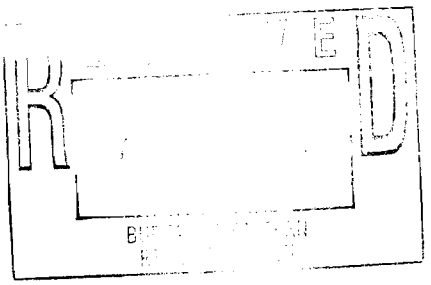
TOWN OF HUNTINGTON

FRANK P. PETRONE, *Supervisor*

ENVIRONMENTAL WASTE MANAGEMENT

March 30, 2005

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 month of January 2005.

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.(1)

RCK:rk
Encl. (1)

Landfill Gas and Control System Monitoring
Town of Huntington East Northport Landfill
East Northport, New York
January, 2005

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

TABLE OF CONTENTS

Figure

Summary Tables

Appendix

Landfill Gas and Control System Monitoring
Town of Huntington East Northport Landfill
East Northport, New York
January, 2005

Introduction

This report presents the results of January, 2005 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.

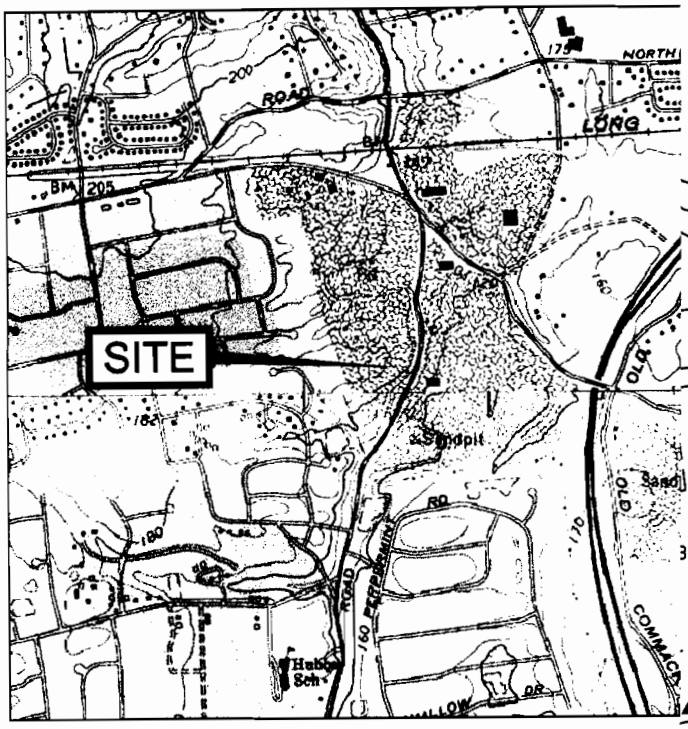
The landfill area and pertinent components of the landfill gas monitoring and control system are illustrated in Figure 1. The scope-of-work completed (per our agreement with the Town of Huntington Department of Environmental Waste Management dated August 15, 2003) precedes a summary of results. A discussion 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:

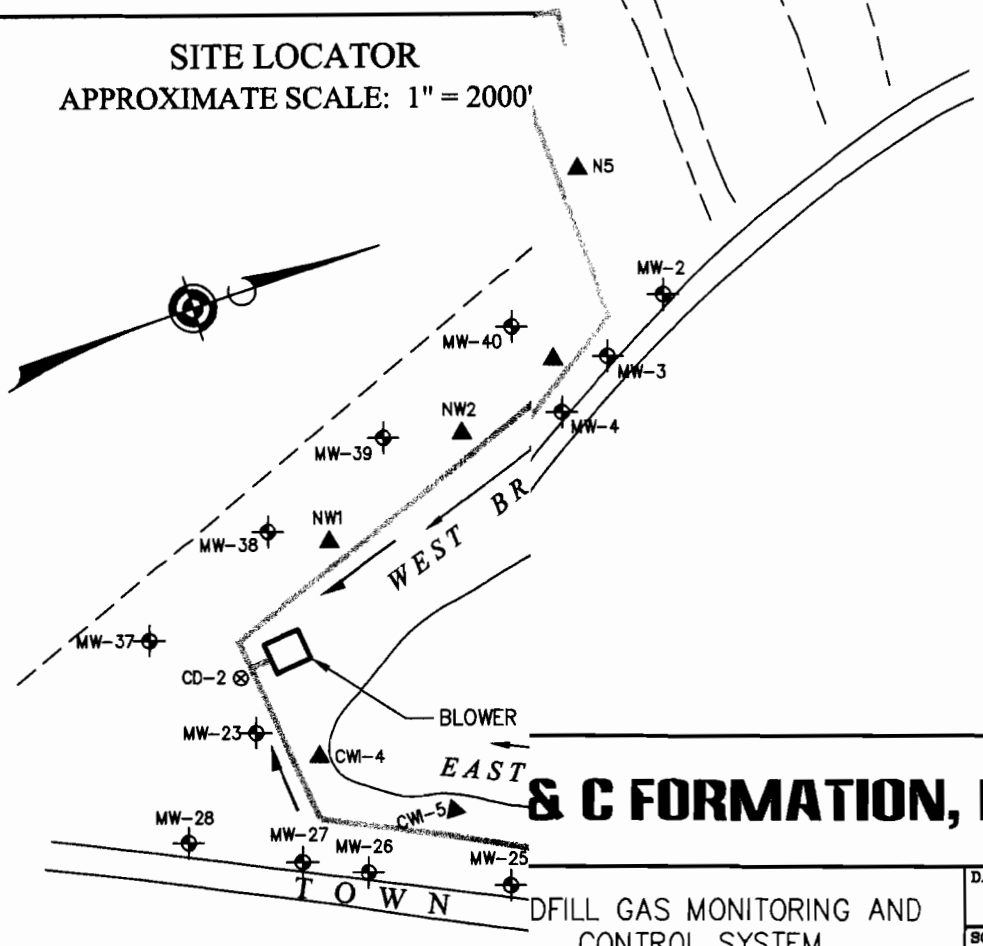
1) Monitoring of all probes in 43 landfill monitoring wells and up to 5 probes around the Town Animal Control Facility for methane gas and gas pressure.

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).



SITE LOCATOR

APPROXIMATE SCALE: 1" = 2000'



& C FORMATION, LTD.

DFILL GAS MONITORING AND CONTROL SYSTEM

TOWN OF HUNTINGTON
EAST NORTHPORT LANDFILL
EAST NORTHPORT, NY

DATE:	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 January 26 and 30, 2005. Climatic conditions for the monitoring period are as follows:

January 26 - Temperature: 27 (°F); Barometric Pressure: 29.75 (in. Hg); Relative Humidity: 74.0%; Precipitation: 0.01 inches; Wind Speed & Direction: 8.7 mph, northerly.

January 31 – Temperature: 26 (°F); Barometric Pressure: 30.34 (in. Hg); Relative Humidity: 56.5%; Precipitation: 0.00 inches; Wind Speed & Direction: 8.5 mph, northerly.

Monitoring Wells

Table 1 presents a summary of measured and recorded landfill gas monitoring well data. 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 - -4.0 (in. H_20). "Extracted" methane values range from 0.0 - 4.0%.

Condensate Traps

Standing water measured within condensate traps CD-1 (5.1 feet), CD-2 (2.1 feet), CD-3 (8.3 feet), CD-4 (8.2 feet) and CD-5 (1.1 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 January, 2005 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 operate effectively.

Table 4 presents a summary of methane concentrations detected during the above-mentioned period-of-record at landfill gas control wells. 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 64 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, as indicated during December, 2004 monitoring activities, continues. An abundance of snowfall precluded access to "northern" control wells N-1 through N-6 during this reported event.

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 January 26 & 31, 2005

Well No.	Probe Pressure (in. H2O)				Methane 0-100% (Volume)				Condition
	A	B	C	D	A	B	C	D	
MW-A	NA	NA			NA	NA			
MW-B	NA	NA			NA	NA			
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	0.0		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	-0.1	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	-0.1	-0.2	0.0	0.0	0.0	0.0	0.0	
MW-12	-0.4	-0.2	-0.4		0.0	0.0	0.0		
MW-13	-0.1	-0.3	-0.1		0.0	0.0	0.0		
MW-15	-0.2	-0.2	-0.2		0.0	0.0	0.0		
MW-16	0.0	0.0	-0.2		0.0	0.0	0.0		
MW-17	-0.4	0.0	-0.4		0.0	0.0	0.0		
MW-18	0.0	0.0	0.0		0.0	0.0	0.0		
MW-19	-0.3	-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	0.0	-0.2	-0.2	0.0	0.0	0.0	0.0	
MW-22	-0.2	-0.3	-0.2		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	-0.3	-0.2	-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	-0.6	0.0	-0.6		0.0	0.0	0.0		
MW-26	-0.3	-0.3	-0.3	-0.3	0.0	0.0	0.0	0.0	
MW-27	0.0	0.0	-0.1		0.0	0.0	0.0		
MW-28	0.0	0.0	-0.1		0.0	0.0	0.0		
MW-37	0.0	0.0	0.0		0.0	0.0	0.0		
MW-38	0.0	-0.1	-0.1		0.0	0.0	0.0		
MW-39	0.0	-0.1	-0.1		0.0	0.0	0.0		
MW-40	-0.1	0.0	-0.1	-0.2	0.0	0.0	0.0	0.0	
MW-41	-0.1	0.0	-0.1		0.0	0.0	0.0		
MW-42	0.0	-0.2	-0.2		0.0	0.0	0.0		
MW-43	0.0	-0.1	-0.1		0.0	0.0	0.0		
MW-44	0.0	-0.1	0.0		0.0	0.0	0.0		
MW-45	-0.1	-0.1	0.0		0.0	0.0	0.0		
MW-46	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	
MW-47	0.0	-0.2	-0.2		0.0	0.0	0.0		
MW-48	-0.1	-0.2	-0.2		0.0	0.0	0.0		
MW-49	0.0	-0.1	0.0		0.0	0.0	0.0		
MW-51	0.0	0.0	-0.2		0.0	0.0	0.0		
AS-NW	NA				0.0				
AS-NE	NA				0.0				
AS-SW	NA				0.0				
AS-SC	NA				0.0				
AS-SE	NA				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.

NA: Not Available (buried beneath snow/ice)

TABLE1Jan05.XLS

Table 2
Landfill Gas Control Well Data
Town of Huntington East Northport Landfill, East Northport, New York
Measured January 26 - 31, 2005

Well No.	Temp (°F)	Flow Rate (ft^3/min)	Vacuum (in. H2O)	Methane 0-100 % (Volume)	Oxygen % in Air	Condition
CWI-4	71.5	180.7	-3.8	0.0	20.3	
CWI-5	78.9	101.8	-4.0	0.6	19.6	
CW1-6	69.0	99.5	-3.9	0.6	19.4	
CWI-7	81.6	107.0	-3.8	1.7	18.7	
CWII-1	88.0	72.8	-3.9	4.0	17.4	
CWII-2	82.6	91.5	-3.5	1.3	18.4	
CWII-3	82.8	91.5	-3.7	1.0	18.3	
CWII-4	72.3	47.9	-3.3	2.0	18.6	
CWII-5	75.3	160.0	-3.3	0.0	19.8	
CWII-6	71.0	76.5	-1.3	0.0	18.4	
CWII-7	62.2	40.8	-1.2	0.0	18.4	
CWII-8	42.2	1.3	0.0	0.0	19.7	
CWII-9	65.1	88.5	-0.8	0.2	18.8	
NW-1	61.7	62.0	-3.6	0.0	20.9	
NW-2	59.9	61.5	-3.6	0.0	20.6	
NW-3	59.7	59.5	-3.6	0.0	20.6	
NW-4	61.5	74.8	-3.1	0.0	20.5	
NW-5	59.8	108.5	-2.0	0.0	20.7	
NW-6	60.7	108.5	-2.8	0.0	20.5	
Ext-1	48.6	4.8	-2.0	0.0	20.8	
Ext-2	NA	NA	NA	NA	NA	
Ext-3	85.0	58.0	-2.6	0.8	19.1	
Ext-4	69.2	49.2	-2.4	0.4	19.4	
Ext-5	58.0	72.5	-2.3	0.0	20.8	
N-1	NA	NA	NA	NA	NA	
N-2	NA	NA	NA	NA	NA	
N-3	NA	NA	NA	NA	NA	
N-4	NA	NA	NA	NA	NA	
N-5	NA	NA	NA	NA	NA	
N-6	NA	NA	NA	NA	NA	
Blower Station - 1	64.5	2,920.0	-6.4	0.5	19.7	
Blower Station - 2	64.4	3,070.0	-19.4	0.5	19.7	
Blower Station - 3	75.4	4,000.0	1.8	0.6	19.8	

TABLE2Jan05.XLS

Landfill Gas and Control System Monitoring
Town of Huntington East Northport Landfill
East Northport, New York
February, 2005

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

TABLE OF CONTENTS

Figure

Summary Tables

Appendix

Landfill Gas and Control System Monitoring
Town of Huntington East Northport Landfill
East Northport, New York
February, 2005

Introduction

Presented herein are the results of February, 2005 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.

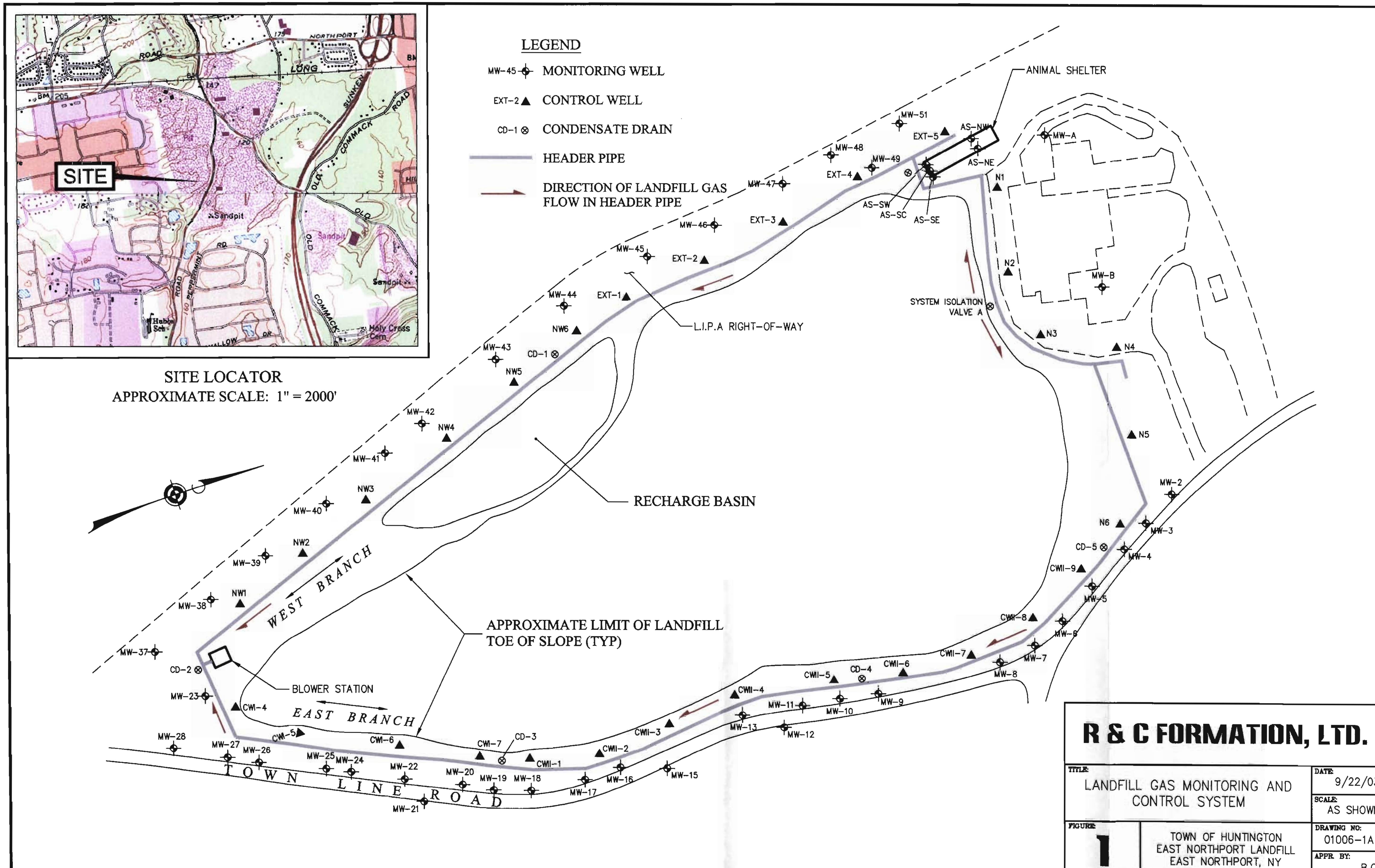
Figure 1 depicts the landfill area and pertinent components of the landfill gas monitoring and control system. The scope-of-work completed (per our agreement with the Town of Huntington Department of Environmental Waste Management dated August 15, 2003) precedes a summary of results. A discussion of 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).



R & C FORMATION, LTD.

TITLE: LANDFILL GAS MONITORING AND CONTROL SYSTEM	DATE: 9/22/03
	SCALE: AS SHOWN
FIGURE: 1 — TOWN OF HUNTINGTON EAST NORTHPORT LANDFILL EAST NORTHPORT, NY	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 February 25 and 28, 2005. Climatic conditions for the monitoring period are as follows:

February 25 - Temperature: 28 (°F); Barometric Pressure: 30.10 (in. Hg); Relative Humidity: 64.5%; Precipitation: 0.01 inches; Wind Speed & Direction: 8.5 mph, northerly.

February 28 – Temperature: 30 (°F); Barometric Pressure: 29.86 (in. Hg); Relative Humidity: 73.0%; Precipitation: 0.07 inches; Wind Speed & Direction: 10.3 mph, northerly.

Monitoring Wells

Measured and recorded landfill gas monitoring well data are summarized 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 - -4.4 (in. H_20). "Extracted" methane values range from 0.0 - 6.0%.

Condensate Traps

Standing water measured within condensate traps CD-1 (3.0 feet), CD-2 (2.1 feet), CD-3 (trace), CD-4 (8.4 feet) and CD-5 (0.6 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 February, 2005. 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 operate effectively.

A summary of methane concentrations 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 65 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, 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, and a measurable decrease during this reported event at control well N-2, a return to typical vacuum values is indicated.

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 Feburary 25 & 28, 2005

Well No.	Probe Pressure (in. H2O)				Methane 0-100% (Volume)				Condition
	A	B	C	D	A	B	C	D	
MW-A	N/A	N/A			N/A	N/A			
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	0.0	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	-0.1	-0.2	0.0	0.0	0.0	0.0	0.0	
MW-12	-0.1	-0.1	-0.1		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	-0.2	-0.3	-0.2		0.0	0.0	0.0		
MW-17	0.0	0.0	-0.1		0.0	0.0	0.0		
MW-18	-0.1	0.0	-0.3		0.0	0.0	0.0		
MW-19	-0.3	-0.3	0.0	-0.4	0.0	0.0	0.0	0.0	
MW-20	-0.3	-0.3	-0.2		0.0	0.0	0.0		
MW-21	-0.2	-0.2	-0.2	-0.2	0.0	0.0	0.0	0.0	
MW-22	0.0	-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	-0.3	0.0	0.0	0.0	0.0	
MW-27	0.0	0.0	0.0		0.0	0.0	0.0		
MW-28	-0.1	-0.1	-0.2		0.0	0.0	0.0		
MW-37	0.0	0.0	0.0		0.0	0.0	0.0		
MW-38	-0.1	-0.1	-0.2		0.0	0.0	0.0		
MW-39	0.0	0.0	-0.1		0.0	0.0	0.0		
MW-40	-0.1	-0.1	-0.1	-0.2	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	-0.1	-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	-0.1	-0.1		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	-0.1		0.0	0.0	0.0		
MW-48	0.0	0.0	0.0		0.0	0.0	0.0		
MW-49	-0.1	0.0	0.0		0.0	0.0	0.0		
MW-51	-0.1	-0.2	-0.1		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	0.0				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.

NA: Not Available (buried beneath snow/ice)

TABLE1Feb05.XLS

Table 2
Landfill Gas Control Well Data
Town of Huntington East Northport Landfill, East Northport, New York
Measured Feburary 25 & 28, 2005

Well No.	Temp (°F)	Flow Rate (ft^3/min)	Vacuum (in. H_2O)	Methane 0-100 % (Volume)	Oxygen % in Air	Condition
CWI-4	67.2	306.0	-3.8	0.1	20.3	
CWI-5	75.2	121.0	-4.2	0.6	20.2	
CW1-6	76.0	102.0	-4.4	0.8	19.6	
CWI-7	80.7	84.5	-4.2	2.2	19.2	
CWII-1	86.9	113.0	-4.1	6.0	17.2	
CWII-2	91.2	103.0	-4.0	1.5	18.2	
CWII-3	81.7	27.3	-4.3	3.2	18.1	
CWII-4	71.7	75.5	-4.1	2.3	19.1	
CWII-5	75.4	51.0	-4.3	0.8	18.8	
CWII-6	49.5	0.8	0.0	0.0	19.4	
CWII-7	45.7	0.6	0.0	0.0	19.6	
CWII-8	43.6	0.0	0.0	0.0	20.5	
CWII-9	57.2	0.0	0.0	0.0	17.8	
NW-1	57.7	219.0	-3.6	0.0	20.7	
NW-2	55.5	83.5	-4.2	0.0	20.7	
NW-3	56.0	132.0	-3.5	0.0	20.5	
NW-4	56.1	95.5	-3.1	0.0	20.0	
NW-5	56.1	98.2	-2.6	0.0	20.9	
NW-6	55.7	102.0	-2.5	0.0	20.9	
Ext-1	46.1	13.9	0.0	0.0	20.9	
Ext-2	57.7	34.1	-0.9	0.0	20.0	
Ext-3	67.4	52.0	-2.7	0.5	18.8	
Ext-4	72.5	52.0	-2.5	0.3	17.4	
Ext-5	56.9	61.5	-2.1	0.0	20.5	
N-1	64.1	22.1	-0.7	0.0	20.9	
N-2	82.0	16.6	-0.2	3.6	10.1	
N-3	41.0	3.2	0.0	0.0	20.9	
N-4	40.5	3.1	0.0	0.0	20.8	
N-5	42.2	0.0	0.0	0.0	19.8	
N-6	49.3	0.8	0.0	0.0	19.6	
Blower Station - 1	51.5	3120.0	-6.6	0.8	19.7	
Blower Station - 2	50.4	2890.0	-19.9	0.8	19.7	
Blower Station - 3	56.1	4740.0	1.3	0.8	19.7	

TABLE2Feb05.XLS

Landfill Gas and Control System Monitoring
Town of Huntington East Northport Landfill
East Northport, New York
March, 2005

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

TABLE OF CONTENTS

Landfill Gas and Control System Monitoring
Town of Huntington East Northport Landfill
East Northport, New York
March, 2005

Introduction

This report presents the results of March, 2005 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 March 24 and 25, 2005. Climatic conditions for the monitoring period are as follows:

March 24 - Temperature: 40 (°F); Barometric Pressure: 29.90 (in. Hg); Relative Humidity: 73.5%; Precipitation: 0.03 inches; Wind Speed & Direction: 10.4 mph, northeasterly.

March 25 – Temperature: 40 (°F); Barometric Pressure: 30.01 (in. Hg); Relative Humidity: 72.5%; Precipitation: 0.00 inches; Wind Speed & Direction: 4.9 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

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 - -3.7 (in. H_20). "Extracted" methane values range from 0.0 - 7.0%.

Condensate Traps

Standing water measured within condensate traps CD-1 (2.0 feet), CD-2 (2.6 feet), CD-3 (1.5) and CD-4 (1.5 feet) was evacuated, as per usual, upon the completion of monitoring activities. Condensate trap CD-5 was "dry."

Discussion

Methane Monitoring Data

Measured and recorded methane concentrations detected at landfill gas monitoring wells throughout the period of record from October, 1999 through March, 2005 are summarized 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, measured at this well during March, 2001 monitoring activities, remains 5.0 %.

Methane has not been detected at monitoring wells associated with the primary landfill gas migration control system since a minimal concentration of 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 operate effectively.

Table 4 summarizes methane concentrations detected during the above-mentioned period-of-record at landfill gas control wells. 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 66 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 remain comparatively low at the northern-most portion of the system, however, as indicated by historic control well vacuum data (see 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 sporadic dip, a return to typical vacuum values is indicated.

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. However, a sound indicative of the presence of water (i.e., gurgle) was evident at control wells N-5 and N-6.

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.

* 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 March 24 & 25, 2005

Well No.	Probe Pressure (in. H2O)				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	-0.1	-0.2			0.0	0.0			
MW-2	0.0	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	
MW-3	0.0	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	
MW-4	-0.1	-0.1	-0.2	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	-0.1	-0.1		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	-0.1	0.0	0.0	-0.2	0.0	0.0	0.0	0.0	
MW-11	0.0	-0.2	-0.2	0.0	0.0	0.0	0.0	0.0	
MW-12	-0.2	-0.3	-0.3		0.0	0.0	0.0		
MW-13	-0.4	0.0	-0.4		0.0	0.0	0.0		
MW-15	-0.2	-0.2	-0.3		0.0	0.0	0.0		
MW-16	-0.2	-0.3	-0.1		0.0	0.0	0.0		
MW-17	0.0	0.0	-0.3		0.0	0.0	0.0		
MW-18	-0.1	0.0	-0.5		0.0	0.0	0.0		
MW-19	-0.5	-0.5	0.0	-0.5	0.0	0.0	0.0	0.0	
MW-20	-0.5	-0.5	-0.2		0.0	0.0	0.0		
MW-21	-0.2	-0.3	-0.3	-0.3	0.0	0.0	0.0	0.0	
MW-22	-0.3	-0.3	-0.4		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	-0.2	-0.3	-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	-0.5	0.0	-0.5		0.0	0.0	0.0		
MW-26	-0.2	-0.3	-0.3	-0.3	0.0	0.0	0.0	0.0	
MW-27	-0.1	-0.1	-0.2		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	-0.2		0.0	0.0	0.0		
MW-39	-0.1	-0.1	-0.1		0.0	0.0	0.0		
MW-40	-0.1	-0.1	-0.1	-0.2	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	-0.1	-0.1	-0.1		0.0	0.0	0.0		
MW-44	0.0	-0.1	-0.1		0.0	0.0	0.0		
MW-45	0.0	-0.1	0.0		N/A	0.0	0.0		
MW-46	-0.1	-0.1	-0.1	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	-0.1	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	-0.2				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.

NA: Not Available (buried beneath snow/ice)

TABLE1Mar05.XLS

Table 2
Landfill Gas Control Well Data
Town of Huntington East Northport Landfill, East Northport, New York
Measured March 24 & 25, 2005

Well No.	Temp (°F)	Flow Rate (ft³/min)	Vacuum (in. H2O)	Methane 0-100 % (Volume)	Oxygen % in Air	Condition
CWI-4	72.6	236.0	-3.5	0.1	20.8	
CWI-5	74.4	110.0	-3.5	0.6	20.2	
CWI-6	74.8	206.0	-3.7	0.7	19.6	
CWI-7	81.3	25.6	-3.6	1.5	18.8	
CWII-1	89.3	113.0	-3.5	7.0	16.5	
CWII-2	92.5	99.0	-3.4	1.4	17.9	
CWII-3	82.6	50.0	-3.4	2.7	17.1	
CWII-4	71.0	37.5	-3.3	2.8	17.8	
CWII-5	73.3	58.5	-3.3	0.8	18.4	
CWII-6	72.9	22.2	-1.5	0.5	18.1	
CWII-7	58.6	33.0	-1.2	0.0	19.0	
CWII-8	47.2	0.2	0.0	0.0	20.7	
CWII-9	74.0	21.4	-0.9	0.3	19.3	
NW-1	57.4	162.0	-3.3	0.0	20.9	
NW-2	55.5	64.0	-3.7	0.0	20.9	
NW-3	56.0	122.0	-3.3	0.0	20.9	
NW-4	53.4	67.9	-3.0	0.2	20.3	
NW-5	50.2	97.6	-2.1	0.0	20.6	
NW-6	57.6	92.5	-2.2	0.0	20.6	
Ext-1	45.1	54.8	-2.0	0.0	20.6	
Ext-2	47.9	60.7	-2.2	0.2	20.8	
Ext-3	80.8	59.4	-2.3	0.7	19.8	
Ext-4	62.0	52.8	-2.4	0.4	19.6	
Ext-5	56.5	65.3	-2.1	0.0	20.6	
N-1	63.0	21.3	-0.5	0.0	20.4	
N-2	78.4	11.3	-0.4	3.3	12.7	
N-3	46.4	3.2	-0.1	0.0	20.8	
N-4	N/A	N/A	N/A	N/A	N/A	
N-5	48.5	1.9	-0.1	0.0	20.5	gurgle
N-6	57.9	23.7	-0.9	0.0	20.1	slight gurgle
Blower Station - 1	51.9	2440.0	-6.0	0.5	19.8	
Blower Station - 2	51.2	3440.0	-19.6	0.5	19.8	
Blower Station - 3	56.4	4700.0	1.6	0.5	19.8	

Landfill Gas and Control System Monitoring
Town of Huntington East Northport Landfill
East Northport, New York
April, 2005

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

TABLE OF CONTENTS

Figure

Summary Tables

Appendix

Landfill Gas and Control System Monitoring
Town of Huntington East Northport Landfill
East Northport, New York
April, 2005

Introduction

Presented herein are the results of April, 2005 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.

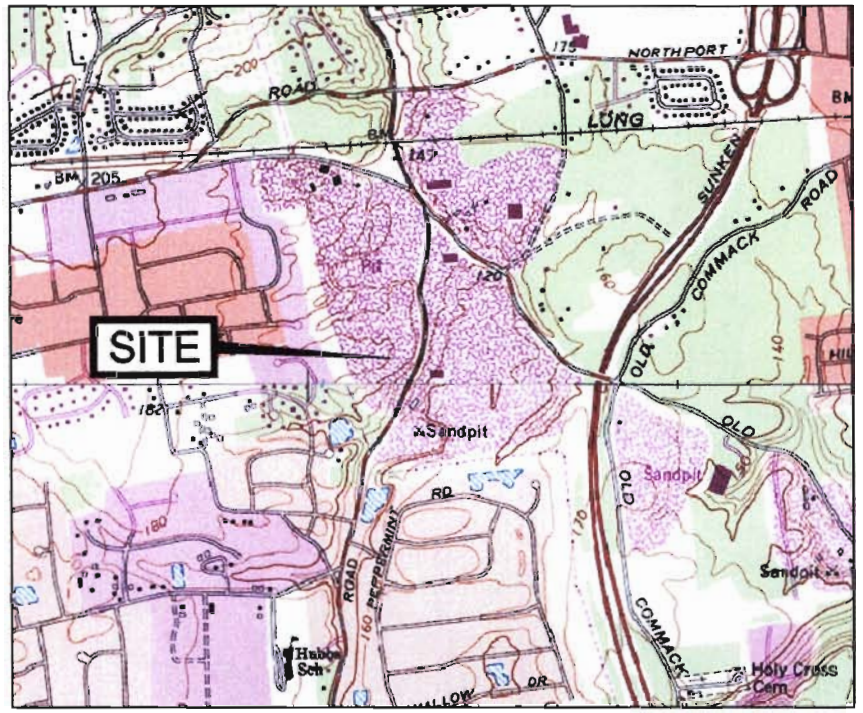
Figure 1 depicts the landfill area and pertinent components of the landfill gas monitoring and control system. The scope-of-work completed (per our agreement with the Town of Huntington Department of Environmental Waste Management dated August 15, 2003) precedes a summary of results. A discussion of 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).



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

ANIMAL SHELTER

L.I.P.A RIGHT-OF-WAY

RECHARGE BASIN

APPROXIMATE LIMIT OF LANDFILL TOE OF SLOPE (TYP)

BLOWER STATION

SYSTEM ISOLATION VALVE A

WEST BRANCH

EAST BRANCH

TOWN LINE ROAD

MW-A, MW-B, MW-1 through MW-51, EXT-1 through EXT-5, NW1 through NW6, N1 through N6, CD-1 through CD-5, CWI-1 through CWI-9, AS-NW, AS-NE, AS-SW, AS-SC, AS-SE

R & C FORMATION, LTD.

TITLE: LANDFILL GAS MONITORING AND CONTROL SYSTEM		DATE: 9/22/03
		SCALE: AS SHOWN
FIGURE: 1	TOWN OF HUNTINGTON EAST NORTHPORT LANDFILL EAST NORTHPORT, NY	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 April 26 and 28, 2005. Climatic conditions for the monitoring period are as follows:

April 26 - Temperature: 54 (°F); Barometric Pressure: 29.93 (in. Hg); Relative Humidity: 69.5%; Precipitation: 0.00 inches; Wind Speed & Direction: 11.9 mph, southerly.

April 28 – Temperature: 56 (°F); Barometric Pressure: 29.83 (in. Hg); Relative Humidity: 57.5%; Precipitation: 0.00 inches; Wind Speed & Direction: 11.4 mph, westerly.

Monitoring Wells

Table 1 presents a summary of measured and recorded landfill gas monitoring well data. 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 - -3.7 (in. H_20). "Extracted" methane values range from 0.0 – 3.7%.

Condensate Traps

Standing water measured within condensate traps CD-1 (1.0 feet), CD-2 (2.7 feet), CD-3 (2.4 feet) CD-4 (3.5 feet) and CD-5 (1.2 feet) was evacuated, as per usual, upon the completion of monitoring activities.

Discussion

Methane Monitoring Data

Table 3 presents a summary of measured and recorded methane concentrations detected at landfill gas monitoring wells throughout the period of record from October, 1999 through April, 2005. 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 most recently detected at a concentration of 0.1 % (April, 2004). The highest recorded methane concentration, measured at this well during March, 2001 monitoring activities, remains 5.0 %.

Methane has not been detected at primary landfill gas migration control system monitoring wells since a negligible concentration of 0.1 % was recorded at monitoring well MW-49 in June, 2002. 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 operate effectively.

A summary of methane concentrations detected at landfill gas control wells during the above-mentioned period-of-record 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 67 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 remain comparatively low at the northern-most portion of the system, however, as indicated by historic control well vacuum data presented in Appendix 1, this state has existed throughout the monitoring period-of-record.

As previously reported, 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 sporadic dip, a return to typical vacuum values is indicated.

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.

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.

* 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 April 26 - 28, 2005

Well No.	Probe Pressure (in. H2O)				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	-0.2	-0.2			0.0	0.0			
MW-2	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	
MW-3	-0.1	-0.2	-0.1	-0.1	0.0	0.0	0.0	0.0	
MW-4	-0.1	0.0	-0.1	0.1	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	0.0	0.0	-0.1		0.0	0.0	0.0		
MW-8	-0.1	-0.1	-0.1		0.0	0.0	0.0		
MW-9	-0.3	-0.1	0.0		0.0	0.0	0.0		
MW-10	-0.3	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	
MW-11	-0.1	-0.4	0.0	-0.1	0.0	0.0	0.0	0.0	
MW-12	-0.1	-0.1	0.0		0.0	0.0	0.0		
MW-13	-0.5	0.0	-0.5		0.0	0.0	0.0		
MW-15	-0.2	-0.2	-0.2		0.0	0.0	0.0		
MW-16	-0.4	-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	-0.1	0.0	-0.4		0.0	0.0	0.0		
MW-19	-0.5	-0.5	0.0	-0.5	0.0	0.0	0.0	0.0	
MW-20	-0.4	-0.5	-0.4		0.0	0.0	0.0		
MW-21	-0.3	-0.2	-0.2	-0.3	0.0	0.0	0.0	0.0	
MW-22	-0.4	-0.3	-0.2		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	-0.3	-0.1	-0.2	0.0	0.0	0.0	0.0	
MW-24	-0.1	-0.1	-0.1		0.0	0.0	0.0		
MW-25	-0.5	-0.5	-0.2		0.0	0.0	0.0		
MW-26	-0.2	0.2	0.3	-0.3	0.0	0.0	0.0	0.0	
MW-27	-0.1	-0.1	-0.2		0.0	0.0	0.0		
MW-28	-0.1	0.0	-0.1		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	-0.2		0.0	0.0	0.0		
MW-39	0.0	-0.1	-0.2		0.0	0.0	0.0		
MW-40	-0.1	-0.1	-0.1	-0.2	0.0	0.0	0.0	0.0	
MW-41	-0.2	-0.1	-0.2		0.0	0.0	0.0		
MW-42	-0.1	-0.1	-0.2		0.0	0.0	0.0		
MW-43	-0.1	-0.1	-0.2		0.0	0.0	0.0		
MW-44	0.0	-0.1	-0.1		0.0	0.0	0.0		
MW-45	0.0	-0.1	-0.1		0.0	0.0	0.0		
MW-46	-0.2	0.0	-0.2	-0.1	0.0	0.0	0.0	0.0	
MW-47	-0.1	0.0	-0.2		0.0	0.0	0.0		
MW-48	-0.1	-0.1	-0.2		0.0	0.0	0.0		
MW-49	-0.2	0.0	0.0		0.0	0.0	0.0		
MW-51	-0.1	-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	0.0				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.

NA: Not Available (buried beneath snow/ice)

TABLE1Apr05.XLS

Table 2
Landfill Gas Control Well Data
Town of Huntington East Northport Landfill, East Northport, New York
Measured April 26 - 28, 2005

Well No.	Temp (°F)	Flow Rate (ft^3/min)	Vacuum (in. H2O)	Methane 0-100 % (Volume)	Oxygen % in Air	Condition
CWI-4	70.9	230.0	-3.5	0.1	20.2	
CWI-5	75.6	128.0	-3.5	0.4	20.1	
CW1-6	76.5	60.5	-3.7	0.7	19.7	
CWI-7	82.0	57.5	-3.3	1.5	19.3	
CWII-1	90.4	62.5	-3.3	3.7	18.2	
CWII-2	93.1	87.0	-3.4	1.5	18.8	
CWII-3	82.0	18.7	-3.4	2.9	19.1	
CWII-4	69.7	45.2	-3.3	0.7	18.3	
CWII-5	74.5	24.9	-3.1	0.7	19.8	
CWII-6	74.6	19.8	-1.6	0.0	18.8	
CWII-7	65.8	13.4	-1.3	0.0	19.4	
CWII-8	71.1	0.6	-0.1	0.3	20.7	
CWII-9	75.6	21.0	-1.0	0.0	19.7	
NW-1	58.4	36.0	-3.2	0.0	20.8	
NW-2	58.7	87.5	-3.6	0.0	20.8	
NW-3	58.8	86.0	-3.2	0.0	20.5	
NW-4	59.0	102.0	-2.9	0.0	20.6	
NW-5	56.8	164.0	-2.4	0.0	27.0	
NW-6	58.0	136.0	-2.6	0.0	20.7	
Ext-1	60.2	8.8	0.0	0.0	20.7	
Ext-2	61.4	35.3	-1.0	0.0	20.2	
Ext-3	68.5	41.4	-2.6	0.2	19.5	
Ext-4	75.2	44.4	-2.3	0.2	19.2	
Ext-5	60.7	71.0	-2.0	0.0	20.5	
N-1	68.3	24.1	-0.3	0.0	20.4	
N-2	81.2	15.2	-0.3	3.0	13.7	
N-3	67.0	2.1	-0.1	0.0	20.5	
N-4	67.7	0.2	-0.1	0.0	20.6	
N-5	60.0	1.0	-0.1	0.0	20.9	
N-6	64.4	29.8	-0.9	0.0	20.0	
Blower Station - 1	59.2	3000.0	-5.9	0.5	19.9	
Blower Station - 2	59.1	3550.0	-18.9	0.5	19.9	
Blower Station - 3	70.0	5770.0	1.4	0.5	19.9	

TABLE2Apr05.XLS

Landfill Gas and Control System Monitoring
Town of Huntington East Northport Landfill
East Northport, New York
May, 2005

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

TABLE OF CONTENTS

Landfill Gas and Control System Monitoring
Town of Huntington East Northport Landfill
East Northport, New York
May, 2005

Introduction

This report presents the results of May, 2005 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 illustrated 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 May 24 and 27, 2005. Climatic conditions for the monitoring period are as follows:

May 24 - Temperature: 54 (°F); Barometric Pressure: 29.72 (in. Hg); Relative Humidity: 78.0%; Precipitation: 0.07 inches; Wind Speed & Direction: 11.1 mph, northeasterly.

May 27 - Temperature: 64 (°F); Barometric Pressure: 29.75 (in. Hg); Relative Humidity: 72.5%; Precipitation: 0.02 inches; Wind Speed & Direction: 7.7 mph, southerly.

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 -0.1 - -3.2 (in. H_20). "Extracted" methane values range from 0.0 – 3.7%.

Condensate Traps

Standing water measured within condensate traps CD-1 (2.0 feet), CD-2 (2.2 feet), CD-3 (4.4 feet), CD-4 (5.5 feet) and CD-5 (1.2 feet) was evacuated, as per usual, upon the completion of monitoring activities.

Discussion

Methane Monitoring Data

A summary of measured and recorded methane concentrations detected at landfill gas monitoring wells throughout the period-of-record from October, 1999 through May, 2005 is presented on Table 3. As shown, methane has been detected sporadically and at low levels at 14 monitoring wells. The most recent detection occurred at Animal Control Facility monitoring well AS-NE in April, 2004 at a concentration of 0.1 %. The highest methane concentration in the period-of-record (5.0%), relative to the entire landfill gas monitoring well network, was measured at this well in March, 2001.

Methane has not been detected at primary landfill gas migration control system monitoring wells since a negligible concentration of 0.1 % was recorded at monitoring well MW-49 in June, 2002. 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 operate effectively.

Table 4 presents a summary of 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 68 month period.

Physical and Operating Condition

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

As previously reported, 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 sporadic dip, a return to typical vacuum values is indicated.

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.

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 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.

* 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 May 24 & 27, 2005

Well No.	Probe Pressure (in. H2O)				Methane 0-100% (Volume)				Condition
	A	B	C	D	A	B	C	D	
MW-A	-0.1	-0.1			0.0	0.0			
MW-B	-0.1	-0.2			0.0	0.0			
MW-2	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	
MW-3	0.0	-0.2	-0.1	0.0	0.0	0.0	0.0	0.0	
MW-4	-0.2	-0.1	-0.2	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	0.0	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	-0.1	0.0		0.0	0.0	0.0		
MW-10	-0.2	0.0	-0.2	-0.2	0.0	0.0	0.0	0.0	
MW-11	-0.1	-0.1	0.0	-0.2	0.0	0.0	0.0	0.0	
MW-12	-0.1	-0.1	0.0		0.0	0.0	0.0		
MW-13	-0.3	-0.2	-0.4		0.0	0.0	0.0		
MW-15	-0.1	-0.1	-0.1		0.0	0.0	0.0		
MW-16	-0.3	-0.3	-0.1		0.0	0.0	0.0		
MW-17	0.0	0.0	-0.1		0.0	0.0	0.0		
MW-18	-0.1	-0.2	-0.4		0.0	0.0	0.0		
MW-19	-0.4	-0.3	0.0	-0.4	0.0	0.0	0.0	0.0	
MW-20	-0.4	-0.3	-0.4		0.0	0.0	0.0		
MW-21	-0.1	-0.1	-0.1	-0.2	0.0	0.0	0.0	0.0	
MW-22	-0.1	-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	-0.3	-0.1	-0.2	-0.3	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	-0.4	-0.1		0.0	0.0	0.0		
MW-26	-0.2	-0.2	-0.2	-0.3	0.0	0.0	0.0	0.0	
MW-27	-0.2	-0.2	-0.1		0.0	0.0	0.0		
MW-28	0.0	-0.1	-0.1		0.0	0.0	0.0		
MW-37	0.0	0.0	0.0		0.0	0.0	0.0		
MW-38	0.0	-0.1	-0.1		0.0	0.0	0.0		
MW-39	0.0	-0.1	-0.1		0.0	0.0	0.0		
MW-40	0.0	0.0	0.0	-0.1	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	0.0	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		0.0	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	0.0	0.0		0.0	0.0	0.0		
MW-49	0.0	0.0	0.0		0.0	0.0	0.0		
MW-51	0.0	0.0	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	0.0				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.

NA: Not Available (buried beneath snow/ice)

TABLE1may05.XLS

Table 2
Landfill Gas Control Well Data
Town of Huntington East Northport Landfill, East Northport, New York
Measured May 24 & 27, 2005

Well No.	Temp (°F)	Flow Rate (ft^3/min)	Vacuum (in. H2O)	Methane 0-100 % (Volume)	Oxygen % in Air	Condition
CWI-4	71.5	191.0	-3.0	0.1	20.1	
CWI-5	75.8	170.0	-3.1	0.4	19.7	
CW1-6	77.2	86.0	-3.0	0.5	19.2	
CWI-7	81.8	49.3	-2.8	1.1	19.1	
CWII-1	90.0	60.0	-2.6	2.4	19.0	
CWII-2	91.5	78.0	-2.7	0.7	19.3	
CWII-3	82.2	14.7	-2.6	2.0	18.0	
CWII-4	72.7	29.8	-2.4	1.7	18.5	
CWII-5	77.2	58.0	-2.7	0.8	18.3	
CWII-6	76.7	38.7	-1.7	0.9	18.1	
CWII-7	66.9	31.0	-1.5	0.0	19.3	
CWII-8	70.5	3.5	-0.1	0.0	20.1	
CWII-9	76.0	53.5	-1.1	0.3	19.1	
NW-1	59.3	115.0	-2.9	0.0	20.9	
NW-2	58.9	67.0	-3.0	0.0	20.9	
NW-3	61.8	65.5	-2.8	0.0	20.5	
NW-4	60.2	72.5	-2.7	0.0	20.6	
NW-5	57.5	92.5	-2.2	0.0	20.8	
NW-6	59.0	120.0	-2.0	0.0	20.8	
Ext-1	62.7	36.6	-0.1	0.0	19.9	
Ext-2	61.8	32.6	-1.2	0.0	19.2	
Ext-3	69.5	42.9	-2.4	0.0	17.5	
Ext-4	76.2	46.4	-2.4	0.6	16.1	
Ext-5	60.7	65.5	-1.7	0.4	20.2	
N-1	69.4	24.6	-0.6	0.0	20.1	
N-2	82.4	10.5	-0.4	0.1	12.5	
N-3	67.4	4.9	-0.1	3.2	20.9	
N-4	69.0	1.6	-0.1	0.0	20.9	
N-5	70.2	3.8	-0.1	0.0	20.0	
N-6	65.5	38.5	-1.0	0.0	19.9	
Blower Station - 1	62.3	3270.0	-5.2	0.4	20.1	
Blower Station - 2	62.3	3270.0	-16.8	0.4	20.1	
Blower Station - 3	72.8	4210.0	0.4	0.4	20.1	

TABLE2may05.XLS

Landfill Gas and Control System Monitoring
Town of Huntington East Northport Landfill
East Northport, New York
June, 2005

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

TABLE OF CONTENTS

Figure

Summary Tables

Appendix

Landfill Gas and Control System Monitoring
Town of Huntington East Northport Landfill
East Northport, New York
June, 2005

Introduction

Presented herein are the results of June, 2005 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.

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

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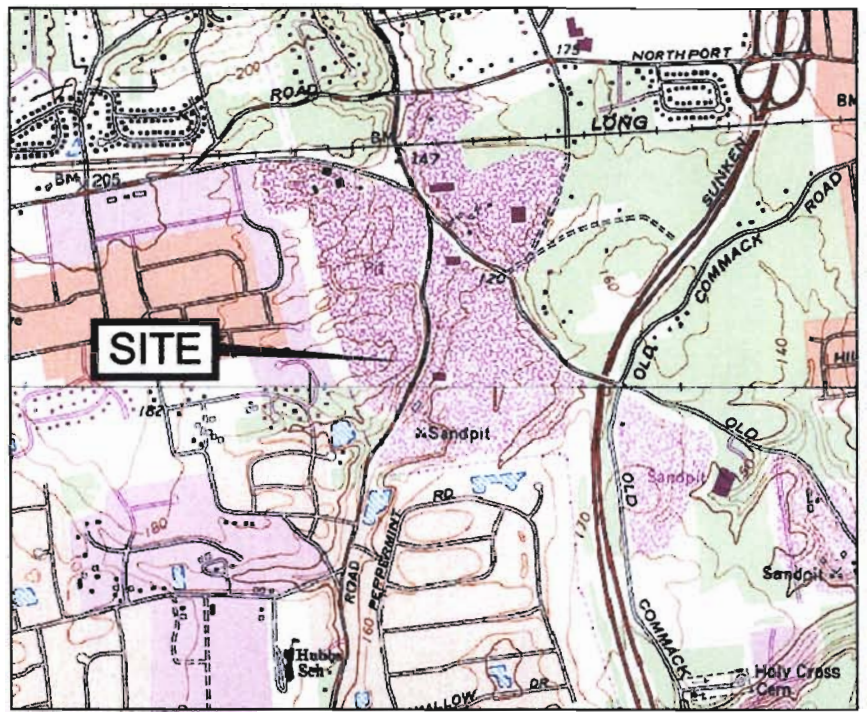

SITE LOCATOR
APPROXIMATE SCALE: 1" = 2000'

LEGEND

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

ANIMAL SHELTER
L.I.P.A RIGHT-OF-WAY
SYSTEM ISOLATION VALVE A
RECHARGE BASIN
APPROXIMATE LIMIT OF LANDFILL TOE OF SLOPE (TYP)
BLOWER STATION
WEST BRANCH
EAST BRANCH
TOWN LINE ROAD

MW-A, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, MW-12, MW-13, MW-15, MW-16, MW-17, MW-18, MW-19, MW-20, MW-21, MW-22, MW-23, MW-24, MW-25, MW-26, MW-27, MW-28, MW-36, MW-37, MW-38, MW-39, MW-40, MW-41, MW-42, MW-43, MW-44, MW-45, MW-46, MW-47, MW-48, MW-49, MW-51
EXT-1, EXT-2, EXT-3, EXT-4, EXT-5
NW1, NW2, NW3, NW4, NW5, NW6
N1, N2, N3, N4, N5, N6
CD-1, CD-2, CD-3, CD-4, CD-5
CWI-1, CWI-2, CWI-3, CWI-4, CWI-5, CWI-6, CWI-7, CWI-8, CWI-9
AS-NW, AS-NE, AS-SW, AS-SC, AS-SE

R & C FORMATION, LTD.

TITLE: LANDFILL GAS MONITORING AND CONTROL SYSTEM		DATE: 9/22/03
		SCALE: AS SHOWN
FIGURE: 1	TOWN OF HUNTINGTON EAST NORTHPORT LANDFILL EAST NORTHPORT, NY	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 June 23 and 24, 2005. Climatic conditions for the monitoring period are as follows:

June 23 - Temperature: 66 (°F); Barometric Pressure: 30.14 (in. Hg); Relative Humidity: 62.5%; Precipitation: 0.00 inches; Wind Speed & Direction: 8.5 mph, southerly.

June 24 - Temperature: 71 (°F); Barometric Pressure: 30.16 (in. Hg); Relative Humidity: 70.0%; Precipitation: 0.00 inches; Wind Speed & Direction: 10.7 mph, southwesterly.

Monitoring Wells

Table 1 presents a summary of measured and recorded landfill gas monitoring well data. 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, control well vacuum values (i.e., negative pressure), a direct indicator of the system's balance, range from -0.1 - -3.0 (in. H_20). "Extracted" methane values range from 0.0 – 2.2%.

Condensate Traps

Standing water measured within condensate traps CD-1 (3.0 feet), CD-2 (2.0 feet), CD-3 (6.3 feet), CD-4 (6.7 feet) and CD-5 (1.9 feet) was evacuated, as per usual, upon the completion of monitoring activities.

Discussion

Methane Monitoring Data

Table 3 presents a summary of measured and recorded methane concentrations detected at landfill gas monitoring wells throughout the period-of-record from October, 1999 through June, 2005. As shown on Table 3, methane has been detected sporadically and at low levels at 14 monitoring wells. The most recent detection occurred at Animal Control Facility monitoring well AS-NE in April, 2004 at a concentration of 0.1 %. The highest methane concentration detected in the aforementioned period-of-record (5.0%), relative to the entire landfill gas monitoring well network, was measured at this well in March, 2001.

Methane has not been detected at primary landfill gas migration control system monitoring wells since a negligible concentration of 0.1 % was recorded at monitoring well MW-49 in June, 2002. 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 operate effectively.

A summary of methane concentrations detected at landfill gas control wells during the above-mentioned period-of-record is shown 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 69 month period.

Physical and Operating Condition

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

As previously reported, 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 sporadic dip, a return to typical vacuum values is indicated.

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.

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 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.

* 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 June 23 & 24, 2005

Well No.	Probe Pressure (in. H2O)				Methane 0-100% (Volume)				Condition
	A	B	C	D	A	B	C	D	
MW-A	-0.2	-0.2			0.0	0.0			
MW-B	-0.1	-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	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	
MW-4	-0.1	-0.2	-0.1	-0.1	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	0.0	-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	-0.2	0.0		0.0	0.0	0.0		
MW-10	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	
MW-11	0.0	-0.1	0.0	-0.1	0.0	0.0	0.0	0.0	
MW-12	-0.1	-0.1	0.0		0.0	0.0	0.0		
MW-13	-0.2	-0.1	-0.2		0.0	0.0	0.0		
MW-15	-0.1	-0.1	-0.1		0.0	0.0	0.0		
MW-16	-0.1	-0.2	0.0		0.0	0.0	0.0		
MW-17	0.0	0.0	-0.1		0.0	0.0	0.0		
MW-18	-0.1	0.0	-0.2		0.0	0.0	0.0		
MW-19	-0.2	0.0	-0.2	0.0	0.0	0.0	0.0	0.0	
MW-20	-0.2	-0.3	-0.2		0.0	0.0	0.0		
MW-21	-0.1	-0.2	-0.1	-0.2	0.0	0.0	0.0	0.0	
MW-22	-0.2	-0.2	-0.1		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	-0.1	0.0	0.0	0.0	0.0	
MW-24	0.0	0.0	0.0		0.0	0.0	0.0		
MW-25	-0.4	-0.4	0.0		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	-0.1		0.0	0.0	0.0		
MW-28	0.0	0.0	-0.1		0.0	0.0	0.0		
MW-37	0.0	0.0	0.0		0.0	0.0	0.0		
MW-38	-0.1	-0.1	-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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MW-41	-0.1	0.0	0.0		0.0	0.0	0.0		
MW-42	0.0	0.0	-0.1		0.0	0.0	0.0		
MW-43	-0.1	-0.1	-0.1		0.0	0.0	0.0		
MW-44	-0.1	-0.1	0.0		0.0	0.0	0.0		
MW-45		-0.1	0.0			0.0	0.0		
MW-46	0.0	-0.1	-0.1		0.0	0.0	0.0		
MW-47	NA	NA	NA		NA	NA	NA		
MW-48	0.0	0.0	-0.1		0.0	0.0	0.0		
MW-49	-0.1	0.0	0.0		0.0	0.0	0.0		
MW-51	-0.1	-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	0.0				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.

NA: Not Available (over grown)

TABLE1june05.XLS

Table 2
Landfill Gas Control Well Data
Town of Huntington East Northport Landfill, East Northport, New York
Measured June 23 & 24, 2005

Well No.	Temp (°F)	Flow Rate (ft^3/min)	Vacuum (in. H2O)	Methane 0-100 % (Volume)	Oxygen % in Air	Condition
CWI-4	74.3	27.5	-2.7	0.1	20.7	
CWI-5	79.8	144.0	-2.9	0.3	20.0	
CW1-6	83.5	25.9	-2.9	0.3	19.9	
CWI-7	86.9	25.3	-2.8	1.0	19.8	
CWII-1	95.4	33.0	-2.7	1.8	19.4	
CWII-2	93.9	38.3	-2.7	0.9	19.2	
CWII-3	89.6	29.6	-2.7	1.0	18.7	
CWII-4	78.3	33.4	-2.5	1.6	18.7	
CWII-5	85.7	30.8	-2.6	0.3	20.5	
CWII-6	81.7	25.9	-1.7	0.8	18.8	
CWII-7	72.5	18.1	-1.2	0.1	20.0	
CWII-8	90.1	5.3	-0.1	0.1	20.4	
CWII-9	85.3	18.5	-0.8	0.3	19.6	
NW-1	59.7	150.0	-2.7	0.0	20.8	
NW-2	60.6	76.0	-3.0	0.0	20.7	
NW-3	62.3	107.0	-2.6	0.0	20.3	
NW-4	63.1	82.5	-2.5	0.0	20.2	
NW-5	59.5	154.0	-2.0	0.0	20.9	
NW-6	61.1	139.0	-2.0	0.0	20.8	
Ext-1	72.7	23.7	-1.8	0.0	20.7	
Ext-2	69.5	51.5	-1.7	0.0	20.0	
Ext-3	71.8	50.0	-2.1	0.0	19.5	
Ext-4	68.5	54.0	-2.0	0.0	18.8	
Ext-5	63.7	85.5	-1.7	0.0	20.2	
N-1	70.5	31.7	-0.6	0.0	20.2	
N-2	84.3	10.8	-0.6	2.2	14.4	
N-3	70.3	5.4	-0.1	0.0	20.5	
N-4	72.8	4.0	-0.1	0.0	20.9	
N-5	74.7	3.1	-0.1	0.0	19.2	
N-6	69.2	28.6	-0.8	0.0	19.7	
Blower Station - 1	69.9	3560.0	-4.7	0.4	19.8	
Blower Station - 2	70.0	3640.0	-16.9	0.4	19.8	
Blower Station - 3	70.3	4000.0	1.4	0.4	19.8	

TABLE2june05.XLS

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 June, 2005

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	1.0	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	na
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	na
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	na

na - not available

Measured in % Volume

Table 3 (continued)

Well	2/05	3/05	4/05	5/05	6/05	7/05	8/05	9/05	10/05	11/05	12/05	1/06	2/06	3/06	4/06	5/06
MW-7C	0.0	0.0	0.0	0.0	0.0											
MW-8C	0.0	0.0	0.0	0.0	0.0											
MW-9A	0.0	0.0	0.0	0.0	0.0											
MW-9B	0.0	0.0	0.0	0.0	0.0											
MW-9C	0.0	0.0	0.0	0.0	0.0											
MW-11A	0.0	0.0	0.0	0.0	0.0											
MW-12A	0.0	0.0	0.0	0.0	0.0											
MW-12C	0.0	0.0	0.0	0.0	0.0											
MW-18A	0.0	0.0	0.0	0.0	0.0											
MW-19A	0.0	0.0	0.0	0.0	0.0											
MW-24C	0.0	0.0	0.0	0.0	0.0											
MW-38B	0.0	0.0	0.0	0.0	0.0											
MW-39A	0.0	0.0	0.0	0.0	0.0											
MW-49A	0.0	0.0	0.0	0.0	0.0											
MW-49B	0.0	0.0	0.0	0.0	0.0											
MW-49C	0.0	0.0	0.0	0.0	0.0											
AS-SW	0.0	0.0	0.0	0.0	0.0											
AS-SC	0.0	0.0	0.0	0.0	0.0											
AS-NE	0.0	0.0	0.0	0.0	0.0											

na - not available

Measured in % Volume

TABLE3june05.XLS

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 June, 2005

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	0.0
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	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	0.6
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	1.7
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	4.0
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	1.3
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	1.0
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	2.0
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	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	0.0
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	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	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	0.2
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	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	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	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	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	0.9	0.9	1.0	0.0	0.0	0.9	0.0	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	NA
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	0.8
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	0.4
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	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	NA
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	NA
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	NA
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	NA
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	NA
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	NA
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	0.5

na - not available
Measured in % Volume

Table 4 (continued)

Well	2/05	3/05	4/05	5/05	6/05	7/05	8/05	9/05	10/05	11/05	12/05	1/06	2/06	3/06	4/06	5/06
CWI-4	0.1	0.1	0.1	0.1	0.1											
CWI-5	0.6	0.6	0.4	0.4	0.3											
CWI-6	0.8	0.7	0.7	0.5	0.3											
CWI-7	2.2	1.5	1.5	1.1	1.0											
CWII-1	6.0	7.0	3.7	2.4	1.8											
CWII-2	1.5	1.4	1.5	0.7	0.9											
CWII-3	3.2	2.7	2.9	2.0	1.0											
CWII-4	2.3	2.8	0.7	1.7	1.6											
CWII-5	0.8	0.8	0.7	0.8	0.3											
CWII-6	0.0	0.5	0.0	0.9	0.8											
CWII-7	0.0	0.0	0.0	0.0	0.1											
CWII-8	0.0	0.0	0.3	0.0	0.1											
CWII-9	0.0	0.3	0.0	0.3	0.3											
NW-1	0.0	0.0	0.0	0.0	0.0											
NW-2	0.0	0.0	0.0	0.0	0.0											
NW-3	0.0	0.0	0.0	0.0	0.0											
NW-4	0.0	0.2	0.0	0.0	0.0											
NW-5	0.0	0.0	0.0	0.0	0.0											
NW-6	0.0	0.0	0.0	0.0	0.0											
Ext-1	0.0	0.0	0.0	0.0	0.0											
Ext-2	0.0	0.2	0.0	0.0	0.0											
Ext-3	0.5	0.7	0.2	0.6	0.0											
Ext-4	0.3	0.4	0.2	0.6	0.0											
Ext-5	0.0	0.0	0.0	0.0	0.0											
N-1	0.0	0.0	0.0	0.1	0.0											
N-2	3.6	3.3	3.0	3.2	2.2											
N-3	0.0	0.0	0.0	0.0	0.0											
N-4	0.0	N/A	0.0	0.0	0.0											
N-5	0.0	0.0	0.0	0.0	0.0											
N-6	0.0	0.0	0.0	0.0	0.0											
BS-1	0.8	0.5	0.5	0.4	0.4											

na - not available

Measured in % Volume

TABLE4june05.XLS

APPENDIX 1

Landfill Gas Control Well Vacuum Data
East Northport Landfill, East Northport, New York
for period of record between October, 1999 and June, 2005

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
CWII-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
CWII-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
CWII-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
CWII-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
CWII-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
CWII-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
CWII-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
CWII-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
CWII-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 H20

na = not available

Landfill Gas Control Well Vacuum Data
East Northport Landfill, East Northport, New York
for period of record between October, 1999 and June, 2005

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 H20
na = not available

Landfill Gas Control Well Vacuum Data
East Northport Landfill, East Northport, New York
for period of record between October, 1999 and June, 2005

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 H20
na = not available

Landfill Gas Control Well Vacuum Data
East Northport Landfill, East Northport, New York
for period of record between October, 1999 and June, 2005

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	-3.8	-3.8	-3.5	-3.5	-3.0	-2.7							
CWI-5	-2.5	-2.0	-3.0	-2.6	-3.2	-2.6	-4.0	-4.2	-3.5	-3.5	-3.1	-2.9							
CWI-6	-2.8	-2.5	-3.1	-2.5	-3.4	-2.5	-3.9	-4.4	-3.7	-3.7	-3.0	-2.9							
CWI-7	-2.7	-2.6	-3.0	-2.4	-3.3	-7.4	-3.8	-4.2	-3.6	-3.3	-2.8	-2.8							
CWII-1	-4.0	-4.2	-3.0	-2.3	-3.1	-2.3	-3.9	-4.1	-3.5	-3.3	-2.6	-2.7							
CWII-2	-2.2	-2.4	-3.0	-2.3	-3.1	-2.2	-3.5	-4.0	-3.4	-3.4	-2.7	-2.7							
CWII-3	-2.4	-2.0	-3.1	-2.3	-3.3	-3.0	-3.7	-4.3	-3.4	-3.4	-2.6	-2.7							
CWII-4	-2.6	-2.7	-3.0	-2.2	-3.3	-0.1	-3.3	-4.1	-3.3	-3.3	-2.4	-2.5							
CWII-5	-2.3	-2.5	-3.0	-2.2	-0.1	-0.1	-3.3	-4.3	-3.3	-3.1	-2.7	-2.6							
CWII-6	-1.7	-2.0	0.0	-1.4	0.0	0.0	-1.3	0.0	-1.5	-1.6	-1.7	-1.7							
CWII-7	-1.0	-1.0	0.0	-1.0	0.0	0.0	-1.2	0.0	-1.2	-1.3	-1.5	-1.2							
CWII-8	-0.5	-0.6	0.0	-0.1	0.0	-0.1	0.0	0.0	0.0	-0.1	-0.1	-0.1							
CWII-9	-0.9	-1.0	0.0	-0.7	0.0	-0.9	-0.8	0.0	-0.9	-1.0	-1.1	-0.8							
NW-1	-2.2	-2.4	-2.3	-2.4	-2.6	-2.5	-3.6	-3.6	-3.3	-3.2	-2.9	-2.7							
NW-2	-2.8	-2.6	-2.9	-2.6	-2.9	-2.6	-3.6	-4.2	-3.7	-3.6	-3.0	-3.0							
NW-3	-2.1	-2.0	-2.1	-2.3	-2.5	-2.3	-3.6	-3.5	-3.3	-3.2	-2.8	-2.6							
NW-4	-1.9	-1.9	-2.2	-2.1	-2.4	-2.3	-3.1	-3.1	-0.1	-2.9	-2.7	-2.5							
NW-5	-1.6	-1.8	-2.2	-1.8	-2.1	-1.8	-2.0	-2.6	-2.1	-2.4	-2.2	-2.0							
NW-6	-2.0	-1.8	-1.8	-1.8	-2.0	-1.8	-2.8	-2.5	-2.2	-2.6	-2.0	-2.0							
Ext-1	-0.9	-0.8	-0.1	-0.1	0.0	-1.7	-2.0	0.0	-2.0	0.0	-0.1	-1.8							
Ext-2	-0.9	-1.0	-0.8	-0.7	-0.8	-1.6	NA	-0.9	-2.2	-1.0	-1.2	-1.7							
Ext-3	-1.6	-1.8	-1.9	-1.7	-2.1	-1.6	-2.6	-2.7	-2.3	-2.6	-2.4	-2.1							
Ext-4	-1.7	-1.8	-1.7	-1.6	-2.0	-1.5	-2.4	-2.5	-2.4	-2.3	-2.3	-2.0							
Ext-5	-1.3	-1.5	-1.4	-1.4	-1.6	-1.3	-2.3	-2.1	-2.1	-2.0	-1.7	-1.7							
N-1	-0.8	-1.0	-1.0	-0.4	-0.1	-0.3	NA	-0.7	-0.5	-0.3	-0.6	-0.6							
N-2	-0.8	-0.8	-0.6	-0.5	-0.6	-0.7	NA	-0.2	-0.4	-0.3	-0.4	-0.6							
N-3	-0.2	-0.1	-0.2	-0.1	0.0	-0.1	NA	0.0	-0.1	-0.1	-0.1	-0.1							
N-4	-0.2	-0.2	-0.3	-0.1	-0.1	-0.2	NA	0.0	N/A	-0.1	-0.1	-0.1							
N-5	-0.3	-0.4	-0.2	-0.1	0.0	-0.2	NA	0.0	-0.1	-0.1	-0.1	-0.1							
N-6	-0.9	-1.0	0.0	-0.8	0.0	-0.1	NA	0.0	-0.9	-0.9	-1.0	-0.8							
BS-1	-3.9	-3.8	-4.3	-4.0	-4.6	-6.0	-6.4	-6.6	-6.0	-5.9	-5.2	-4.7							

Measured in inches of H20
na = not available

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