4	-1.9	-1.9	-2.2	-2.1	-2.4	-2.3													
NW-5	-1.6	-1.8	-2.2	-1.8	-2.1	-1.8													
NW-6	-2.0	-1.8	-1.8	-1.8	-2.0	-1.8													
Ext-1	-0.9	-0.8	-0.1	-0.1	0.0	-1.7													
Ext-2	-0.9	-1.0	-0.8	-0.7	-0.8	-1.6													
Ext-3	-1.6	-1.8	-1.9	-1.7	-2.1	-1.6													
Ext-4	-1.7	-1.8	-1.7	-1.6	-2.0	-1.5													
Ext-5	-1.3	-1.5	-1.4	-1.4	-1.6	-1.3													
N-1	-0.8	-1.0	-1.0	-0.4	-0.1	-0.3													
N-2	-0.8	-0.8	-0.6	-0.5	-0.6	-0.7													
N-3	-0.2	-0.1	-0.2	-0.1	0.0	-0.1													
N-4	-0.2	-0.2	-0.3	-0.1	-0.1	-0.2													
N-5	-0.3	-0.4	-0.2	-0.1	0.0	-0.2													
N-6	-0.9	-1.0	0.0	-0.8	0.0	-0.1													
BS-1	-3.9	-3.8	-4.3	-4.0	-4.6	-6.0													

Measured in inches of H2O
 na = not available