CITY OF RIPON

100 Jackson Street • Ripon, Wisconsin 54971-1396

July 24, 2013

Mr. Gary Edelstein, P.E.
Wisconsin Department of Natural Resources
Bureau for Remediation and Redevelopment - RR/5
P.O. Box 7921
Madison, WI 53707

Re: Ripon FF/NN Landfill Monitoring Report

Dear. Mr. Edelstein,

Enclosed is the quarterly monitoring report for the Ripon FF/NN Landfill. I would like to propose to you that we reduce the frequency of the formal reporting for this site to annual. We would still perform the quarterly monitoring and submit the data quarterly to the WDNR through the GEMS database, but would only prepare the formal report with charts, tables and figures on an annual basis. Please let me know if this would be an acceptable way of reporting going forward.

Sincerely.

Lori Rich

Lori Rich
City of Ripon Administrator

Enclosures

cc: Nelson Olavarria
Mike Noel

STATUS REPORT
APRIL 2013 SAMPLING EVENT
FF/NN LANDFILL NPL SITE
Ripon, Wisconsin

Prepared for:

FF/NN Landfill PRP Group
600 Travis, Suite 5600
Houston, Texas 77002

Prepared by:

Tetra Tech, Inc.
175 N. Corporate Drive, Suite 100
Brookfield, WI 53045

June 20, 2013

Michael R. Noel, P.G.
Principal Hydrogeologist, Project Manager

Ashley A. Weimer
Project Geologist

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1. SITE INFORMATION AND CONTACTS

CONTRACT SF-92-01

SITE NAME/ACTIVITY:

FF/NN Landfill NPL Site
Ripon, Wisconsin
Groundwater Monitoring and Corrective Action

WDNR File Ref. No.: 02-20-000915

PREPARED BY:

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DATE:
June 20, 2013

2. FIELD ACTIVITIES THIS REPORTING PERIOD

- Groundwater elevations were measured at 27 monitoring wells by Tetra Tech in April 2013. Water levels in Layer 4 wells were measured consecutively to avoid any effects from municipal pumping.

- A total of 17 monitoring wells, two leachate wells and three private drinking wells were sampled for VOCs by Tetra Tech during the April 2013 event. Two duplicate samples were collected for quality control. The revised groundwater monitoring program as outlined in the April 18, 2013 conditional approval letter from WDNR was followed for this sampling event (Attachment E).

- Jack Wendler from the City of Ripon conducted biweekly landfill gas monitoring of the extraction system vents and wells and collected gas samples for VOC analysis in April 2013.

3. RESULTS OF FIELD ACTIVITIES

3.1. Groundwater Monitoring Event - Groundwater Elevations

The groundwater monitoring wells located at the FF/NN Landfill are grouped into four layers based on well screen elevations to better evaluate groundwater quality at discrete depth intervals. Attachment A contains a table showing the wells for each of the four layers.

For the April 2013 sampling event, groundwater elevations were measured in all 27 monitoring wells by Ashley Weimer from Tetra Tech. Water levels in Layer 4 wells were measured consecutively to avoid any effects from municipal pumping. These elevations are provided in Table 1 and shown on Figures 1 through 4. Each layer is discussed separately below.

3.1.1. Layer 1 Wells

Layer 1 contains nine wells with screen elevations ranging from 812 feet to 821 feet MSL. All of these well screens intersect the water table. The groundwater elevations are displayed on Figure 1 and Chart 1. Compared to the event in January 2013, the water levels have increased in all nine wells. The water levels increased an average of 1.57 feet ranging from 1.14 feet in MW-107 to 1.95 feet in MW-102.

Historically, the groundwater flow direction in this layer has been to the southwest. The April 2013 groundwater flow direction is consistent with the historical results toward the southwest.

3.1.2. Layer 2 Wells

Layer 2 contains eight wells with screen elevations ranging from 774 feet to 792 feet MSL. The groundwater potentiometric surface for this layer is displayed on Figure 2 and Chart 2. Compared to the event in January 2013, the water levels have increased in all eight wells. The water levels increased an average of 1.68 feet and ranging from 1.17 feet in P-107 to 1.96 feet in P-101.

Historically, the groundwater flow direction in this layer has been to the south-southwest. The April 2013 groundwater flow direction is consistent with the historical results toward the south-southwest.

3.1.3. Layer 3 Wells

Layer 3 contains seven wells with screen elevations ranging from 634 feet to 704 feet MSL. The groundwater potentiometric surface for this layer is displayed on Figure 3 and Chart 3. Compared to the event in January 2013, the water levels have increased in all seven wells. The water levels increased an average of 1.92 feet ranging from 1.46 feet in P-116 to 2.97 feet in P-113B.

Historically, the groundwater flow direction in this layer has been to the southwest and becomes west-southwest further downgradient. The April 2013 groundwater flow direction is consistent with the historical results.

3.1.4. Layer 4 Wells

Layer 4 contains three wells with screen elevations ranging from 508 feet to 570 feet MSL. The three wells in this grouping are located 375 to 2300 feet downgradient of the landfill. The groundwater potentiometric surface for this layer is displayed on Figure 4 and Chart 4. Compared to the event in January 2013, the water levels increased in all three wells by an average of 2.27 feet.

When pumping at the City of Ripon Municipal Well # 9 was terminated in May 2007, the flow direction in Layer 4 shifted from the southeast to the west. The City brought Well # 9 back on line in April 2010. The groundwater flow direction in April 2013 is to the southeast indicating that Well #9 was likely pumping at the time of measurements.

3.2. Groundwater Monitoring Event - Monitoring Well Sampling

The revised groundwater monitoring program as outlined in the April 18, 2013 conditional approval letter from WDNR was followed for this sampling event. The groundwater samples were analyzed for volatile organic compounds (VOCs) using EPA Method 8260B. Analytical results and field forms are provided in Attachments B and C, respectively. The VOC analytical results for the monitoring wells are tabulated in Table 2. The temporal trend of chlorinated compound concentrations in all wells is provided in Charts 36 through 62.

Natural attenuation parameters were taken on selected wells during the April 2013 sampling event. The DO and ORP along with temperature, pH and conductivity were measured using a QED MP20 MicroPurge Flow Cell Meter. The iron II was measured in the field using CHEMetrics analyte-specific Vacu-vials® for photometric analysis using a CHEMetrics Model V-2000 LED photometer.

The following sections present a summary of the April 2013 VOC analytical results as they relate to groundwater standards for each well that was sampled. To better track impacts at various depths, the results are organized according to the four stratigraphic groupings of wells discussed previously.

3.2.1. Layer 1 Wells

- MW-103(Chart 38): No compounds exceeded NR 140 Enforcement Standards (ES). Vinyl chloride (VC) has not been detected since October 2007. Trichloroethene (TCE) exceeded its preventive action limit (PAL 0.5 ug/L) with a concentration of 1.7 ug/L. Cis-1,2-dichloroethene (DCE) was detected at a concentration of 1.1 ug/L, well below NR 140 standards.
- MW-104 (Chart 39): No compounds exceeded the NR 140 PAL. Chlorobenzene (3.0 ug/L) and 1,4-dichlorobenzene (1.8 ug/L) were detected at concentrations below NR 140 standards. VC has not been detected in this well since April 2006.

- MW-107 (Chart 41): No detection of any VOC. The last detection of TCE was below the ES in October 2009. VC has never been detected in this well since sampling began in 1993.
- MW-112 (Chart 44): No detection of any VOC. VC has not been detected in this well since July 2011.

3.2.2. Layer 2 Wells

- P-103 (Chart 47): No detection of any VOC. VC has not been detected in this well since April 2012.
- P-106 (Chart 49): No detection of any VOC. The last detection of TCE was below the ES in October 2004. VC has never been detected in this well since sampling began in 1993.
- P-107 (Chart 50): No detection of any VOC. VC has not been detected in this well since April 2012.

3.2.3. Layer 3 Wells

- P-103D (Chart 53): No detection of any VOC. VC has not been detected in this well since April 2012.
- P-111D (Chart 54): VC exceeded its ES at 6.5 ug/L (6.7 ug/L duplicate). 1,2-DCE (1.4 ug/L; 1.3 ug/L duplicate) and chloroethane (2.3 ug/L; 2.2 ug/L duplicate) were detected at concentrations below NR 140 standards. The results are similar to past results since 2007.
- MW-3B (Chart 55): No detection of any VOC. VC has not been detected in this well since May 2008.
- P-113B (Chart 56): No detection of any VOC. TCE, 1,2-DCE and VC have never been detected in this well since it was installed in 2002.
- P-114 (Chart 57): VC exceeded its ES with a concentration of 6.5 ug/L (no detection in duplicate). This result is similar to past results. 1,2-DCE (1.2 ug/L; 1.1 ug/L duplicate) was detected at a concentration below NR 140 standards.
- P-115 (Chart 58): VC exceeded its ES with a concentration of 1.1 ug/L. This result is similar to past results.
- P-116 (Chart 59): No detection of any VOC. TCE, 1,2-DCE and VC have never been detected in this well since it was installed in 2001.

3.2.4. Layer 4 Wells

- MW-3A (Chart 60): No detection of any VOC. TCE, 1,2-DCE and VC have never been detected in this well since it was installed in 2002.
- P-107D (Chart 61): VC exceeded its ES with a concentration of 2.1 ug/L. This result is similar to past results.
- P-113A (Chart 62): No detection of any VOC. TCE, 1,2-DCE and VC have never been detected in this well since it was installed in 2002.

3.2.5. Natural Attenuation Parameters

Because VC is the sole remaining contaminant of concern exceeding NR 140 standards and because VC reduction is most commonly an aerobic process via direct oxidation, MNA parameters that can demonstrate oxidative conditions were taken. Based on EPA (1998) guidance, iron II was taken as indirect evidence of natural attenuation. The results of the MNA sampling are shown on Table 3 and continue to indicate that the aquifer is marginally aerobic.

3.3. Groundwater Monitoring Event - Private Well Sampling

Historically, seven private wells have been sampled. Four of these wells (Altnau, Hadel, Miller and Wiese) have either been abandoned or converted to monitoring wells. The remaining three wells (Baneck/Perry/Watkins, Gaastra and Rohde) were sampled and each sample was analyzed for volatile organic compounds (VOCs) using EPA Method 524.2 (Safe Drinking Water Act). Analytical results and field forms are provided in Attachments B and C, respectively. The VOC analytical results for the private drinking water wells are tabulated in Table 4. No VOC's were detected in the private wells during this sampling event, except for methylene chloride in the Baneck/Perry/Watkins which is a common lab-introduced chemical.

3.4. Landfill Cap Inspection

Since the last quarterly report, there has been no noted ATV traffic or any other signs of trespassing. A sign has been placed at the access point. A full landfill cap inspection took place during the April annual sampling event, which proved the landfill cap to be in good condition.

3.5. Interim LF Gas Extraction System Performance Monitoring

Results of the gas monitoring are presented in Table 6 and Charts 7 and 11-30.

Current extraction is from shallow vent GV-6 and the three deep leachate wells (LC-1, LC-2 and LC-3). The other vents have remained closed to prevent oxygen levels from increasing above 5%. There were a few modifications to the system during this monitoring period based on the oxygen levels observed in the landfill:

- 2/11/2013 – Run time decreased to 9 hours on/15 hours off
- 2/25/2013 – Run time increased to 18 hours on/6 hours off
- 3/8/2013 – Run time increased to 23.5 hours on/0.5 hours off
- 4/29/2013 – Run time decreased to 20.5 hours on/3.5 hours off

Gas samples for VOC analysis were collected on April 29, 2013. The results are summarized on Table 7 and the lab report is included in Attachment B. The historical data shows that VOCs have been significantly reduced since startup of the landfill gas extraction system. In GP-3, methylene chloride was the only compound detected and VC has not been detected since October 2007. In GV-6, methylene chloride was the only compound detected and VC has not been detected since October 2009. In LC-1, toluene

was the only compound detected and VC has not been detected since October 2011. In LC-2, a mixture of chlorinated and petroleum hydrocarbons were detected at typically lower than historical levels. VC has not been detected since October 2009. In LC-3, a reduced number of chlorinated hydrocarbon compounds were detected and VC has not been detected since October 2012.

Monitoring of the gas probes and wells outside the limits of fill indicate that the gas extraction system has controlled gas migration from the fill area since its startup in March 2006. Gas concentrations in all exterior wells and gas probes have been consistently below the methane LEL (5.0%).

4. UPCOMING ACTIVITIES PLANNED

- Quarterly groundwater sampling and water level measurements will be conducted in July 2013 in accordance with the monitoring programed outlined in the April 18, 2013 conditional approval letter from WDNR.

- The gas extraction system will continue to be monitored for effectiveness throughout this quarter.

5. PERSONNEL

Mr. Michael Noel is the Project Manager and Principal Hydrogeologist. Ms. Ashley Weimer is the Project Geologist who oversaw the field activities. The laboratory analyses for April 2013 groundwater samples were completed by Pace Analytical Services, Inc. in Green Bay, Wisconsin. The laboratory analyses for the air samples were completed by Pace Analytical Services, Inc. located in Minneapolis, Minnesota.

TABLES

Table 1 - Groundwater Elevations
FF/NN Landfill
Ripon, WI

Well Name	TOC Elevation	Jun-93	Oct-93	Apr-94	Oct-96	May-97	Oct-97	Apr-98	Oct-98	Oct-99	May-00
MW-101	884.80	826.56	824.20	824.04	823.41	824.34			822.08	823.17	
P-101	885.26	826.52	824.24	824.02	823.38	824.33	823.00	820.24	822.04	823.16	822.73
MW-102	843.05	826.83	825.35	824.29	823.57	824.67	823.26			823.52	823.17
P-102	842.99	826.89	824.40	824.35	823.64	824.75	823.38	820.77	822.47	823.63	823.25
MW-103	872.42	823.08	821.77	819.49	820.56			819.22			
P-103	872.92	826.29	826.88	823.88	817.43	824.16	822.89	820.25	821.96	823.11	822.70
P-103D	873.08	(Installed December 2003)									
MW-104	875.15	826.32	824.12	824.02	823.14	824.13		820.13	823.87		
P-104	875.48	826.47	824.25	824.12	823.26	824.24	822.92	820.25	822.06	823.18	822.70
MW-106	878.90	826.67	824.21	824.24	820.96	824.61	823.23		822.42	823.45	823.10
P-106	878.91	826.63	824.09	824.07	823.42	824.51	823.16	820.40	822.33	823.38	823.02
MW-107	871.78	821.02	820.52	818.76	819.17	819.22		817.04	818.70	819.68	
P-107	871.38	820.86	820.37	818.78	819.07	819.24	818.38	817.14	818.72	819.71	818.62
P-107D	871.98			819.13	817.47	819.52	818.29	816.77	817.56	817.78	817.34
MW-108	845.25		819.00	817.85	818.17	818.31				818.48	817.49
P-108	845.61		822.03	821.09	821.29	821.52	820.55	818.77	820.25	821.18	820.25
MW-111	856.46			817.58	817.93	818.10	817.29	816.29	817.33	818.30	817.28
P-111	856.13			817.09	817.43	817.60	816.78	815.75	816.85	817.83	816.79
P-111D	855.79	(Installed April 2002)									
MW-112	874.55				819.46	819.92	819.02		819.15	820.02	819.20
P-113A	833.09	(Installed September 2002)									
P-113B	833.10	(Installed September 2002)									
P-114	839.35	(Private well converted to monitoring well in 2003)									
P-115	842.71	(Private well converted to monitoring well in 2004)									
P-116	845.34	(Private well converted to monitoring well in 2004)									
MW-3A	850.77	(Water levels taken beginning February 2002)									
MW-3B	851.04	(Water levels taken beginning February 2002)									
LC1	876.15				849.02	847.87	846.99	846.82	846.56		846.27
LC2	866.05				847.25	842.91	841.20	840.61	838.31	839.29	839.17
LC3	877.34					845.69					845.82

Notes: Blank cells indicate that the water level was below top of pump; unable to measure.
Measurements are in Feet Above Mean Sea Level (msl)
">" indicates depth to top of pump (water level was beneath pump)
NT - Not taken, only measured deep wells
NM - Well not measured

Table 1 - Groundwater Elevations
FF/NN Landfill
Ripon, WI

Well Name	TOC Elevation	Oct-00	May-01	Oct-01	Feb-02	May-02	Aug-02	Oct-02	Dec-02	Apr-03	Oct-03
MW-101	884.80		823.13	824.17	823.18	DRY	DRY	NT	DRY	DRY	821.24
P-101	885.26	822.66	823.06	824.16	823.19	800.47	814.42	NT	818.91	820.46	821.16
MW-102	843.05	823.19		824.38	823.53	818.93	DRY	NT	DRY	820.95	821.57
P-102	842.99		823.39	824.49	823.69	799.84	814.94	NT	819.47	821.08	821.66
MW-103	872.42			821.63	>51.32	819.28	819.34	NT	DRY	DRY	819.61
P-103	872.92	822.60	823.02	823.87	823.00	801.70	814.74	NT	819.01	820.52	821.12
P-103D	873.08										
MW-104	875.15			823.88	>51.28	DRY	DRY	NT	DRY	820.37	820.85
P-104	875.48	822.64	823.10	824.03	823.12	802.51	814.82	NT	819.05	820.50	821.43
MW-106	878.90	822.96	823.34	Dry	823.50	DRY	DRY	NT	DRY	DRY	821.58
P-106	878.91	822.89	823.26	824.25	823.39	800.31	814.52	NT	819.18	820.80	821.49
MW-107	871.78		819.36	820.12	>52.5	816.72	DRY	DRY	DRY	817.73	818.35
P-107	871.38	818.62	819.35	820.12	818.86	809.86	813.29	NT	816.65	817.74	818.39
P-107D	871.98	818.10	819.04	816.61	817.70	811.80	815.35	816.43	816.68	817.26	816.72
MW-108	845.25		818.32	818.62	>27.7	815.44	815.45	NT	815.79	816.20	816.68
P-108	845.61	820.45	820.97	822.08	820.66	811.84	815.19	NT	817.83	818.57	819.26
MW-111	856.46	817.32	818.15	818.74	817.51	813.43	813.59	NT	815.42	816.14	816.71
P-111	856.13	816.83	817.68	818.26	817.04	812.54	812.90	NT	814.90	815.68	816.27
P-111D	855.79					807.70	815.16	816.73	816.22	818.17	817.95
MW-112	874.55	819.21	819.87	820.52	822.87	814.38	814.47	NT	816.75	817.87	818.54
P-113A	833.09							816.09	816.39	816.93	816.20
P-113B	833.10							816.68	816.93	817.25	816.58
P-114	839.35									817.17	816.93
P-115	842.71										
P-116	845.34										
MW-3A	850.77				817.24	810.74	815.18	816.11	815.99	816.63	815.67
MW-3B	851.04				819.32	807.37	815.34	817.07	817.54	818.31	817.92
LC1	876.15		846.30	Dry	Dry	DRY	DRY	NT	DRY	DRY	NM
LC2	866.05	839.28	839.03	838.92	838.97	838.83	838.98	NT	838.75	839.17	NM
LC3	877.34		845.80	Dry	Dry	DRY	DRY	NT	DRY	DRY	NM

Notes: Blank cells indicate that the water level was below top of pump; unable to measure.
Measurements are in Feet Above Mean Sea Level (msl)
">" indicates depth to top of pump (water level was beneath pump)
NT - Not taken, only measured deep wells
NM - Well not measured

Table 1 - Groundwater Elevations
FF/NN Landfill
Ripon, WI

Well Name	TOC Elevation	Feb-04	Apr-04	Jul-04	Oct-04	Jan-05	Apr-05	Jul-05	Oct-05	Jan-06	Mar-06
MW-101	884.80	NM	822.87	825.76	823.36	822.85	823.27	821.11	DRY	820.81	NM
P-101	885.26	NM	822.86	825.76	823.35	822.84	823.26	821.07	820.23	820.75	NM
MW-102	843.05	NM	823.34	826.08	823.71	823.34	823.66	821.70	820.65	821.33	NM
P-102	842.99	NM	823.42	826.17	823.79	823.38	823.75	821.48	820.72	821.41	NM
MW-103	872.42	NM	821.06	824.54	822.24	820.52	821.60	819.70	819.25	819.24	NM
P-103	872.92	NM	822.77	825.58	823.23	822.78	823.14	821.09	820.26	820.92	NM
P-103D	873.08	820.64	821.89	824.39	822.21	821.89	822.08	820.26	819.23	820.24	NM
MW-104	875.15	NM	822.75	825.49	823.27	822.75	823.16	821.09	820.34	820.65	NM
P-104	875.48	NM	822.82	825.61	823.36	822.82	823.21	821.20	820.40	820.79	NM
MW-106	878.90	NM	823.25	826.07	823.60	823.20	823.61	821.42	DRY	821.24	NM
P-106	878.91	NM	823.17	825.99	823.50	823.10	823.54	821.31	820.50	821.16	NM
MW-107	871.78	NM	819.63	823.41	821.20	819.89	820.18	818.69	817.85	817.81	NM
P-107	871.38	NM	819.71	823.34	821.20	820.91	820.20	818.72	817.84	817.80	NM
P-107D	871.98	NM	818.68	819.78	817.72	817.65	818.77	815.90	814.85	816.33	816.45
MW-108	845.25	NM	817.86	820.27	819.00	818.17	818.41	816.95	816.27	816.31	NM
P-108	845.61	NM	820.52	823.39	821.94	820.84	821.05	819.76	819.13	819.04	NM
MW-111	856.46	NM	818.03	821.40	819.60	817.39	818.69	817.32	816.51	816.31	NM
P-111	856.13	NM	817.59	821.01	819.16	816.92	818.19	816.82	816.03	815.84	NM
P-111D	855.79	NM	819.55	821.82	819.77	819.55	819.55	818.11	817.37	818.40	NM
MW-112	874.55	NM	819.89	823.17	821.14	820.15	820.50	818.82	818.14	818.31	NM
P-113A	833.09	NM	817.91	818.17	817.32	817.28	818.35	815.50	814.36	816.40	816.04
P-113B	833.10	816.61	818.30	820.16	818.25	818.13	818.36	816.74	815.47	816.90	NM
P-114	839.35	NM	818.55	820.44	818.71	818.50	818.76	817.02	816.34	817.28	NM
P-115	842.71	NM	818.61	820.51	818.71	818.55	818.62	817.05	816.05	817.44	NM
P-116	845.34	NM	817.54	819.31	817.80	817.47	817.74	816.45	815.48	816.02	NM
MW-3A	850.77	NM	818.03	819.73	817.00	817.15	816.84	816.05	814.87	817.98	815.81
MW-3B	851.04	NM	819.79	822.01	819.66	819.60	819.45	818.44	817.28	819.15	NM
LC1	876.15	NM	846.45	NM	DRY	DRY	846.39	DRY	NM	NM	NM
LC2	866.05	NM	839.27	NM	838.89	DRY	839.05	838.89	838.91	839.01	NM
LC3	877.34	NM	DRY	NM	DRY	DRY	DRY	DRY	NM	NM	NM

Notes: Blank cells indicate that the water level was below top of pump; unable to measure.
Measurements are in Feet Above Mean Sea Level (msl)
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Table 1 - Groundwater Elevations
FF/NN Landfill
Ripon, WI

Well Name	TOC Elevation	Apr-06	Jul-06	Oct-06	Jan-07	May-07	Aug-07	Oct-07	Jan-08	May-08
MW-101	884.80	821.41	821.29	820.71	821.43	822.37	822.22	822.74	822.47	824.5
P-101	885.26	821.37	821.22	820.69	821.34	822.32	822.18	822.68	822.43	824.49
MW-102	843.05	821.91	821.75	821.15	821.73	822.85	822.55	822.95	822.95	824.9
P-102	842.99	822.06	821.80	821.25	821.82	822.90	822.63	823.01	823.03	824.95
MW-103	872.42	819.36	819.82	818.82	819.47	820.39	820.45	820.78	820.46	822.13
P-103	872.92	821.42	821.33	820.70	821.39	822.31	822.17	822.63	822.86	824.39
P-103D	873.08	820.54	820.43	819.88	820.52	821.56	821.495	822.015	821.935	823.885
MW-104	875.15	821.35	821.16	820.61	821.11	822.17	822.06	822.56	822.25	824.26
P-104	875.48	821.45	821.33	820.76	821.29	822.29	822.27	822.75	822.44	824.45
MW-106	878.90	821.85	821.77	821.10	821.78	822.78	822.51	822.76	822.84	824.77
P-106	878.91	821.72	821.67	820.99	821.62	822.71	822.44	822.7	822.75	824.7
MW-107	871.78	818.03	DRY	817.90	818.29	818.87	818.97	819.12	818.88	820.34
P-107	871.38	818.19	818.59	817.89	818.23	818.88	819.01	819.08	818.91	820.27
P-107D	871.98	816.89	816.83	816.24	817.05	818.27	818.79	819.93	820.32	822.9
MW-108	845.25	816.70	816.88	816.39	816.64	817.39	817.96	817.99	817.5	819.15
P-108	845.61	819.40	819.65	819.41	819.40	820.14	821.45	821.33	820.44	822.15
MW-111	856.46	816.74	817.14	816.58	816.72	817.40	817.44	817.51	NT	818.85
P-111	856.13	816.24	816.74	816.09	816.23	816.92	816.95	817.01	816.85	818.4
P-111D	855.79	818.62	818.54	818.26	818.48	819.84	819.44	819.92	820.14	822.09
MW-112	874.55	818.66	818.88	818.20	818.52	819.24	819.39	819.73	819.41	820.97
P-113A	833.09	816.39	816.54	815.81	817.29	817.78	818.13	819.42	819.91	822.4
P-113B	833.10	817.01	817.57	816.81	816.70	818.11	818.26	819.09	819.35	821.36
P-114	839.35	817.38	817.36	816.86	817.36	818.48	818.14	818.61	819	820.91
P-115	842.71	817.56	817.50	817.12	817.62	818.72	818.375	818.815	819.185	821.095
P-116	845.34	816.48	816.34	816.00	816.38	817.47	816.905	817.475	817.755	819.425
MW-3A	850.77	816.29	817.51	816.34	817.49	817.68	819.68	820.7	821.15	823.53
MW-3B	851.04	818.86	819.18	818.27	818.88	819.62	820.24	820.88	821.08	823.09
LC1	876.15	843.40	847.60	847.66	NM	846.41	NM	NM	NM	845.89
LC2	866.05	839.47	839.52	838.45	NM	838.63	NM	NM	NM	837.81
LC3	877.34	845.89	845.87	844.68	NM	846.12	NM	NM	NM	845.28

Notes: Blank cells indicate that the water level was below top of pump; unable to measure.
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Table 1 - Groundwater Elevations
FF/NN Landfill
Ripon, WI

Well Name	TOC Elevation	Jul-08	Sep-08	Oct-08	Jan-09	Apr-09	Jul-09	Oct-09	Feb-10
MW-101	884.80	825.1	822.61	822.63	822.93	824.08	823.61	822.68	822.2
P-101	885.26	825.07	822.56	822.59	822.91	824.05	823.6	822.63	822.17
MW-102	843.05	825.36	822.77	822.83	823.4	824.49	823.85	822.99	822.65
P-102	842.99	825.34	822.74	822.81	823.5	824.57	824.11	823.05	822.76
MW-103	872.42	823.95	822.05	821.92	821.19	821.99	821.72	820.83	820.27
P-103	872.92	825.02	822.57	822.66	822.97	824.06	823.59	822.62	822.24
P-103D	873.08	824.425	822.145	822.265	822.475	823.545	822.905	822.055	821.705
MW-104	875.15	824.9	822.54	822.55	822.82	823.92	823.47	822.53	822.06
P-104	875.48	825.12	822.78	822.74	822.98	824.06	823.64	822.68	822.22
MW-106	878.90	824.98	822.7	822.75	823.31	824.41	823.94	822.96	822.61
P-106	878.91	825.25	822.63	822.64	823.25	824.37	823.9	822.85	822.54
MW-107	871.78	823.81	821.16	821.04	819.71	820.34	820.25	819.37	818.81
P-107	871.38	823.72	821.1	821.09	819.4	820.34	820.26	819.34	818.48
P-107D	871.98	823.25	820.9	820.87	820.81	822.24	820.61	819.98	819.88
MW-108	845.25	820.42	819.28	819.23	818.16	818.87	818.58	817.93	817.28
P-108	845.61	823.57	822.14	822.05	820.87	821.67	821.73	821.06	820.08
MW-111	856.46	821.08	819.77	819.75	818.21	818.88	818.71	817.87	817.29
P-111	856.13	820.72	819.35	819.23	817.77	818.41	818.3	817.43	816.86
P-111D	855.79	822.61	820.74	820.79	820.65	821.71	820.85	820.15	819.91
MW-112	874.55	822.76	821.08	820.99	820.08	820.83	820.62	819.76	819.24
P-113A	833.09	822.8	820.45	820.53	820.34	821.81	820.1	819.4	819.57
P-113B	833.10	821.79	820.09	820.1	819.84	820.96	819.81	819.24	819.15
P-114	839.35	821.45	819.79	819.83	819.5	820.51	819.6	818.99	818.75
P-115	842.71	821.635	819.965	819.975	819.655	820.725	819.805	819.145	818.935
P-116	845.34	820.385	816.805	818.705	818.375	819.155	818.465	817.755	817.565
MW-3A	850.77	823.87	821.57	821.62	821.62	822.96	821.46	820.87	820.85
MW-3B	851.04	823.53	821.48	821.5	821.51	822.66	821.74	821.06	820.84
LC1	876.15	NM	NM	NM	NM	NM	NM	NM	NM
LC2	866.05	NM	NM	NM	NM	NM	NM	NM	NM
LC3	877.34	NM	NM	NM	NM	NM	NM	NM	NM

Notes:
Blank cells indicate that the water level was below top of pump; unable to measure.
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Table 1 - Groundwater Elevations
FF/NN Landfill
Ripon, WI

Well Name	TOC Elevation	May-10	Sep-10	Jan-11	Mar-11	Apr-11	Jul-11	Oct-11	Jan-12
MW-101	884.80	823.43	823.29	822.19	NM	823.66	824.41	822.45	822.93
P-101	885.26	823.37	823.25	822.14	NM	823.6	824.38	822.37	822.87
MW-102	843.05	823.77	823.66	822.66	NM	824.1	824.73	822.67	823.36
P-102	842.99	823.8	823.71	822.74	NM	824.16	824.79	822.67	823.44
MW-103	872.42	821.25	821.32	820.29	NM	821.34	822.45	821.14	820.97
P-103	872.92	823.34	823.19	822.26	NM	823.6	824.28	822.34	822.91
P-103D	873.08	822.575	822.35	821.81	821.96	822.88	823.26	821.64	822.04
MW-104	875.15	823.25	823.12	822.1	NM	823.47	824.19	822.32	822.82
P-104	875.48	823.41	823.3	822.26	NM	823.62	824.37	822.53	822.93
MW-106	878.90	823.72	823.6	822.57	NM	824.02	824.68	822.58	823.33
P-106	878.91	823.64	823.52	822.52	NM	823.94	824.6	822.48	823.24
MW-107	871.78	819.59	819.85	818.83	NM	819.76	821.04	820.04	819.96
P-107	871.38	819.62	819.82	818.98	NM	819.73	821.02	820.02	819.15
P-107D	871.98	819.68	818.85	820.47	819.05	820.29	819.73	818.74	819.38
MW-108	845.25	818.27	818.39	817.44	NM	818.51	819.21	818.48	818.11
P-108	845.61	821.53	821.66	820.25	NM	821.32	822.51	821.45	820.86
MW-111	856.46	818.07	818.3	817.39	NM	818.37	819.45	818.64	818.12
P-111	856.13	817.61	817.88	816.96	NM	817.89	819.01	818.18	817.68
P-111D	855.79	820.41	820.16	817.15	820.05	820.83	820.9	819.92	820.33
MW-112	874.55	820.13	820.24	819.33	NM	820.23	821.36	820.2	819.91
P-113A	833.09	819.09	818.24	820.05	818.53	819.67	818.78	818.34	818.72
P-113B	833.10	819.27	818.88	819.45	818.97	819.64	819.34	819.04	818.87
P-114	839.35	819.12	819	819.09	818.85	819.75	819.67	819	819.16
P-115	842.71	819.205	819.13	819.265	819.005	819.855	819.745	819.145	819.265
P-116	845.34	818.055	817.85	817.895	817.755	818.845	818.605	817.985	818.125
MW-3A	850.77	819.92	818.91	821.26	819	819.85	819.18	819.74	819.6
MW-3B	851.04	821	820.59	821.04	820.35	821.18	821.1	820.65	820.78
LC1	876.15	843.73	NM	NM	NM	843.14	NM	NM	NM
LC2	866.05	838.96	NM	NM	NM	838.4	NM	NM	NM
LC3	877.34	845.67	NM	NM	NM	845.22	NM	NM	NM

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Table 1 - Groundwater Elevations
FF/NN Landfill
Ripon, WI

Well Name	TOC Elevation	Apr-12	Jul-12	Oct-12	Jan-13	Apr-13
MW-101	884.80	823.33	823.56	821.86	821.99	823.89
P-101	885.26	823.29	823.5	821.82	821.92	823.88
MW-102	843.05	823.8	823.89	822.3	822.43	824.38
P-102	842.99	823.86	823.96	822.41	822.52	824.45
MW-103	872.42	821.24	821.9	820.21	820.09	821.5
P-103	872.92	823.32	823.48	821.9	822.02	823.88
P-103D	873.08	822.47	822.43	821.085	821.275	823.135
MW-104	875.15	823.22	823.4	821.79	821.87	823.76
P-104	875.48	823.22	823.57	821.96	822.02	823.87
MW-106	878.90	823.73	823.87	822.27	822.43	824.3
P-106	878.91	823.64	825.8	822.18	822.33	824.21
MW-107	871.78	819.77	820.68	818.98	818.73	819.87
P-107	871.38	819.76	820.7	819	818.71	819.88
P-107D	871.98	819.42	818.1	817.78	818.02	820.41
MW-108	845.25	818.28	818.74	817.63	817.27	818.74
P-108	845.61	821.01	822.09	820.82	820.02	821.52
MW-111	856.46	818.32	819.09	817.61	817.25	818.52
P-111	856.13	817.87	818.67	817.16	816.81	818.07
P-111D	855.79	820.28	820	819.01	819.29	821.07
MW-112	874.55	820.15	820.8	819.27	819.15	820.39
P-113A	833.09	818.51	817.23	817.23	817.5	819.83
P-113B	833.10	818.71	818.39	817.96	817.92	820.89
P-114	839.35	819.06	818.46	818.03	818.27	819.94
P-115	842.71	819.075	818.805	818.105	818.335	820.025
P-116	845.34	818.125	817.575	817.115	817.395	818.855
MW-3A	850.77	818.41	818.23	817.6	817.98	820.07
MW-3B	851.04	820.27	820.35	819.28	819.48	821.49
LC1	876.15	843.21	NM	NM	NM	843.36
LC2	866.05	837.87	NM	NM	NM	838.51
LC3	877.34	845.63	NM	NM	NM	845.52

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Closed Extraction Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
	11:05	3/20/2006	11.5	17.7	5.4	65.4	pre-startup
	9:50	3/22/2006	36.0	26.8	2.1	35.1	
	10:16	3/22/2006	34.8	24.3	1.9	39.0	
	15:28	3/22/2006	34.4	26.0	0.8	38.8	
	8:25	3/23/2006	32.9	31.0	2.1	34.0	
	16:30	3/23/2006	24.1	20.2	2.7	53.0	
	14:20	3/24/2006	4.7	4.8	17.1	73.4	
	14:10	3/28/2006	4.4	5.5	9.9	80.2	
	19:28	3/30/2006	13.1	16.7	5.8	64.4	
	13:10	4/5/2006	6.7	9.4	12.4	71.5	
	12:40	4/6/2006	6.8	9.0	12.3	71.9	
	13:00	4/11/2006	5.4	8.3	13.0	73.3	
	10:42	4/14/2006	11.3	17.8	3.6	67.3	
	15:19	4/14/2006	4.5	10.7	9.2	75.6	
	9:50	4/17/2006	2.1	6.1	14.5	77.3	
	19:16	4/27/2006	3.7	9.2	9.6	77.5	
	13:04	5/4/2006	3.8	9.8	10.4	76.0	
	10:12	5/22/2006	3.0	10.8	10.2	76.0	
	8:15	6/9/2006	3.9	11.9	11.5	72.7	
	12:29	6/14/2006	5.9	14.2	10.5	69.4	
	10:36	6/22/2006	4.3	13.2	9.7	72.8	
	12:01	7/5/2006	3.4	13.0	10.5	73.1	
	11:25	7/10/2006	5.3	20.0	4.1	70.6	
	10:45	7/17/2006	3.4	14.4	8.7	73.5	
	13:55	7/28/2006	4.5	18.1	6.5	70.9	
GV-12	9:40	8/8/2006	4.1	17.2	6.7	72.0	
	9:35	8/16/2006	0.7	2.8	17.5	79.0	
	8:14	8/21/2006	0.1	0.2	6.5	93.2	
	2:05	8/28/2006	5.3	18.7	6.7	69.3	
	11:16	9/13/2006	0.6	1.7	7.4	90.3	
	11:15	9/25/2006	12.6	27.8	2.1	57.5	
	8:15	10/10/2006	5.3	18.7	16.6	59.4	
	8:15	10/23/2006	4.7	18.7	9.0	67.6	
	14:44	11/2/2006	0.3	4.2	16.0	79.5	
	13:48	11/14/2006	5.0	16.2	4.8	74.0	
	11:22	11/27/2006	3.5	14.2	6.4	76.0	
	12:45	12/26/2006	3.9	13.2	7.6	75.4	
	13:23	1/27/2007	18.0	6.8	14.7	60.5	
	9:25	2/15/2007	0.3	0.6	19.5	79.7	
	9:37	2/15/2007	0.3	1.2	18.8	79.7	
	11:05	2/24/2007	0.4	1.2	19.3	79.1	
	9:34	3/1/2007	20.0	23.6	0.4	56.0	
	9:56	3/1/2007	19.0	23.4	0.2	57.4	
	11:07	3/1/2007	17.0	22.6	0.3	60.1	
	12:16	3/1/2007	14.5	21.4	0.2	63.9	
	13:19	3/1/2007	13.5	21.8	0.2	64.5	
	13:20	3/1/2007	15.0	22.6	0.3	62.1	
	14:27	3/1/2007	12.5	20.8	0.5	66.2	
	8:20	3/5/2007	6.0	18.2	2.1	73.7	adjust blower time, 12 on, 12 off
	8:15	3/24/2007	1.1	14.2	7.9	76.9	
	17:05	3/24/2007	0.8	14.2	7.6	77.4	

Table 6b. Landfill Gas Field Parameter Monitoring Results of Closed Extraction Points

Closed Extraction Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
	17:20	3/26/2007	0.2	11.4	9.3	79.1	
	7:36	3/27/2007	0.2	9.8	10.8	79.2	
	17:45	3/28/2007	0.5	12.0	7.7	79.8	
	8:15	3/29/2007	0.4	13.2	4.2	82.2	
	17:10	3/29/2007	0.4	12.6	6.3	80.7	
	8:15	3/30/2007	9.0	20.6	0.3	70.1	blower off
	11:07	5/30/2007	20.0	24.8	0.2	55.0	restart and run 24 hrs
	13:32	5/30/2007	13.0	24.0	0.4	62.6	
	10:40	5/31/2007	3.1	17.4	5.4	74.1	reduce to 12 on 12 off
	16:40	6/1/2007	2.5	17.2	3.6	76.7	
	15:37	6/2/2007	2.3	17.2	3.4	77.1	
	16:15	6/3/2007	1.9	16.8	2.8	78.5	
GV-12	14:20	6/4/2007	1.5	16.6	3.3	78.7	reduce to 6 on 18 off
	14:53	6/7/2007	3.9	18.2	2.2	75.8	
	17:08	6/12/2007	0.3	13.8	5.6	80.3	
	14:30	6/14/2007	0.8	15.4	1.9	81.9	
	14:20	6/19/2007	1.1	15.6	4.8	78.5	
	14:20	6/21/2007	1.5	16.8	2.7	79.0	
	14:10	7/11/2007	3.9	20.2	0.5	75.5	
	13:45	7/23/2007	4.5	20.8	0.3	74.5	
	14:21	8/8/2007	4.9	21.6	0.1	73.5	
	14:10	8/13/2007	4.1	21.6	0.0	74.4	
	13:40	8/20/2007	1.1	17.0	3.3	78.6	
	14:05	8/28/2007	0.5	15.0	4.7	79.8	
		8/31/2007					vent closed

Table 6c. Landfill Gas Field Parameter Monitoring Results of Gas Probes

Monitoring Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
GP-1	11:03	3/20/2006	**18.8**	8.1	0.4	72.7	pre-startup
	15:25	3/22/2006	**17.9**	8.0	0.4	73.7	
	14:10	3/23/2006	**21.4**	11.5	0.2	66.9	
	14:00	3/30/2006	0.8	2.4	15.0	81.8	
	13:45	4/6/2006	0.6	1.5	16.8	81.1	
	13:40	4/11/2006	1.2	0.8	19.3	78.7	
	11:33	4/14/2006	0.0	1.9	14.7	83.4	
	10:28	4/17/2006	3.8	4.8	16.8	74.6	
	7:15	4/28/2006	2.5	3.2	18.1	76.2	
	13:30	5/4/2006	0.0	3.4	13.9	82.7	
	10:45	5/22/2006	0.1	1.2	19.3	79.4	
	12:23	6/2/2006	0.1	3.5	12.1	84.3	
	8:02	6/9/2006	2.6	2.0	19.8	75.6	
	12:49	6/14/2006	1.1	3.9	15.4	79.6	
	11:10	6/22/2006	0.7	1.0	18.1	80.2	
	11:47	7/5/2006	0.6	2.4	14.9	82.1	
	11:15	7/10/2006	0.7	4.5	14.1	80.7	
	10:35	7/17/2006	0.8	2.9	15.8	80.5	
	13:42	7/28/2006	2.0	1.7	12.2	84.1	
	10:19	8/8/2006	4.4	8.5	12.9	74.2	
	8:20	8/16/2006	1.4	3.6	15.5	79.5	
	8:05	8/21/2006	0.5	0.6	13.0	85.9	
	13:52	8/28/2006	3.4	7.6	11.2	77.8	
	11:09	9/13/2006	4.6	0.1	12.5	82.8	
	10:28	9/25/2006	0.0	0.0	10.7	89.3	
	8:05	10/10/2006	0.7	2.3	17.6	79.4	
	8:07	10/23/2006	0.7	2.7	19.0	77.6	
	14:35	11/2/2006	0.3	2.6	17.6	79.5	
	13:35	11/14/2006	0.2	2.6	15.9	81.3	
	11:08	11/27/2006	0.2	0.4	19.3	80.2	
	12:20	12/26/2006	0.1	3.6	12.3	84.1	
	13:13	1/27/2007	0.5	2.8	14.6	82.2	
	10:50	2/24/2007	0.4	0.0	20.4	79.3	
	17:29	3/28/2007	0.3	2.4	14.6	82.8	
	10:25	5/1/2007	0.2	2.2	12.6	85.1	
	10:27	5/1/2007	0.1	1.2	16.1	82.6	
	12:00	5/30/2007	2.0	7.2	7.1	83.7	
	16:35	6/6/2007	**11.0**	10.6	0.8	77.6	
	14:48	6/7/2007	**6.0**	7.6	5.7	80.7	
	16:59	6/12/2007	1.1	6.0	9.4	83.5	
	14:25	6/14/2007	**7.0**	10.4	2.1	80.5	
	14:15	6/19/2007	3.5	6.6	9.7	80.3	
	14:10	6/21/2007	0.4	6.0	10.1	83.5	
	14:00	7/11/2007	4.0	8.4	8.3	79.3	
	14:35	7/23/2007	**8.5**	13.8	2.0	75.7	
	14:25	8/8/2007	**9.5**	14.8	2.4	73.3	
	11:45	8/13/2007	**6.5**	12.4	5.6	75.5	
	13:30	8/20/2007	**5.5**	10.8	9.2	74.5	
	13:55	8/28/2007	**12.0**	15.8	2.2	70.0	
	15:40	8/31/2007	**9.5**	14.0	4.2	72.3	

Monitoring Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
GP-1	14:35	9/4/2007	**8.0**	13.6	4.4	74.0	
	13:05	9/17/2007	0.2	6.0	12.0	81.8	
	9:25	9/29/2007	0.2	4.6	13.9	81.4	
	8:25	10/4/2007	0.4	2.8	17.1	79.7	
	9:25	10/7/2007	0.6	3.4	15.3	80.7	
	10:15	10/18/2007	**6.5**	12.2	4.2	77.1	
	8:45	10/25/2007	0.1	3.6	15.5	80.8	
	9:00	11/1/2007	0.1	5.4	13.8	80.7	
	9:40	11/13/2007	0.2	3.8	13.7	82.4	
	11:10	11/26/2007	0.3	1.2	19.3	79.3	
	10:40	12/10/2007	0.4	1.2	19.4	79.0	
	11:25	12/26/2007	0.3	1.4	18.6	79.8	
	13:00	1/23/2008	0.3	2.8	13.9	83.0	
	9:55	1/9/2008	0.4	1.0	17.7	81.0	
	13:00	1/23/2008	0.3	2.8	13.9	83.0	
	9:00	2/4/2008	0.1	2.2	14.6	83.1	
	7:30	2/18/2008	0.2	2.0	14.8	83.0	
	7:10	3/4/2008	0.1	1.2	19.1	79.6	
	8:05	3/18/2008	0.1	0.4	19.5	80.0	
	14:00	5/12/2008	0.0	4.8	3.5	91.7	
	8:55	5/19/2008	0.1	5.8	4.5	89.7	
	13:30	5/30/2008	**7.0**	7.8	0.8	84.4	
	8:55	6/12/2008	0.0	2.2	17.0	80.8	
	8:55	6/25/2008	**10.5**	10.0	0.0	79.5	
	10:55	7/7/2008	**8.5**	11.0	0.0	80.5	opened GV-6 to 200 ft/min
	11:50	7/21/2008	**13.5**	11.8	0.0	74.7	
	9:37	8/5/2008	**26.5**	13.4	0.0	60.1	
	10:40	8/5/2008	**18.0**	11.6	2.1	68.3	vent for 1 hour with cap off
	8:55	8/13/2008	**22.5**	14.4	0.0	63.1	increase to 12 on 12 off
	9:55	8/13/2008	**17.5**	11.4	3.1	68.0	vent for 1 hour with cap off
	8:35	8/19/2008	**7.0**	12.6	3.4	77.0	
	10:00	8/19/2008	**6.0**	14.0	1.3	78.7	vent for 1 hour with cap off
	11:58	10/3/2008	4.2	7.0	11.6	77.3	
	11:12	10/13/2008	1.8	4.4	14.2	79.6	
	9:00	10/28/2008	0.0	4.6	13.6	81.8	
	7:20	11/6/2008	0.4	3.4	15.1	81.1	
	10:15	12/8/2008	0.1	2.6	16.0	81.3	
	10:00	12/24/2008	0.0	2.2	15.7	82.1	
	11:30	1/8/2009	0.1	3.4	16.8	79.8	
	11:05	1/18/2009	0.1	3.6	16.1	80.2	
	7:20	1/27/2009	0.2	1.2	20.9	77.7	
	8:20	2/6/2009	0.1	0.6	19.8	79.5	
	10:30	2/23/2009	0.0	2.2	18.5	79.3	
	10:00	3/9/2009	0.0	1.8	17.9	80.3	
	10:00	3/20/2009	0.1	1.0	19.6	79.4	
	9:35	4/9/2009	0.0	2.8	8.7	88.5	
	10:20	4/19/2009	0.0	3.6	5.2	91.2	
	8:20	5/4/2009	0.0	3.8	1.8	94.4	
	8:25	5/18/2009	0.0	5.0	5.8	89.2	
	10:00	6/1/2009	0.0	6.6	6.1	87.3	

Monitoring Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
GP-1	8:40	6/14/2009	0.4	5.2	8.3	86.1	
	8:30	7/2/2009	0.0	3.2	15.1	81.7	
	7:20	7/13/2009	1.0	7.4	8.9	82.8	
	8:40	7/13/2009	0.0	0.8	18.9	80.3	vent for 1 hour with cap off
	7:20	7/22/2009	0.1	5.8	11.3	82.9	
	8:35	8/11/2009	0.0	3.4	14.7	81.9	
	8:30	8/24/2009	0.0	3.6	14.7	81.7	
	9:05	9/8/2009	2.0	7.8	9.4	80.8	
	9:05	9/21/2009	1.8	6.0	12.1	80.1	
	10:05	10/5/2009	0.0	5.8	12.9	81.3	
	10:30	10/28/2009	0.0	3.8	14.2	82.0	
	10:35	11/16/2009	0.0	2.4	16.5	81.1	
	9:05	12/18/2009	0.0	3.2	14.4	82.4	
	8:40	12/28/2009	0.0	1.0	18.4	80.6	
	8:45	1/11/2010	0.0	3.2	14.1	82.7	
	8:50	1/26/2010	0.3	4.0	9.1	86.7	
	10:32	2/25/2010	0.2	4.2	7.3	88.4	
	9:35	3/8/2010	0.0	5.4	1.0	93.6	
	9:05	3/22/2010	0.0	2.6	7.2	90.2	
	9:08	4/5/2010	0.0	3.8	14.6	81.6	
	9:05	4/19/2010	0.0	4.2	7.0	88.8	
	9:05	5/3/2010	0.0	1.2	17.6	81.2	
	9:35	5/17/2010	0.2	3.4	11.8	84.6	
	13:00	5/25/2010	0.0	4.8	10.7	84.5	
	9:05	6/24/2010	0.1	7.8	8.0	84.2	
	10:05	7/6/2010	0.0	8.8	3.0	88.2	
	8:38	7/19/2010	0.6	6.4	7.8	85.3	
	8:45	8/2/2010	2.6	9.4	3.9	84.1	
	9:35	8/16/2010	3.1	12.6	1.0	83.4	
	8:40	8/30/2010	2.2	9.0	6.6	82.3	
	8:50	9/13/2010	**5.5**	12.4	1.5	80.6	
	10:40	9/28/2010	3.7	11.2	1.9	83.2	
	6:50	10/12/2010	**14.0**	15.0	0.0	71.0	
	9:05	10/25/2010	**16.5**	16.0	0.0	67.5	
	9:20	11/2/2010	0.0	5.4	9.3	85.3	
	8:35	11/15/2010	4.4	9.0	3.8	82.8	
	9:30	12/10/2010	0.0	11.2	0.1	88.7	
	8:35	12/23/2010	0.0	1.2	17.9	80.9	
	9:05	1/10/2011	0.0	2.8	14.4	82.8	
	8:15	1/25/2011	0.2	5.0	8.1	86.7	
	11:35	2/11/2011	0.1	4.0	9.4	86.6	
	9:20	2/22/2011	0.2	1.0	18.1	80.8	
	8:55	3/7/2011	0.1	1.4	13.1	85.4	
	11:30	3/24/2011	0.3	0.2	20.9	78.6	
	8:35	4/6/2011	0.1	0.2	20.1	79.6	
	10:30	4/25/2011	0.1	0.2	20.7	79.0	
	8:35	5/9/2011	0.1	3.2	11.2	85.6	
	8:50	5/23/2011	0.0	5.4	3.8	90.8	
	10:35	6/6/2011	**6.4**	7.0	4.4	82.2	
	8:50	6/15/2011	**15.5**	9.6	0.3	74.6	

Monitoring Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
GP-1	9:00	7/5/2011	**15.0**	6.6	8.7	69.7	
	6:38	7/13/2011	**12.0**	13.0	0.4	74.6	
	8:00	7/26/2011	**13.0**	12.0	0.5	74.5	
	8:05	8/8/2011	**12.5**	12.6	0.3	74.6	
	7:35	8/23/2011	**25.0**	16.0	0.3	58.7	
	15:30	9/9/2011	**26.0**	18.2	0.2	55.6	
	15:58	9/15/2011	**11.5**	15.8	3.1	69.6	
	8:20	9/21/2011	**18.5**	18.2	0.4	62.9	
	9:25	9/21/2011	**13.5**	17.4	1.5	67.6	
	9:17	9/22/2011	**6.0**	10.8	8.1	75.1	
	10:04	9/22/2011	**7.0**	17.0	1.7	74.3	
	10:50	9/22/2011	3.8	9.6	10.2	76.5	
	10:35	10/3/2011	4.7	9.0	9.1	77.2	
	13:40	10/24/2011	1.9	15.0	2.2	80.9	
	10:45	10/26/2011	1.5	6.0	13.5	79.0	
	10:30	11/7/2011	0.3	4.0	14.8	81.0	
	9:08	11/14/2011	4.7	7.6	1.9	85.8	
	9:05	12/12/2011	0.1	1.6	15.3	83.1	
	10:05	12/27/2011	3.6	4.4	1.5	90.5	
	8:30	1/10/2012	4.6	4.4	0.1	91.0	
	10:15	1/25/2012	0.1	4.6	4.9	90.4	
	9:00	2/20/2012	**5.5**	3.6	3.1	87.8	
	8:40	3/8/2012	1.6	0.6	17.2	80.7	
	10:10	4/2/2012	0.1	1.2	18.4	80.3	
	8:50	4/16/2012	0.0	0.4	19.7	79.9	
	9:04	4/30/2012	0.4	5.6	1.4	92.7	
	9:05	5/14/2012	0.0	6.0	3.2	90.8	
	8:55	5/29/2012	2.1	10.4	1.1	86.5	
	7:35	6/11/2012	0.4	8.4	6.8	84.4	
	9:23	6/25/2012	4.6	10.4	4.2	80.8	
	8:50	7/9/2012	**10.0**	14.0	0.8	75.2	
	8:15	7/23/2012	2.6	9.2	7.8	80.5	
	10:15	7/25/2012	2.1	6.8	10.4	80.8	
	8:45	8/6/2012	3.3	10.4	7.3	79.0	
	9:05	8/21/2012	0.6	6.2	11.5	81.8	
	9:04	9/4/2012	3.3	9.2	8.4	79.1	
	8:45	10/1/2012	0.0	3.8	13.9	82.3	
	8:21	10/15/2012	0.0	3.8	14.0	82.2	
	7:20	12/6/2012	0.0	6.0	13.8	80.2	
	8:50	12/17/2012	0.0	3.2	14.4	82.4	
	8:35	12/31/2012	0.0	3.2	16.0	80.8	
	8:30	1/9/2013	0.0	6.2	12.2	81.6	
	10:15	1/15/2013	0.0	3.8	15.7	80.5	
	8:50	1/28/2013	0.0	3.4	14.7	81.9	
	10:35	2/11/2013	0.0	1.6	16.2	82.2	
	9:05	2/25/2013	0.0	1.4	17.7	80.9	
	7:18	3/8/2013	0.0	0.6	19.0	80.4	
	8:35	3/22/2013	0.0	1.4	17.8	80.8	
	13:35	4/8/2013	0.0	0.2	20.9	78.9	
	15:05	4/22/2013	0.0	0.0	20.0	80.0	
	9:30	4/29/2013	0.0	0.2	20.9	78.9	

Monitoring Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
GP-2	9:00	3/22/2006	**29.5**	27.8	0.5	42.2	pre-startup
	14:40	3/23/2006	**29.1**	24.5	0.8	45.6	
	14:20	3/30/2006	**11.5**	13.1	10.7	64.7	
	14:05	4/6/2006	**10.3**	12.6	10.2	66.9	
	14:15	4/11/2006	**5.4**	5.7	15.3	73.6	
	11:56	4/14/2006	**6.8**	12.1	8.7	72.4	
	11:00	4/17/2006	0.0	0.0	20.7	79.3	
	9:55	4/28/2006	0.0	0.1	20.7	79.2	
	14:15	5/4/2006	1.5	18.9	3.0	76.6	
	11:15	5/22/2006	0.0	0.0	20.5	79.5	
	12:49	6/2/2006	1.0	0.1	19.7	79.2	
	9:00	6/9/2006	1.9	0.5	20.4	77.2	
	13:20	6/14/2006	4.8	1.0	20.1	74.1	
	10:00	6/22/2006	0.6	0.2	20.4	78.8	
	12:34	7/5/2006	0.7	1.5	19.9	77.9	
	11:48	7/10/2006	0.7	0.8	19.6	78.9	
	11:15	7/17/2006	0.7	1.2	18.8	79.3	
	13:05	7/28/2006	0.5	0.7	19.1	79.7	
	10:50	8/8/2006	0.6	0.2	19.6	79.6	
	7:53	8/16/2006	0.1	0.0	19.9	80.0	
	7:40	8/21/2006	0.5	0.1	20.4	79.0	
	13:40	8/28/2006	0.0	0.0	20.2	79.8	
	10:50	9/13/2006	0.1	0.1	20.2	79.6	
	10:10	9/25/2006	0.6	9.5	13.7	76.2	
	7:45	10/10/2006	0.7	1.8	19.8	77.7	
	7:46	10/23/2006	0.7	3.9	18.0	77.4	
	13:24	11/2/2006	0.5	0.3	17.6	81.6	
	12:38	11/14/2006	0.1	5.2	15.7	79.1	
	10:51	11/27/2006	0.1	0.6	20.0	79.3	
	13:55	12/26/2006	0.3	6.2	14.5	79.1	
	12:25	1/27/2007	0.3	1.6	19.1	79.1	
	12:15	2/24/2007	0.3	3.6	16.5	79.7	
	16:05	3/28/2007	0.2	2.4	18.0	79.5	
	11:07	5/1/2007	0.0	3.8	15.2	81.0	
	12:17	5/30/2007	0.0	1.2	18.5	80.3	
	13:20	6/19/2007	0.1	7.6	11.5	80.9	
	11:20	8/13/2007	0.0	0.4	20.5	79.1	
	10:54	10/18/2007	0.1	1.0	18.8	80.1	
	13:10	1/23/2008	0.4	1.2	20.2	78.2	
	7:45	6/12/2008	0.0	2.2	18.6	79.2	
	11:05	7/21/2008	0.0	0.6	20.4	79.0	
	12:34	10/3/2008	0.0	0.6	20.9	78.5	
	11:40	10/13/2008	0.0	0.4	20.9	78.7	
	11:15	1/27/2009	0.3	1.8	20.3	77.6	
	10:46	4/9/2009	0.0	0.0	20.1	79.9	
	10:40	7/22/2009	0.0	0.8	18.9	80.3	
	10:05	10/28/2009	0.0	2.2	18.1	79.7	
	10:15	1/26/2010	0.3	3.0	17.1	79.7	
	11:39	5/25/2010	0.0	0.0	19.1	80.9	
	10:10	9/28/2010	0.0	2.4	17.1	80.5	

Table 6c. Landfill Gas Field Parameter Monitoring Results of Gas Probes

Monitoring Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
GP-2	11:10	1/25/2011	0.2	0.4	20.0	79.4	
	7:45	4/25/2011	0.2	3.0	17.4	79.4	
	7:37	7/13/2011	0.0	0.8	19.9	79.3	
	7:45	10/26/2011	0.0	1.0	20.0	79.0	
	9:26	1/25/2012	0.1	3.6	17.0	79.4	
	9:35	4/2/2012	0.1	0.4	20.9	78.7	
	11:00	7/25/2012	0.0	3.4	16.3	80.3	
	11:30	10/15/2012	0.0	1.8	17.7	80.5	
	10:10	1/15/2013	0.0	3.2	17.5	79.3	
	7:45	4/29/2013	0.0	1.0	20.4	78.6	

Monitoring Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
GP-3	7:49	3/22/2006	1.4	1.9	19.9	76.8	pre-startup
	12:57	3/23/2006	0.6	1.2	19.3	78.9	
	15:20	3/23/2006	2.2	4.5	16.4	76.9	
	14:35	3/30/2006	2.1	7.6	11.5	78.8	
	14:30	4/6/2006	1.6	11.8	7.2	79.4	
	14:40	4/11/2006	0.4	4.0	15.6	80.0	
	12:11	4/14/2006	0.0	1.5	18.1	80.4	
	11:20	4/17/2006	1.4	0.2	20.7	77.7	
	10:50	4/28/2006	0.4	0.1	20.7	78.8	
	15:00	5/4/2006	0.0	0.0	20.4	79.6	
	11:38	5/22/2006	0.2	0.0	2.5	97.3	
	13:18	6/2/2006	0.2	0.0	20.2	79.6	
	9:09	6/9/2006	0.8	0.1	20.5	78.6	
	13:45	6/14/2006	1.1	0.1	20.4	78.4	
	11:25	6/22/2006	0.7	0.0	20.1	79.2	
	11:19	7/5/2006	0.6	0.0	20.0	79.4	
	10:37	7/10/2006	0.6	0.0	19.6	79.8	
	0:57	7/17/2006	0.1	0.0	19.0	80.9	
	12:25	7/28/2006	0.6	0.0	19.7	79.7	
	11:32	8/8/2006	0.6	0.0	19.6	79.8	
	7:35	8/16/2006	0.5	0.0	20.0	79.5	
	7:24	8/21/2006	0.0	0.0	20.3	79.7	
	13:26	8/28/2006	0.1	0.0	19.9	80.0	
	10:31	9/13/2006	0.0	0.3	20.3	79.4	
	9:56	9/25/2006	0.6	3.0	17.6	78.8	
	7:20	10/10/2006	0.5	0.9	19.8	78.8	
	7:36	10/23/2006	0.1	0.0	20.6	79.3	
	13:10	11/2/2006	0.5	0.4	20.8	78.3	
	13:00	11/14/2006	0.1	4.2	16.1	79.6	
	10:39	11/27/2006	0.1	0.4	19.4	80.2	
	13:58	12/26/2006	0.3	0.2	20.0	79.6	
	12:00	1/27/2007	0.1	0.0	19.6	80.4	
	12:30	2/24/2007	0.3	4.6	14.7	80.4	
	15:32	3/28/2007	0.1	0.0	19.9	80.0	
	10:57	5/1/2007	0.1	2.6	16.5	80.8	
	12:33	5/30/2007	0.0	0.4	18.9	80.7	
	13:30	6/19/2007	0.0	0.0	20.9	79.1	
	11:00	8/13/2007	0.0	0.0	20.9	79.1	
	10:00	10/18/2007	0.1	4.0	15.7	80.2	
	13:55	1/23/2008	0.4	0.8	20.6	78.3	
	7:05	6/12/2008	0.0	0.0	20.9	79.1	
	10:30	7/21/2008	0.0	0.0	20.9	79.1	
	12:16	10/3/2008	0.0	0.0	20.9	79.1	
	10:00	10/13/2008	0.0	0.0	20.9	79.1	
	7:50	1/27/2009	0.2	3.6	17.4	78.8	
	11:10	4/9/2009	0.0	0.0	20.2	79.8	
	8:40	7/22/2009	0.0	0.4	19.1	80.5	
	9:24	10/28/2009	0.0	0.2	19.5	80.3	
	8:09	1/26/2010	0.2	0.0	20.4	79.4	
	9:15	5/25/2010	0.0	0.0	19.1	80.9	

Table 6c. Landfill Gas Field Parameter Monitoring Results of Gas Probes

Monitoring Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
GP-3	8:50	9/28/2010	0.0	1.8	17.2	81.0	
	8:45	1/25/2011	0.2	0.2	19.8	79.8	
	8:25	4/25/2011	0.2	4.6	14.9	80.3	
	8:15	7/13/2011	0.0	0.0	20.1	79.9	
	11:12	10/26/2011	0.0	0.2	20.4	79.4	
	11:30	1/25/2012	0.1	4.2	15.4	80.3	
	8:50	4/2/2012	0.0	0.0	20.9	79.1	
	8:27	7/25/2012	0.0	2.4	15.4	82.2	
	10:59	10/15/2012	0.0	0.0	19.0	81.0	
	11:00	1/15/2013	0.0	3.8	15.3	80.9	
	13:00	4/29/2013	0.0	1.2	19.3	79.5	

Table 6c. Landfill Gas Field Parameter Monitoring Results of Gas Probes

Monitoring Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
GP-4	9:11	3/22/2006	0.0	1.4	20.4	78.2	pre-startup
	15:35	3/23/2006	0.0	0.8	19.8	79.4	
	15:40	3/30/2006	0.5	0.8	21.8	76.9	
	14:40	4/6/2006	0.8	1.3	18.9	79.0	
	14:35	4/11/2006	0.2	0.9	19.2	79.7	
	12:18	4/14/2006	0.0	1.3	18.1	80.6	
	11:35	4/17/2006	1.3	0.8	20.4	77.5	
	10:40	4/28/2006	0.0	0.5	20.2	79.3	
	15:10	5/4/2006	1.3	0.6	13.2	84.9	
	11:50	5/22/2006	0.1	0.2	20.4	79.3	
	13:10	6/2/2006	0.2	0.8	19.1	79.9	
	9:12	6/9/2006	3.4	1.2	20.2	75.2	
	14:00	6/14/2006	0.0	0.0	19.9	80.1	
	10:39	6/22/2006	**6.0**	18.8	6.4	68.8	
	11:26	7/5/2006	0.6	0.6	20.0	78.8	
	10:43	7/10/2006	0.4	3.8	19.9	75.9	
	10:08	7/17/2006	0.9	0.6	19.6	78.9	
	12:34	7/28/2006	0.6	0.4	19.6	79.4	
	9:21	8/8/2006	0.6	0.3	19.7	79.4	
	7:42	8/16/2006	0.5	0.7	19.9	78.9	
	7:28	8/21/2006	0.4	0.5	20.0	79.1	
	13:31	8/28/2006	0.5	0.5	20.1	78.9	
	10:35	9/13/2006	0.7	0.6	20.2	78.5	
	9:59	9/25/2006	0.1	0.2	19.1	80.6	
	7:24	10/10/2006	0.6	0.5	20.3	78.6	
	7:40	10/23/2006	0.4	0.0	20.4	79.2	
	13:17	11/2/2006	0.5	0.2	21.0	78.3	
	13:11	11/14/2006	0.2	1.4	19.0	79.5	
	10:42	11/27/2006	0.1	0.6	19.7	79.7	
	14:04	12/26/2006	0.3	0.8	19.6	79.4	
	12:09	1/27/2007	0.1	0.4	19.6	79.9	
	12:38	2/24/2007	0.4	1.0	19.4	79.3	
	15:40	3/28/2007	0.1	0.2	19.8	79.9	
	10:50	5/1/2007	0.0	1.2	18.2	80.6	
	12:37	5/30/2007	0.0	1.8	17.5	80.7	
	13:40	6/19/2007	0.0	0.8	20.0	79.2	
	11:05	8/13/2007	0.0	0.6	20.6	78.8	
	10:10	10/18/2007	0.1	1.2	17.9	80.8	
	13:25	1/23/2008	0.3	0.4	20.9	78.4	
	7:25	6/12/2008	0.0	0.2	20.9	78.9	
	10:45	7/21/2008	0.0	1.2	19.2	79.6	
	11:18	10/3/2008	0.0	0.0	20.9	79.1	
	10:05	10/13/2008	0.0	1.2	19.7	79.1	
	7:05	1/27/2009	0.1	1.4	20.1	78.5	
	11:15	4/9/2009	0.0	0.6	19.4	80.0	
	10:37	7/22/2009	0.0	0.6	18.9	80.5	
	9:33	10/28/2009	0.0	0.6	19.3	80.1	
	8:14	1/26/2010	0.3	0.2	20.5	79.1	
	8:11	5/25/2010	0.1	0.8	18.5	80.7	
	9:05	9/28/2010	0.0	2.2	16.6	81.2	

Monitoring Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
GP-4	7:20	1/25/2011	0.0	0.0	19.6	80.4	
	7:30	4/25/2011	0.2	1.6	18.9	79.3	
	7:18	7/13/2011	0.0	1.0	19.4	79.6	
	11:15	10/26/2011	0.0	0.8	20.4	78.8	
	7:17	1/25/2012	0.1	1.0	19.1	79.8	
	9:15	4/2/2012	0.1	0.0	20.9	79.0	
	7:51	7/25/2012	0.0	1.2	18.2	80.6	
	11:08	10/15/2012	0.0	0.6	18.7	80.7	
	11:10	1/15/2013	0.0	2.4	18.4	79.2	
	8:06	4/29/2013	0.0	2.2	18.7	79.1	

Monitoring Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
GP-5	9:13	3/22/2006	0.0	4.4	17.6	78.0	pre-startup
	14:15	3/23/2006	0.0	4.2	17.6	78.2	
	14:05	3/30/2006	1.2	2.5	18.8	77.5	
	13:40	4/6/2006	1.1	3.0	17.9	78.0	
	13:45	4/11/2006	0.7	2.7	17.5	79.1	
	12:50	4/14/2006	0.1	3.5	15.4	81.0	
	10:30	4/17/2006	0.0	3.6	16.2	80.2	
	10:35	4/28/2006	2.2	7.0	13.0	77.8	
	10:40	5/22/2006	1.5	8.5	11.2	78.8	
	12:25	6/2/2006	0.1	7.2	9.4	83.3	
	8:45	6/9/2006	0.1	0.3	10.5	89.1	
	12:18	6/14/2006	0.1	0.0	9.1	90.8	
	11:18	6/22/2006	0.7	10.7	10.5	78.1	
	11:51	7/5/2006	0.6	11.9	11.1	76.4	
	11:17	7/10/2006	0.7	12.0	10.1	77.2	
	10:22	7/17/2006	0.8	11.9	11.1	76.2	
	8:24	7/28/2006	0.6	10.1	11.5	77.8	
	10:16	8/8/2006	0.6	11.8	10.1	77.5	
	8:35	8/16/2006	0.8	10.0	10.5	78.7	
	8:02	8/21/2006	0.5	0.8	10.9	87.8	
	13:54	8/28/2006	0.6	11.3	13.3	74.8	
	11:07	9/13/2006	0.1	0.0	13.4	86.5	
	10:26	9/25/2006	0.0	0.0	13.4	86.6	
	8:52	10/10/2006	0.7	8.9	14.4	76.0	
	8:00	10/23/2006	0.3	1.4	15.5	82.8	
	14:37	11/2/2006	0.3	7.2	14.0	78.5	
	13:25	11/14/2006	0.2	6.0	14.9	78.9	
	11:10	11/27/2006	0.2	5.2	15.7	79.0	
	12:35	12/26/2006	0.1	4.8	15.7	79.5	
	13:09	1/27/2007	0.4	5.4	15.8	78.4	
	10:55	2/24/2007	0.4	4.2	17.3	78.2	
	17:30	3/28/2007	0.3	3.4	16.6	79.8	
	10:22	5/1/2007	0.1	3.4	14.0	82.5	
	12:40	5/30/2007	0.0	6.4	9.9	83.7	
	16:25	6/19/2007	0.0	7.4	12.1	80.5	
	11:39	8/13/2007	0.0	8.4	11.8	79.8	
	10:20	10/18/2007	0.1	9.6	9.4	80.9	
	13:12	1/23/2008	0.3	5.6	15.7	78.4	
	9:00	6/12/2008	0.0	6.0	9.7	84.3	
	12:05	7/21/2008	0.0	10.6	7.7	81.7	
	11:55	10/3/2008	0.0	8.2	12.7	79.1	
	11:08	10/13/2008	0.0	6.6	14.1	79.3	
	7:10	1/27/2009	0.2	3.2	14.0	82.7	
	11:02	4/9/2009	0.0	2.8	16.8	80.4	
	7:30	7/22/2009	0.0	7.8	13.0	79.2	
	10:20	10/28/2009	0.0	5.6	14.4	80.0	
	9:05	1/26/2010	0.3	4.8	16.2	78.8	
	8:40	5/25/2010	0.0	6.4	9.5	84.1	
	11:00	9/28/2010	0.0	8.8	11.6	79.6	
	8:04	1/25/2011	0.2	4.4	17.0	78.4	

Table 6c. Landfill Gas Field Parameter Monitoring Results of Gas Probes

Monitoring Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
GP-5	10:35	4/25/2011	0.2	3.0	16.0	80.8	
	6:28	7/13/2011	0.0	9.4	10.7	79.9	
	12:05	10/26/2011	0.0	6.6	15.5	77.9	
	10:25	1/25/2012	0.1	4.8	14.9	80.2	
	10:48	4/2/2012	0.1	3.8	16.3	79.8	
	10:24	7/25/2012	0.0	7.0	11.9	81.1	
	9:00	10/15/2012	0.0	4.8	15.2	80.0	
	11:18	1/15/2013	0.0	4.6	16.9	78.5	
	10:08	4/29/2013	0.0	2.0	16.4	81.6	

Monitoring Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
GP-6	7:45	3/22/2006	0.0	6.1	13.9	80.0	pre-startup
	15:55	3/23/2006	0.0	4.9	16.3	78.8	
	15:15	3/30/2006	0.0	1.7	18.3	80.0	
	14:25	4/6/2006	0.0	2.8	16.9	80.3	
	14:30	4/11/2006	0.7	2.8	17.3	79.2	
	12:04	4/14/2006	0.0	3.8	14.6	81.6	
	11:15	4/17/2006	**10.4**	2.3	17.6	69.7	
	10:30	4/28/2006	0.0	2.5	18.3	79.2	
	14:30	5/4/2006	0.0	2.7	17.9	79.4	
	11:30	5/22/2006	3.8	3.9	18.1	74.2	
	13:04	6/2/2006	0.2	2.4	17.2	80.2	
	9:25	6/9/2006	0.1	0.8	17.7	81.4	
	14:10	6/14/2006	1.3	3.3	16.8	78.6	
	9:50	6/22/2006	0.5	3.1	17.3	79.1	
	11:13	7/5/2006	0.5	3.6	17.1	78.8	
	10:34	7/10/2006	0.6	3.9	16.7	78.8	
	9:58	7/17/2006	0.1	0.6	16.8	82.5	
	12:10	7/28/2006	0.6	3.6	16.5	79.3	
	9:05	8/8/2006	0.6	3.5	17.0	78.9	
	7:29	8/16/2006	0.1	0.0	17.2	82.7	
	7:18	8/21/2006	0.5	3.6	18.1	77.8	
	13:21	8/28/2006	0.0	0.0	18.1	81.9	
	10:20	9/13/2006	0.6	1.0	19.1	79.3	
	11:05	9/25/2006	0.7	2.6	18.5	78.2	
	7:30	10/10/2006	0.8	2.3	19.7	77.2	
	7:34	10/23/2006	0.9	2.4	14.4	82.3	
	13:05	11/2/2006	2.4	0.8	19.7	77.1	
	13:14	11/14/2006	0.2	3.0	17.9	78.9	
	10:35	11/27/2006	0.1	0.6	19.6	79.8	
	14:20	12/26/2006	0.3	3.0	18.0	78.7	
	13:45	1/27/2007	0.2	3.4	17.0	79.5	
	12:45	2/24/2007	0.4	3.0	18.1	78.5	
	16:00	3/28/2007	0.2	2.4	18.0	79.5	
	10:45	5/1/2007	0.1	3.0	16.4	80.5	
	12:23	5/30/2007	0.0	3.2	15.8	81.0	
	16:15	6/19/2007	0.0	2.4	17.8	79.8	
	10:54	8/13/2007	0.1	2.6	18.5	78.9	
	11:14	10/18/2007	0.1	3.4	16.4	80.1	
	11:28	1/23/2008	0.0	3.0	18.0	79.0	
	6:55	6/12/2008	0.0	2.6	17.8	79.6	
	11:00	7/21/2008	0.0	3.0	15.5	81.5	
	12:53	10/3/2008	0.0	3.8	17.7	78.5	
	9:55	10/13/2008	0.0	3.4	18.2	78.4	
	10:05	1/27/2009	0.2	3.0	18.4	78.4	
	10:58	4/9/2009	0.0	3.2	16.6	80.2	
	10:20	7/22/2009	0.0	3.6	17.1	79.3	
	9:10	10/28/2009	0.0	2.6	17.2	80.2	
	8:00	1/26/2010	0.1	3.0	17.4	79.6	
	8:18	5/25/2010	0.0	2.4	16.5	81.1	
	8:42	9/28/2010	0.0	4.2	14.6	81.2	

Table 6c. Landfill Gas Field Parameter Monitoring Results of Gas Probes

Monitoring Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
GP-6	11:25	1/25/2011	0.2	0.4	20.0	79.4	
	7:00	4/25/2011	0.1	3.0	17.2	79.7	
	7:32	7/13/2011	0.0	2.8	17.1	80.1	
	7:25	10/26/2011	0.0	3.0	18.3	78.7	
	7:08	1/25/2012	0.1	1.2	18.8	79.9	
	8:40	4/2/2012	0.1	0.2	20.9	78.8	
	8:01	7/25/2012	0.0	2.4	17.7	79.9	
	10:38	10/15/2012	0.0	1.8	18.1	80.1	
	8:50	1/15/2013	0.0	2.8	18.0	79.2	
	7:58	4/29/2013	0.0	2.4	17.8	79.8	

Monitoring Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
GP-7	7:40	3/22/2006	1.0	7.0	13.0	79.0	pre-startup
	15:50	3/23/2006	0.1	5.0	14.7	80.2	
	15:00	3/30/2006	**7.1**	4.6	18.2	70.1	
	14:20	4/6/2006	0.1	2.3	17.0	80.6	
	14:25	4/11/2006	0.2	3.2	16.3	80.3	
	12:07	4/14/2006	0.1	5.2	11.8	82.9	
	10:15	4/17/2006	**10.5**	1.3	18.5	69.7	
	10:25	4/28/2006	0.0	1.7	19.2	79.1	
	14:25	5/4/2006	1.2	2.2	18.8	77.8	
	11:22	5/22/2006	0.0	1.0	19.5	79.5	
	13:00	6/2/2006	0.2	1.6	18.5	79.7	
	9:20	6/9/2006	3.7	2.4	20.0	73.9	
	14:05	6/14/2006	3.1	2.5	19.2	75.2	
	9:45	6/22/2006	0.5	1.7	19.1	78.7	
	11:10	7/5/2006	0.5	1.5	19.3	78.7	
	10:30	7/10/2006	0.0	0.0	18.6	81.4	
	9:55	7/17/2006	0.1	0.0	18.5	81.4	
	12:05	7/28/2006	0.0	3.7	18.5	77.8	
	9:00	8/8/2006	0.6	1.3	19.0	79.1	
	7:25	8/16/2006	0.5	1.5	19.2	78.8	
	7:16	8/21/2006	0.5	1.4	19.8	78.3	
	13:19	8/28/2006	0.4	1.2	19.5	78.9	
	10:19	9/13/2006	0.6	1.3	19.9	78.2	
	11:03	9/25/2006	1.8	2.2	17.7	78.3	
	7:28	10/10/2006	0.7	1.4	19.5	78.4	
	7:32	10/23/2006	3.0	2.8	19.0	75.2	
	13:00	11/2/2006	0.5	1.6	19.8	78.1	
	13:18	11/14/2006	0.2	3.2	17.2	79.4	
	10:30	11/27/2006	0.0	1.2	19.0	79.8	
	14:15	12/26/2006	0.3	2.6	18.0	79.1	
	13:40	1/27/2007	0.1	3.4	16.7	79.9	
	12:40	2/24/2007	0.4	3.2	17.2	79.2	
	15:55	3/28/2007	0.1	1.2	18.9	79.8	
	10:43	5/1/2007	0.1	3.6	15.1	81.2	
	12:26	5/30/2007	0.0	3.6	15.6	80.8	
	16:20	6/19/2007	0.0	2.6	17.5	79.9	
	10:50	8/13/2007	0.1	1.4	19.3	79.3	
	11:10	10/18/2007	0.1	3.6	15.5	80.8	
	11:24	1/23/2008	0.0	3.2	17.6	79.2	
	10:48	6/12/2008	0.0	1.4	18.4	80.2	
	10:55	7/21/2008	0.0	2.6	17.3	80.1	
	12:50	10/3/2008	0.0	1.8	19.6	78.6	
	9:50	10/13/2008	0.1	1.6	19.4	79.0	
	10:00	1/27/2009	0.2	3.0	18.2	78.6	
	10:58	4/9/2009	0.0	3.2	16.6	80.2	
	10:15	7/22/2009	0.0	0.4	19.1	80.5	
	9:05	10/28/2009	0.0	1.4	18.2	80.4	
	7:50	1/26/2010	0.0	0.4	20.0	79.6	
	8:14	5/25/2010	0.0	1.8	17.7	80.5	
	8:35	9/28/2010	0.0	4.0	14.3	81.7	

Monitoring Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
GP-7	11:20	1/25/2011	0.2	0.4	20.0	79.4	
	6:55	4/25/2011	0.1	3.2	16.6	80.1	
	7:29	7/13/2011	0.0	1.4	19.1	79.5	
	7:20	10/26/2011	0.0	0.6	19.9	79.5	
	7:05	1/25/2012	0.1	2.0	18.0	79.9	
	8:35	4/2/2012	0.0	2.4	18.3	79.3	
	7:59	7/25/2012	0.0	1.8	17.4	80.8	
	10:30	10/15/2012	0.0	1.6	18.0	80.4	
	8:37	1/15/2013	0.0	3.2	17.1	79.7	
	7:55	4/29/2013	0.0	3.2	16.2	80.6	

Table 6c. Landfill Gas Field Parameter Monitoring Results of Gas Probes

Monitoring Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
GP-8	9:03	3/22/2006	0.0	2.4	18.6	79.0	pre-startup
	14:50	3/23/2006	0.0	1.9	18.6	79.5	
	14:55	3/30/2006	3.0	7.2	14.8	75.0	
	14:10	4/6/2006	0.0	7.0	10.9	82.1	
	14:20	4/11/2006	0.0	4.8	13.6	81.6	
	12:25	4/14/2006	0.0	5.4	12.2	82.4	
	11:10	4/17/2006	0.0	0.1	20.7	79.2	
	10:00	4/28/2006	0.0	0.2	20.4	79.4	
	14:20	5/4/2006	0.0	0.2	19.3	80.5	
	11:18	5/22/2006	0.6	0.1	20.4	78.9	
	12:55	6/2/2006	0.2	0.7	19.3	79.8	
	9:03	6/9/2006	2.4	0.6	20.3	76.7	
	13:37	6/14/2006	4.0	1.6	19.6	74.8	
	9:55	6/22/2006	0.5	0.5	19.8	79.2	
	12:27	7/5/2006	1.6	0.9	19.6	77.9	
	11:45	7/10/2006	0.7	1.2	19.2	78.9	
	11:10	7/17/2006	0.6	2.3	17.7	79.4	
	12:45	7/28/2006	0.6	0.8	19.0	79.6	
	10:58	8/8/2006	**17.8**	1.3	19.1	61.8	
	7:47	8/16/2006	0.1	0.2	19.5	80.2	
	7:33	8/21/2006	0.8	1.3	19.6	78.3	
	13:35	8/28/2006	0.0	0.0	19.1	80.9	
	10:47	9/13/2006	0.0	0.0	20.1	79.9	
	10:06	9/25/2006	0.0	0.0	17.5	82.5	
	7:26	10/10/2006	0.1	0.0	19.3	80.6	
	7:44	10/23/2006	0.7	1.4	19.6	78.3	
	13:20	11/2/2006	3.7	0.3	20.5	75.5	
	13:04	11/14/2006	0.1	4.2	15.1	80.6	
	10:45	11/27/2006	0.1	0.6	19.4	79.9	
	14:09	12/26/2006	0.3	0.8	19.2	79.7	
	12:15	1/27/2007	0.2	0.0	19.7	80.1	
	12:20	2/24/2007	0.3	5.2	12.8	81.8	
	15:47	3/28/2007	0.1	0.6	19.6	79.7	
	11:00	5/1/2007	0.0	8.5	7.6	83.9	
	12:20	5/30/2007	0.0	3.4	15.2	81.4	
	13:25	6/19/2007	0.0	0.6	20.2	79.2	
	11:10	8/13/2007	0.0	1.0	19.8	79.2	
	11:05	10/18/2007	0.1	6.0	11.5	82.4	
	11:38	1/23/2008	0.1	1.0	19.2	79.8	
	7:35	6/12/2008	0.0	0.6	20.7	78.7	
	10:50	7/21/2008	0.0	1.0	19.3	79.7	
	12:45	10/3/2008	0.0	0.4	20.9	78.7	
	10:10	10/13/2008	0.0	1.4	19.4	79.2	
	10:10	1/27/2009	0.3	1.8	19.0	78.9	
	10:51	4/9/2009	0.0	0.4	19.4	80.2	
	10:27	7/22/2009	0.0	0.8	18.8	80.4	
	10:00	10/28/2009	0.0	1.8	17.8	80.4	
	9:30	1/26/2010	0.3	0.4	20.0	79.4	
	8:25	5/25/2010	0.0	1.0	18.4	80.6	
	9:11	9/28/2010	0.0	5.4	12.7	81.9	

Table 6c. Landfill Gas Field Parameter Monitoring Results of Gas Probes

Monitoring Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
GP-8	11:15	1/25/2011	0.2	0.4	20.0	79.4	
	7:40	4/25/2011	0.2	4.4	14.4	81.0	
	7:23	7/13/2011	0.0	0.8	19.2	80.0	
	7:30	10/26/2011	0.0	0.8	20.4	78.8	
	7:27	1/25/2012	0.1	1.6	18.7	79.6	
	9:25	4/2/2012	0.1	1.0	20.4	78.5	
	11:07	7/25/2012	0.0	3.0	16.0	81.0	
	11:15	10/15/2012	0.0	1.0	18.3	80.7	
	8:59	1/15/2013	0.0	3.2	16.8	80.0	
	7:49	4/29/2013	0.0	3.6	15.3	81.1	

Monitoring Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
GP-10	8:58	3/22/2006	0.0	4.5	15.4	80.1	pre-startup
	14:42	3/23/2006	0.0	4.3	15.5	80.2	
	14:50	3/30/2006	0.0	1.6	18.7	79.7	
	14:15	4/6/2006	0.0	2.3	17.1	80.6	
	13:55	4/11/2006	0.0	1.5	18.3	80.2	
	11:54	4/14/2006	0.0	1.9	17.4	80.7	
	10:50	4/17/2006	0.0	3.0	16.5	80.5	
	9:50	4/28/2006	0.0	3.6	15.0	81.4	
	14:00	5/4/2006	0.0	3.4	15.4	81.2	
	11:04	5/22/2006	0.0	1.3	19.0	79.7	
	12:45	6/2/2006	0.1	1.8	17.6	80.5	
	8:55	6/9/2006	0.7	0.9	19.6	78.8	
	13:15	6/14/2006	0.0	0.0	17.7	82.3	
	10:05	6/22/2006	0.6	0.8	19.9	78.7	
	12:38	7/5/2006	0.6	5.3	14.9	79.2	
	11:50	7/10/2006	0.6	5.5	14.6	79.3	
	11:19	7/17/2006	0.6	1.4	19.4	78.6	
	13:09	7/28/2006	0.6	1.0	19.2	79.2	
	11:11	8/8/2006	0.6	4.7	14.7	80.0	
	7:58	8/16/2006	0.1	0.2	16.4	83.3	
	7:44	8/21/2006	0.4	3.5	17.3	78.8	
	13:42	8/28/2006	0.0	0.0	17.7	82.3	
	10:53	9/13/2006	0.6	2.4	18.6	78.4	
	10:12	9/25/2006	0.7	5.5	16.0	77.8	
	7:48	10/10/2006	0.7	5.3	19.2	74.8	
	7:48	10/23/2006	0.6	5.0	17.5	76.9	
	13:31	11/2/2006	0.6	4.3	17.3	77.8	
	12:35	11/14/2006	0.1	4.2	16.3	79.5	
	10:55	11/27/2006	0.1	4.0	16.8	79.1	
	13:50	12/26/2006	0.3	4.2	16.7	78.9	
	12:35	1/27/2007	0.3	4.0	17.2	78.5	
	12:10	2/24/2007	sampling port clogged with ice				
	16:10	3/28/2007	0.2	3.2	17.5	79.2	
	11:10	5/1/2007	0.0	3.8	15.7	80.5	
	12:15	5/30/2007	0.0	3.4	16.0	80.6	
	13:15	6/19/2007	0.1	1.8	18.7	79.5	
	11:24	8/13/2007	0.0	1.0	19.4	79.6	
	10:50	10/18/2007	0.1	2.4	16.9	80.6	
	14:20	1/23/2008	0.4	2.8	18.8	78.0	
	7:55	6/12/2008	0.0	4.0	16.0	80.0	
	11:15	7/21/2008	0.0	4.6	12.6	82.8	
	12:30	10/3/2008	0.0	5.0	16.4	78.6	
	11:50	10/13/2008	0.0	4.6	16.4	79.0	
	11:30	1/27/2009	0.3	3.4	18.2	78.1	
	10:41	4/9/2009	0.0	3.2	16.6	80.2	
	10:47	7/22/2009	0.0	2.8	17.2	80.0	
	10:05	10/28/2009	0.0	2.8	17.5	79.7	
	10:30	1/26/2010	0.3	0.8	19.6	79.3	
	11:50	5/25/2010	0.0	0.4	19.0	80.6	
	10:16	9/28/2010	0.0	1.8	17.7	80.5	

Monitoring Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
GP-10	11:00	1/25/2011	0.2	0.4	20.0	79.4	
	7:50	4/25/2011	0.2	3.4	17.0	79.4	
	7:41	7/13/2011	0.0	1.4	19.2	79.4	
	7:50	10/26/2011	0.0	2.4	19.2	78.4	
	9:45	1/25/2012	0.1	4.4	16.2	79.3	
	9:45	4/2/2012	0.1	4.2	17.0	78.7	
	10:52	7/25/2012	0.0	4.0	15.7	80.3	
	10:21	10/15/2012	0.0	3.2	15.0	81.8	
	10:20	1/15/2013	0.0	3.0	17.5	79.5	
	7:43	4/29/2013	0.0	3.0	17.1	79.9	

Table 6c. Landfill Gas Field Parameter Monitoring Results of Gas Probes

Monitoring Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
GP-11	9:09	3/22/2006	0.0	3.5	17.6	78.9	pre-startup
	14:27	3/23/2006	0.0	3.4	17.6	79.0	
	14:40	3/30/2006	0.0	0.8	19.7	79.5	
	13:55	4/6/2006	0.0	1.7	18.0	80.3	
	14:00	4/11/2006	0.0	0.7	19.8	79.5	
	11:43	4/14/2006	0.0	0.5	18.9	80.6	
	10:55	4/17/2006	0.3	0.1	20.4	79.2	
	7:30	4/28/2006	0.0	0.7	20.2	79.1	
	14:05	5/4/2006	0.0	0.0	19.9	80.1	
	11:07	5/22/2006	2.6	0.3	20.4	76.7	
	12:34	6/2/2006	1.0	0.1	20.4	78.5	
	9:45	6/9/2006	4.9	0.6	20.2	74.3	
	13:23	6/14/2006	0.8	0.3	20.0	78.9	
	10:10	6/22/2006	0.6	0.0	20.4	79.0	
	12:41	7/5/2006	0.5	1.4	18.5	79.6	
	11:55	7/10/2006	0.6	2.5	18.6	78.3	
	11:21	7/17/2006	0.5	1.5	18.1	79.9	
	13:15	7/28/2006	0.1	0.2	18.2	81.5	
	10:36	8/8/2006	0.6	2.2	17.8	79.4	
	8:01	8/16/2006	0.1	0.0	17.9	82.0	
	7:46	8/21/2006	0.5	2.4	19.0	78.1	
	13:45	8/28/2006	0.6	2.6	18.6	78.2	
	10:55	9/13/2006	0.1	2.7	19.2	78.0	
	10:14	9/25/2006	0.7	2.1	19.0	78.2	
	8:00	10/10/2006	0.7	2.0	18.5	78.8	
	7:52	10/23/2006	0.7	1.0	20.6	77.7	
	13:34	11/2/2006	0.6	1.5	19.8	78.1	
	12:44	11/14/2006	0.1	2.0	18.4	79.6	
	10:58	11/27/2006	0.1	1.0	19.6	79.3	
	13:40	12/26/2006	0.3	2.0	18.4	79.4	
	12:41	1/27/2007	0.4	2.6	18.2	78.9	
	11:10	2/24/2007	0.4	2.6	18.1	78.9	
	16:14	3/28/2007	0.2	2.6	17.8	79.5	
	11:15	5/1/2007	0.0	3.4	15.9	80.7	
	12:06	5/30/2007	0.0	3.0	16.8	80.2	
	13:05	6/19/2007	0.1	2.8	18.3	78.8	
	11:27	8/13/2007	0.0	2.2	18.8	79.0	
	10:34	10/18/2007	0.1	2.8	17.0	80.1	
	12:10	1/23/2008	0.2	2.4	19.2	78.2	
	8:05	6/12/2008	0.0	2.6	18.0	79.4	
	11:20	7/21/2008	0.0	3.4	16.6	80.0	
	12:23	10/3/2008	0.0	2.0	19.4	78.6	
	12:00	10/13/2008	0.0	2.2	19.1	78.7	
	10:45	1/27/2009	0.3	3.0	18.5	78.2	
	9:50	4/9/2009	0.0	3.4	16.8	79.8	
	10:53	7/22/2009	0.0	2.0	18.1	79.9	
	10:11	10/28/2009	0.0	2.4	17.9	79.7	
	9:15	1/26/2010	0.3	2.6	18.5	78.6	
	8:30	5/25/2010	0.0	3.2	16.5	80.3	
	10:25	9/28/2010	0.0	3.0	16.8	80.2	

Monitoring Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
GP-11	10:29	1/25/2011	0.2	3.6	16.6	79.6	
	7:55	4/25/2011	0.2	4.0	17.2	78.6	
	6:47	7/13/2011	0.0	2.8	18.3	78.9	
	10:10	10/26/2011	0.0	3.0	18.5	78.5	
	7:40	1/25/2012	0.1	2.6	18.4	78.9	
	9:55	4/2/2012	0.1	3.6	17.9	78.4	
	10:39	7/25/2012	0.0	1.8	17.9	80.3	
	10:05	10/15/2012	0.0	1.6	18.2	80.2	
	7:40	1/15/2013	0.0	2.2	19.1	78.7	
	7:35	4/29/2013	0.0	2.6	17.4	80.0	

Monitoring Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
GP-12	9:06	3/22/2006	0.0	5.7	13.0	81.3	pre-startup
	14:22	3/23/2006	0.0	5.5	13.2	81.3	
	14:20	3/30/2006	0.0	2.6	17.7	79.7	
	13:50	4/6/2006	0.2	2.1	17.3	80.4	
	13:50	4/11/2006	0.0	2.5	17.1	80.4	
	11:40	4/14/2006	0.0	2.5	15.5	82.0	
	10:45	4/17/2006	1.4	3.7	18.4	76.5	
	12:20	4/28/2006	0.0	2.4	18.0	79.6	
	13:54	5/4/2006	0.0	0.0	17.3	82.7	
	11:00	5/22/2006	1.4	2.7	17.5	78.4	
	12:28	6/2/2006	0.1	1.8	17.4	80.7	
	8:50	6/9/2006	0.9	2.1	19.2	77.8	
	13:10	6/14/2006	0.1	0.0	17.5	82.4	
	10:20	6/22/2006	0.5	2.2	18.2	79.1	
	11:57	7/5/2006	0.6	2.2	18.2	79.0	
	11:22	7/10/2006	0.6	2.7	18.2	78.5	
	10:39	7/17/2006	0.7	2.6	17.5	79.2	
	13:28	7/28/2006	0.6	1.5	18.2	79.7	
	11:22	8/8/2006	0.6	2.6	17.5	79.3	
	8:58	8/16/2006	4.1	18.6	10.0	67.3	
	8:44	8/21/2006	0.6	3.2	18.5	77.7	
	14:26	8/28/2006	0.0	0.0	19.4	80.6	
	11:42	9/13/2006	0.1	0.9	17.9	81.1	
	11:40	9/25/2006	0.8	3.4	16.8	79.0	
	8:47	10/10/2006	0.7	3.8	17.6	77.9	
	8:50	10/23/2006	0.7	4.1	16.4	78.8	
	14:55	11/2/2006	3.9	14.0	7.7	74.5	
	15:30	11/14/2006	0.3	3.6	16.7	79.5	
	11:05	11/27/2006	0.2	2.4	18.0	79.5	
	13:35	12/26/2006	0.3	3.8	15.7	80.3	
	13:18	1/27/2007	0.4	3.8	15.7	80.1	
	12:00	2/24/2007	0.2	3.2	16.6	80.0	
	17:40	3/28/2007	0.2	3.4	16.4	80.0	
	10:30	5/1/2007	0.1	2.6	16.1	81.3	
	12:02	5/30/2007	0.0	2.8	16.0	81.2	
	16:30	6/19/2007	0.0	2.8	18.1	79.1	
	11:35	8/13/2007	0.0	2.6	18.3	79.1	
	10:26	10/18/2007	0.1	4.0	15.2	80.7	
	13:08	1/23/2008	0.3	7.2	12.2	80.3	
	9:10	6/12/2008	0.0	2.4	17.1	80.5	
	11:45	7/21/2008	0.0	2.6	17.0	80.4	
	12:00	10/3/2008	0.0	4.0	17.6	78.4	
	11:30	10/13/2008	0.0	3.0	18.0	79.0	
	7:15	1/27/2009	0.2	5.6	15.3	78.9	
	9:44	4/9/2009	0.0	3.4	15.8	80.8	
	7:35	7/22/2009	0.0	2.4	17.9	79.7	
	11:15	10/28/2009	0.0	3.2	16.4	80.4	
	9:10	1/26/2010	0.3	5.2	14.9	79.7	
	11:55	5/25/2010	0.0	2.4	16.1	81.5	
	11:10	9/28/2010	0.0	4.0	15.3	80.7	

Monitoring Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
GP-12	8:19	1/25/2011	0.3	5.4	14.6	79.7	
	11:00	4/25/2011	0.1	3.2	16.1	80.6	
	6:35	7/13/2011	0.0	2.4	17.5	80.1	
	11:30	10/26/2011	0.0	3.6	17.8	78.6	
	10:35	1/25/2012	0.1	4.6	14.8	80.5	
	11:00	4/2/2012	0.1	3.2	16.1	80.6	
	10:32	7/25/2012	0.0	2.6	16.9	80.5	
	9:08	10/15/2012	0.0	3.2	16.1	80.7	
	11:30	1/15/2013	0.0	5.4	13.6	81.0	
	8:12	4/29/2013	0.0	3.2	16.0	80.8	

Table 6c. Landfill Gas Field Parameter Monitoring Results of Gas Probes

Monitoring Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
MW-101	9:24	3/23/2006	2.9	18.1	0.8	78.2	pre-startup
	14:25	3/30/2006	1.0	8.0	10.9	80.1	
	14:00	4/6/2006	0.8	0.2	20.0	79.0	
	14:05	4/11/2006	0.0	0.0	20.3	79.7	
	11:50	4/14/2006	0.0	1.8	17.9	80.3	
	10:58	4/17/2006	2.0	0.3	20.5	77.2	
	7:35	4/28/2006	0.0	0.0	20.7	79.3	
	14:10	5/4/2006	0.0	0.0	20.2	79.8	
	11:10	5/22/2006	0.0	0.0	20.5	79.5	
	12:38	6/2/2006	0.2	0.0	20.4	79.4	
	9:50	6/9/2006	1.1	0.2	20.5	78.2	
	13:48	6/14/2006	4.1	0.3	20.4	75.2	
	10:15	6/22/2006	0.0	0.0	20.4	79.6	
	12:46	7/5/2006	0.6	20.0	20.0	59.4	
	12:00	7/10/2006	0.6	0.0	20.0	79.4	
	11:30	7/17/2006	0.0	0.0	19.8	80.2	
	13:20	7/28/2006	0.6	0.0	19.3	80.1	
	10:41	8/8/2006	0.8	0.0	19.8	79.4	
	8:05	8/16/2006	0.1	0.0	19.6	80.3	
	7:52	8/21/2006	0.9	0.1	20.4	78.6	
	13:47	8/28/2006	0.6	0.1	20.2	79.1	
	10:57	9/13/2006	0.6	0.2	19.8	79.4	
	10:16	9/25/2006	0.6	0.2	20.2	79.0	
	8:03	10/10/2006	0.7	0.2	20.5	78.6	
	7:55	10/23/2006	0.9	0.7	19.8	78.6	
	15:00	11/2/2006	0.3	0.0	20.8	78.9	
	12:48	11/14/2006	0.1	0.4	19.4	80.1	
	11:00	11/27/2006	0.1	0.2	20.0	79.7	
	13:45	12/26/2006	0.3	0.0	19.3	80.5	
	12:45	1/27/2007	0.4	0.6	20.0	79.1	
	11:14	2/24/2007	0.5	0.6	20.1	78.9	
	16:18	3/28/2007	0.2	0.2	20.1	79.5	
	11:19	5/1/2007	0.0	0.2	18.8	81.0	
	12:08	5/30/2007	0.0	0.2	18.9	80.9	
	13:10	6/19/2007	0.1	0.0	20.9	79.1	
	11:30	8/13/2007	0.0	0.0	20.9	79.1	
	10:37	10/18/2007	0.1	0.0	19.6	80.4	
	12:18	1/23/2008	0.2	5.8	14.4	79.6	
	14:45	5/12/2008	0.0	0.0	19.8	80.2	
	8:15	6/12/2008	0.0	0.0	20.9	79.1	
	11:30	7/21/2008	0.0	0.0	20.9	79.1	
	12:20	10/3/2008	0.0	0.4	20.9	78.7	
	12:05	10/13/2008	0.0	0.0	20.9	79.1	
	10:40	1/27/2009	0.3	4.8	15.7	79.3	
	11:57	4/9/2009	0.0	0.0	19.9	80.1	
	10:57	7/22/2009	0.0	0.0	19.4	80.6	
	10:16	10/28/2009	0.0	0.6	19.6	79.8	
	9:20	1/26/2010	0.3	0.8	19.4	79.5	
	8:34	5/25/2010	0.0	0.0	19.3	80.7	
	10:32	9/28/2010	0.0	1.0	17.7	81.3	

Table 6c. Landfill Gas Field Parameter Monitoring Results of Gas Probes

Monitoring Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
MW-101	10:45	1/25/2011	0.2	0.4	20.0	79.4	
	8:00	4/25/2011	0.2	0.4	20.9	78.5	
	6:50	7/13/2011	0.0	0.0	20.5	79.5	
	10:15	10/26/2011	0.0	0.6	20.4	79.0	
	7:38	1/25/2012	0.1	0.6	19.5	79.8	
	10:00	4/2/2012	0.1	0.2	20.9	78.8	
	10:43	7/25/2012	0.0	0.0	19.1	80.9	
	10:15	10/15/2012	0.0	0.4	18.9	80.7	
	7:50	1/15/2013	0.0	1.8	18.7	79.5	
	7:39	4/29/2013	0.0	0.4	20.9	78.7	

Monitoring Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
	14:20	3/23/2006	0.0	0.7	20.5	78.8	pre-startup
	14:15	3/30/2006	1.0	0.5	20.6	77.9	
	13:35	4/6/2006	1.0	0.6	20.3	78.1	
	13:43	4/11/2006	0.5	0.3	19.7	79.5	
	11:50	4/14/2006	0.0	0.3	18.6	81.1	
	10:34	4/17/2006	0.8	0.7	20.1	78.4	
	14:00	4/28/2006	0.0	0.0	20.7	79.3	
	13:35	5/4/2006	0.0	0.2	20.5	79.3	
	10:42	5/22/2006	0.2	0.1	2.4	97.3	
	8:48	6/9/2006	0.0	0.0	19.8	80.2	
	12:20	6/14/2006	0.1	0.0	19.5	80.4	
	11:20	6/22/2006	0.7	0.1	19.9	79.3	
	11:53	7/5/2006	0.6	0.0	20.0	79.4	
	11:19	7/10/2006	0.6	4.7	15.1	79.6	
	10:20	7/17/2006	0.9	0.8	19.0	79.3	
	12:40	7/28/2006	0.6	0.6	18.6	80.2	
	10:13	8/8/2006	0.6	1.2	18.5	79.7	
	8:42	8/16/2006	0.1	0.0	17.7	82.2	
	8:00	8/21/2006	0.1	0.0	18.5	81.4	
	13:55	8/28/2006	0.6	1.8	18.8	78.8	
	11:05	9/13/2006	0.1	0.0	19.5	80.4	
	10:25	9/25/2006	0.1	0.0	19.2	80.7	
	8:44	10/10/2006	0.7	1.0	19.6	78.7	
	8:05	10/23/2006	0.8	0.4	19.6	79.2	
	14:42	11/2/2006	0.3	0.0	20.8	78.9	
MW-102	13:30	11/14/2006	0.2	0.2	20.0	79.6	
	11:12	11/27/2006	0.2	0.0	20.2	79.7	
	12:39	12/26/2006	0.1	0.0	20.0	79.9	
	13:10	1/27/2007	0.4	0.2	20.2	79.2	
	11:00	2/24/2007	0.4	0.2	20.6	78.9	
	17:35	3/28/2007	0.2	0.2	20.0	79.6	
	10:24	5/1/2007	0.0	1.4	17.0	81.6	
	11:57	5/30/2007	0.0	1.4	16.7	81.9	
	16:00	6/19/2007	0.0	0.0	20.6	79.4	
	11:42	8/13/2007	0.0	2.8	16.6	80.6	
	10:24	10/18/2007	0.1	4.2	15.0	80.7	
	14:05	1/23/2008	0.4	1.2	20.9	77.5	
	9:05	6/12/2008	0.0	0.6	18.9	80.5	
	12:10	7/21/2008	0.0	1.6	16.4	82.0	
	11:52	10/3/2008	0.0	3.6	16.8	79.6	
	11:03	10/13/2008	0.0	18.7	1.8	79.5	
	11:00	1/27/2009	0.3	1.0	20.8	78.0	
	9:29	4/9/2009	0.0	0.4	19.1	80.5	
	11:35	7/22/2009	0.0	1.8	16.1	82.1	
	10:25	10/28/2009	0.0	2.6	17.4	80.0	
	10:40	1/26/2010	0.3	2.2	18.4	79.1	
	8:44	5/25/2010	0.0	1.4	16.8	81.8	
	11:05	9/28/2010	0.0	4.6	14.1	81.3	
	8:08	1/25/2011	0.2	1.2	19.2	79.4	
	10:10	4/25/2011	0.1	0.2	20.7	79.0	
	6:30	7/13/2011	0.0	1.8	14.2	84.0	

Table 6c. Landfill Gas Field Parameter Monitoring Results of Gas Probes

Monitoring Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
MW-102	12:08	10/26/2011	0.0	2.4	18.4	79.2	
	10:30	1/25/2012	0.1	0.4	17.9	81.6	
	10:37	4/2/2012	0.1	1.4	18.5	80.0	
	10:28	7/25/2012	0.0	3.0	15.0	82.0	
	9:05	10/15/2012	0.0	2.8	16.7	80.5	
	11:21	1/15/2013	0.0	1.6	19.6	78.8	
	10:05	4/29/2013	0.0	0.6	19.2	80.2	

Monitoring Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
	7:49	3/23/2006	0.0	0.2	21.8	78.0	pre-startup
	15:30	3/30/2006	0.0	1.9	18.2	79.9	
	14:35	4/6/2006	0.4	8.0	9.4	82.2	
	14:40	4/11/2006	0.0	6.4	10.8	82.8	
	12:15	4/14/2006	0.0	3.2	15.6	81.2	
	11:30	4/17/2006	0.0	0.0	20.7	79.3	
	10:45	4/28/2006	0.0	0.0	20.5	79.5	
	15:05	5/4/2006	0.4	0.0	13.5	86.1	
	11:42	5/22/2006	0.2	0.0	20.6	79.2	
	13:14	6/2/2006	0.2	0.0	20.1	79.7	
	9:10	6/9/2006	1.1	0.1	20.5	78.3	
	13:30	6/14/2006	0.6	0.3	20.4	78.7	
	11:28	6/22/2006	0.7	0.0	20.2	79.1	
	11:27	7/5/2006	0.6	0.0	20.4	79.0	
	10:40	7/10/2006	0.0	0.0	19.9	80.1	
	10:06	7/17/2006	0.8	0.4	19.4	79.4	
	12:30	7/28/2006	0.6	0.0	19.9	79.5	
	9:17	8/8/2006	0.6	0.0	19.9	79.5	
	7:34	8/16/2006	0.1	0.0	19.9	80.0	
	7:25	8/21/2006	0.5	0.0	20.1	79.4	
	13:29	8/28/2006	0.1	0.0	20.3	79.6	
	10:34	9/13/2006	0.0	0.0	20.4	79.6	
	9:57	9/25/2006	0.0	0.1	19.3	80.6	
	7:22	10/10/2006	0.5	0.2	20.4	78.9	
MW-103	7:38	10/23/2006	0.6	0.0	20.8	78.6	
	13:14	11/2/2006	0.0	0.3	21.0	78.7	
	13:08	11/14/2006	0.2	9.2	11.2	79.5	
	10:40	11/27/2006	0.1	0.0	20.1	79.9	
	14:00	12/26/2006	0.3	0.2	20.1	79.5	
	12:05	1/27/2007	0.1	0.0	19.8	80.2	
	12:34	2/24/2007	0.4	4.2	16.3	79.2	
	15:35	3/28/2007	0.1	0.0	20.0	79.9	
	10:52	5/1/2007	0.1	0.8	18.7	80.4	
	12:40	5/30/2007	0.0	0.4	18.9	80.7	
	13:35	6/19/2007	0.0	0.0	20.9	79.1	
	11:05	8/13/2007	0.0	0.0	20.9	79.1	
	10:05	10/18/2007	0.1	1.2	18.5	80.2	
	13:45	1/23/2008	0.4	0.2	20.9	78.5	
	7:15	6/12/2008	0.0	0.4	20.9	78.7	
	10:40	7/21/2008	0.0	0.0	20.9	79.1	
	11:20	10/3/2008	0.0	0.0	20.9	79.1	
	10:05	10/13/2008	0.0	0.4	20.7	78.9	
	7:00	1/27/2009	0.0	0.0	20.9	79.1	
	11:17	4/9/2009	0.0	0.0	20.0	80.0	
	10:32	7/22/2009	0.0	0.4	19.6	80.0	
	9:27	10/28/2009	0.0	0.0	19.8	80.2	
	8:14	1/26/2010	0.3	2.2	18.0	79.5	
	8:08	5/25/2010	0.0	0.0	19.3	80.7	
	8:57	9/28/2010	0.0	0.0	18.9	81.1	

Table 6c. Landfill Gas Field Parameter Monitoring Results of Gas Probes

Monitoring Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
MW-103	7:15	1/25/2011	0.0	0.2	19.4	80.4	
	7:25	4/25/2011	0.2	3.0	17.5	79.3	
	7:15	7/13/2011	0.0	0.0	20.5	79.5	
	7:35	10/26/2011	0.0	0.0	20.9	79.1	
	7:14	1/25/2012	0.2	2.6	16.9	80.3	
	9:10	4/2/2012	0.0	0.0	20.9	79.1	
	7:48	7/25/2012	0.0	3.4	15.5	81.1	
	10:50	10/15/2012	0.0	0.2	18.9	80.9	
	11:05	1/15/2013	0.0	3.8	16.5	79.7	
	8:03	4/29/2013	0.0	0.6	20.9	78.5	

Table 6c. Landfill Gas Field Parameter Monitoring Results of Gas Probes

Monitoring Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
MW-104	9:29	3/23/2006	**12.8**	18.5	0.8	67.9	pre-startup
	15:45	3/30/2006	0.0	0.0	20.7	79.3	
	13:10	4/6/2006	**6.8**	8.9	10.5	73.8	
	14:50	4/11/2006	4.1	7.1	9.2	79.6	
	11:40	4/17/2006	2.0	0.3	21.0	76.7	
	14:10	4/28/2006	0.0	0.0	20.7	79.3	
	15:40	5/4/2006	0.0	0.0	8.1	91.9	
	10:27	5/22/2006	0.0	0.1	19.9	80.0	
	8:32	6/9/2006	0.0	0.0	19.6	80.4	
	12:45	6/14/2006	3.2	0.8	18.8	77.2	
	10:54	6/22/2006	0.8	0.1	19.7	79.4	
	12:19	7/5/2006	0.6	0.0	20.0	79.4	
	11:40	7/10/2006	0.7	0.6	19.8	78.9	
	11:05	7/17/2006	0.1	0.0	19.6	80.3	
	12:38	7/28/2006	0.6	0.0	19.8	79.6	
	9:49	8/8/2006	0.6	0.0	20.0	79.4	
	9:14	8/16/2006	0.7	0.2	19.4	79.7	
	8:30	8/21/2006	0.1	0.3	18.1	81.5	
	14:16	8/28/2006	0.0	0.0	17.6	82.4	
	11:29	9/13/2006	0.7	0.2	16.8	82.3	
	11:27	9/25/2006	0.0	0.2	19.5	80.3	
	8:27	10/10/2006	0.7	13.1	4.3	81.9	
	8:30	10/23/2006	0.7	0.3	16.7	82.3	
	14:14	11/2/2006	0.3	0.0	20.6	79.1	
	15:06	11/14/2006	0.2	0.6	19.4	79.8	
	12:04	11/27/2006	0.2	3.0	17.6	79.2	
	13:15	12/26/2006	0.2	0.0	20.0	79.9	
	14:16	1/27/2007	0.1	0.0	19.4	80.5	
	11:35	2/24/2007	0.5	12.8	5.6	81.1	
	16:55	3/28/2007	0.2	0.2	20.0	79.6	
	11:45	5/1/2007	0.0	0.0	18.9	81.1	
	11:48	5/30/2007	0.0	0.0	19.0	81.0	
	15:30	6/19/2007	0.0	0.0	20.9	79.1	
	12:05	8/13/2007	0.0	0.0	20.9	79.1	
	9:50	10/18/2007	0.1	0.0	19.6	80.3	
	13:20	1/23/2008	0.3	0.6	20.6	78.5	
	9:25	6/12/2008	0.0	0.0	20.9	79.1	
	12:30	7/21/2008	0.0	0.0	20.9	79.1	
	11:37	10/3/2008	0.0	0.0	20.9	79.1	
	10:45	10/13/2008	0.0	0.2	20.9	78.9	
	10:50	1/27/2009	0.2	14.6	3.9	81.3	
	11:40	4/9/2009	0.0	1.2	19.2	79.6	
	7:50	7/22/2009	0.0	0.0	19.6	80.4	
	9:48	10/28/2009	0.0	0.0	20.0	80.0	
	8:25	1/26/2010	0.4	0.2	20.4	79.1	
	11:30	5/25/2010	0.0	0.0	19.3	80.7	
	9:25	9/28/2010	0.0	0.2	18.6	81.2	
	7:45	1/25/2011	0.2	0.6	19.6	79.6	
	8:21	4/25/2011	0.2	0.4	20.5	78.9	
	7:47	7/13/2011	0.0	0.0	20.5	79.5	

Table 6c. Landfill Gas Field Parameter Monitoring Results of Gas Probes

Monitoring Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
MW-104	11:05	10/26/2011	0.0	0.2	20.4	79.4	
	7:10	1/25/2012	0.1	1.0	18.5	80.4	
	9:05	4/2/2012	0.0	0.0	20.9	79.1	
	8:07	7/25/2012	0.0	11.0	3.9	85.1	
	8:35	10/15/2012	0.0	0.0	18.1	81.9	
	9:55	1/15/2013	0.0	0.6	20.9	78.5	
	10:00	4/29/2013	0.0	9.4	6.8	83.8	

Monitoring Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
System Exhaust	2:00	3/28/2006	4.4	4.0	17.8	73.8	
	12:52	5/4/2006	8.6	14.7	7.4	69.3	
	11:15	6/28/2006	5.9	14.5	9.5	70.1	
	11:45	7/5/2006	6.1	18.7	7.2	68.0	
	11:12	7/10/2006	6.7	21.7	5.1	66.5	
	10:31	7/17/2006	6.2	18.6	6.5	68.7	
	14:24	7/28/2006	2.1	19.2	6.1	72.6	
	10:23	8/8/2006	5.9	18.0	6.8	69.3	
	8:30	8/16/2006	6.8	17.3	7.3	68.6	
	8:07	8/21/2006	6.9	18.0	7.6	67.5	
	14:00	8/28/2006	7.1	18.6	7.3	67.0	
	11:13	9/13/2006	15.2	20.0	8.1	56.7	
	11:37	9/25/2006	14.2	24.3	4.8	56.7	
	8:09	10/10/2006	7.4	19.2	8.2	65.2	
	8:13	10/23/2006	12.8	16.3	9.1	61.8	
	9:00	11/2/2006	5.0	14.0	8.2	72.8	
	13:43	11/14/2006	4.4	10.4	10.6	74.6	
	11:19	11/27/2006	3.8	10.2	10.8	75.2	
	12:31	12/26/2006	6.5	14.8	6.9	71.8	
	13:30	1/27/2007	8.0	15.8	6.4	69.8	
	10:45	2/24/2007	6.0	11.6	10.0	72.4	
	7:35	3/5/2007	0.1	0.2	19.8	79.9	
	8:20	3/24/2007	9.0	12.6	9.7	68.7	
	17:10	3/24/2007	8.5	12.6	9.4	69.5	
	17:25	3/26/2007	6.5	11.4	9.8	72.3	
	7:39	3/27/2007	6.5	11.2	10.2	72.1	
	17:25	3/28/2007	6.5	10.0	11.6	71.9	
	8:16	3/29/2007	5.5	8.8	12.3	73.4	
	17:15	3/29/2007	5.0	8.6	12.3	74.1	
	16:09	6/19/2007	12.5	18.2	4.6	64.7	
	11:55	8/13/2007	13.5	20.2	4.1	62.2	
	9:12	10/19/2007	7.5	16.2	5.0	71.3	
	12:50	1/23/2008	8.5	15.6	7.1	68.8	
	8:55	6/12/2008	8.0	15.2	7.3	69.5	
	12:03	7/21/2008	9.5	17.0	5.6	67.9	
	11:15	10/13/2008	6.5	9.8	12.0	71.7	
	7:20	1/27/2009	3.8	6.4	15.7	74.2	
	9:37	4/9/2009	6.5	7.6	13.3	72.6	
	7:40	7/22/2009	5.0	7.8	12.8	74.4	
	10:35	10/28/2009	6.5	7.4	13.9	72.2	
	7:20	1/27/2009	3.8	6.4	15.7	74.2	
	13:15	5/25/2010	5.0	5.2	15.2	74.6	
	10:45	9/28/2010	6.5	5.4	15.3	72.8	
	8:11	1/25/2011	4.4	4.2	17.1	74.3	
	10:40	4/25/2011	24.0	5.5	16.3	54.2	
	8:24	7/13/2011	5.5	3.8	17.4	73.3	
	16:15	9/15/2011	13.0	13.8	9.9	63.3	
	8:22	9/21/2011	34.0	26.8	2.9	36.3	
	9:28	9/21/2011	18.5	18.4	6.5	56.6	
	9:20	9/22/2011	22.5	22.6	3.7	51.2	
	10:05	9/22/2011	17.0	18.0	7.0	58.0	

Monitoring Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
	10:51	9/22/2011	18.0	18.8	6.0	57.2	
	10:32	10/3/2011	6.0	8.4	13.9	71.7	
	13:43	10/24/2011	7.5	10.0	12.0	70.5	
	10:50	10/26/2011	7.5	16.4	5.8	70.3	
	10:33	11/7/2011	5.5	7.4	14.6	72.5	
	9:11	11/14/2011	5.0	6.4	14.8	73.8	
	10:20	12/12/2011	7.5	4.8	16.6	71.1	
	10:10	12/27/2011	6.5	5.0	15.8	72.7	
	9:10	1/10/2012	6.0	6.0	14.4	73.6	
	10:17	1/25/2012	3.1	2.4	17.6	76.9	
	9:08	2/20/2012	3.1	3.0	19.3	74.6	
	9:35	3/8/2012	8.0	7.2	14.8	70.0	
	10:15	4/2/2012	4.3	4.4	17.4	73.9	
	8:55	4/16/2012	5.0	4.8	16.4	73.8	
	9:45	4/30/2012	7.5	7.4	13.6	71.5	
	9:08	5/14/2012	7.5	7.6	14.2	70.7	
	9:00	5/29/2012	5.5	5.2	15.7	73.6	
	7:38	6/11/2012	7.0	6.0	15.5	71.5	
	9:35	6/25/2012	4.8	4.6	16.3	74.4	
System	8:55	7/9/2012	5.0	5.0	15.6	74.4	
Exhaust	8:20	7/23/2012	6.0	8.0	13.0	73.0	
	10:17	7/25/2012	7.0	8.9	12.1	72.0	
	8:49	8/6/2012	3.9	5.6	15.0	75.6	
	9:10	8/21/2012	4.7	6.6	14.2	74.6	
	9:07	9/4/2012	4.5	6.8	13.5	75.2	
	8:50	10/1/2012	4.4	7.6	13.0	75.1	
	8:25	10/15/2012	4.8	8.4	12.2	74.7	
	7:25	12/6/2012	8.5	9.8	11.6	70.1	
	9:50	12/17/2012	7.5	7.8	12.4	72.3	
	8:40	12/31/2012	10.5	9.0	12.5	68.0	
	8:30	1/9/2013	12.0	10.6	11.6	65.8	
	9:40	1/16/2013	13.5	9.8	11.3	65.4	
	8:55	1/28/2013	6.5	5.4	17.1	71.0	
	10:25	2/11/2013					have to fix drop tube for readings
	9:10	2/25/2013	1.0	0.8	20.9	77.3	
	7:20	3/8/2013					No readings
	8:40	3/22/2013					No readings
	13:40	4/8/2013	6.0	5.8	15.7	72.5	
	15:10	4/22/2013	6.5	7.2	14.9	71.4	
	9:35	4/29/2013	3.5	4.6	16.3	75.7	

Table 7. Landfill Gas Analytical Results
FF/NN Landfill, Ripon, WI

Sampling Point ID	Date	Benzene	Chlorobenzene	Chloroethane	Chloromethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Dichlorotetrafluoroethane	Ethylbenzene	Methylene Chloride	1,1,2,2-Tetrachloroethane	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,1,2-Trichlorofluoromethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	Total Xylenes
GP-3	9/29/04	102		689					909			110	6660	229	131								205					25400	
	1/28/05			450					590				4500															12600	
	6/2/06												464			105					708							72.9	85.8
	11/2/06			5.9									28.7			19					122								50.1
	5/30/07	1.3	3					2.4	2				7.1			9				0.86	7.4		1			1.9	3.1		25
	8/9/07																												
	10/22/2007												135								33							24.4	
	1/23/2008								3.4				7.3										2.2						
	7/22/2008						1.6														0.74								
	10/7/2008								7.2				1.9		1.4		1.1		0.87		2.7								1.9
	1/27/2009								3.6								1.9												
	4/16/2009																				0.95								
	7/27/2009				0.83												109				19.4						1.2		0.76
	10/27/2009								1.7				5.7	0.82							0.95		6.5						
	2/25/2010				0.86												28				1.7								
	5/25/2010					8.2											15.8						6.2						
	10/12/2010								0.96								299				4.2								
	1/25/2011																1												
	4/25/2011								6.5				19	3			52.2			1.3	3.4		18.4						
	7/13/2011																				1.1					0.87			
	10/26/2011																6.4												
	1/25/2012								1.8								27.8												
	4/3/2012																												
	7/25/2012								2.09				2.28						2.98		3.11		6.9			2.04			
	10/17/2012								2.5				1.1							1.3	1.3								
	1/15/2013								1.8					2.3			36.7												
	4/29/2013																2.1												

Table 7. Landfill Gas Analytical Results
FF/NN Landfill, Ripon, WI

Sampling Point ID	Date	Benzene	Chlorobenzene	Chloroethane	Chloromethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Dichlorotetrafluoroethane	Ethylbenzene	Methylene Chloride	1,1,2,2-Tetrachloroethane	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,1,2-Trichlorofluoromethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	Total Xylenes
GV-6	7/28/2006	172	117	373					1070	42.6			19		281	323					107	27.9		38				3590	649.5
	11/2/2006	50.2	50.4	73.5					166	35.8					70.4	246					155					45	33.7	84.9	666
	2/23/2007								111	24.4					44.3			7.4			7	33.5		17.6					
	5/30/2007	32		190					160	21			19		120	73					56							150	151
	8/9/2007	75.8	127	255				27.6	119	35			22.4		72.5	543					84.6					98.9	88	54.5	1123
	10/22/2007			32					82	68.9			33.9		23	16.3					41.1	29.9		42.3					29
	1/23/2008			87.6					375	64.8			16		69.5							40		41.4					
	7/22/2008	15.3	16.8	84.7					95.5	83.1					58.4	66.2		22.8				63.4							112
	10/7/2008			43					93.6						21.4														
	1/27/2009																8						1.8						
	4/16/2009								3.1								238				1.7					0.85			
	7/27/2009								61.9	28					16.7		502		38.5										
	10/27/2009	17.7		78.7					40.6						77.7	34	32.7				48					39			107.60
	2/25/2010								133						132														
	5/25/2010			1.5					3	1.1							3				1.3								
	10/12/2010	1.9		11.8					5.3	1.6							23												
	1/25/2011																3.6												
	4/25/2011								192						184		4260				86								
	7/13/2011			6.2									10.7		2.9		15.7				4.6	0.96						4.2	
	10/26/2011								3.4								68.9				2.7								
	1/25/2012																				0.9								
	4/3/2012			37.8					53.3	6.3											1.1	5.1		3.3					
	7/25/2012								4.3						1.93				2.36		4.02								
	10/17/2012			15.6					19.6						10		9				1.5								
	1/15/2013			22.9					30.4						38.7														
	4/29/2013																31.4												

Table 7. Landfill Gas Analytical Results
FF/NN Landfill, Ripon, WI

Sampling Point ID	Date	Benzene	Chlorobenzene	Chloroethane	Chloromethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Dichlorotetrafluoroethane	Ethylbenzene	Methylene Chloride	1,1,2,2-Tetrachloroethane	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,1,2-Trichlorofluoromethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	Total Xylenes
LC-1	9/29/04			9.1					70.8						9.5														
	1/28/05								553				1080		178													130	
	7/28/2006	117							71.6						168	149					118								563
	11/2/2006	92.6	16.4	54.3					62.4	27.7			1010		30.5	636				22.1	3010		46.9			38.1	29.8		1954
	2/23/2007	48							129						14.6	64.2		21			40.8								175.2
	5/30/2007	160		270					180	24						380	500				270					57	43		1140
	8/9/2007	76.4	21.8	108					118	17.4					34.8	216	106				46.1					32.3	21		489.8
	10/22/2007	51.1	150	86.9					170	49.3					38	328	15.9				38.7					47.5	39.4		546.7
	1/23/2008																												
	7/22/2008	31.6	84.8	48.7					13.5	48.5			1.4		13.1	235		23		3.5		6.4	2.2	2.4	0.95	18	12.1		409.8
	10/7/2008	11.2		27.2					2.8	26.4			1.3				1.8				1.9	1.9	1.4	1.1					
	1/27/2009			7.6													3.3						4						
	4/16/2009								1.1				1.3				1.8				0.94								
	7/27/2009	1.5															7.1			1.2	1.5					3.6	1.7		6.4
	10/27/2009			267					388							384													626
	2/25/2010			123					176	19.2					88.9														
	5/25/2010	3.4		62.4					24.1																	1.3			
	10/12/2010	3.1		14.2					43.4	1.1					16.3	4.9	34.6				6.2					3.8	1.4		4.7
	1/25/2011																5.4												
	4/25/2011	83.2	74.9						542	70.7					193	193	665				68.8								309
	7/13/2011			63.4					36.8	10.7					18.6														
	10/26/2011															11.4	193				10.6		39.1						20.5
	1/25/2012			57.4					55.8	6.4					34.2														
	4/3/2012	19.5		29.5					91.2						22.7		52.2												
	7/25/2012			76.4					296																				
	10/17/2012								260						57														
	1/15/2013																3.5				1.8								
	4/29/2013																				65.1								

Table 7. Landfill Gas Analytical Results
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Sampling Point ID	Date	Benzene	Chlorobenzene	Chloroethane	Chloromethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Dichlorotetrafluoroethane	Ethylbenzene	Methylene Chloride	1,1,2,2-Tetrachloroethane	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,1,2-Trichlorofluoromethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	Total Xylenes
LC-2	7/28/2006	447	404	265					1060				3850	48.7	408	2790	88.6			81	8920		238			191	143	166	13006
	11/2/2006	221	96.9	216					1130						263	378					43.2					79.4	56		8532
	2/23/2007	186	182	148				36.2	309						176	449		194			83.7					173	157		7088.5
	5/30/2007	1.2		4.4					7.7				1.8		7.4	1.2					3.3							2.4	2.7
	8/9/2007	24.9		75.9					75.6						40.6	17.3					25.9								38
	10/22/2007	236	112	344						14.3			16.4		90.5	335								14.8		38.2	27.3		1744.1
	1/23/2008	282	54.7	426					956	19.1					274	200					80			82		77.7	24.1	18.4	1549.9
	7/22/2008	354	114	535					840						286	400					119								1820
	10/7/2008	37.2		284					538						211		18.3												
	1/27/2009					1.2							1.8				9.7			1.3			8.8		3.2				
	4/16/2009			1.5					5.3								200				2								
	7/27/2009								1490							243													1270
	10/27/2009	578		637					595						422	375						777	995						1920
	2/25/2010			224					161						197														
	5/25/2010	16.1		64.1					10.7	1.2					39.2		11.8				2.3								
	10/12/2010			43.7					113						56.9		38.7												
	1/25/2011																2.6				1.1								
	4/25/2011																10.3				3.6					0.83			
	7/13/2011	58							439																				
	10/26/2011	20		243					379						211														
	1/25/2012			2.3					4						3.1		79												
	4/3/2012								408						190														
	7/25/2012	22.6																	3.3		4.33								
	10/17/2012								0.95												1.2					1.8			
	1/15/2013																1.6						1.9						
	4/29/2013	9.4	31.4			9.8		12.5				3.9	3.9			2.3	1.2				35.8		1.5			6.3	3.6		23.4

Table 7. Landfill Gas Analytical Results
FF/NN Landfill, Ripon, WI

Sampling Point ID	Date	Benzene	Chlorobenzene	Chloroethane	Chloromethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Dichlorotetrafluoroethane	Ethylbenzene	Methylene Chloride	1,1,2,2-Tetrachloroethane	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,1,2-Trichlorofluoromethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	Total Xylenes
LC-3	7/28/2006												516								1070								1340
	11/2/2006	1110	95.4					33.4	740	98.5		254	5840	228	115	526	1430		22.6	209	5030		912	184		158	85.1	1600	3310
	2/23/2007	434							2810	81.6		166	43400		231	185	1440	21.1		63.2	10000		573 J	1210				11900	632
	5/30/2007	610	110					71	5200	64		460	137000		260	18400	2700			260	146000		3200	270		260	150	172000	47400
	8/9/2007	28.8							258	58.6			4960		25.9		197				328		64.1	19.3				4680	
	10/22/2007	162							447	21.6			38300	91.3	66.4	179	1370			20.7	16800		1770	45.4				10700	362.7
	1/23/2008	4.5							44.2	1		10.4	1820		14.2		69.1				37.9		14.5	2.1				1220	
	7/22/2008	30.2	10.3	4.9				1.8	62.4	3.5	0.95	25	6050	13.1	14.3	320	196		15.2	12.6	5140		301	2.6		12.8	7.4	1920	931
	10/7/2008												1.3				2.1						2.1						
	1/27/2009			1.6	2												3.2												
	4/16/2009																674				5.6								
	7/27/2009	26.7	13.2						9.1			24.5	4560		27	311	131			10	2730		289	6.2		0.86	5.5	1760	876
	10/27/2009	256											66400		250	1900	450				33600		1500					9760	7150
	2/25/2010												33.8				54.6										82.5		
	5/25/2010	24.1							94.1			24.5	2470		39	19.3	68.1				692		55.5					1670	41.8
	10/12/2010								24.5			2.2	31.6		5.6		3.8						0.92	0.84					394
	1/25/2011																2.4												
	4/25/2011												34600			3540					44400							27600	10370
	7/13/2011	172							68.9			97.2	9120		49.8	75.9	305				3180		402					11000	159.9
	10/26/2011																22.7												
	1/25/2012								1340				15800								1910							26300	
	4/3/2012								1420				13800								3260							27100	
	7/25/2012	3.2							19.3			1.69	52.1		1.8	2.06	4.02		2.61		43.3		6.96					85.1	3.42
	10/17/2012	92.7							467			46.9	8300	25	52.6	99.5	92.6				2810		248	24.7				10200	237
	1/15/2013																1.6												
	4/29/2013											3.9	3.9								1.1		25.6						

Values in ppbv (parts per billion by volume)
Analyzed using EPA Method TO-14A

FIGURES

GP-10
GP-11
P-101
MW-101
(821.86)
GP-12
GP-2
GV-4
GV-5
GV-12
GP-1
LC-1
GP-5
GV-3
GV-6
GV-11
P-102
MW-102
(822.3)
P-104
MW-104
(821.79)
LC-2
GV-2
GV-7
GV-10
GP-8
LC-3
GV-1
GV-8
GV-9
P-106
MW-106
(822.27)
P-108
MW-108
(817.63)
(819.27)
MW-112
P-103D
P-103
MW-103
(820.21)
GP-4
GP-3
GP-7
GP-6
P-107D
P-107
MW-107
(818.98)
CTY HWY FF
822.5
822
821.5
821
820.5
820
818
818.5
819
819.5
817.5
LAYER 1
DIRECTION
OF FLOW
P-111D
P-111
MW-111
(817.61)
BICYCLE PATH
BICYCLE PATH
MW-3A
MW-3B
ALTNAU
(abandoned)
GAASTRA
P-114
(EHSTER)
CHARLES STREET
P-116
(HADEL)
P-115
(WIESE)
BANECK
SOUTH KORO ROAD
ROHDE
MILLER
(abandoned)
P-113A
P-113B

EXPLANATION

- P-104 / MW-104 — MONITOR WELL, PIEZOMETER LOCATION, DESIGNATION
- LC-2 — LEACHATE HEAD WELL LOCATION, DESIGNATION
- OUTLINE OF CLOSED LANDFILL
- GP-1 — GAS PROBE LOCATION AND DESIGNATION
- GV-1 — GAS VENT LOCATION AND DESIGNATION
- (822.45) — GROUNDWATER ELEVATION

N

SCALE

0 500

Feet

BASEMAP FROM FOND DU LAC COUNTY PLANNING DIVISION, SPRING 2000.

FF/NN LANDFILL
RIPON, WISCONSIN

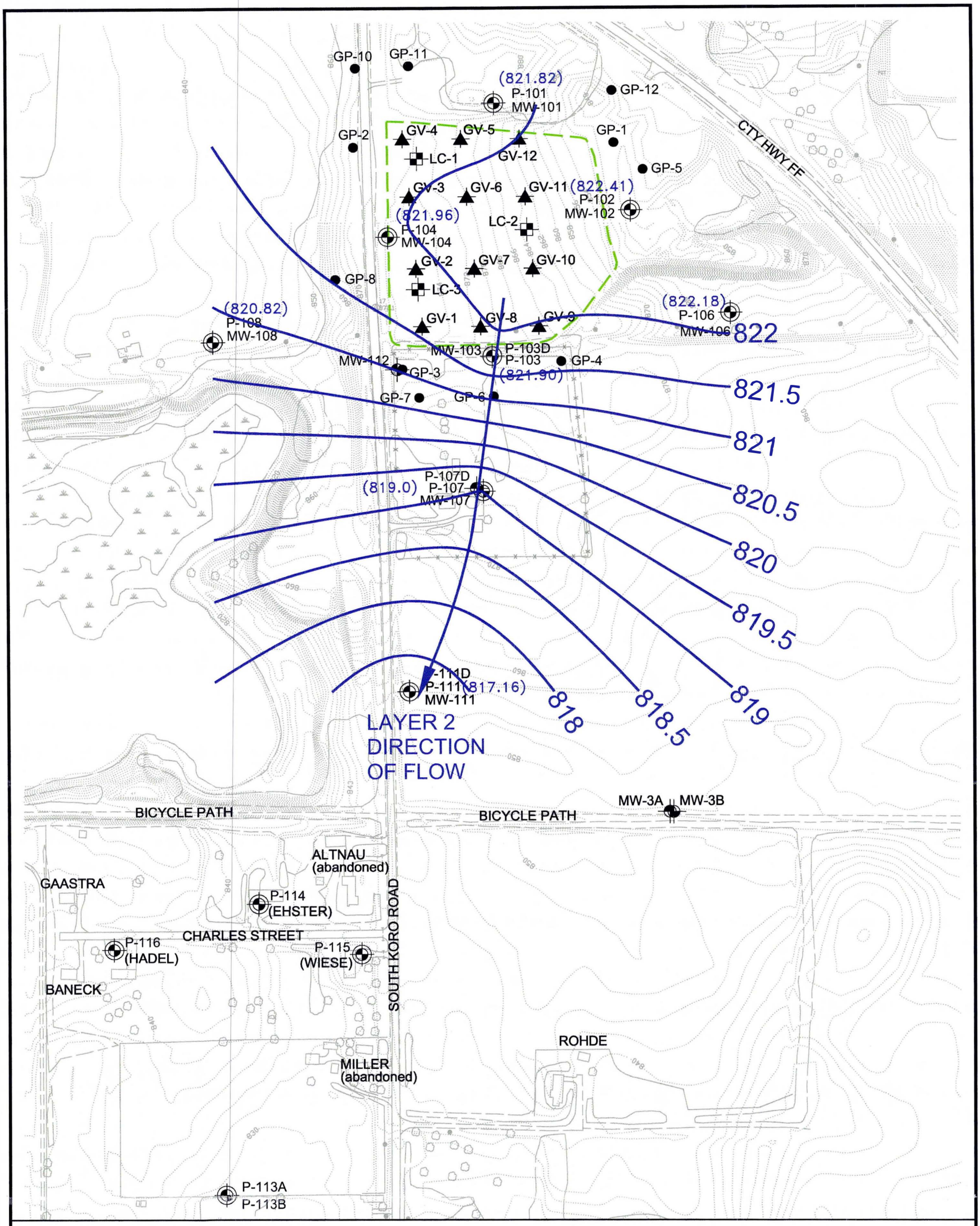
GROUNDWATER ELEVATIONS
LAYER 1 WELLS
OCTOBER 2012

DATE:	11/6/12
DESIGNED:	HJW
CHECKED:	MRN
APPROVED:	MRN
DRAWN:	HJW
PROJ.:	117-2202040

TETRA TECH

Figure 1

S:\CAD\RIPON\2202.040\10-23-12\2202040FIG1APORTRAIT.DWG



EXPLANATION

- P-104 / MW-104 — MONITOR WELL, PIEZOMETER LOCATION, DESIGNATION
- LC-2 — LEACHATE HEAD WELL LOCATION, DESIGNATION
- OUTLINE OF CLOSED LANDFILL
- GP-1 — GAS PROBE LOCATION AND DESIGNATION
- GV-1 — GAS VENT LOCATION AND DESIGNATION
- (822.37) — GROUNDWATER ELEVATION

N

SCALE

0 500

Feet

BASEMAP FROM FOND DU LAC COUNTY PLANNING DIVISION, SPRING 2000.

FF/NN LANDFILL RIPON, WISCONSIN	DATE: 11/6/12
	DESIGNED: HJW
GROUNDWATER ELEVATIONS LAYER 2 WELLS OCTOBER 2012	CHECKED: MRN
	APPROVED: MRN
	DRAWN: HJW
	PROJ.: 117-2202040
TETRA TECH	Figure 2

S:\CAD\RIPON\2202.040\10-23-12\2202040FIG2APORTRAIT.DWG

GP-10
GP-11
P-101
MW-101
GP-12
GP-2
GV-4
GV-5
GV-12
LC-1
GP-1
CTY HWY FF
GP-5
GV-3
GV-6
GV-11
P-102
MW-102
LC-2
P-104
MW-104
GV-2
GV-7
GV-10
GP-8
LC-3
GV-1
GV-8
GV-9
P-106
MW-106
P-108
MW-108
823
P-103D (821.09)
P-103
MW-103
MW-112
GP-3
GP-4
GP-7
GP-6
820.5
P-107D
P-107
MW-107
820
P-111D (819.01)
P-111
MW-111
819.5
MW-3A
MW-3B
(819.28)
BICYCLE PATH
BICYCLE PATH
ALTNAU
(abandoned)
GAASTRA
(818.03)
P-114
(EHSTER)
819
(817.12)
P-116
(HADEL)
CHARLES STREET
(818.11)
P-115
(WIESE)
SOUTH KORO ROAD
BANECK
LAYER 3
DIRECTION
OF FLOW
ROHDE
MILLER
(abandoned)
817.5
818
818.5
P-113A
P-113B (817.96)

EXPLANATION

- P-104 / MW-104 — MONITOR WELL, PIEZOMETER LOCATION, DESIGNATION
- LC-2 — LEACHATE HEAD WELL LOCATION, DESIGNATION
- OUTLINE OF CLOSED LANDFILL
- GP-1 — GAS PROBE LOCATION AND DESIGNATION
- GV-1 — GAS VENT LOCATION AND DESIGNATION
- (821.64) — GROUNDWATER ELEVATION

N

SCALE

0 500

Feet

BASEMAP FROM FOND DU LAC COUNTY PLANNING DIVISION, SPRING 2000.

FF/NN LANDFILL RIPON, WISCONSIN	DATE: 10/23/12
	DESIGNED: HJW
GROUNDWATER ELEVATIONS LAYER 3 WELLS OCTOBER 2012	CHECKED: MRN
	APPROVED: MRN
	DRAWN: HJW
	PROJ.: 117-2202040
TETRA TECH	Figure 3

S:\CAD\RIPON\2202.040\10-23-12\2202040FIG3PORTRAIT.DWG

GP-10
GP-11
P-101
MW-101
GP-12
GP-2
GV-4
GV-5
GV-12
GP-1
LC-1
GP-5
GV-3
GV-6
GV-11
P-102
MW-102
LC-2
P-104
MW-104
GV-2
GV-7
GV-10
GP-8
LC-3
GV-1
GV-8
GV-9
P-108
MW-108
P-106
MW-106
MW-112
P-103D
P-103
MW-103
GP-4
GP-3
GP-7
GP-6
(817.78)
P-107D
P-107
MW-107
817.75
817.7
P-111D
P-111
MW-111
817.65
817.6
MW-3A
MW-3B
BICYCLE PATH
BICYCLE PATH
(817.6)
817.55
ALTNAU
(abandoned)
817.5
GAASTRA
P-114
(EHSTER)
SOUTH KOKO ROAD
CHARLES STREET
P-116
(HADEL)
P-115
(WIESE)
817.45
LAYER 4
DIRECTION
OF FLOW
BANECK
817.4
ROHDE
MILLER
(abandoned)
817.35
817.3
(817.23)
P-113A
P-113B

EXPLANATION

- P-104 / MW-104 — MONITOR WELL, PIEZOMETER LOCATION, DESIGNATION
- LC-2 — LEACHATE HEAD WELL LOCATION, DESIGNATION
- OUTLINE OF CLOSED LANDFILL
- GP-1 — GAS PROBE LOCATION AND DESIGNATION
- GV-1 — GAS VENT LOCATION AND DESIGNATION
- (818.74) — GROUNDWATER ELEVATION

N

SCALE

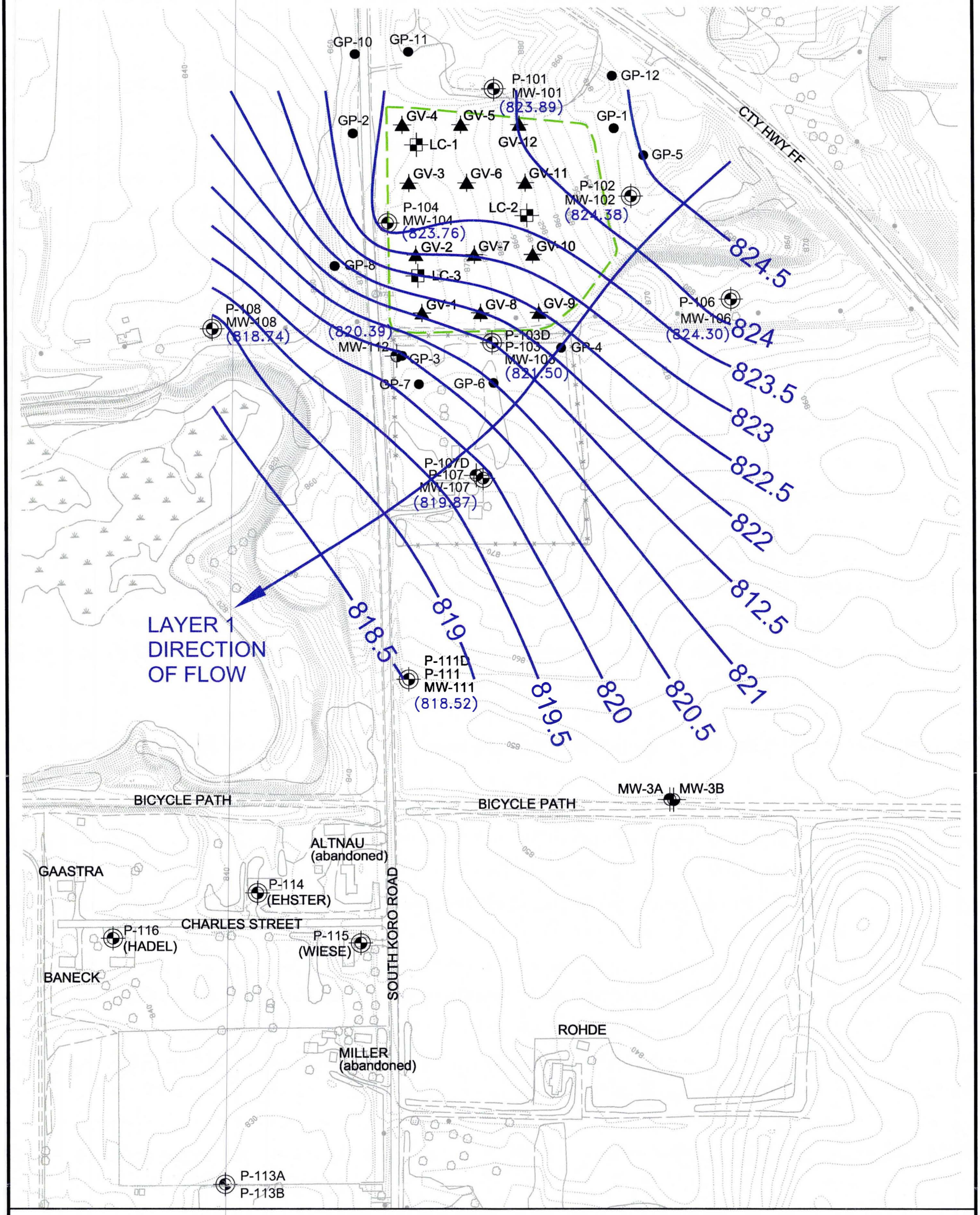
0 500

Feet

BASEMAP FROM FOND DU LAC COUNTY PLANNING DIVISION, SPRING 2000.

FF/NN LANDFILL RIPON, WISCONSIN	DATE: 10/23/12
	DESIGNED: HJW
GROUNDWATER ELEVATIONS LAYER 4 WELLS OCTOBER 2012	CHECKED: MRN
	APPROVED: MRN
	DRAWN: HJW
	PROJ.: 117-2202040
TETRA TECH	Figure 4

S:\CAD\RIPON\2202.040\10-23-12\2202040FIG4PORTRAIT.DWG



EXPLANATION

- P-104 / MW-104 — MONITOR WELL, PIEZOMETER LOCATION, DESIGNATION
- LC-2 — LEACHATE HEAD WELL LOCATION, DESIGNATION
- OUTLINE OF CLOSED LANDFILL
- GP-1 — GAS PROBE LOCATION AND DESIGNATION
- GV-1 — GAS VENT LOCATION AND DESIGNATION
- (823.89) — GROUNDWATER ELEVATION

N

SCALE

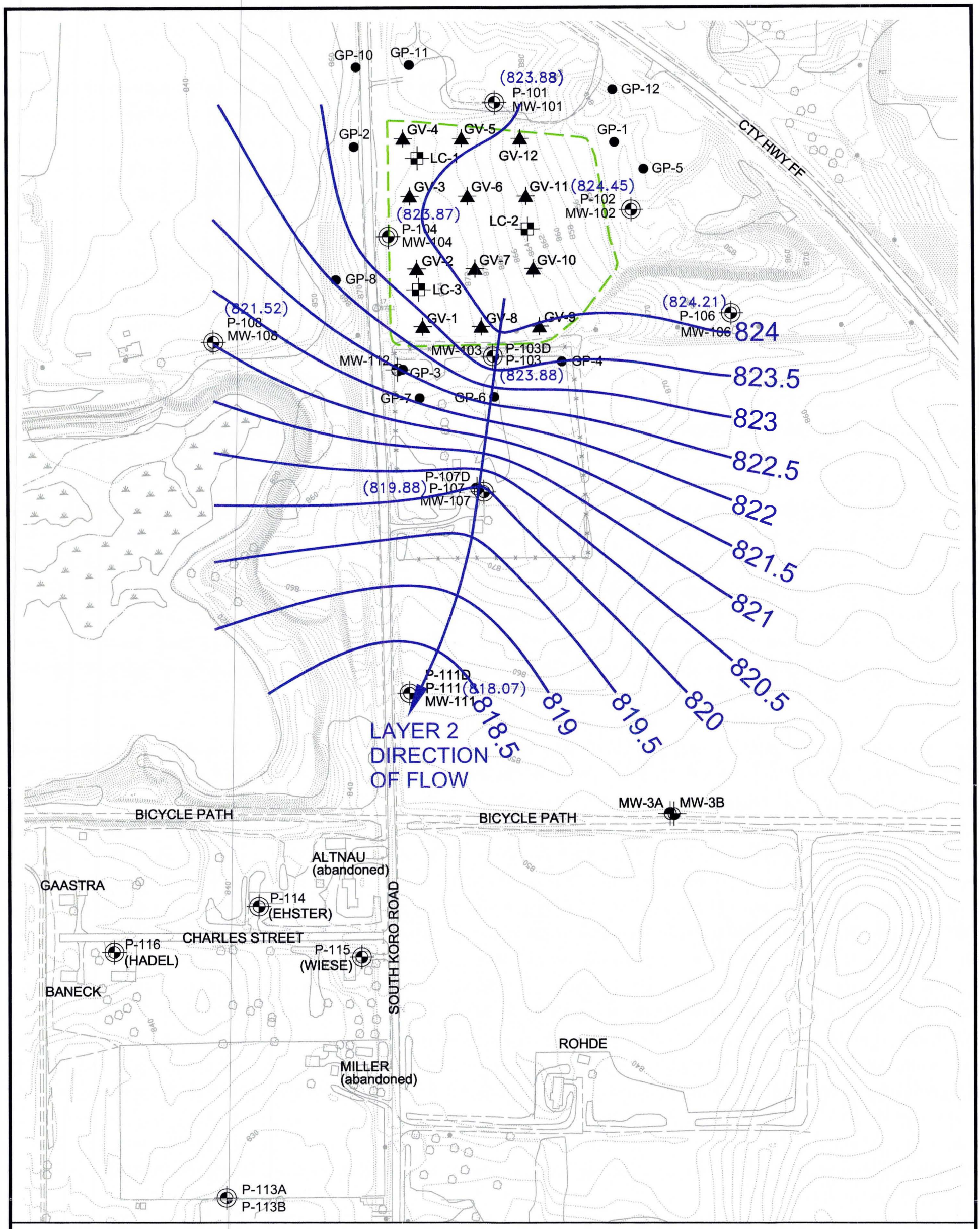
0 500

Feet

BASEMAP FROM FOND DU LAC COUNTY PLANNING DIVISION, SPRING 2000.

FF/NN LANDFILL RIPON, WISCONSIN	DATE: 6/10/13
	DESIGNED: HJW
	CHECKED: MRN
	APPROVED: MRN
	DRAWN: HJW
	PROJ.: 117-2202040
GROUNDWATER ELEVATIONS LAYER 1 WELLS APRIL 2013	
TETRA TECH	Figure 1

S:\CAD\RIPON\2202.040\6-10-13\2202040FIG1.DWG



EXPLANATION

- P-104 / MW-104 — MONITOR WELL, PIEZOMETER LOCATION, DESIGNATION
- LC-2 — LEACHATE HEAD WELL LOCATION, DESIGNATION
- OUTLINE OF CLOSED LANDFILL
- GP-1 — GAS PROBE LOCATION AND DESIGNATION
- GV-1 — GAS VENT LOCATION AND DESIGNATION
- (823.88) — GROUNDWATER ELEVATION

N

SCALE

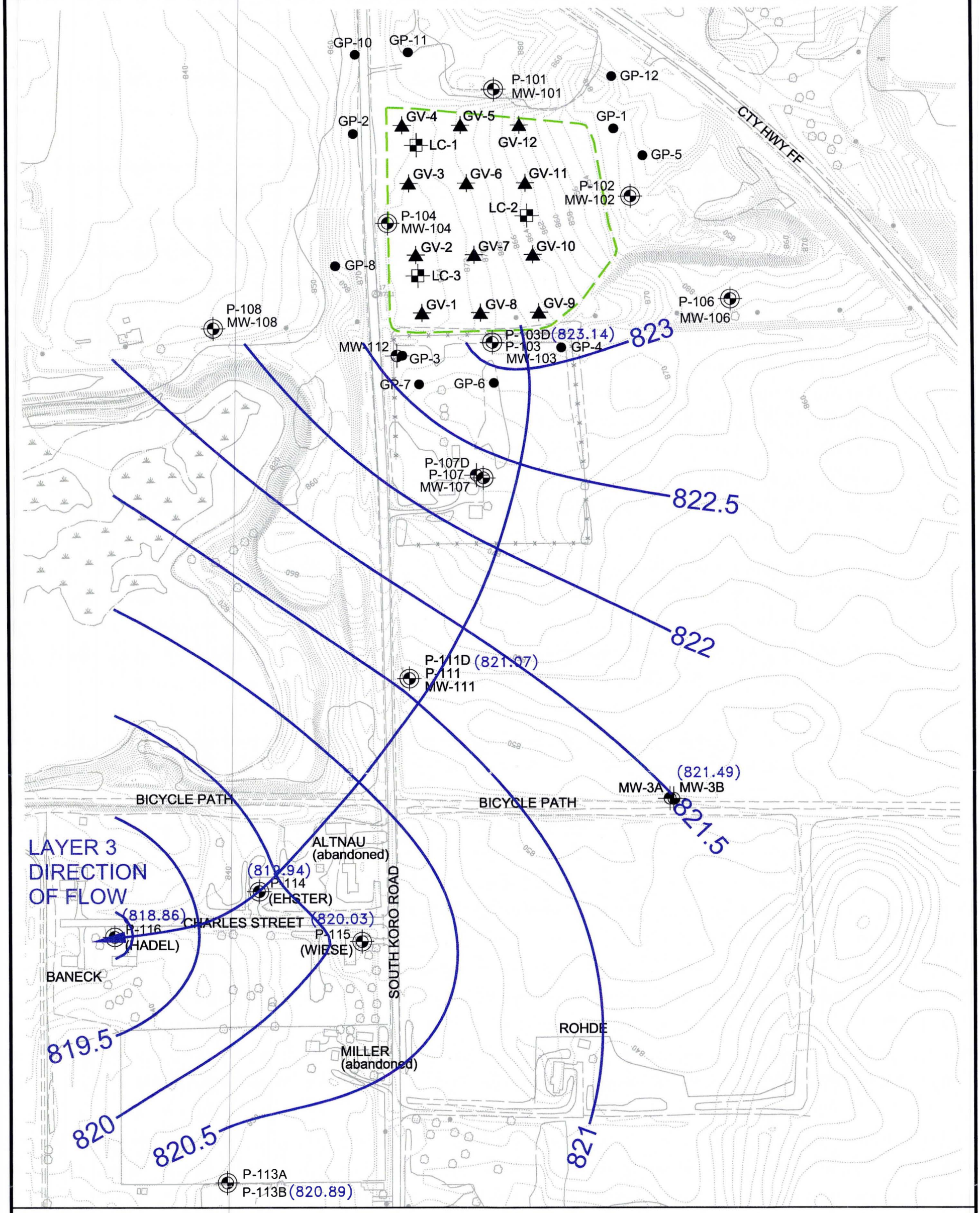
0 500

Feet

BASEMAP FROM FOND DU LAC COUNTY PLANNING DIVISION, SPRING 2000.

FF/NN LANDFILL RIPON, WISCONSIN	DATE: 6/10/13
	DESIGNED: HJW
GROUNDWATER ELEVATIONS LAYER 2 WELLS APRIL 2013	CHECKED: MRN
	APPROVED: MRN
	DRAWN: HJW
	PROJ.: 117-2202040
TETRA TECH	Figure 2

S:\CAD\RIPON\2202.040\6-10-13\2202040FIG2.DWG



EXPLANATION

P-104 / MW-104	MONITOR WELL, PIEZOMETER LOCATION, DESIGNATION
LC-2	LEACHATE HEAD WELL LOCATION, DESIGNATION
	OUTLINE OF CLOSED LANDFILL
GP-1	GAS PROBE LOCATION AND DESIGNATION
GV-1	GAS VENT LOCATION AND DESIGNATION
(823.14)	GROUNDWATER ELEVATION

N

SCALE

0 500

Feet

BASEMAP FROM FOND DU LAC COUNTY PLANNING DIVISION, SPRING 2000.

FF/NN LANDFILL RIPON, WISCONSIN	DATE: 6/10/13
	DESIGNED: HJW
GROUNDWATER ELEVATIONS LAYER 3 WELLS APRIL 2013	CHECKED: MRN
	APPROVED: MRN
	DRAWN: HJW
	PROJ.: 117-2202040
TETRA TECH	Figure 3

S:\CAD\RIPON\2202.040\6-10-13\2202040FIG3.DWG

GP-10
GP-11
P-101
MW-101
GP-12
GP-2
GV-4
GV-5
GV-12
GP-1
LC-1
CTY HWY FF
GP-5
GV-3
GV-6
GV-11
P-102
MW-102
LC-2
P-104
MW-104
GV-2
GV-7
GV-10
GP-8
LC-3
GV-1
GV-8
GV-9
P-106
MW-106
P-108
MW-108
P-103D
P-103
MW-103
MW-112
GP-3
GP-4
GP-7
GP-6
(820.41)
P-107D
P-107
MW-107
823
822.75
822.5
822.25
822
821.75
P-111D
P-111
MW-111
MW-3A
MW-3B
(820.07)
BICYCLE PATH
BICYCLE PATH
ALTNAU
(abandoned)
GAASTRA
P-114
(EHSTER)
CHARLES STREET
P-116
(HADEL)
P-115
(WIESE)
SOUTH KORO ROAD
BANECK
LAYER 4
DIRECTION
OF FLOW
ROHDE
821.5
MILLER
(abandoned)
821.25
(819.83)
P-113A
P-113B

EXPLANATION

- P-104 / MW-104 — MONITOR WELL, PIEZOMETER LOCATION, DESIGNATION
- LC-2 — LEACHATE HEAD WELL LOCATION, DESIGNATION
- OUTLINE OF CLOSED LANDFILL
- GP-1 — GAS PROBE LOCATION AND DESIGNATION
- GV-1 — GAS VENT LOCATION AND DESIGNATION
- (820.41) — GROUNDWATER ELEVATION

N

SCALE

0 500

Feet

BASEMAP FROM FOND DU LAC COUNTY PLANNING DIVISION, SPRING 2000.

FF/NN LANDFILL
RIPON, WISCONSIN

GROUNDWATER ELEVATIONS
LAYER 4 WELLS
APRIL 2013

DATE:	6/10/13
DESIGNED:	HJW
CHECKED:	MRN
APPROVED:	MRN
DRAWN:	HJW
PROJ.:	117-2202040

TETRA TECH

Figure 4

S:\CAD\RIPON\2202.040\6-10-13\2202040FIG4.DWG

CHARTS

Chart 1: Layer 1 Historic Water Level Data

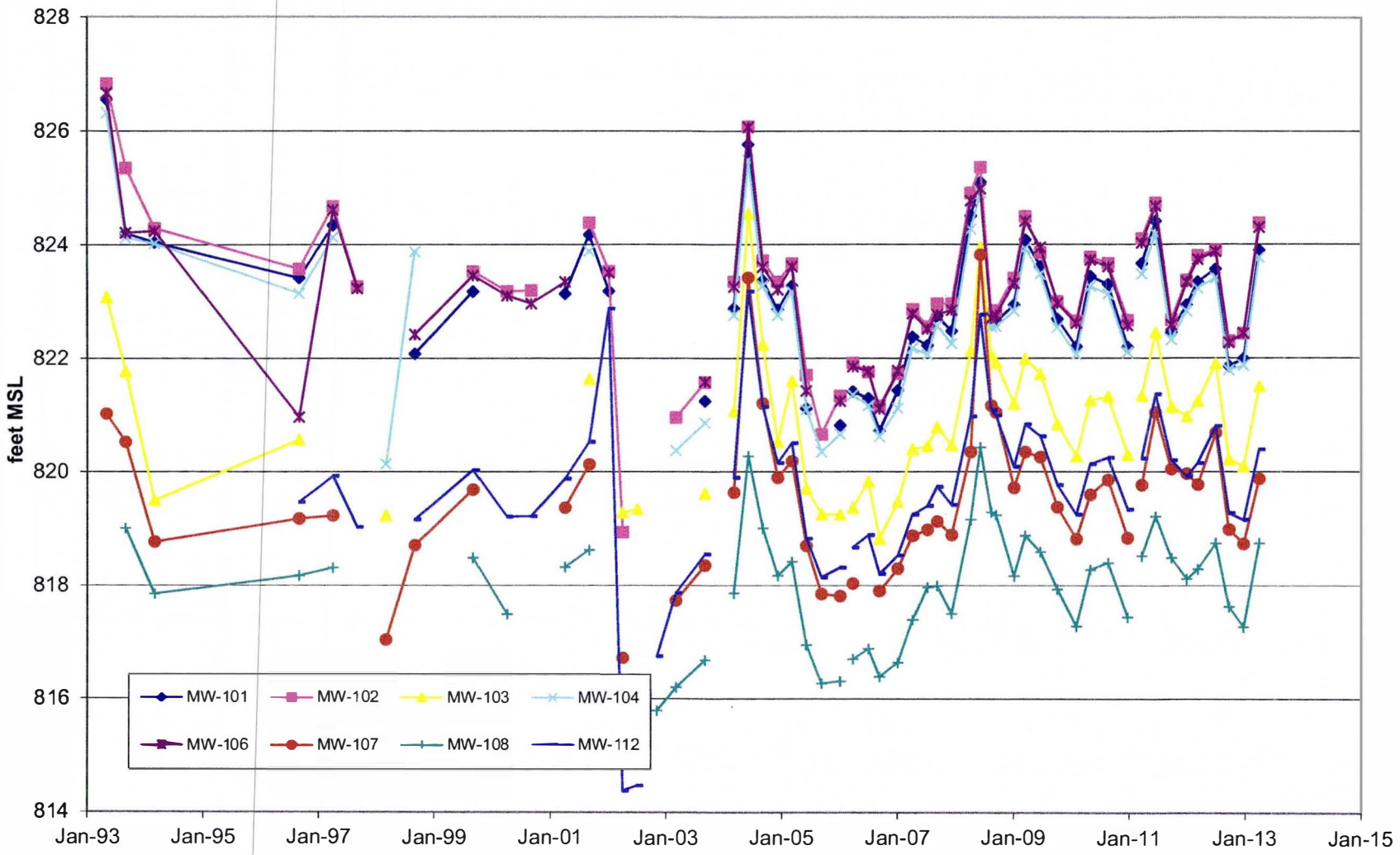


Chart 2: Layer 2 Historic Water Level Data

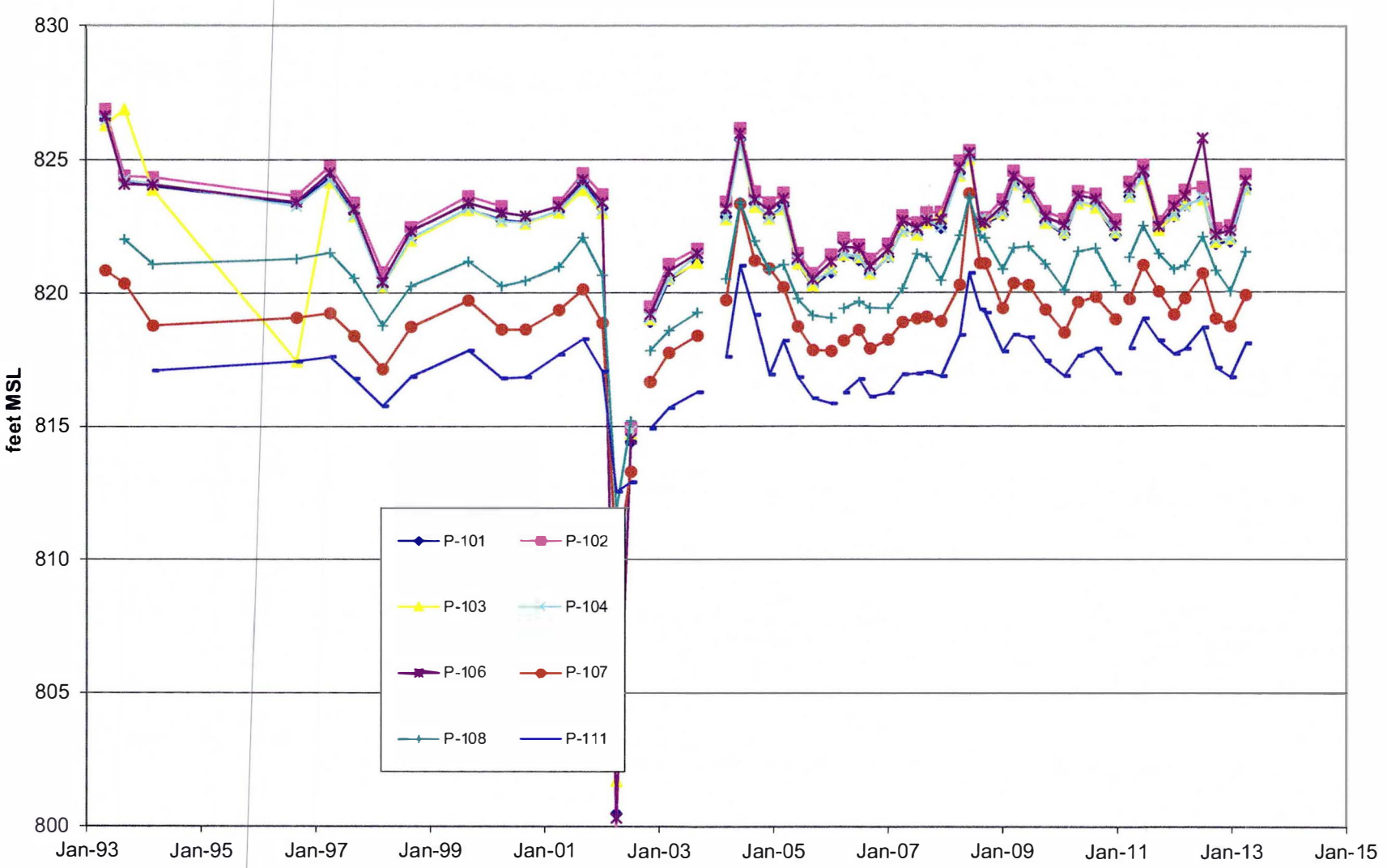


Chart 3: Layer 3 Historic Water Level Data

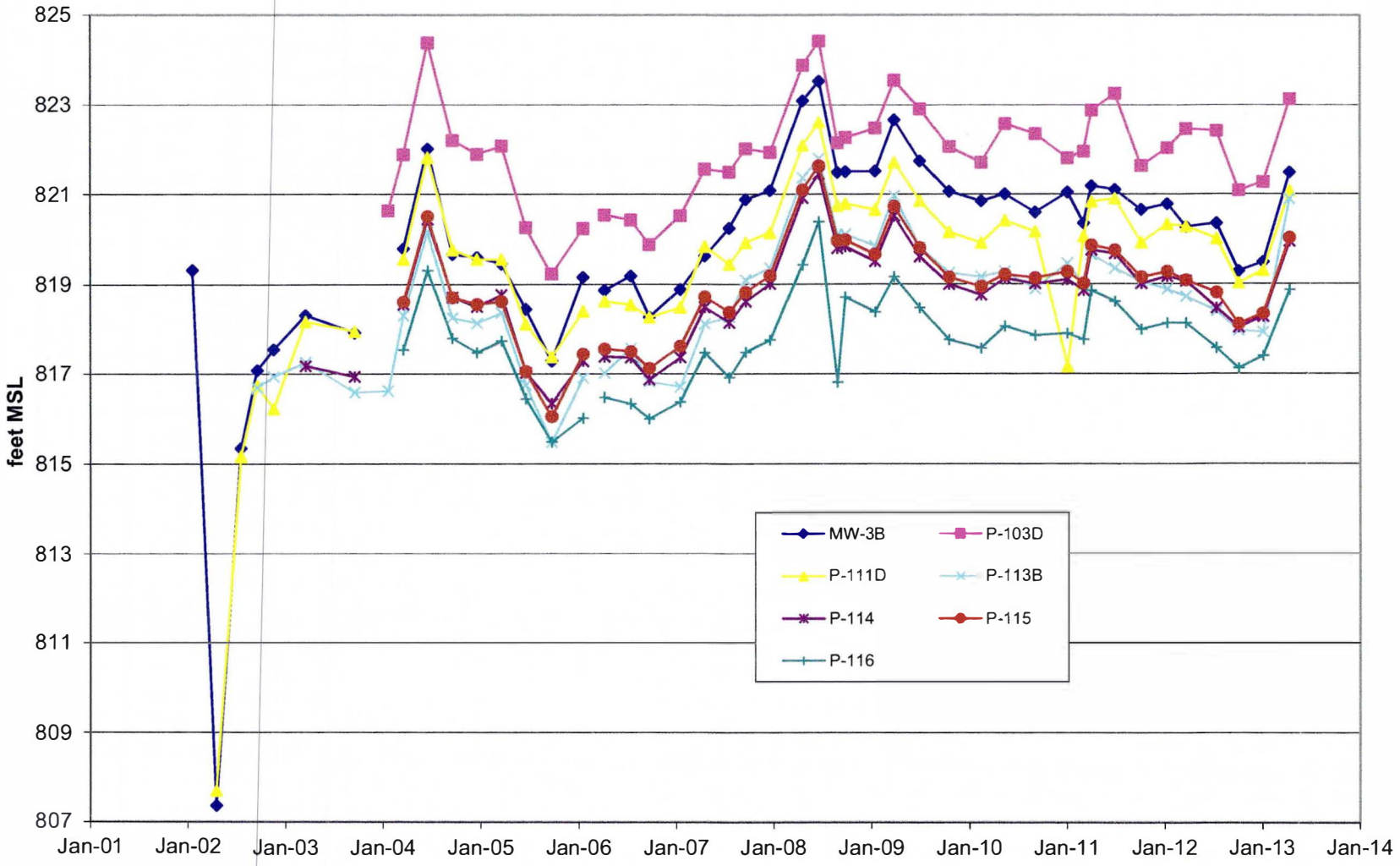


Chart 4: Layer 4 Historic Water Level Data

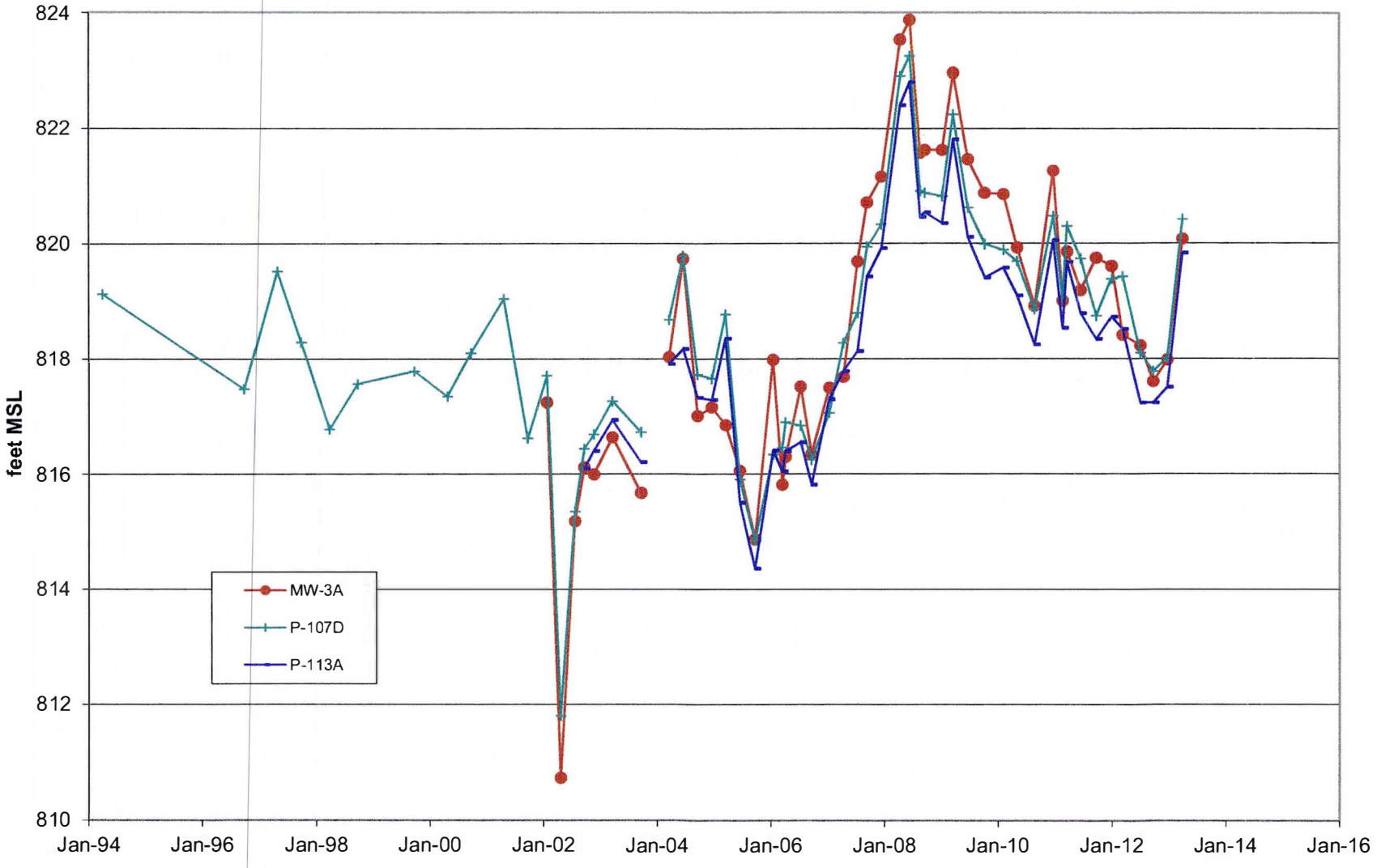


Chart 7: GV-6 Gas Concentrations

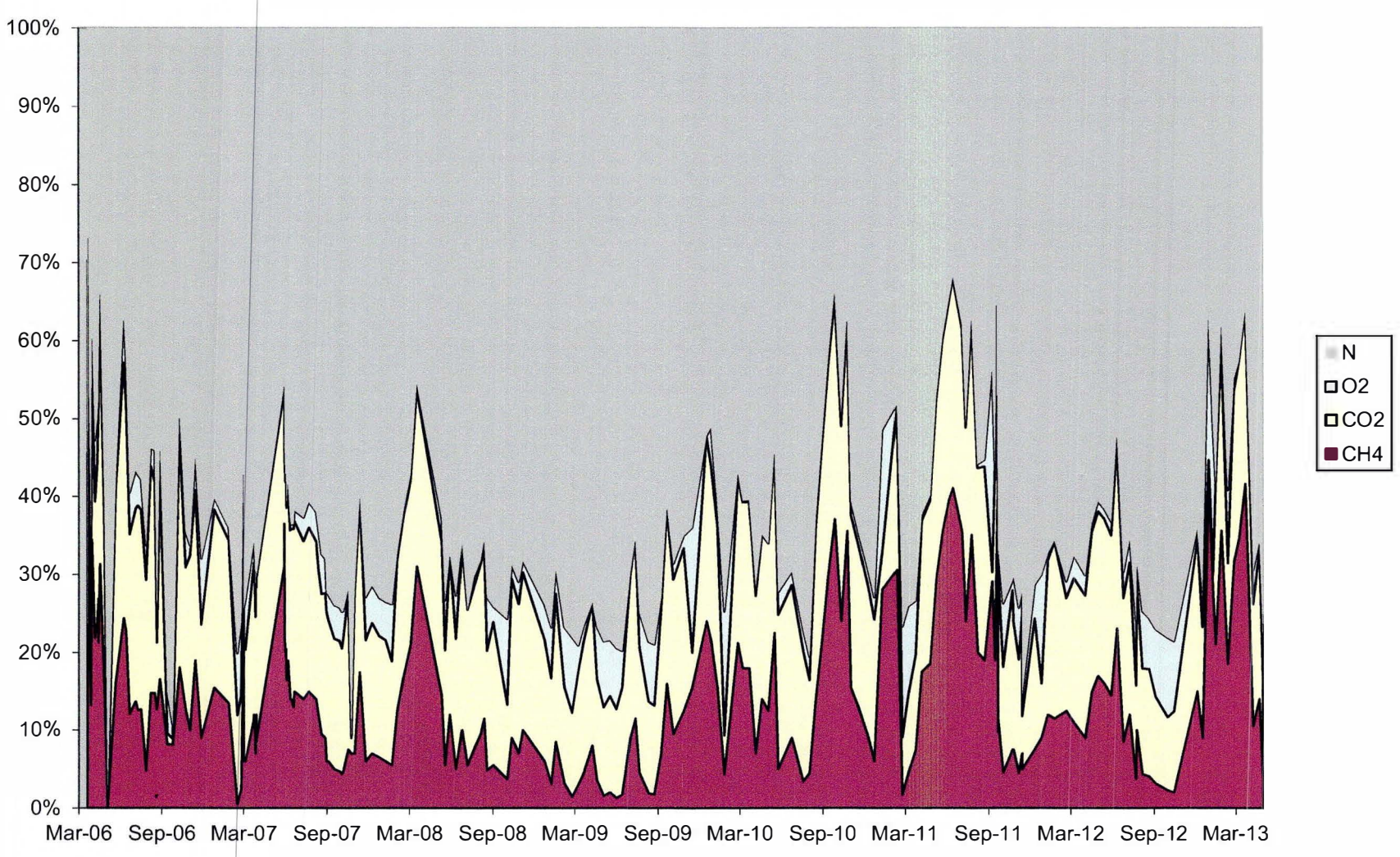


Chart 11: LC-1 Gas Concentrations

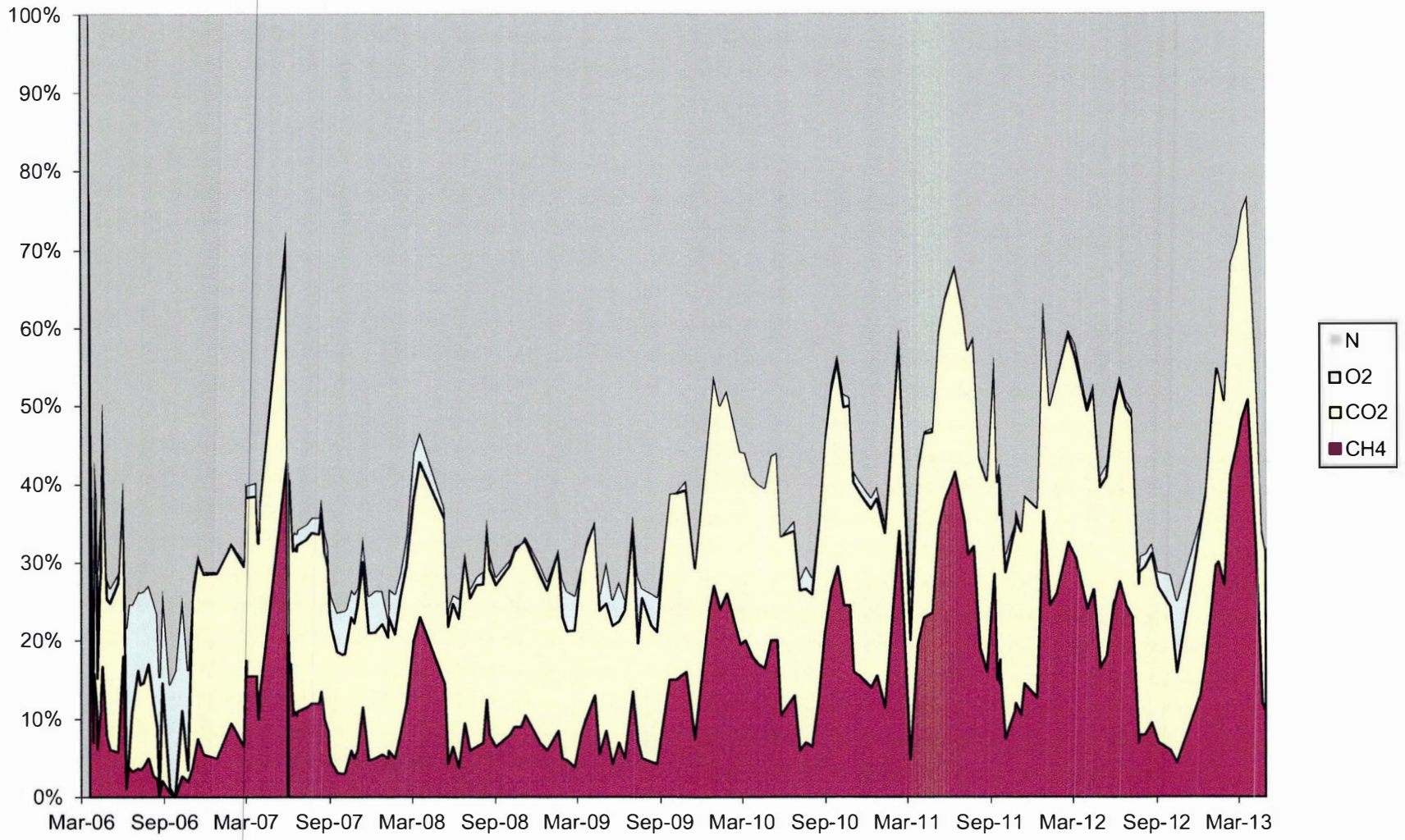


Chart 12: LC-2 Gas Concentrations

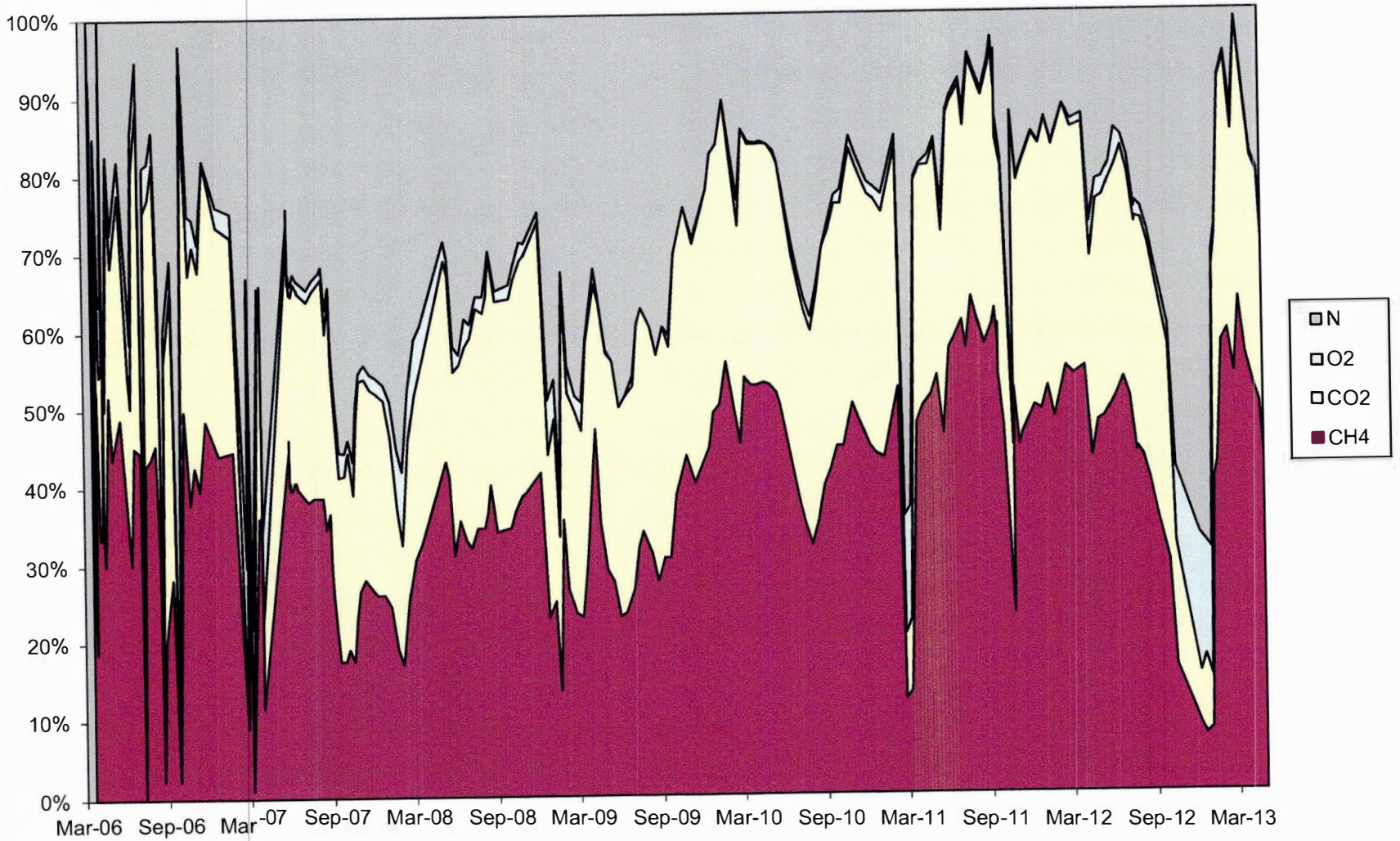


Chart 13: LC-3 Gas Concentrations

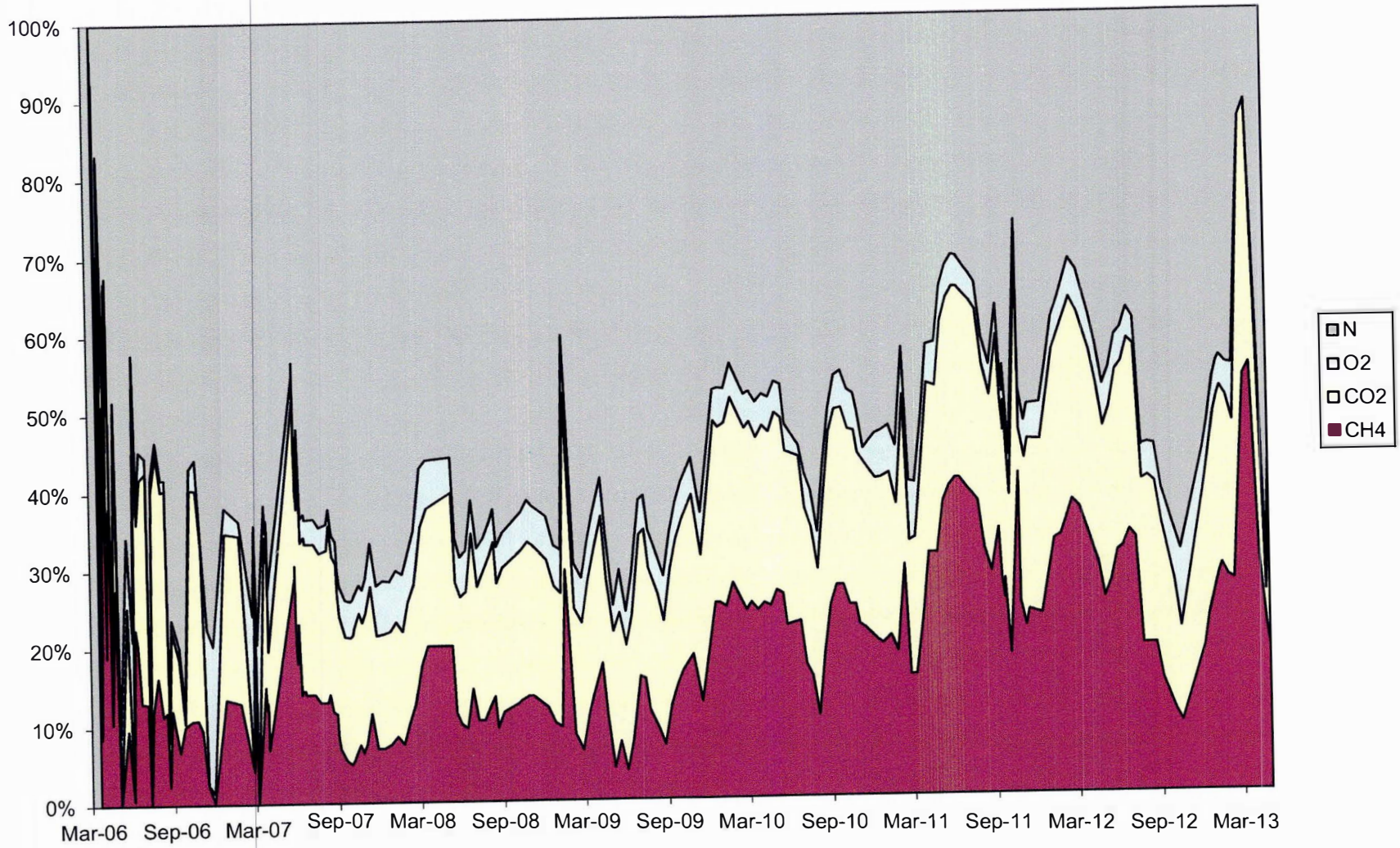


Chart 14: System Exhaust

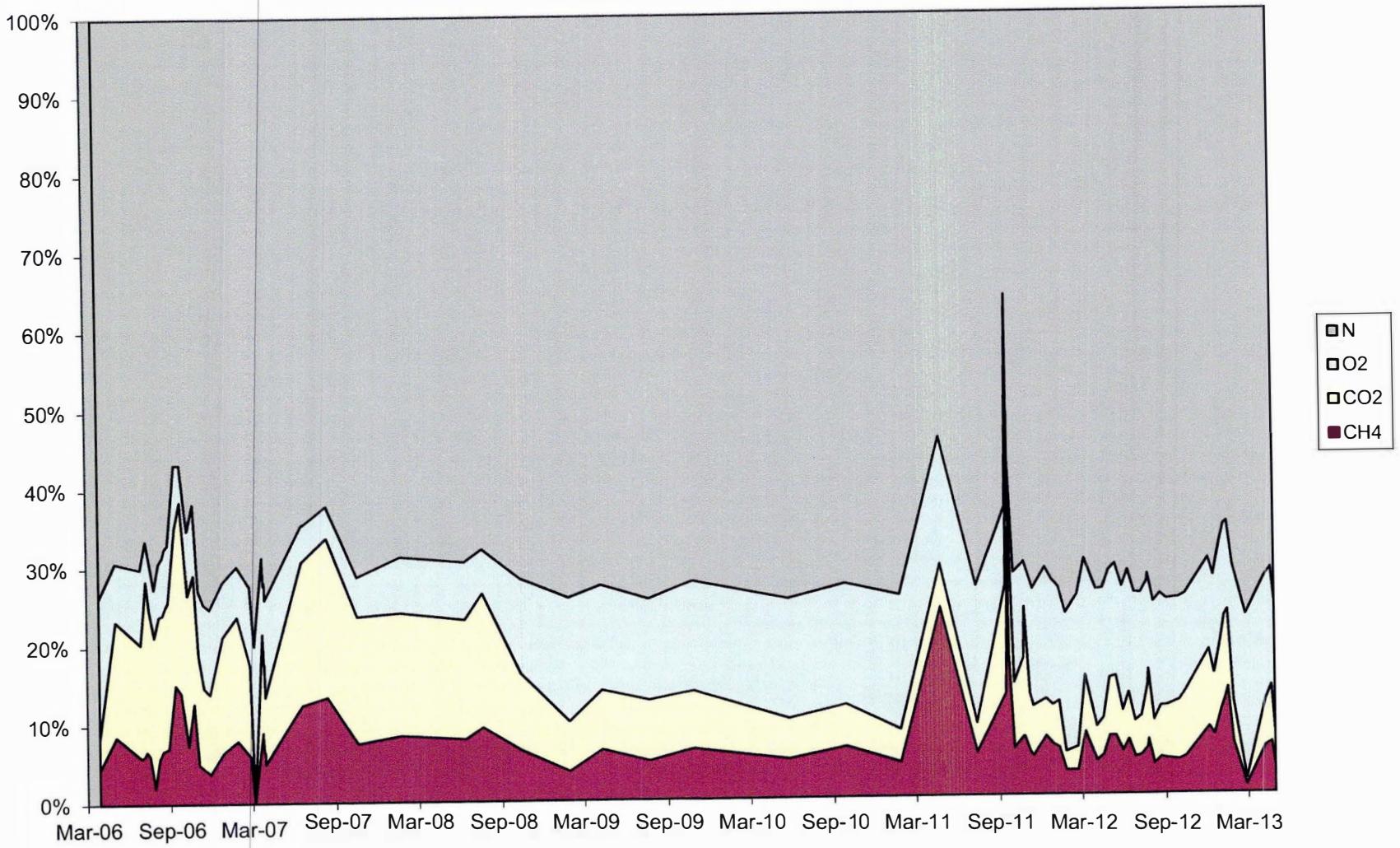


Chart 15: GP-1 Gas Concentrations

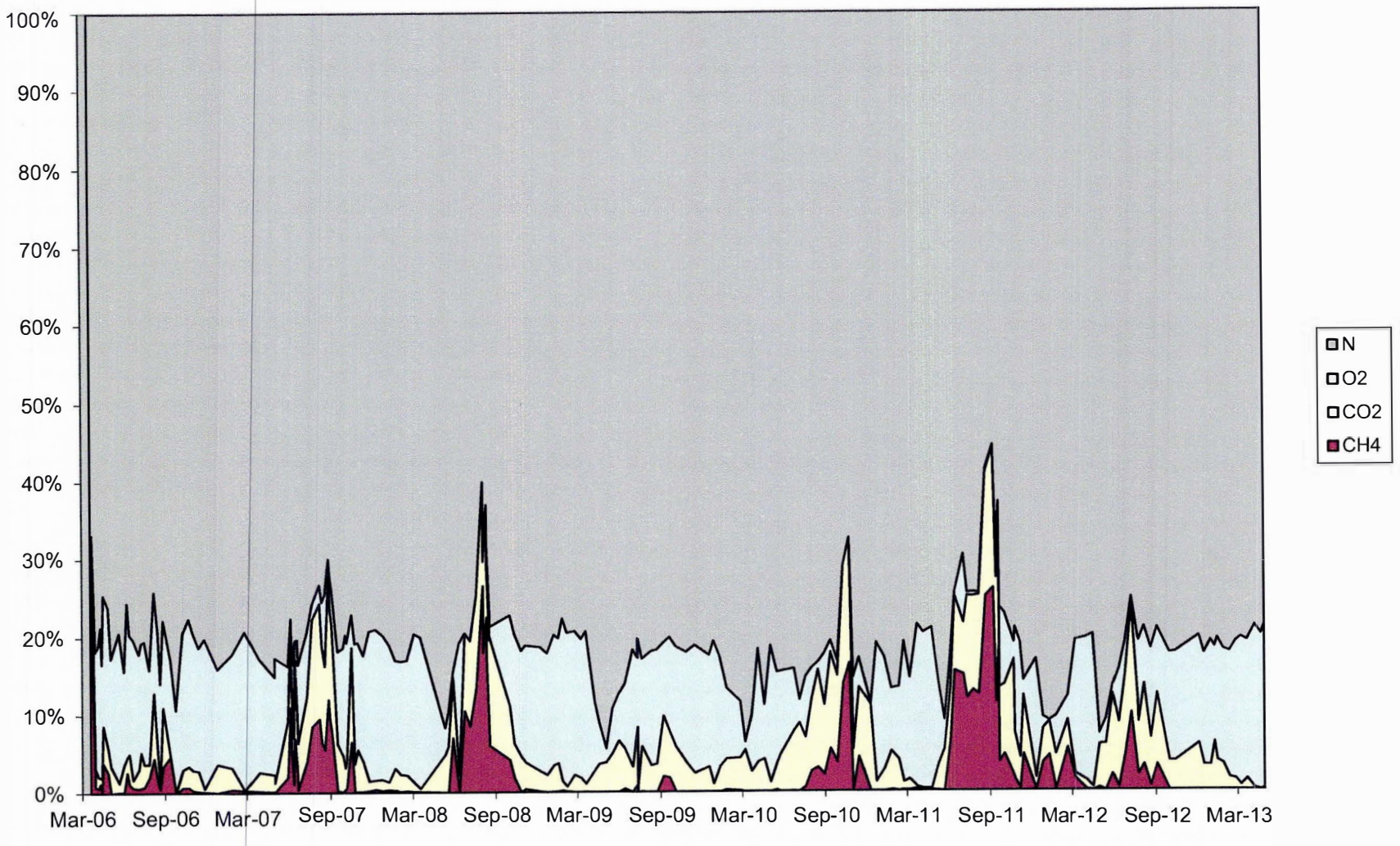


Chart 16: GP-2 Gas Concentrations

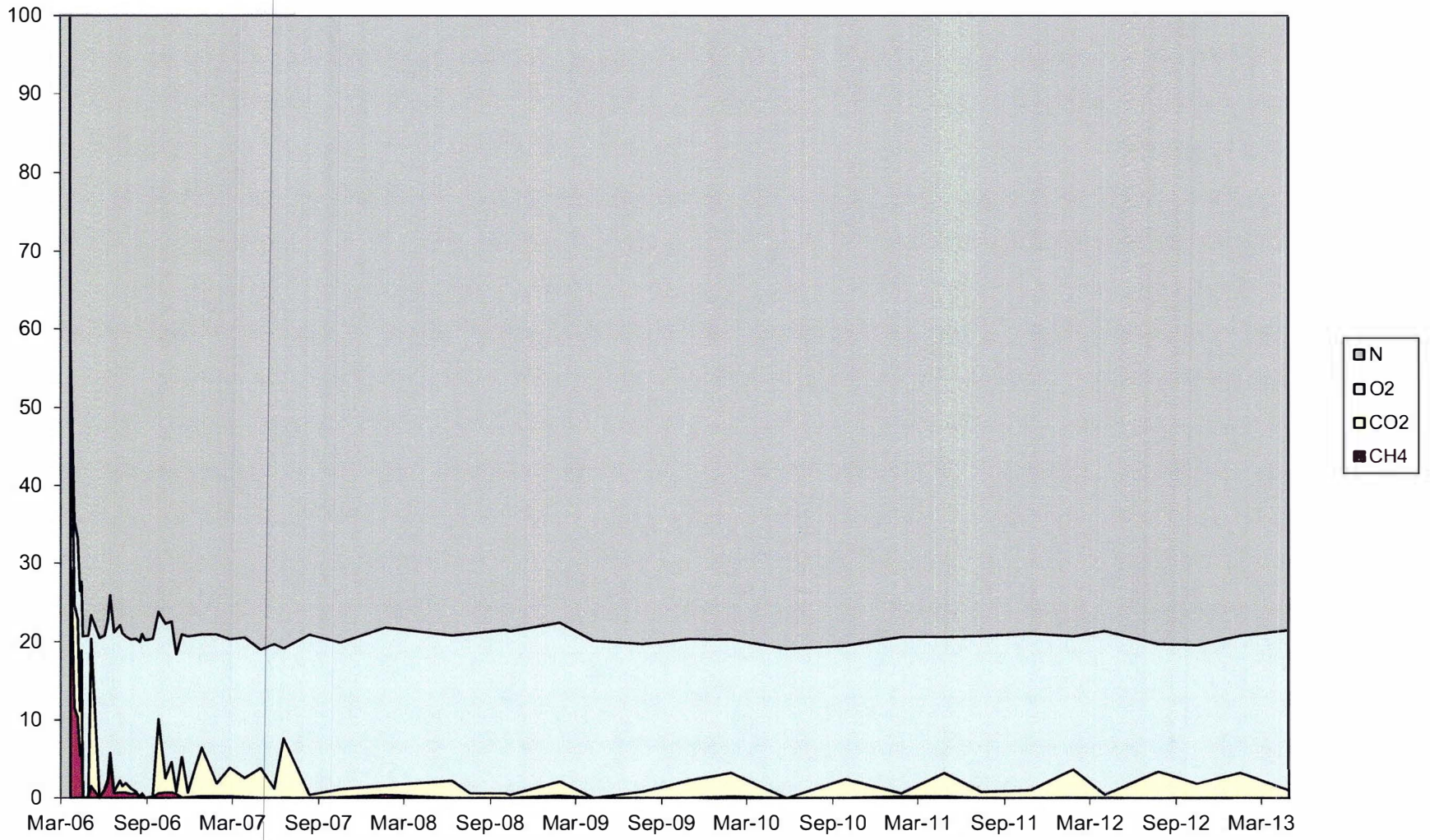


Chart 17: GP-3 Gas Concentrations

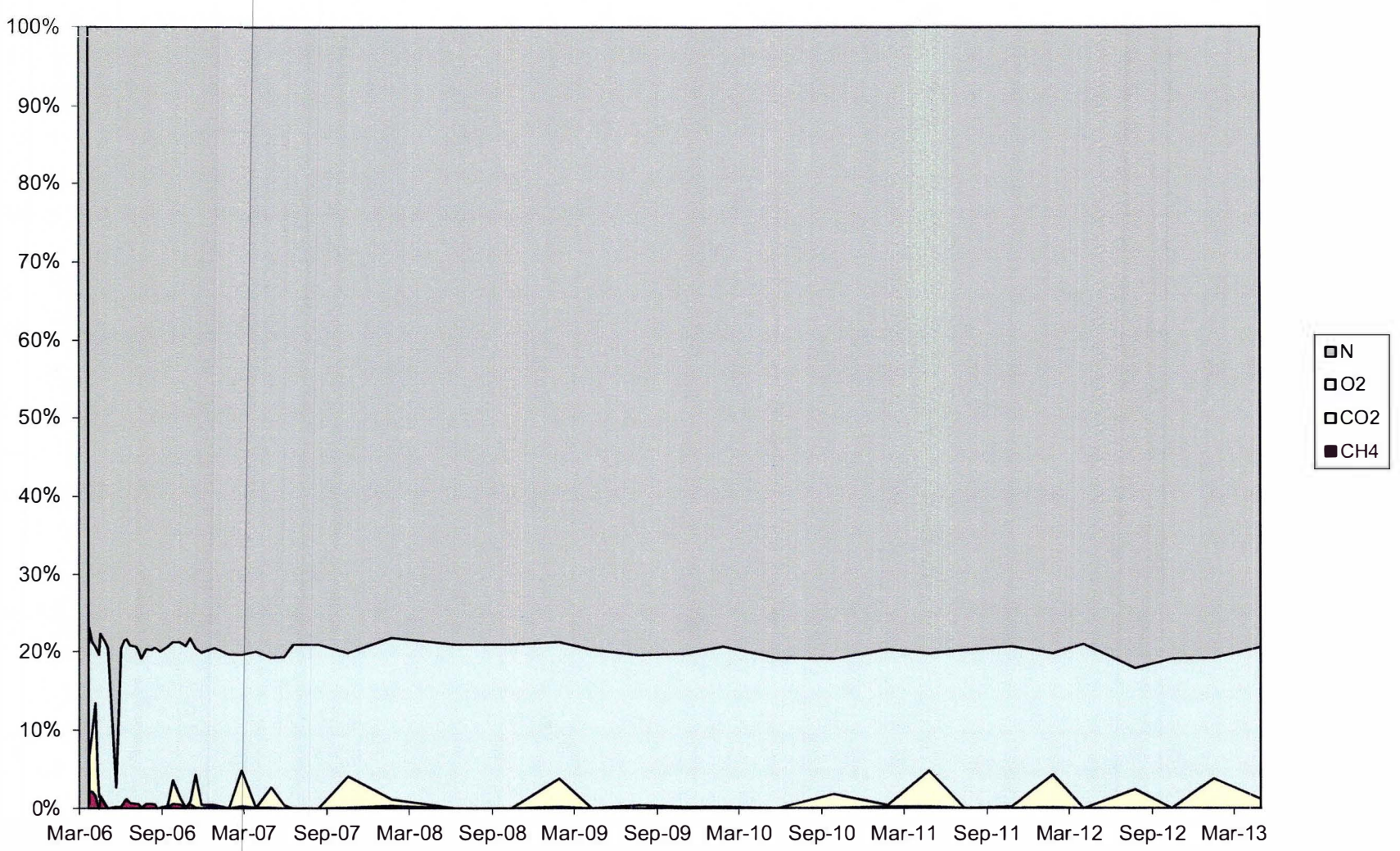


Chart 18: GP-4 Gas Concentrations

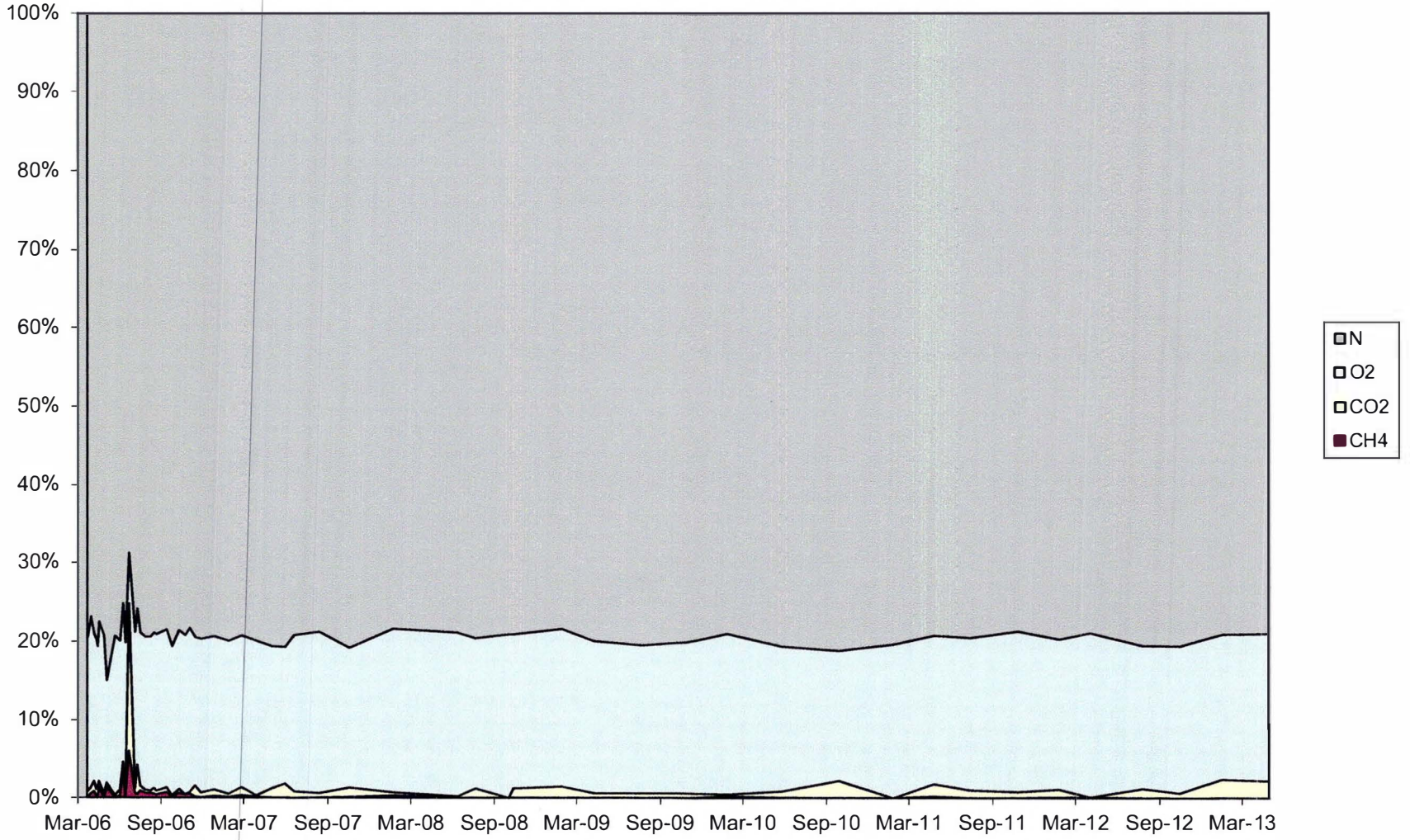


Chart 19: GP-5 Gas Concentrations

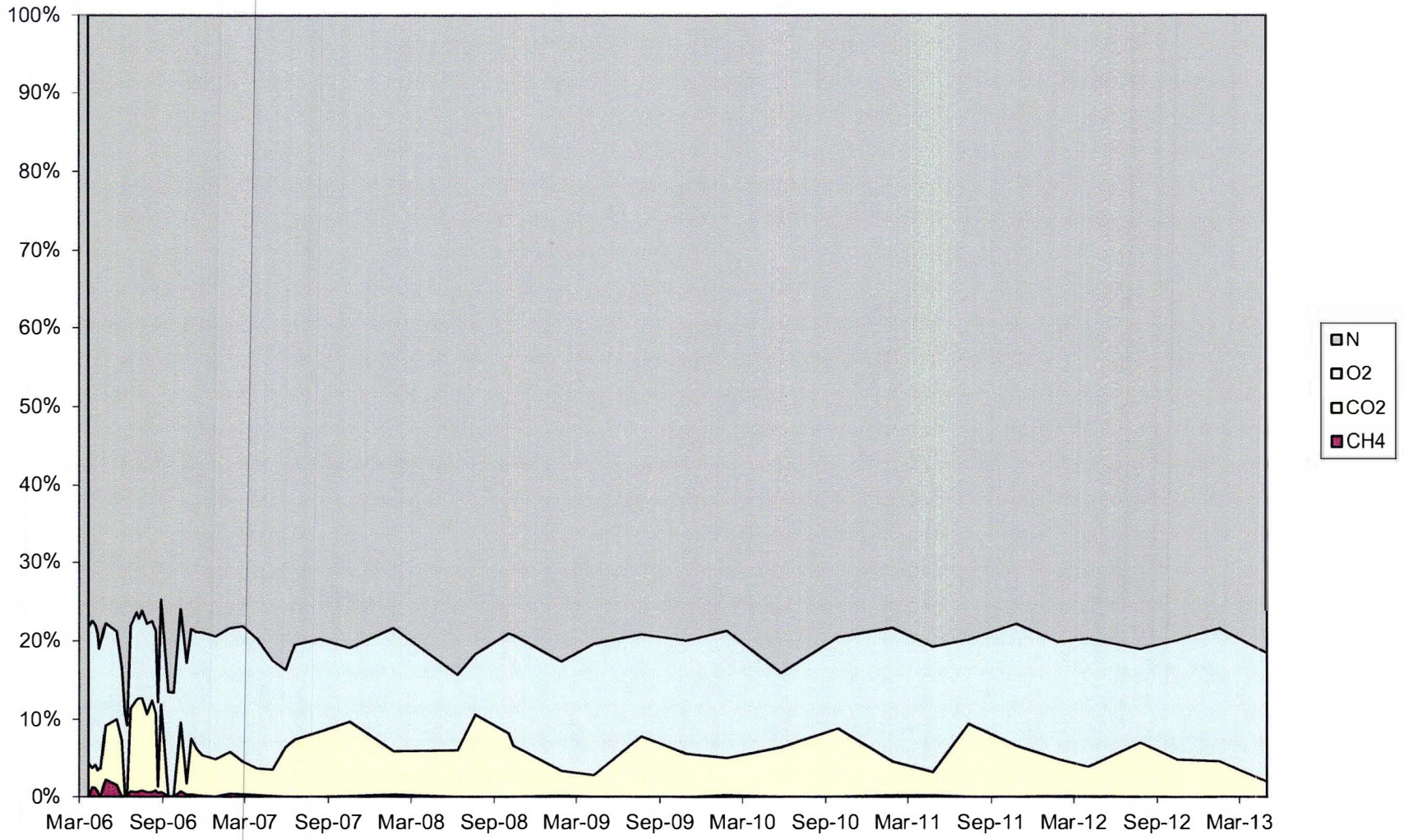


Chart 20: GP-6 Gas Concentrations

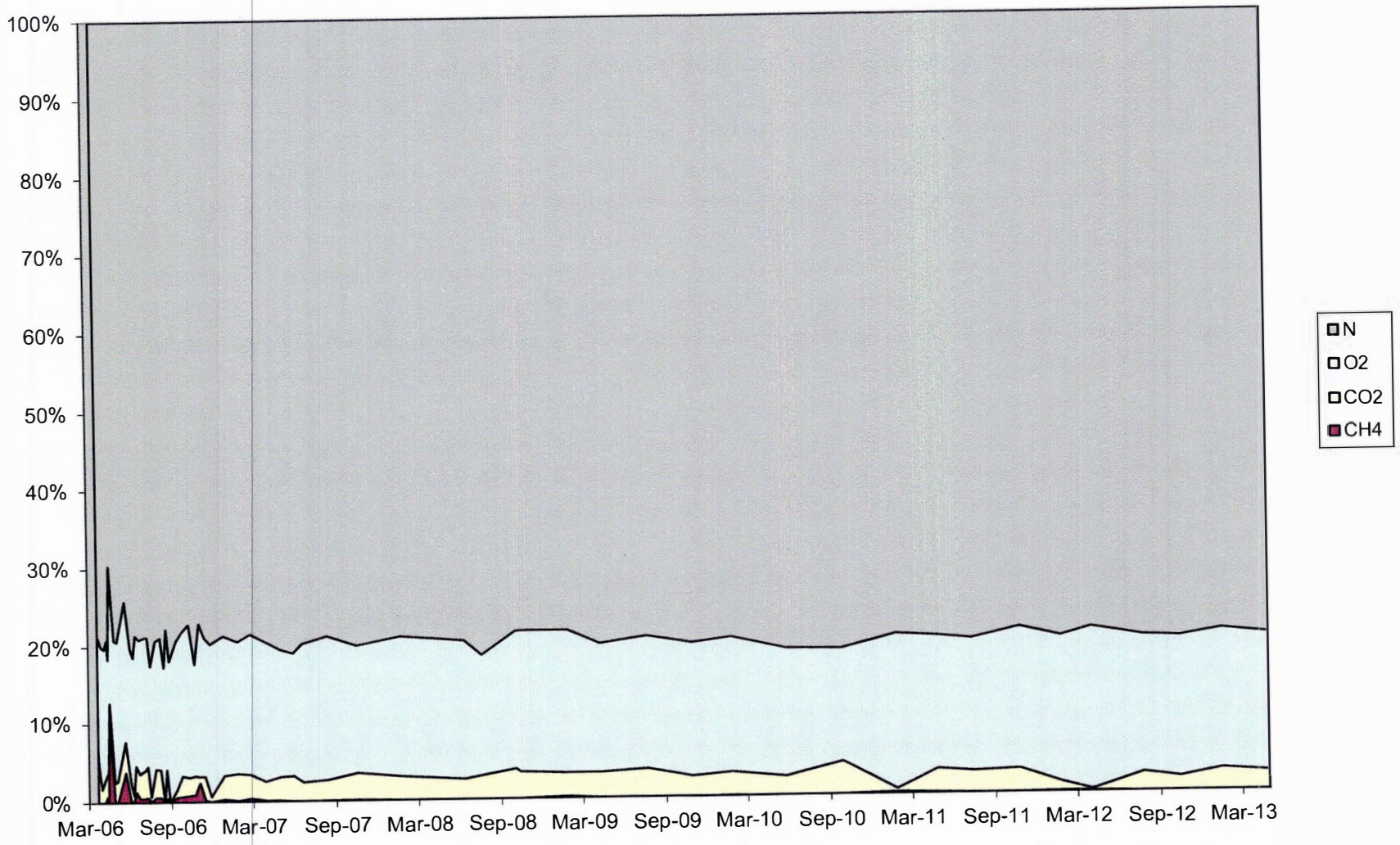


Chart 21: GP-7 Gas Concentrations

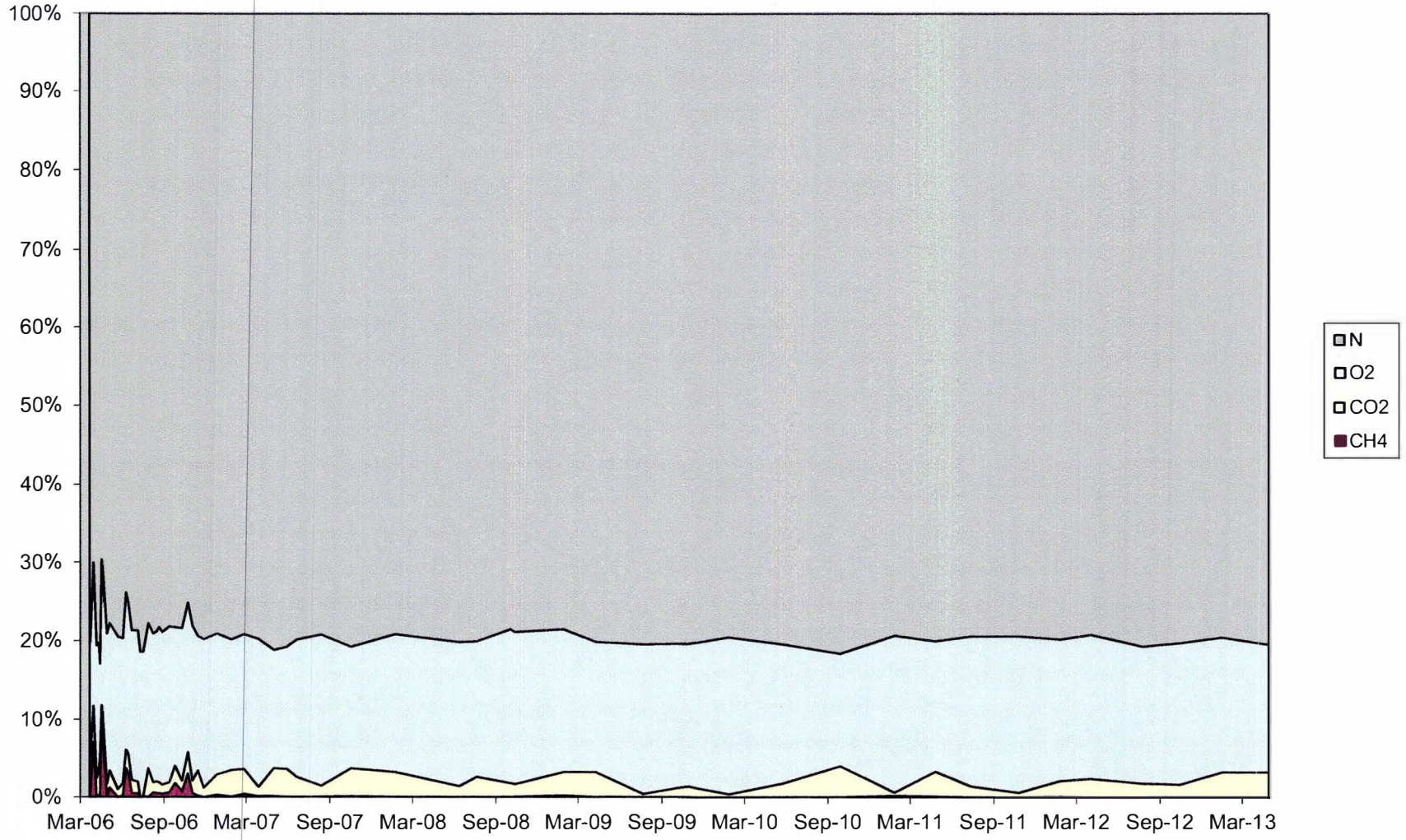


Chart 22: GP-8 Gas Concentrations

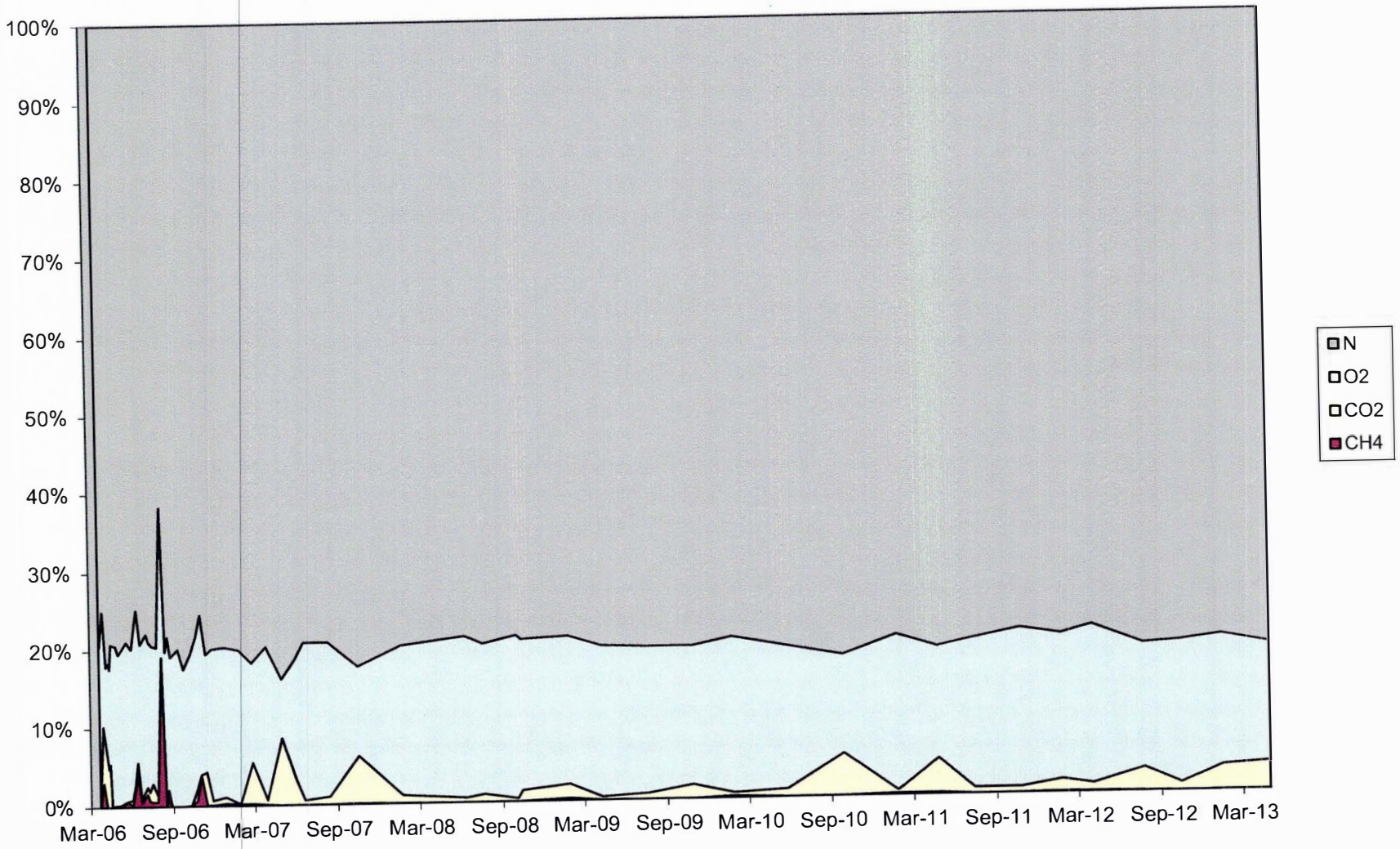


Chart 23: GP-10 Gas Concentrations

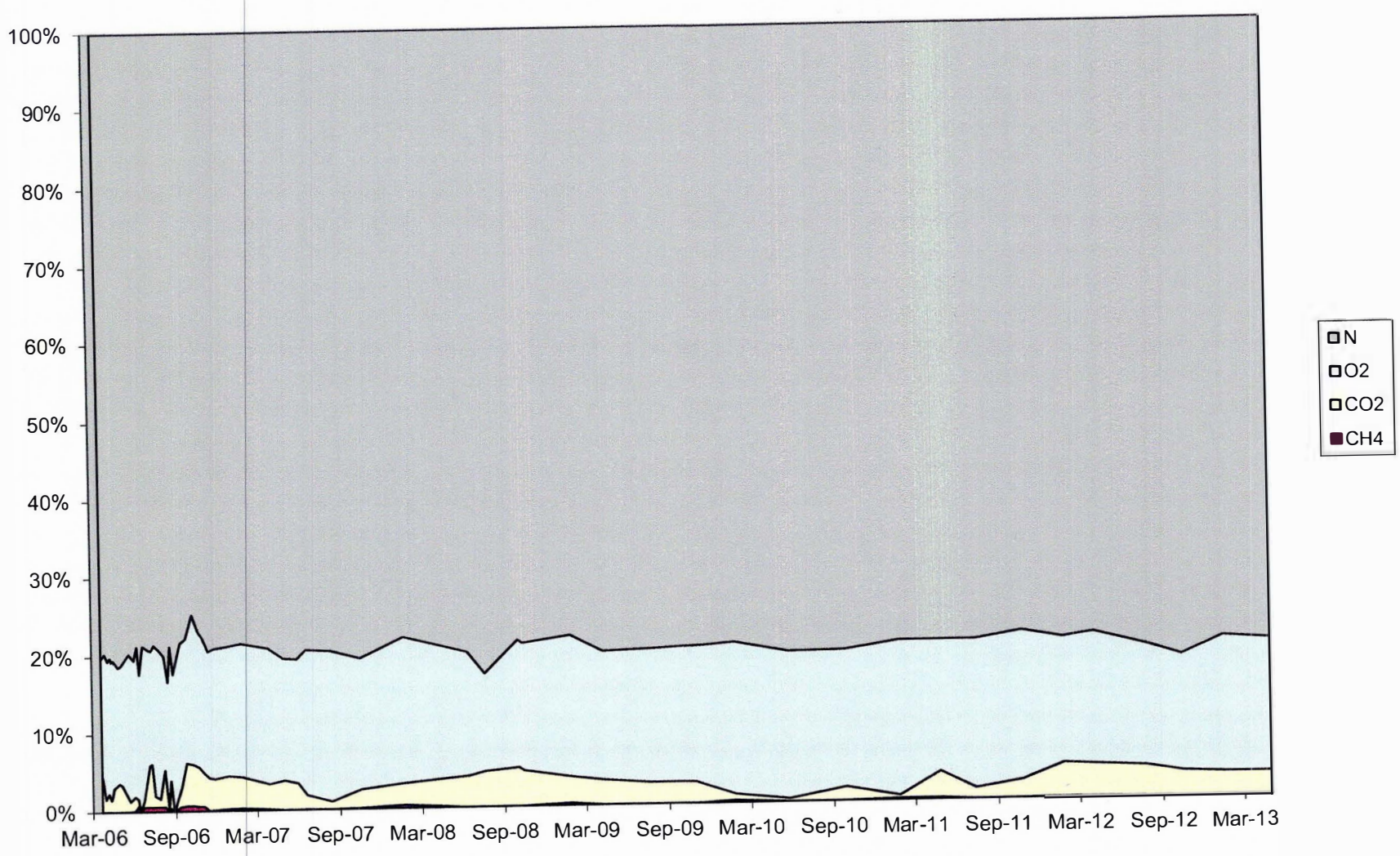


Chart 24: GP-11 Gas Concentrations

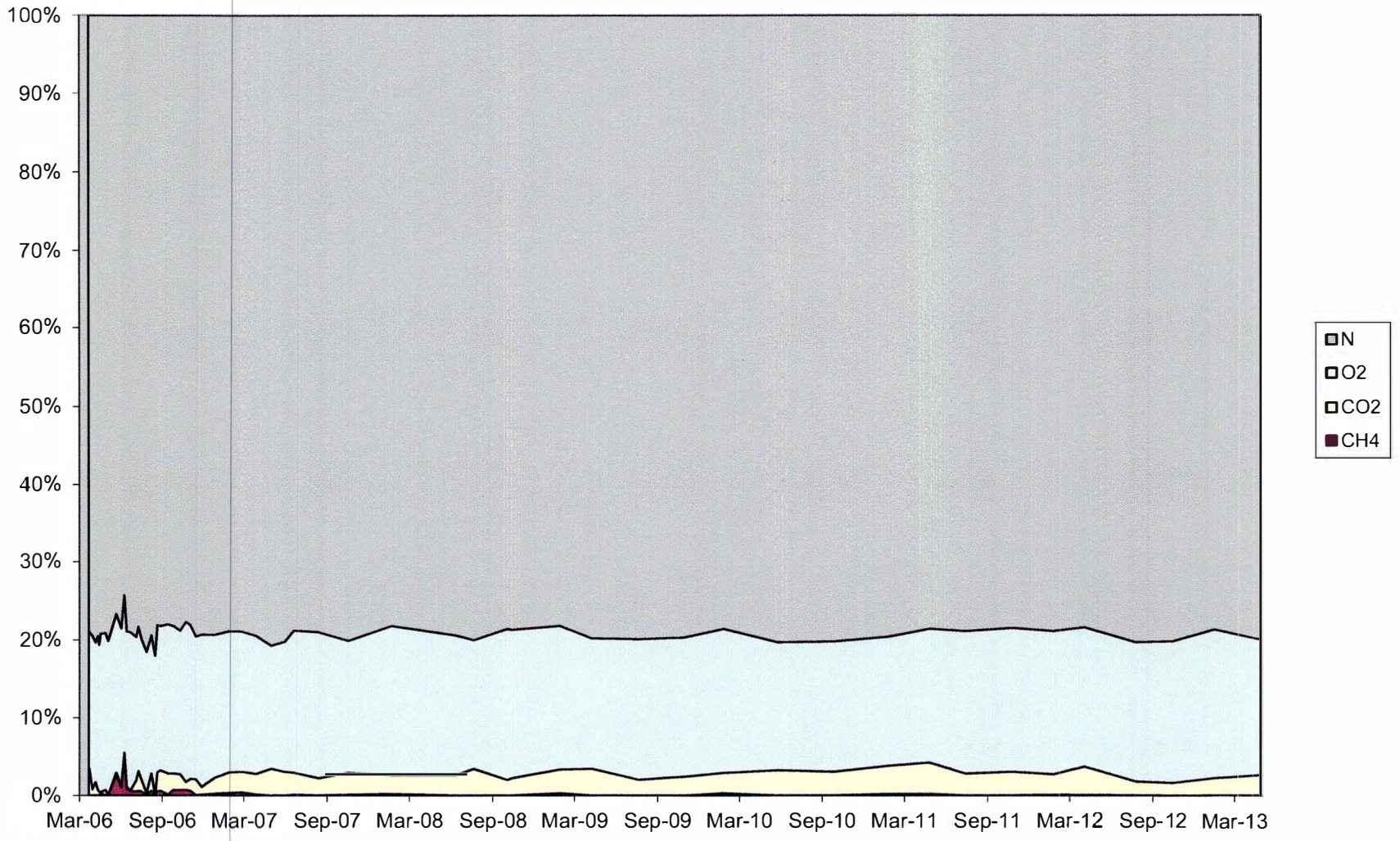


Chart 25: GP-12 Gas Concentrations

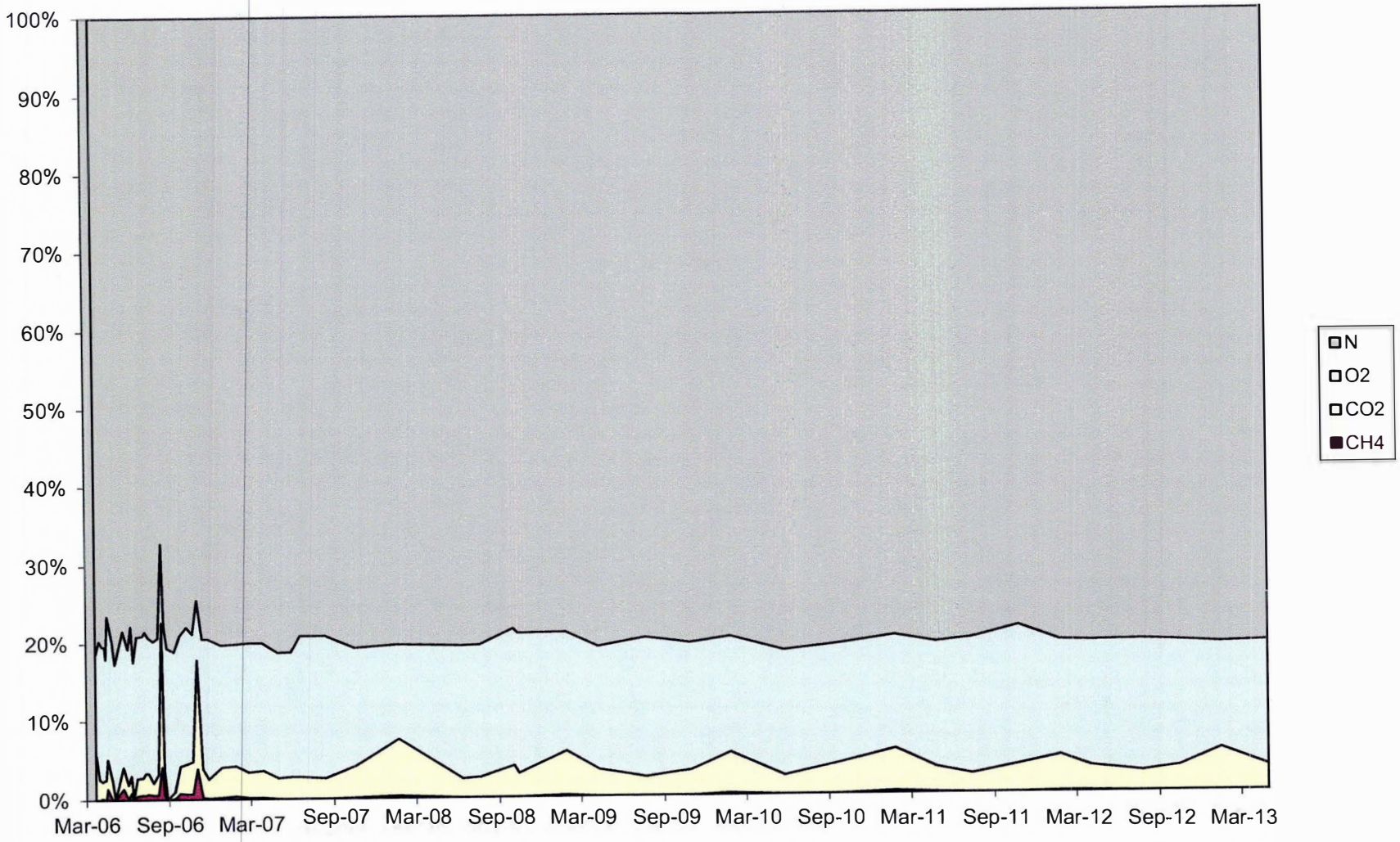


Chart 26: MW-101 Gas Concentrations

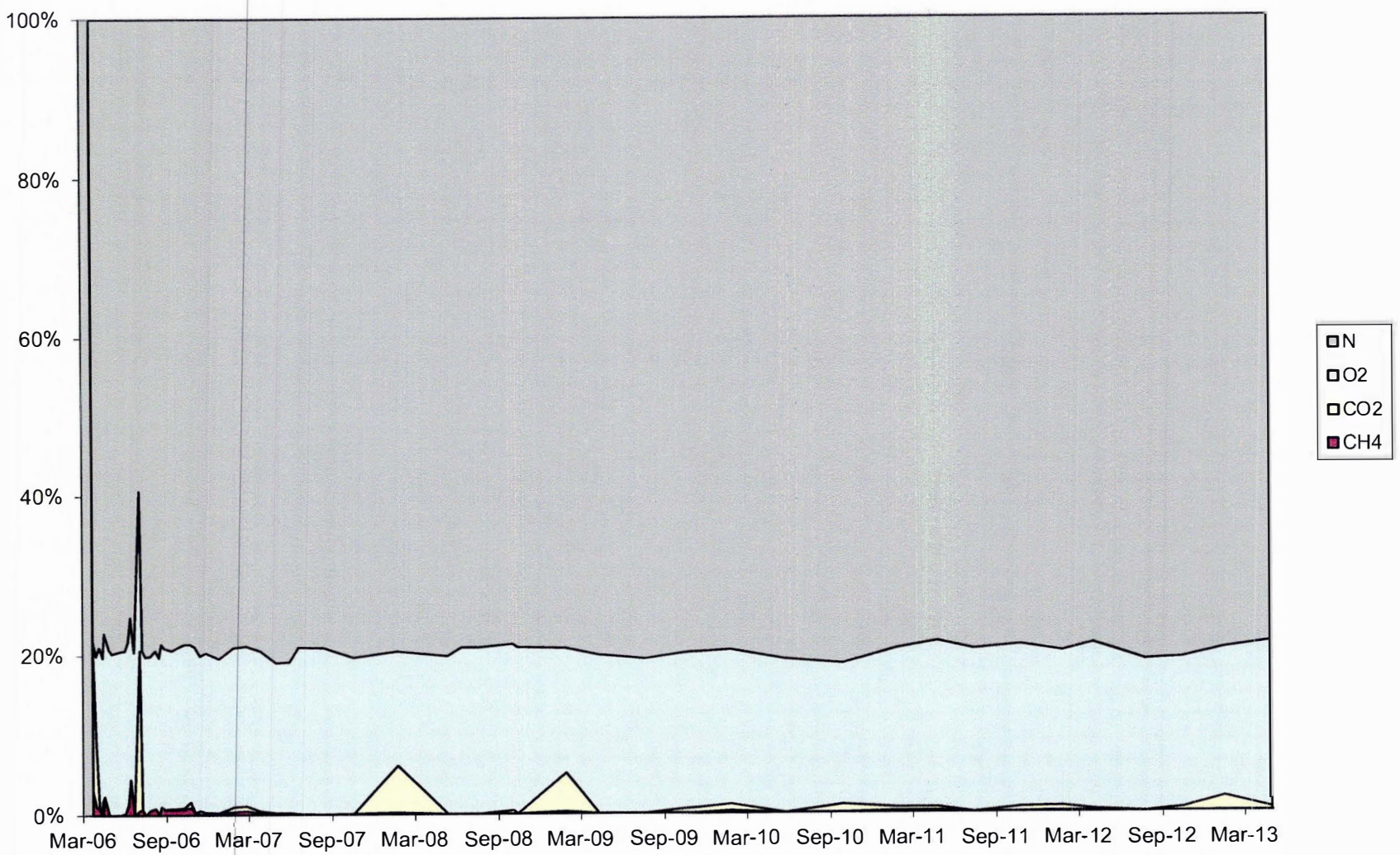


Chart 27: MW-102 Gas Concentrations

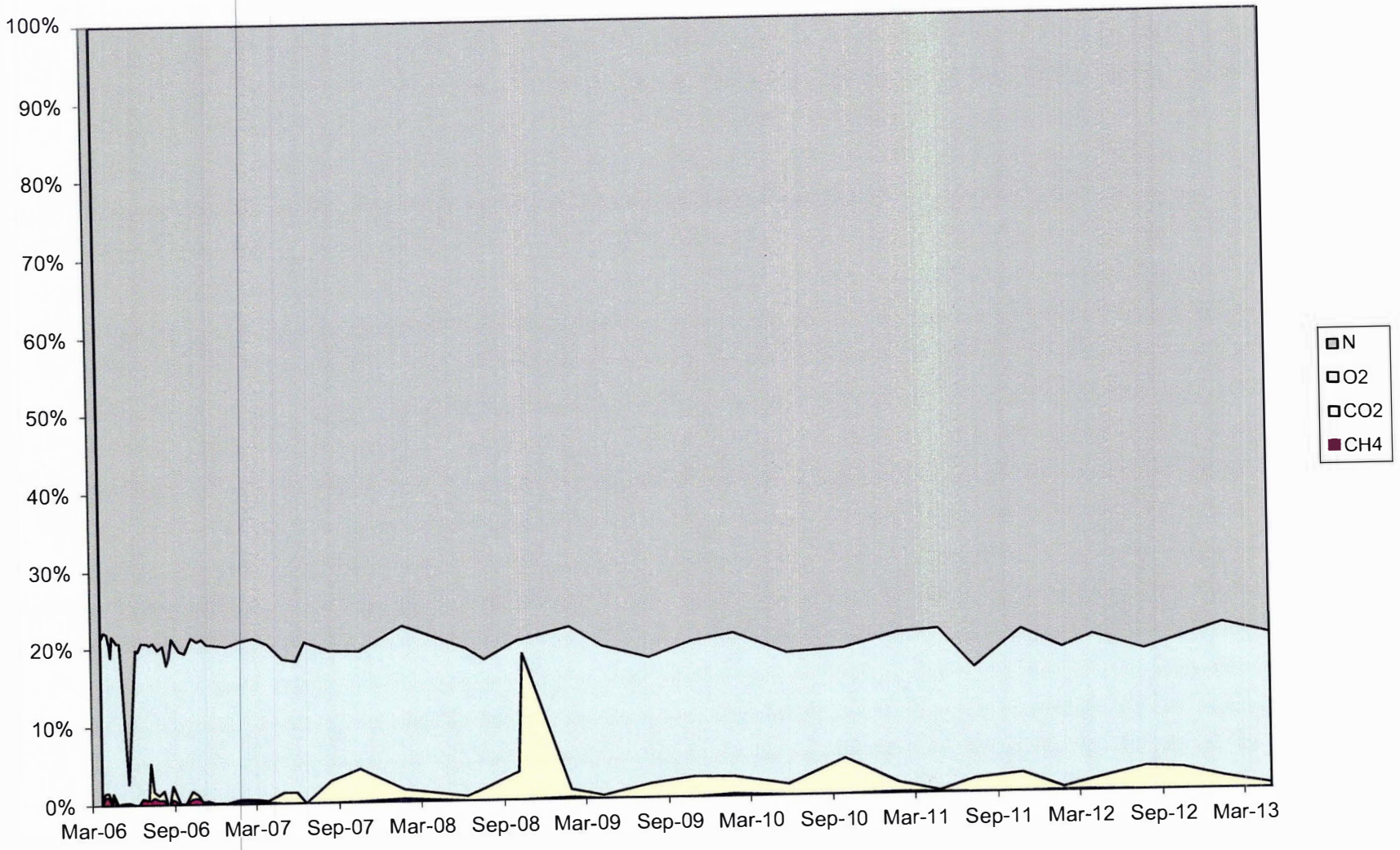


Chart 28: MW-103 Gas Concentrations

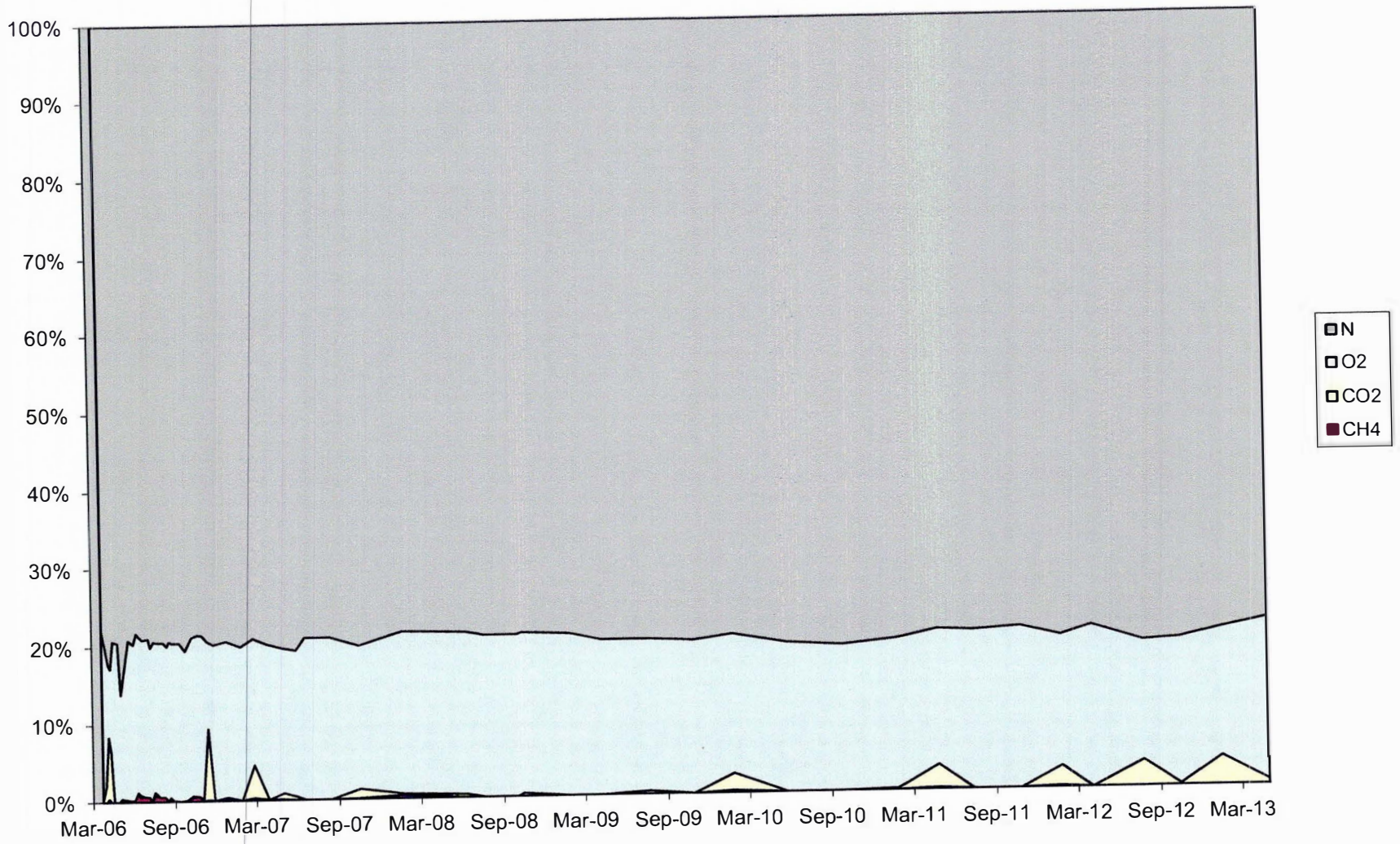


Chart 29: MW-104 Gas Concentrations

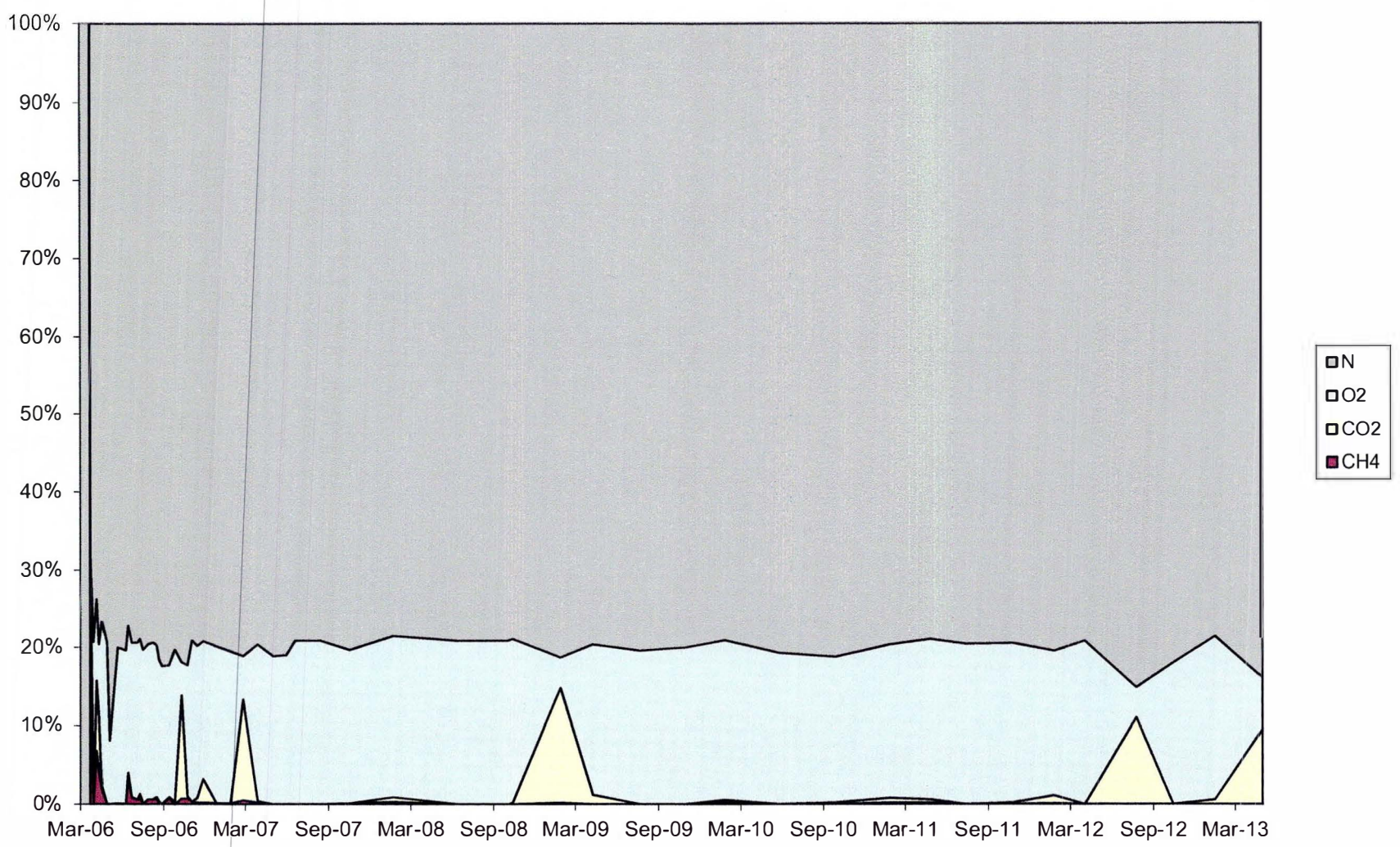


Chart 30: Barometric Pressure
(Weather Station: Ripon, WI)

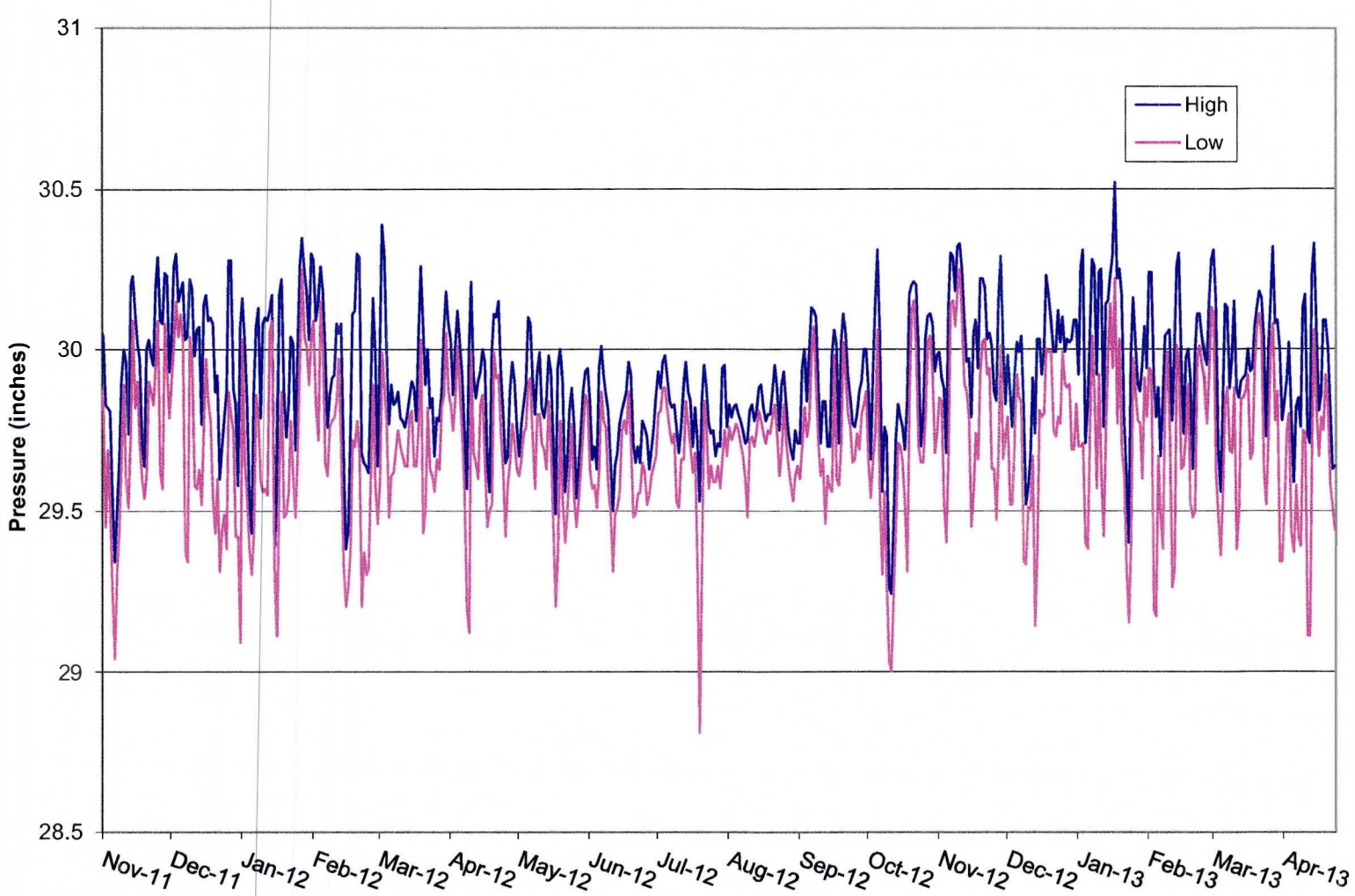


Chart 31: LC-1
Total Gas VOCs

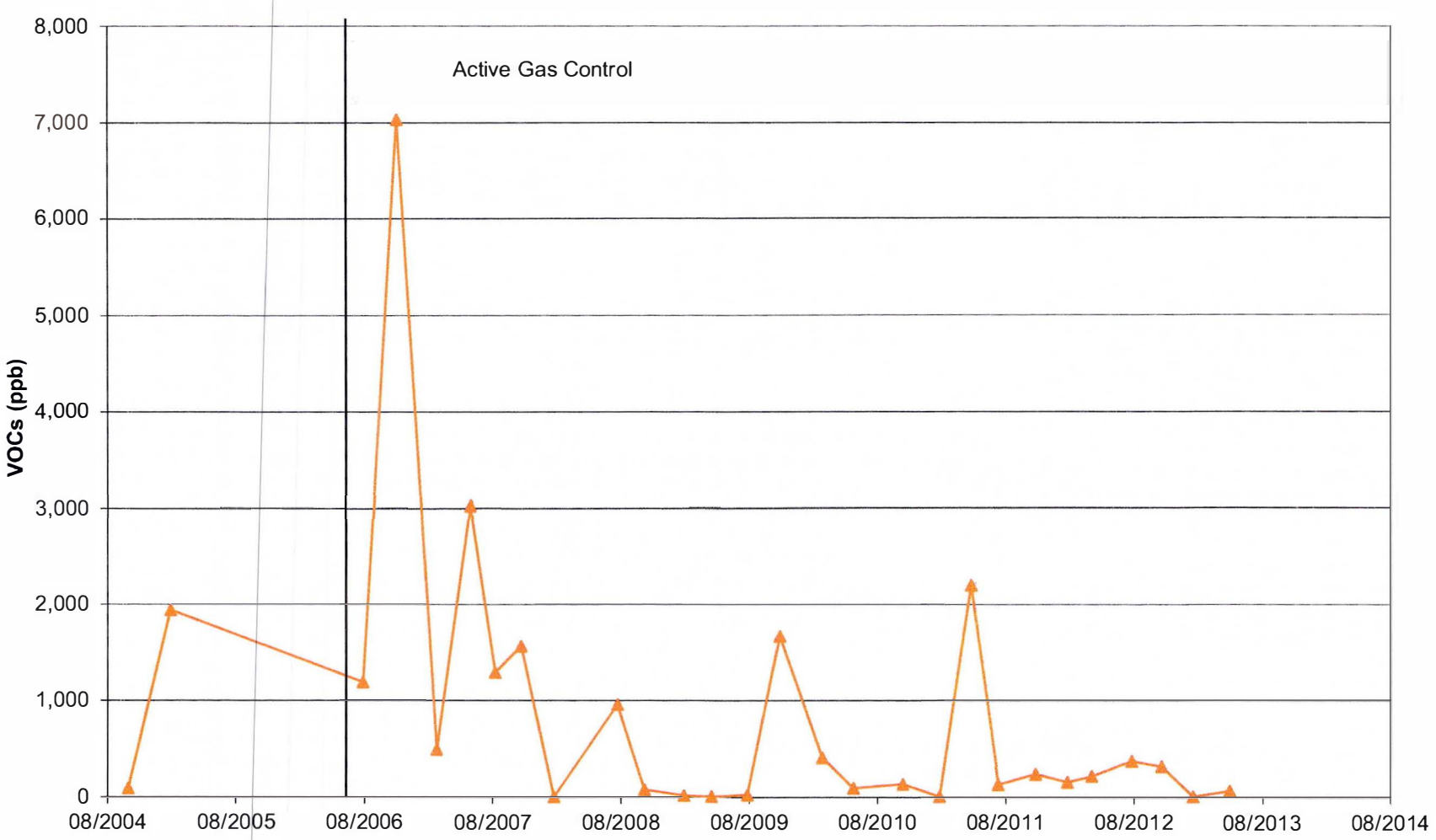


Chart 32: LC-2
Total Gas VOCs

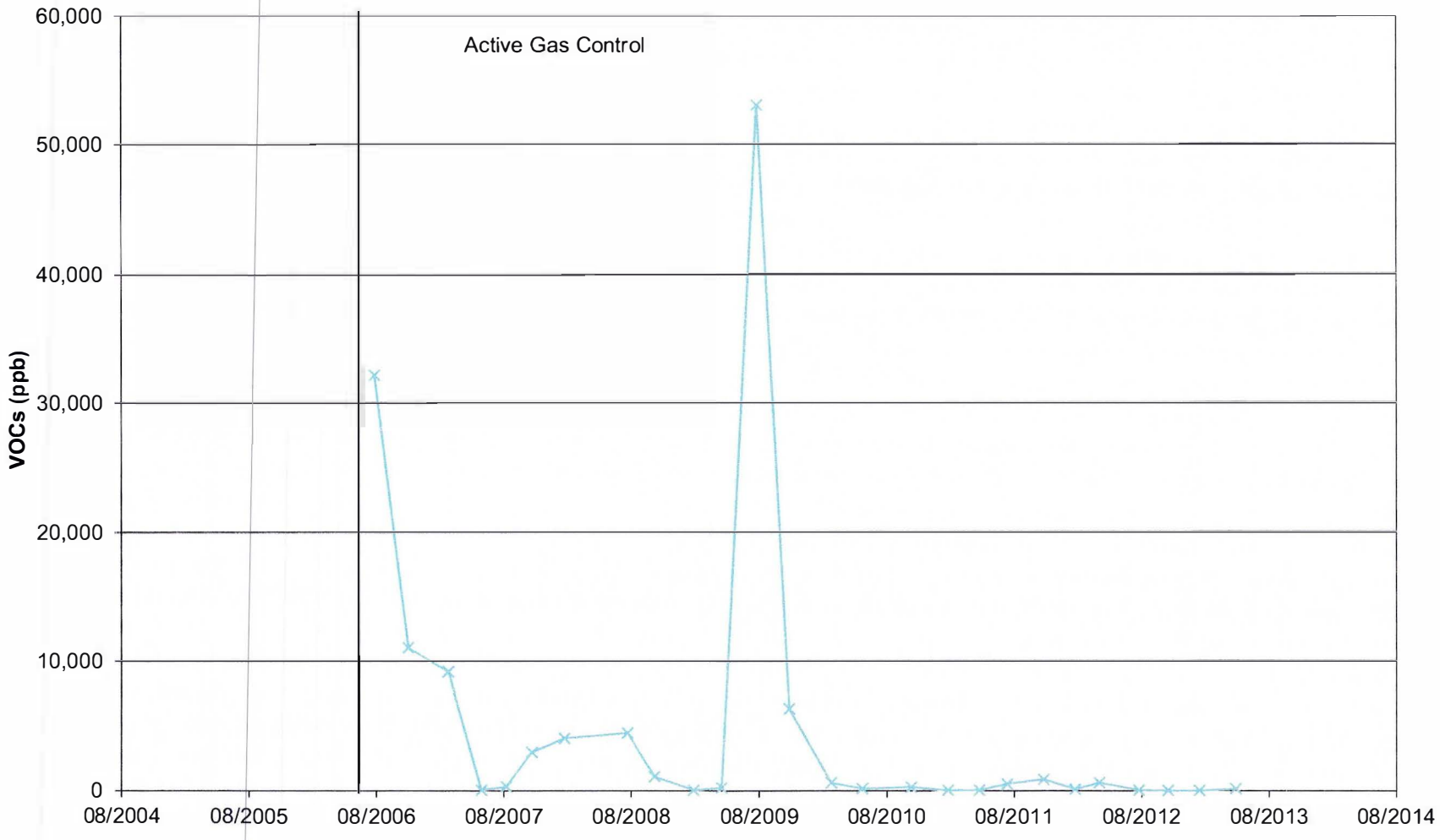


Chart 33: LC-3
Total Gas VOCs

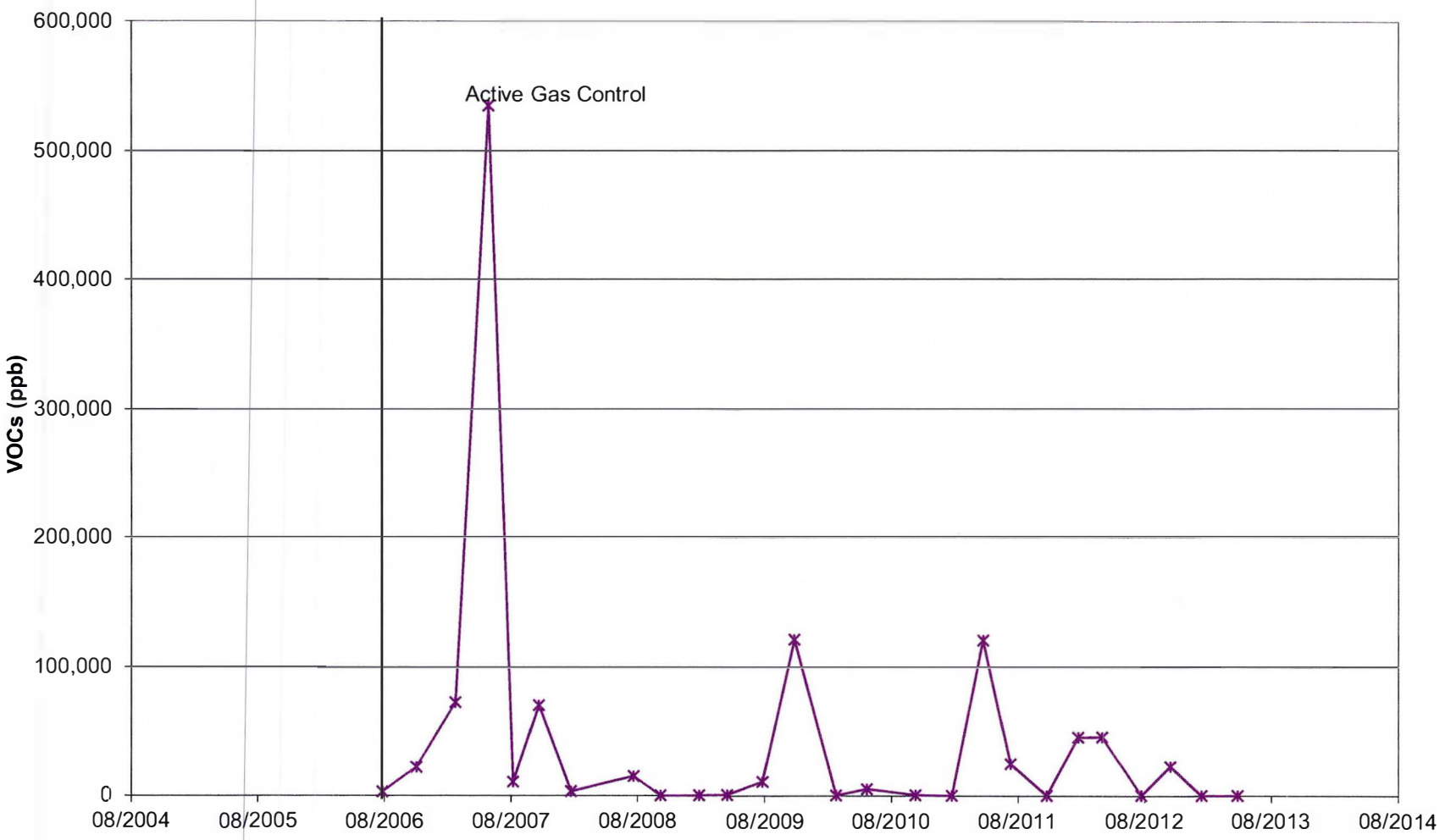


Chart 34: GV-6
Total Gas VOCs

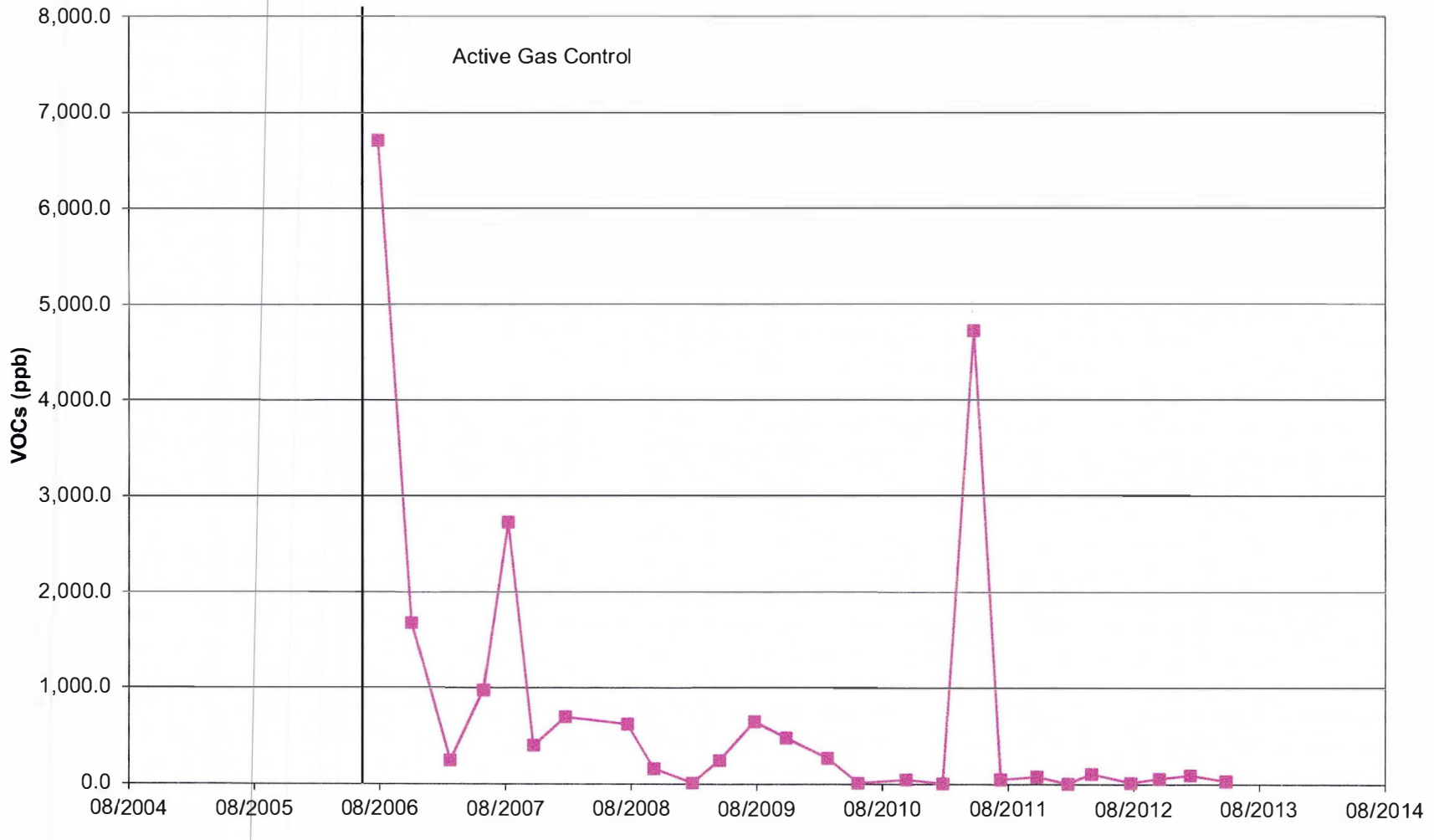
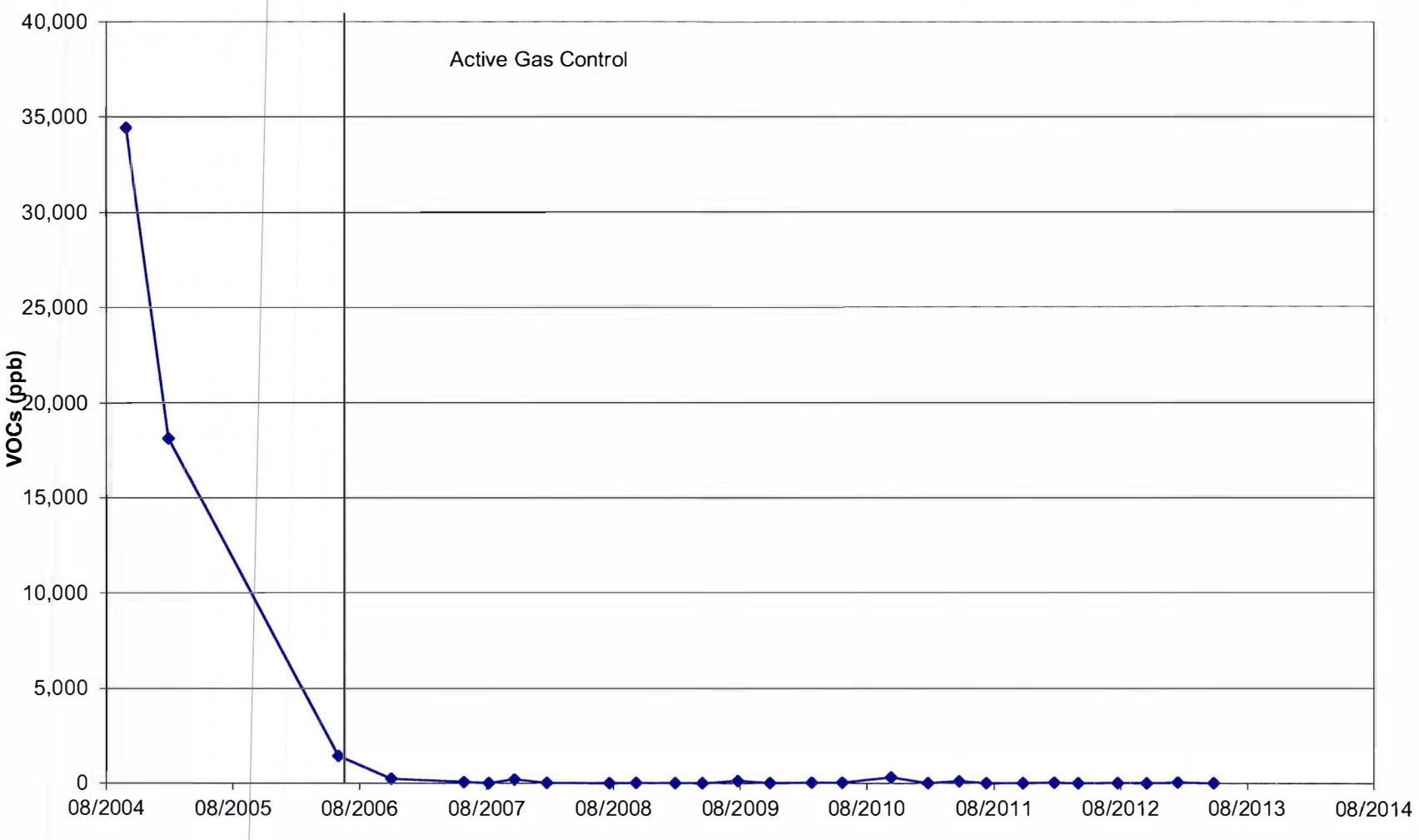


Chart 35: GP-3
Total Gas VOCs



10' Down gradient

Chart 38: MW-103
Layer 1 Well

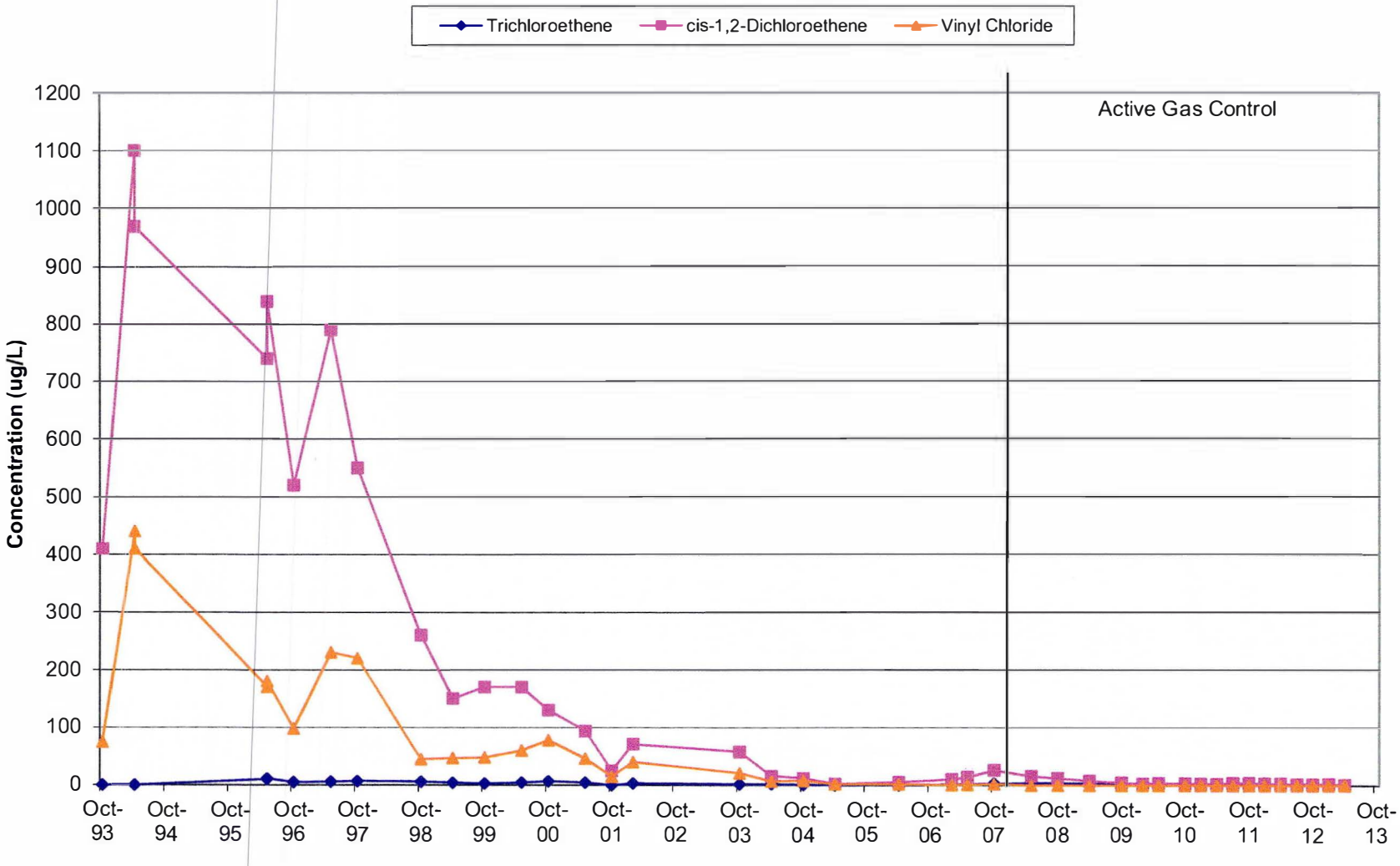


Chart 39: MW-104
Layer 1 Well

Side gradient

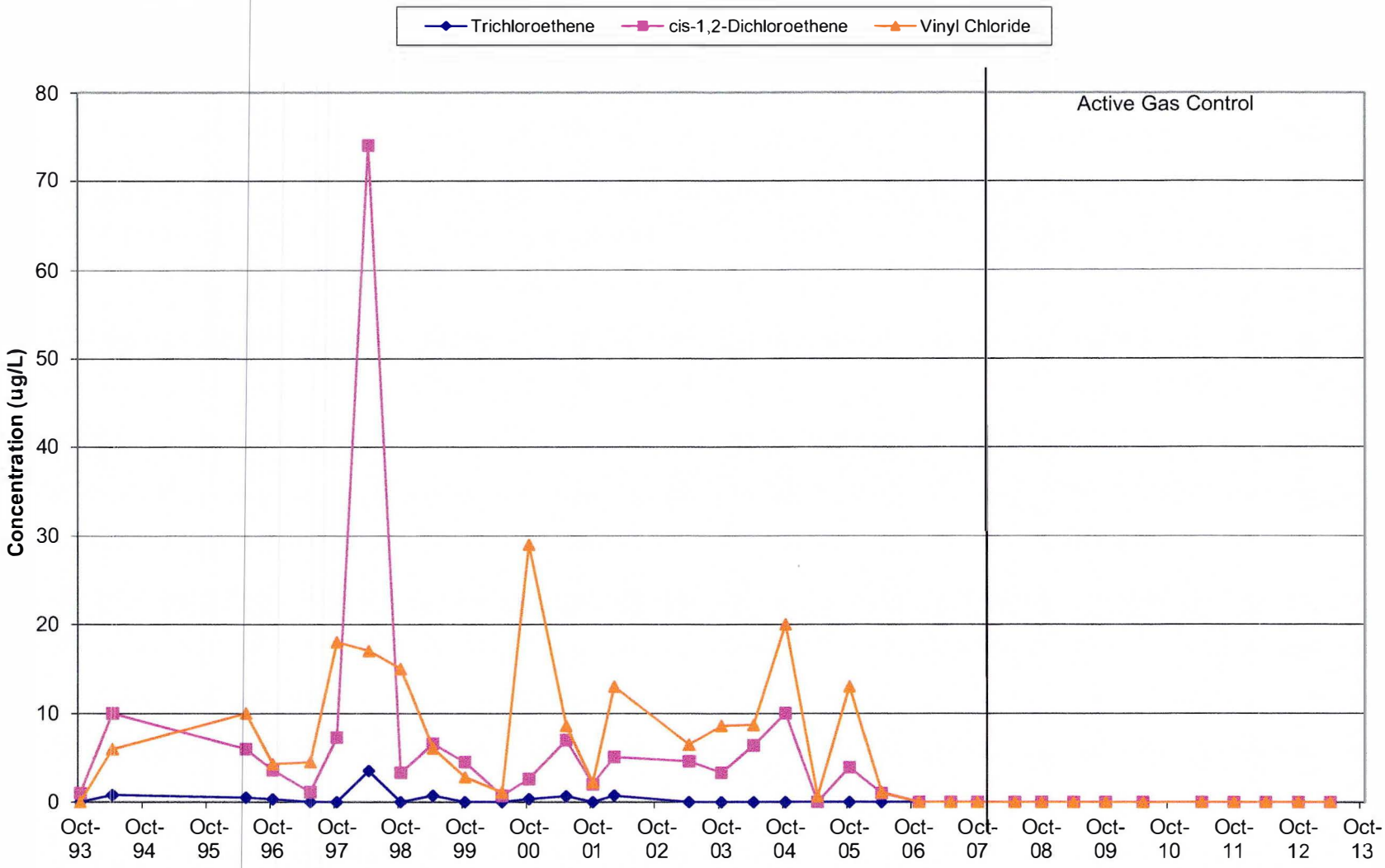


Chart 41: MW-107
Layer 1 Well

370' Down gradient

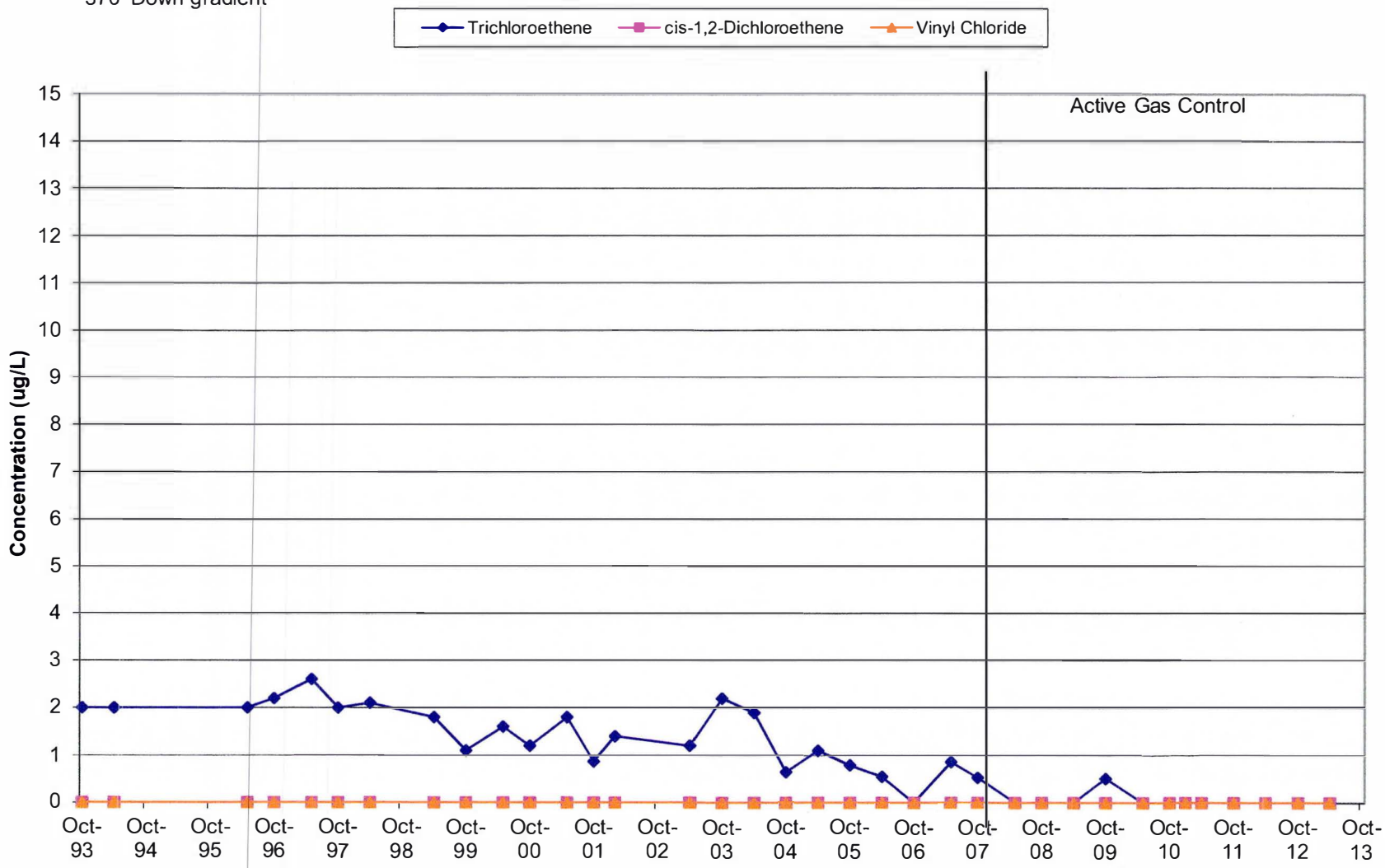


Chart 44: MW-112
Layer 1 Well

50' Down gradient

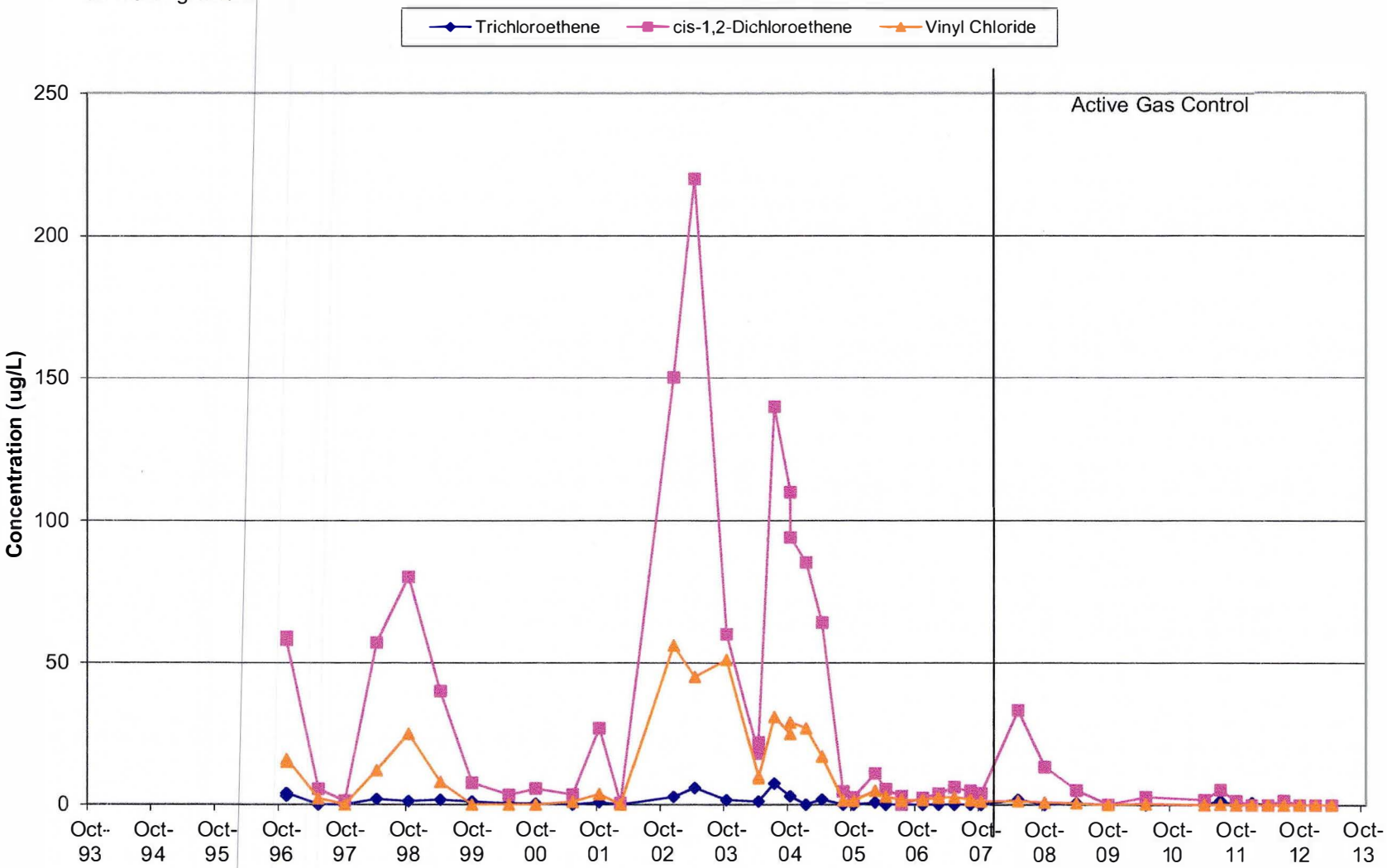


Chart 47: P-103
Layer 2 Well

10' Down gradient

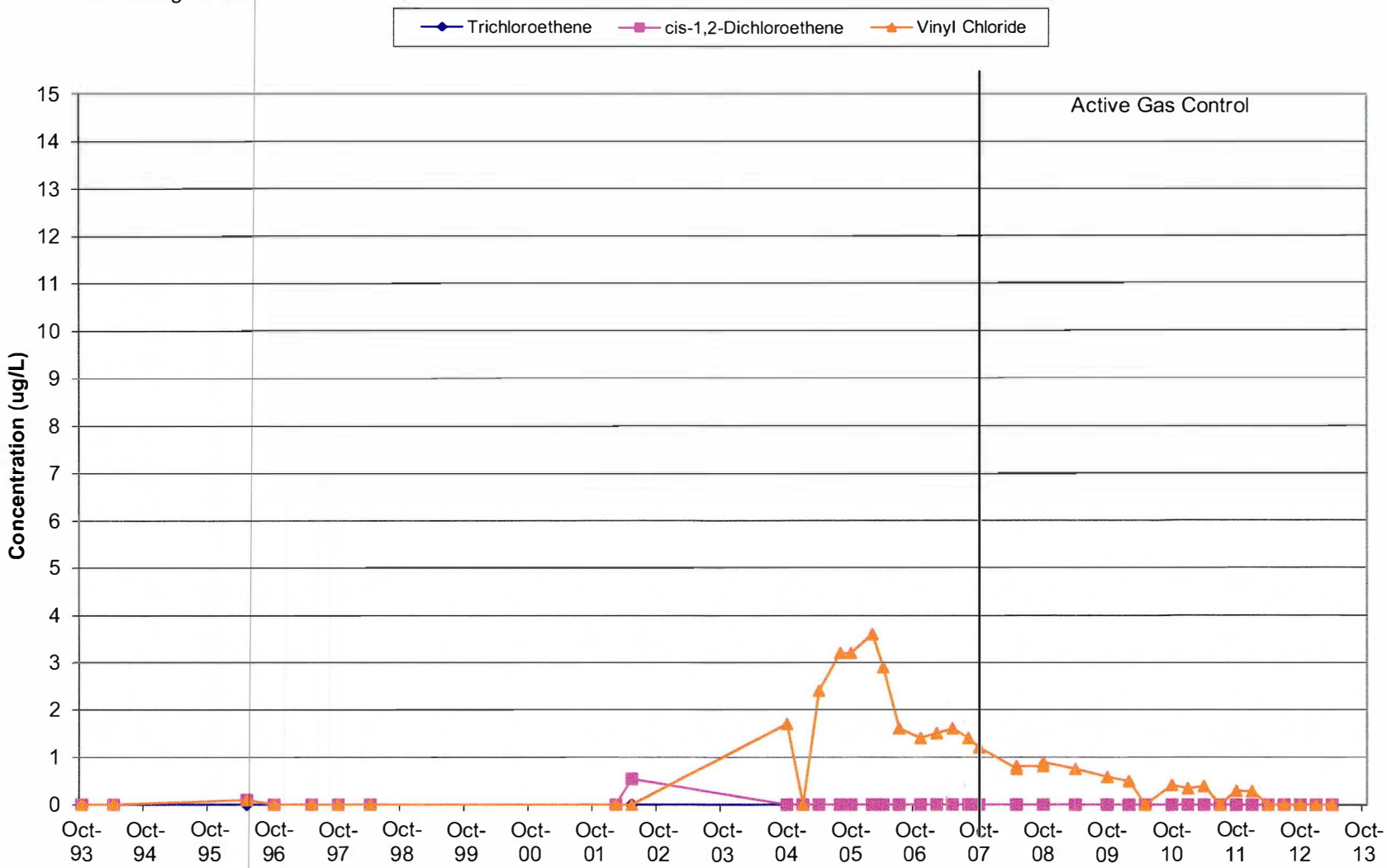


Chart 49: P-106
Layer 2 Well

Side gradient

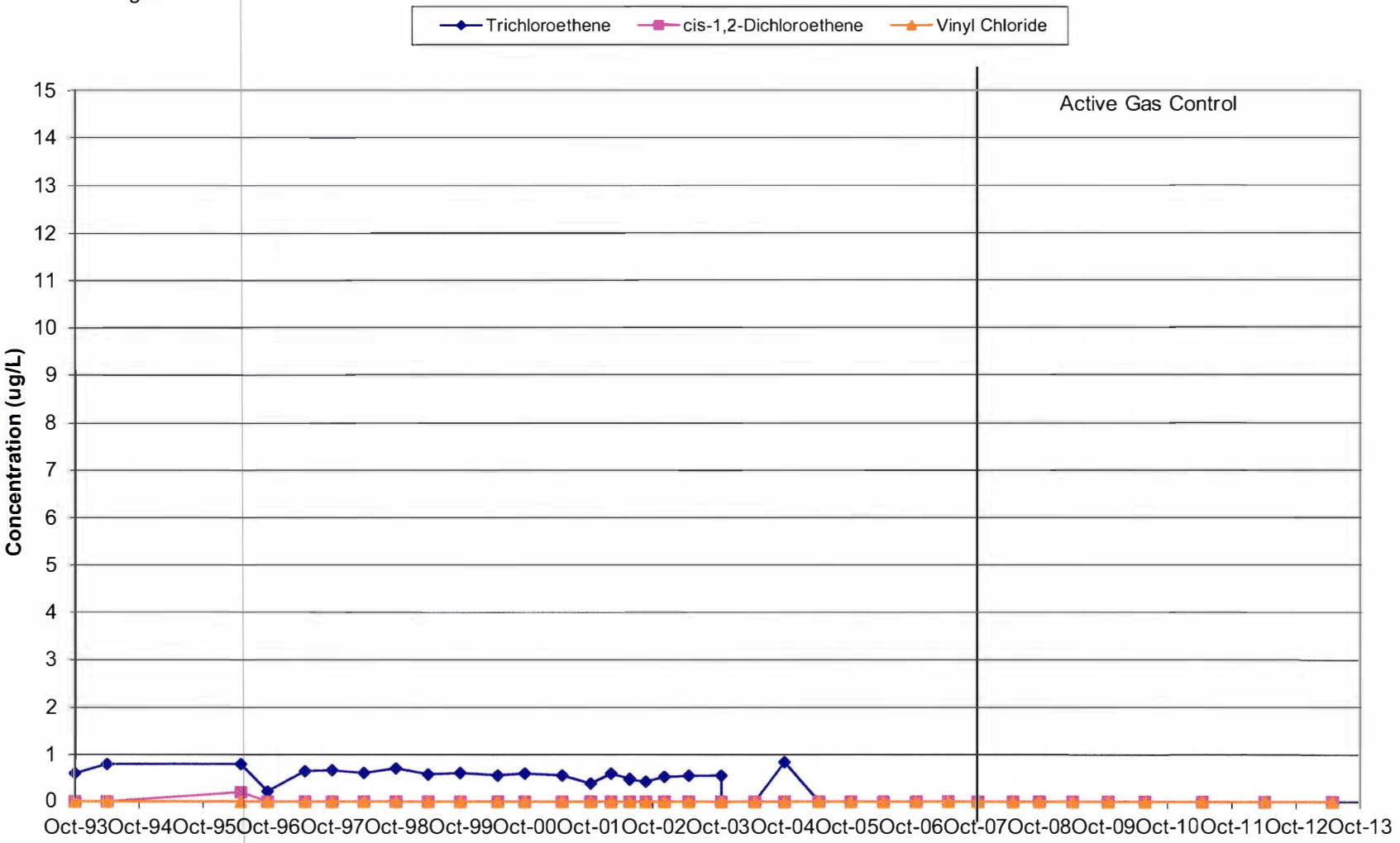


Chart 50: P-107
Layer 2 Well

370' Down gradient

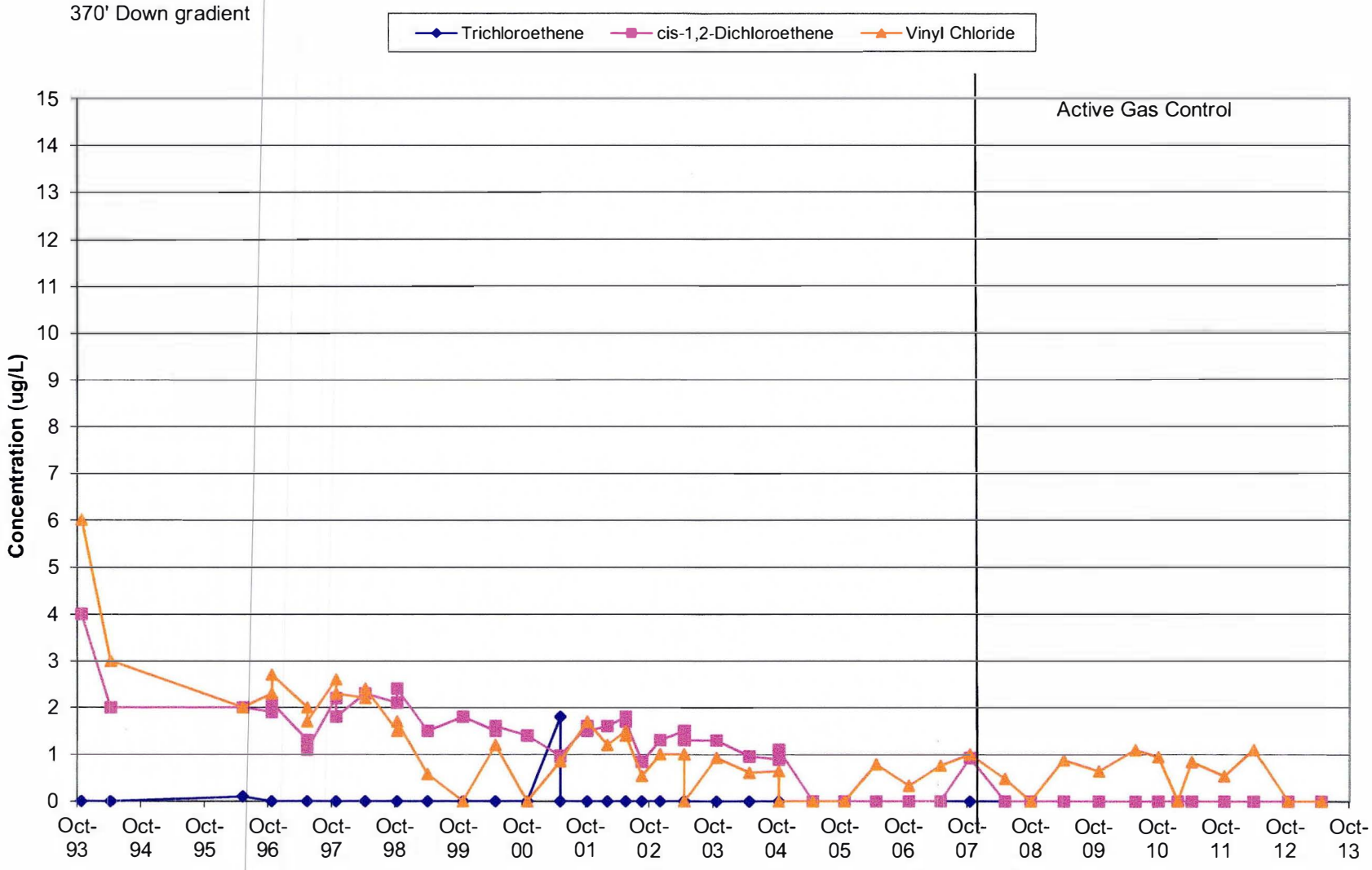


Chart 53: P-103D
Layer 3 Well

10' Down gradient

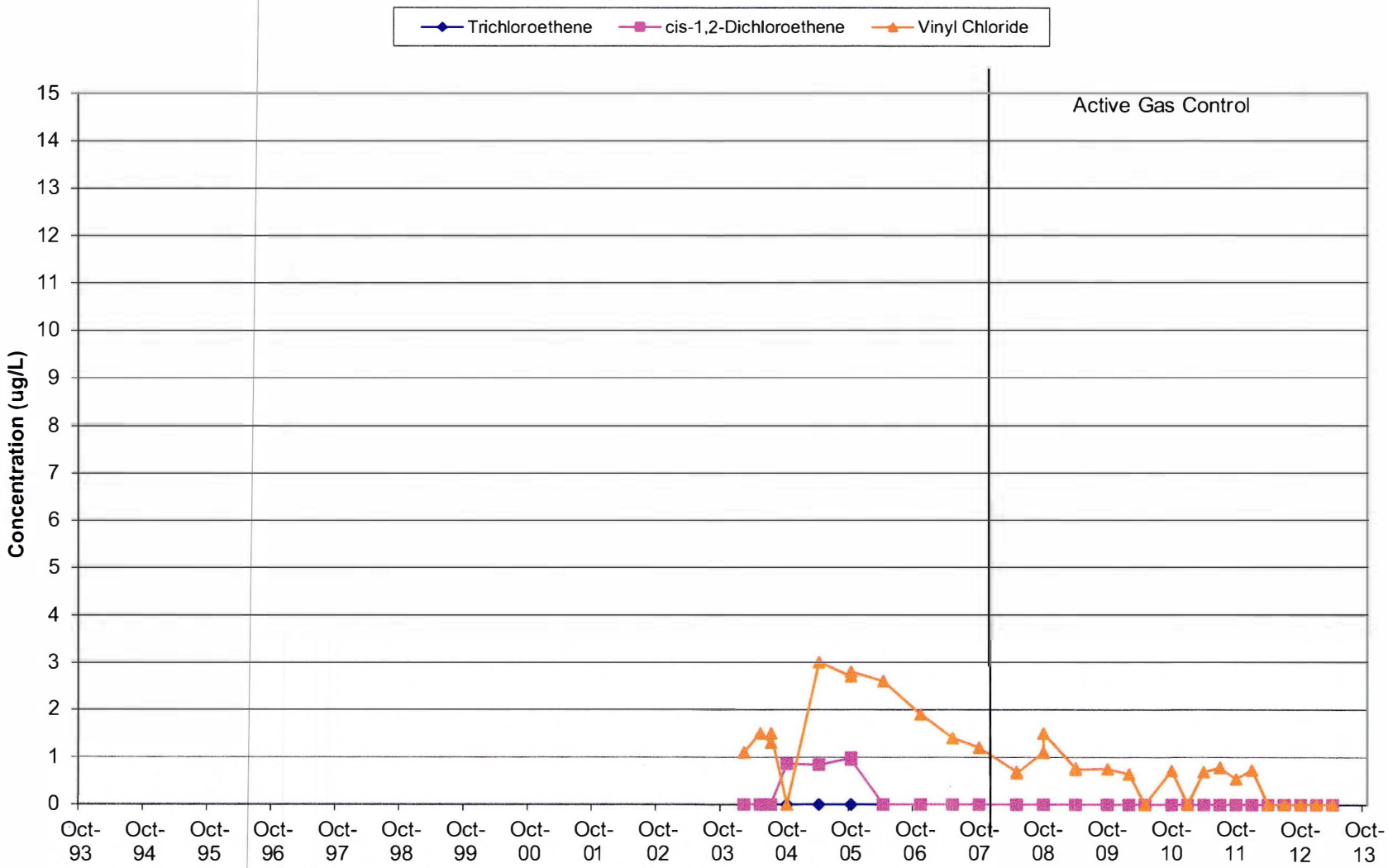


Chart 54: P-111D
Layer 3 Well

900' Down gradient

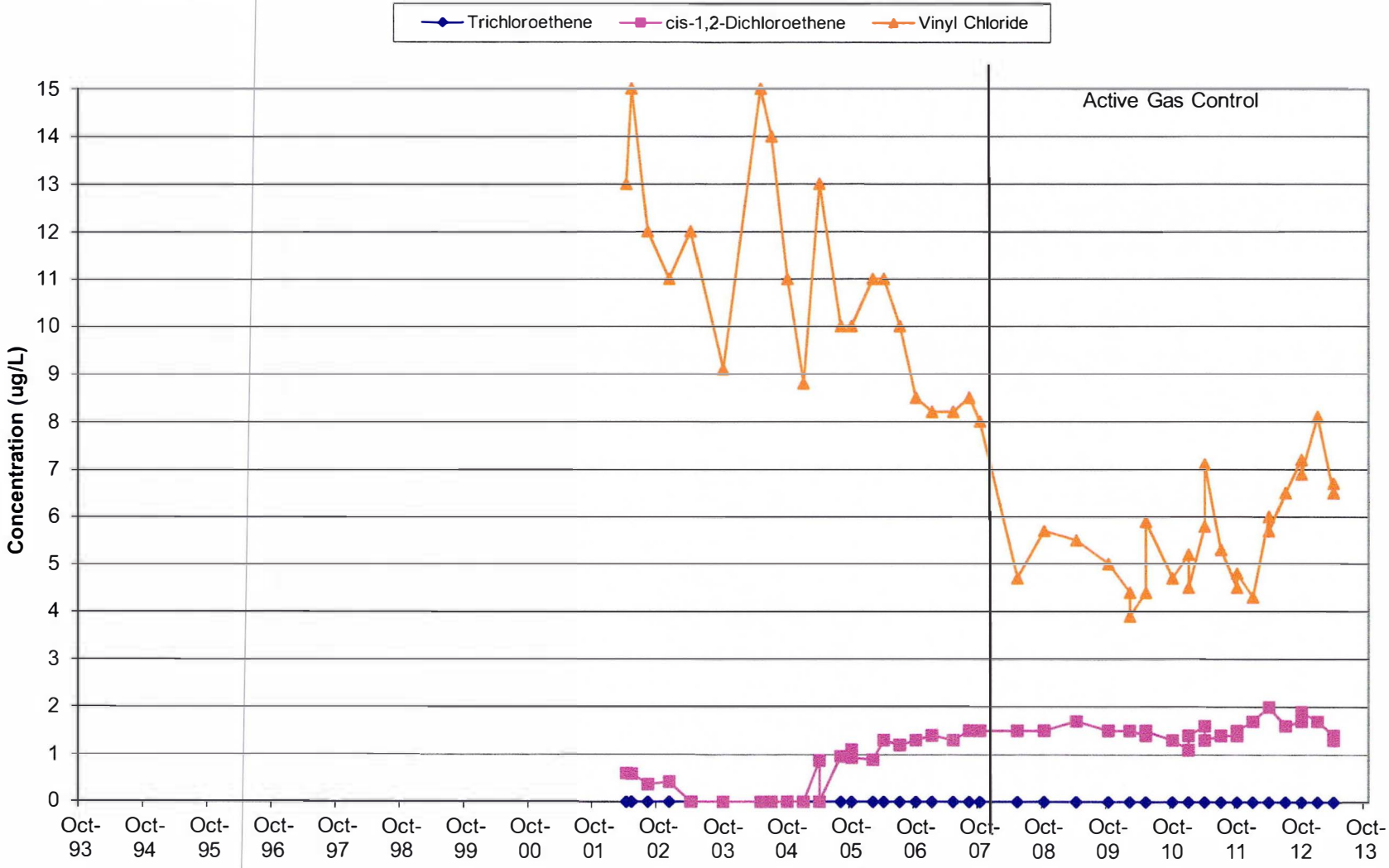


Chart 55: MW-3B
Layer 3 Well

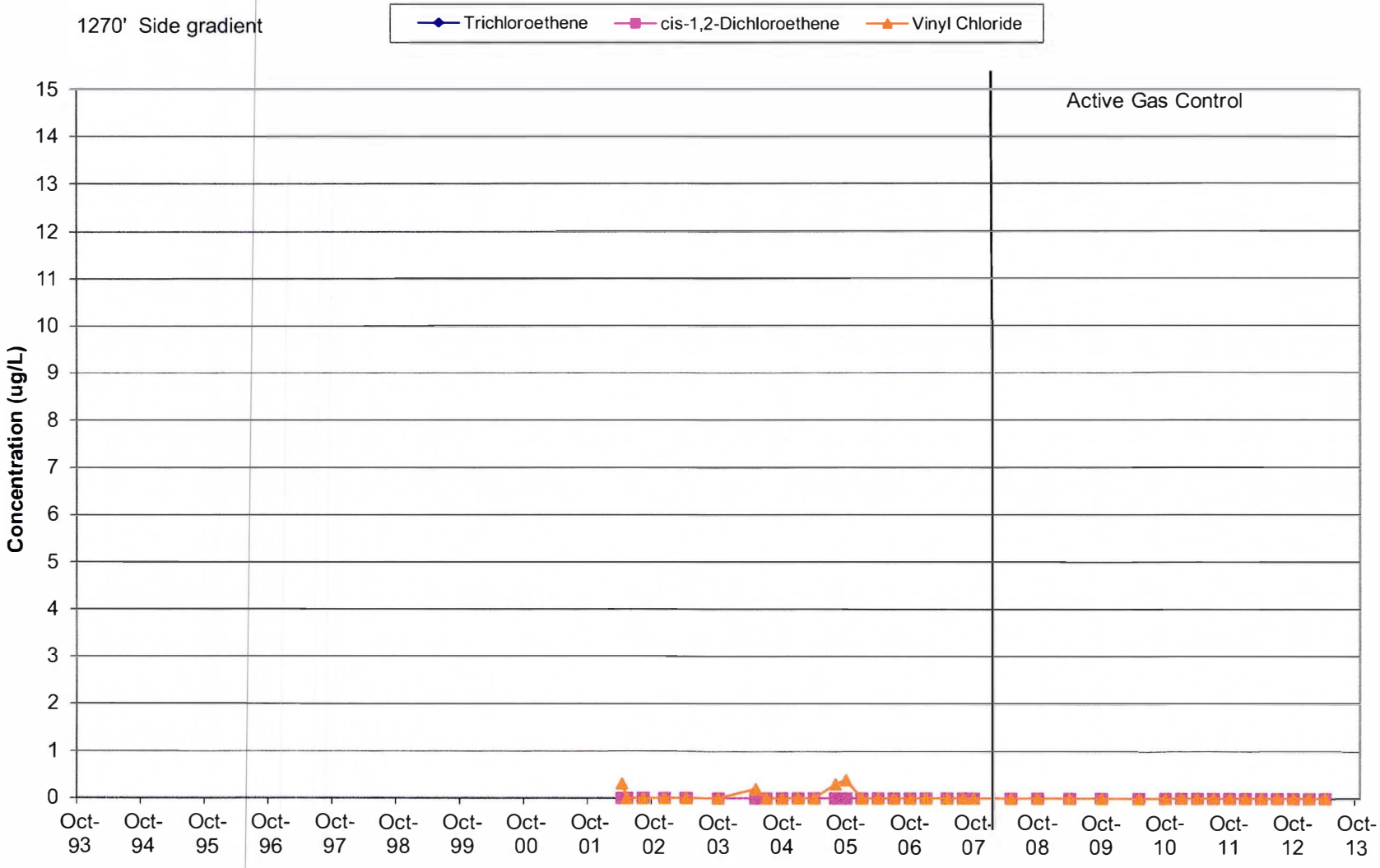


Chart 56: P-113B
Layer 3 Well

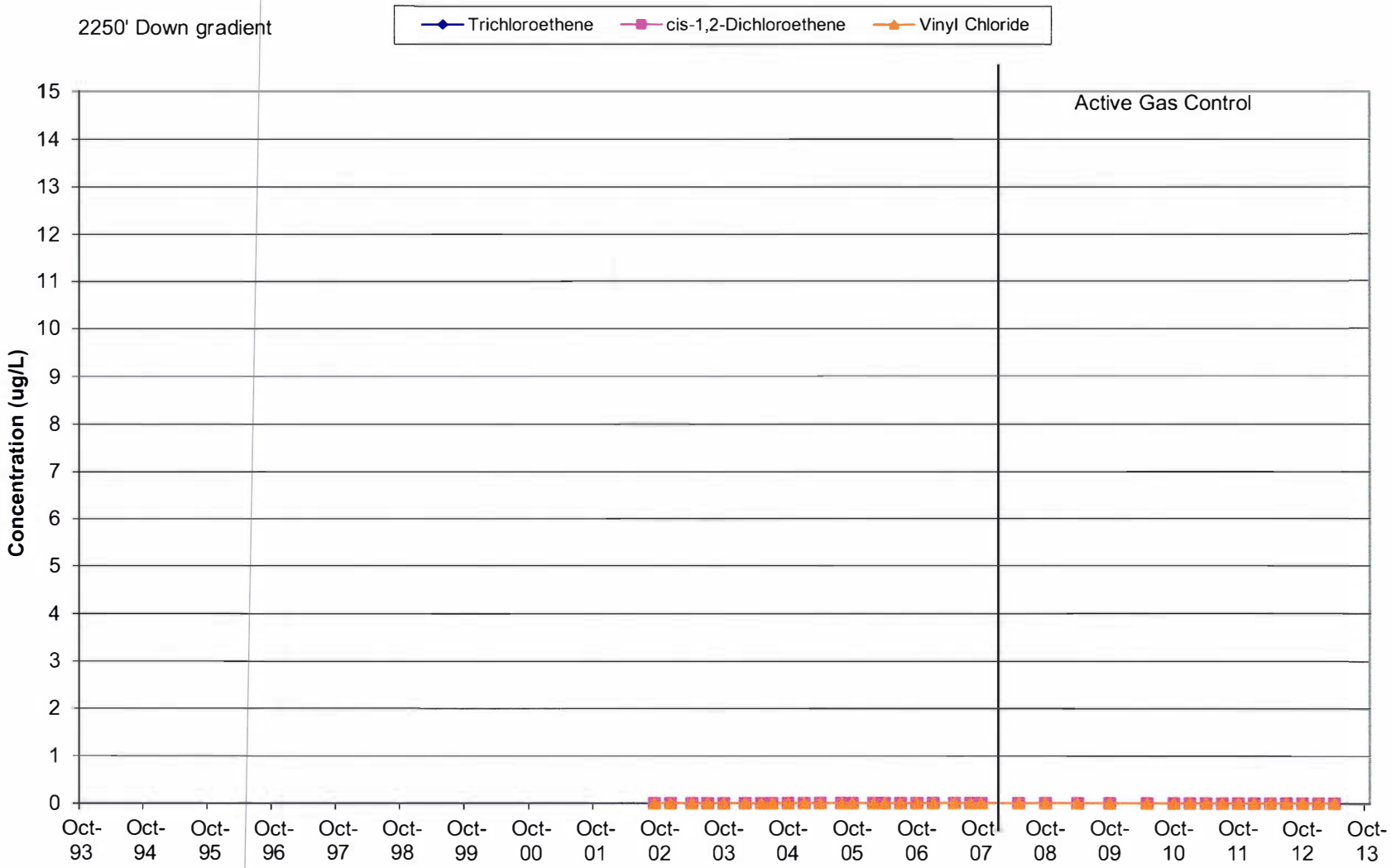


Chart 57: P-114
Layer 3 Well

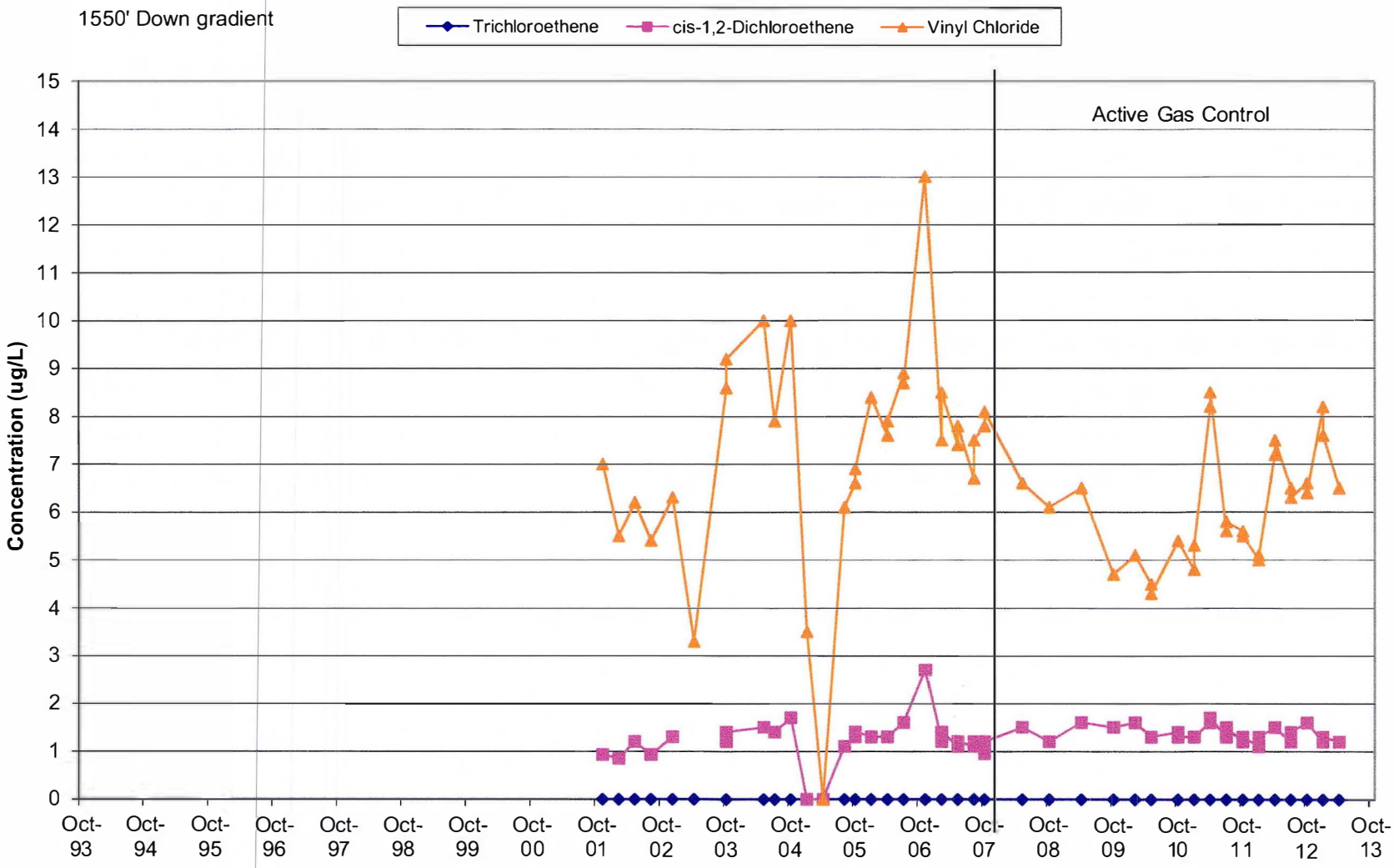


Chart 58: P-115
Layer 3 Well

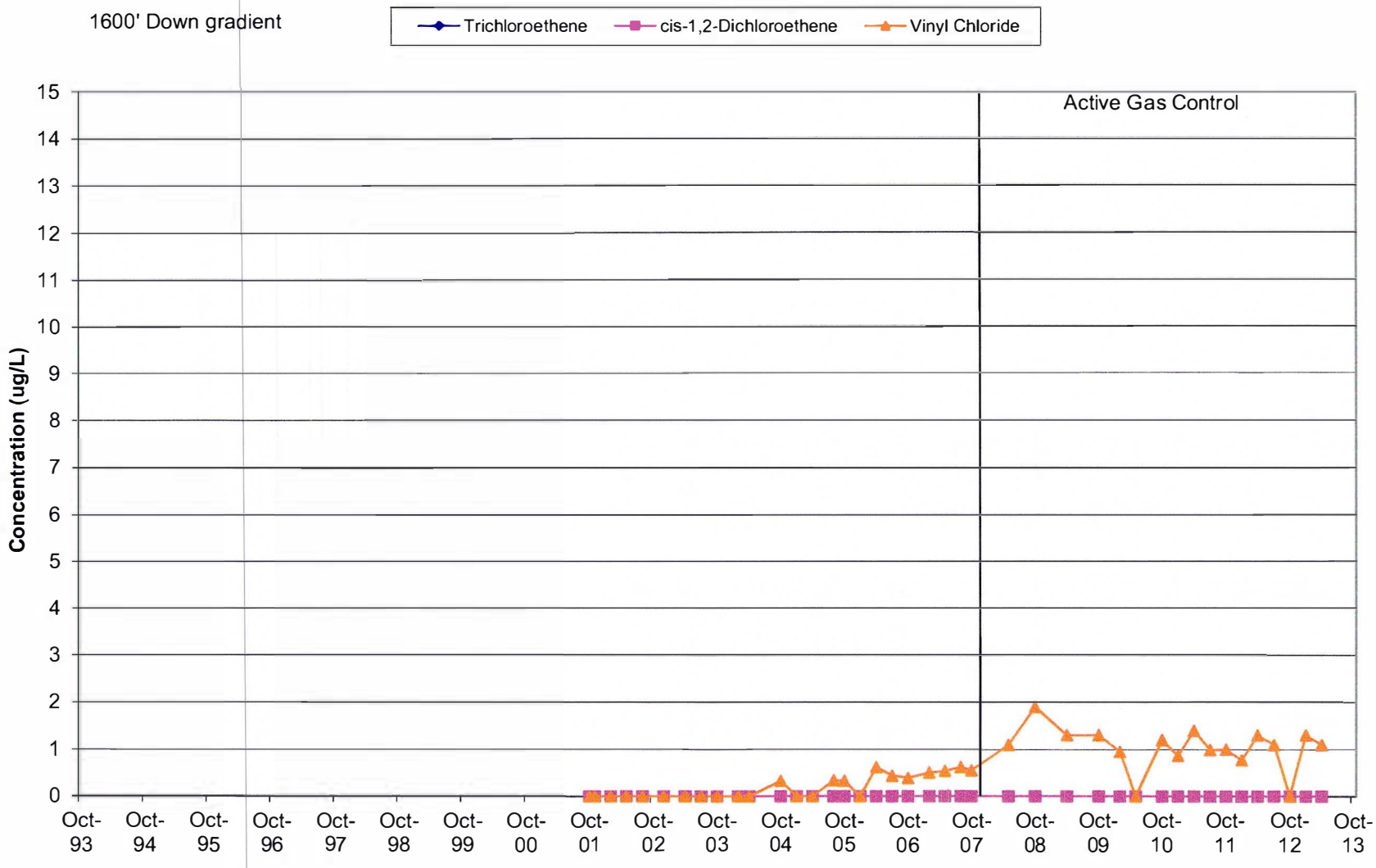


Chart 59: P-116
Layer 3 Well

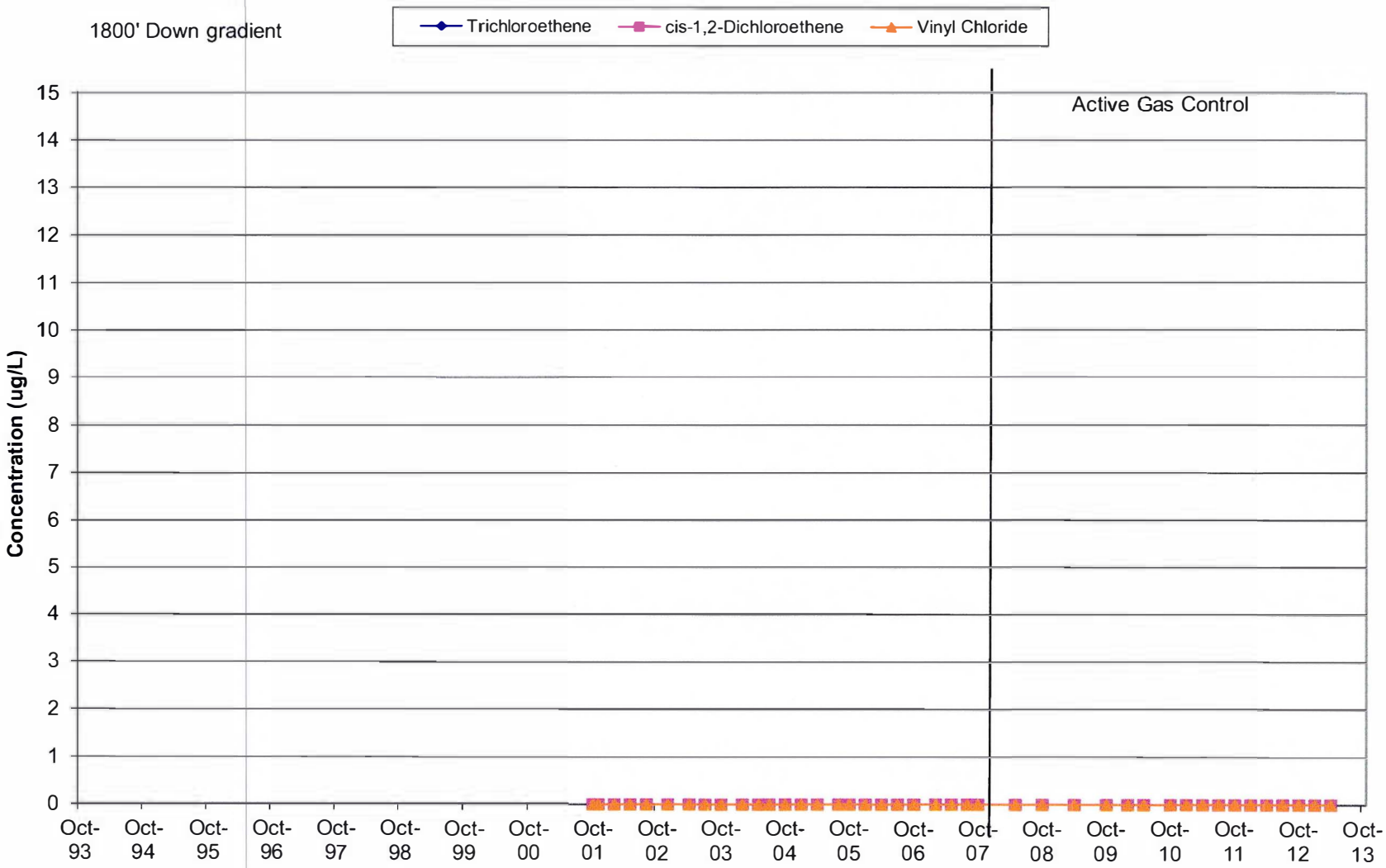


Chart 60: MW-3A
Layer 4 Well

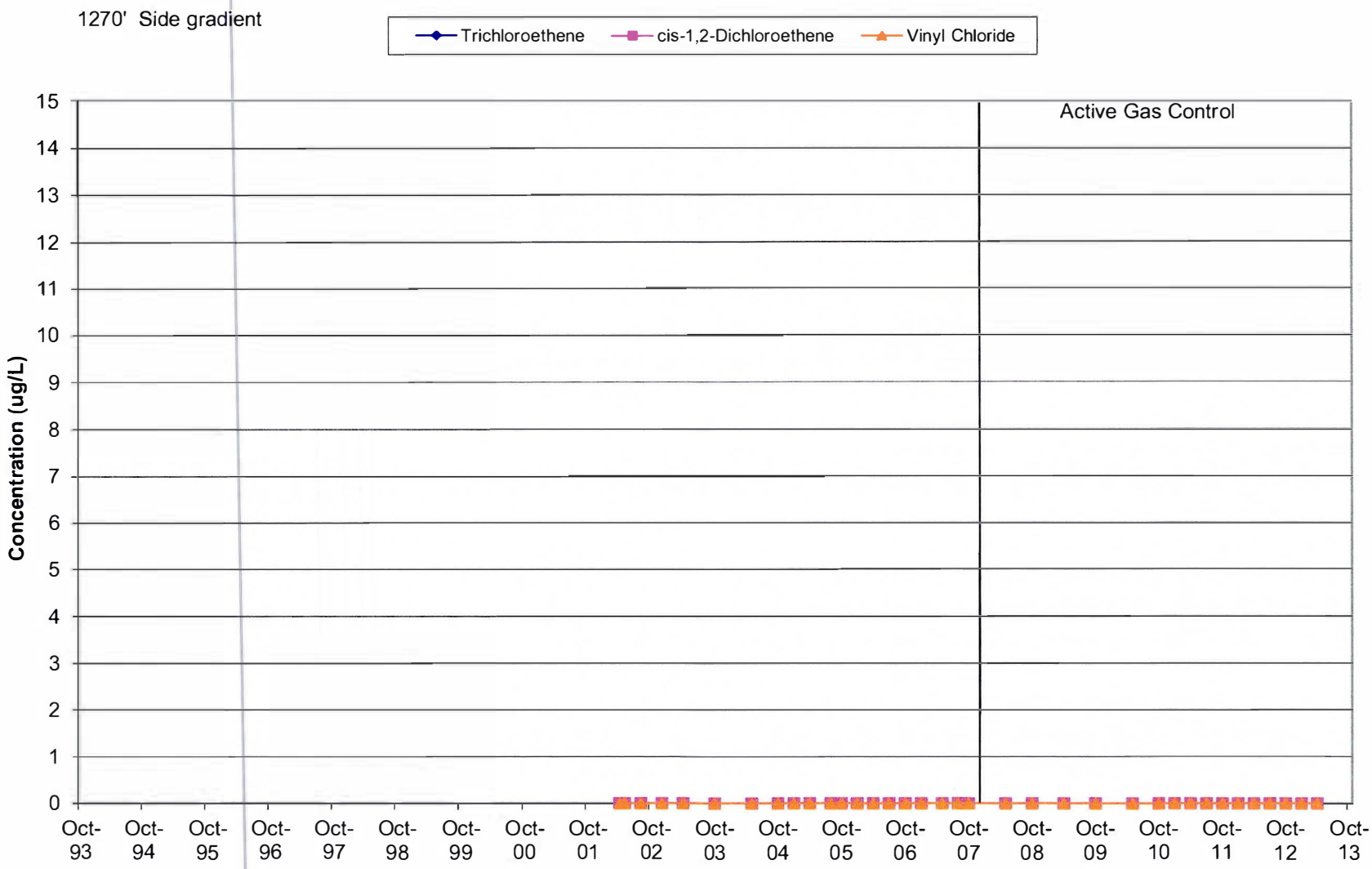


Chart 61: P-107D
Layer 4 Well

370' Down gradient

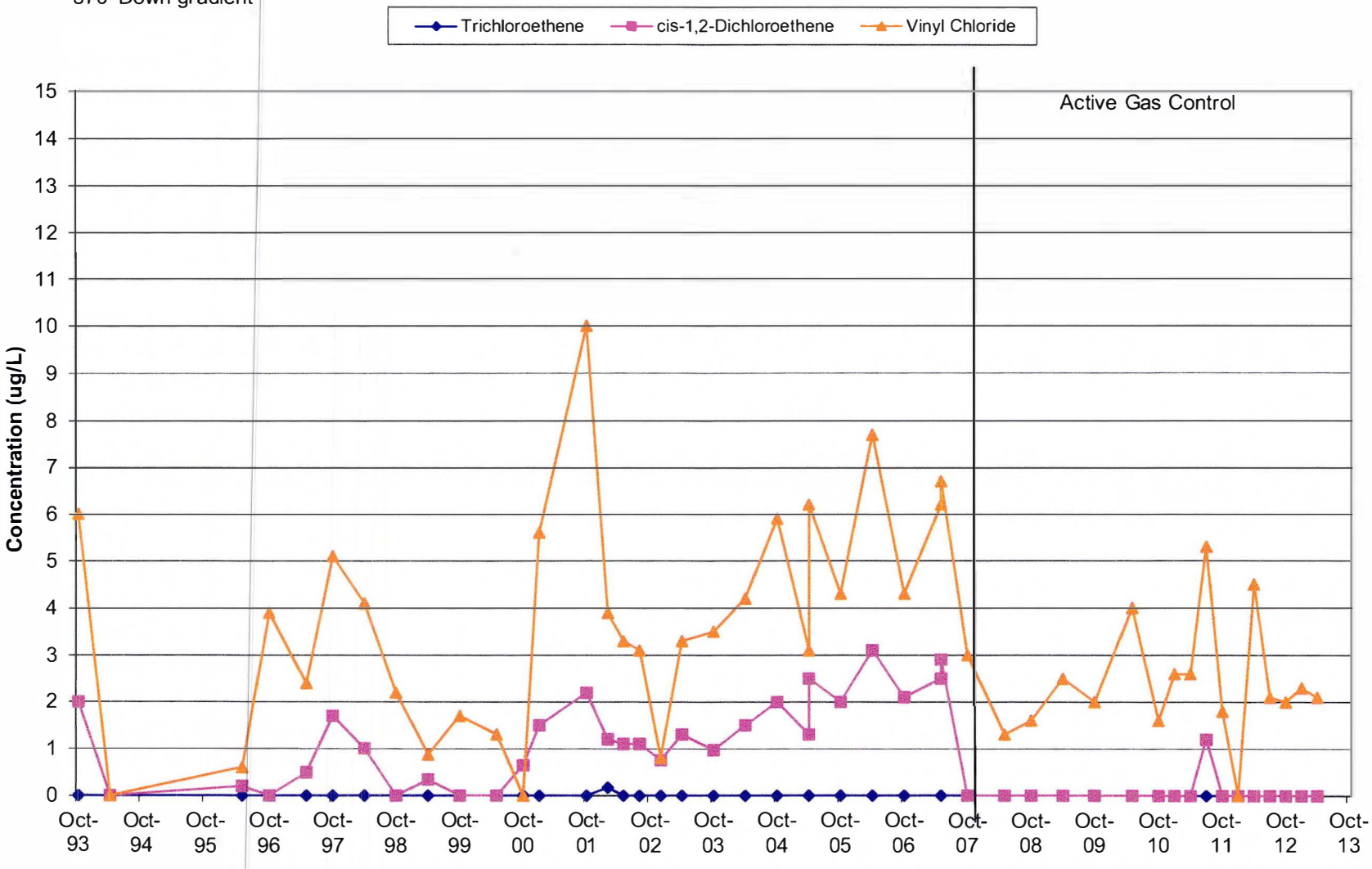
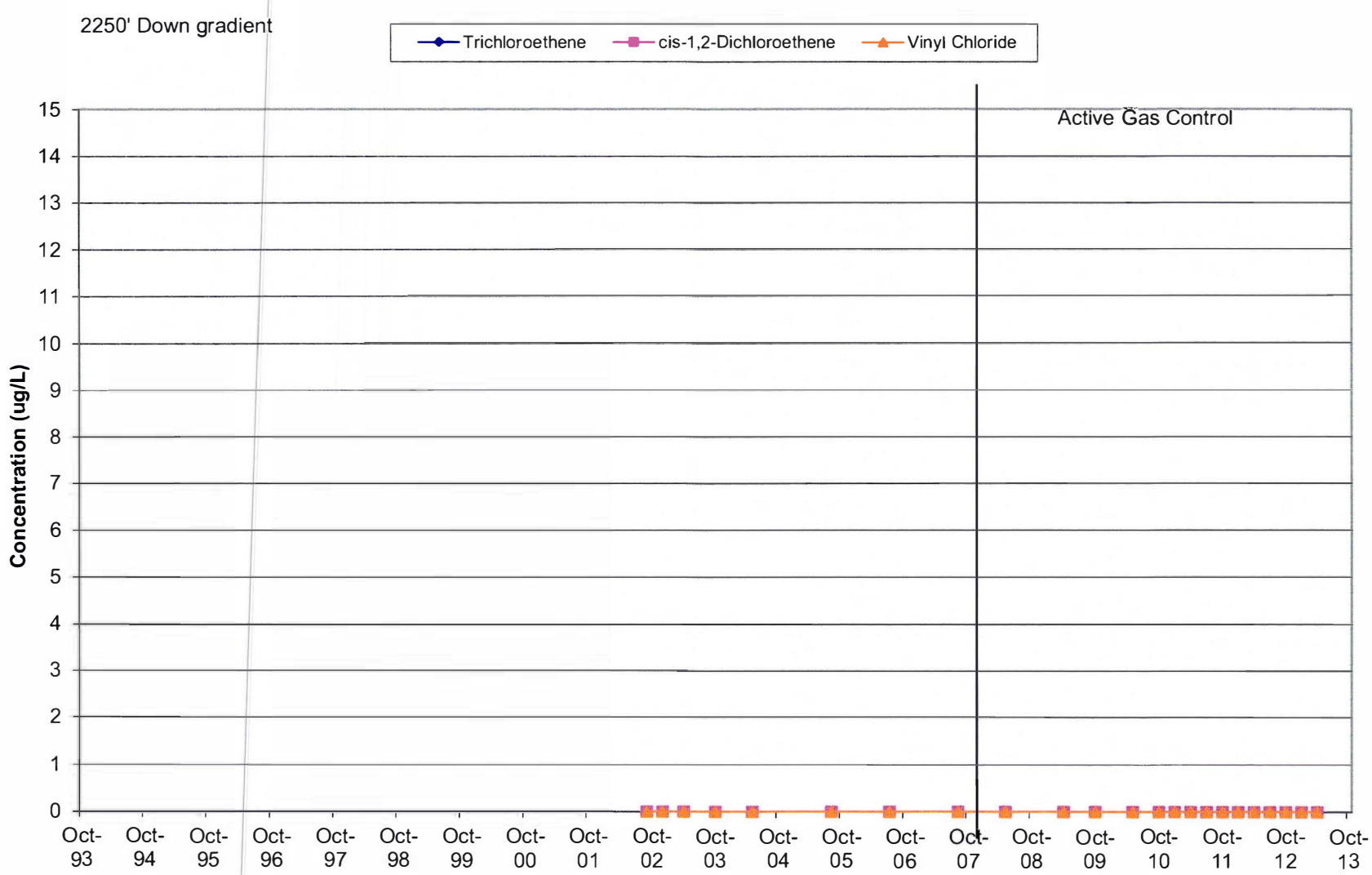


Chart 62: P-113A
Layer 4 Well



APPENDICES

APPENDIX A
STRATIGRAPHIC LAYERS OF WELLS

Stratigraphic Groupings of Monitoring Wells
FF/NN Landfill, Ripon, WI

Layer	Well ID	Well Screen Elevation (ft msl)	Lithology at Well Screen
Layer 1 Wells	MW-106	821.0	sand
	MW-101	820.4	sand
	MW-104	819.3	sand & gravel
	MW-102	818.9	sand & gravel
	MW-103	818.7	sand
	MW-107	816.5	sand
	MW-108	814.9	sand
	MW-112	814.1	sand
	MW-111	812.3	sand
Layer 2 Wells	P-106	791.7	sand
	P-101	790.0	sand
	P-103	789.9	silt
	P-107	785.6	sand
	P-108	783.5	sand
	P-104	782.0	sand
	P-102	781.3	sand
	P-111	774.2	sand
Layer 3 Wells	P-111D	704.0	sand and gravel
	P-103D	682.08	sandstone
	MW-3B	665.0	sandstone
	P-113B	634.2	sandstone
	P-114	654.4	sandstone
	P-115	662.7	sandstone
	P-116	681.3	sandstone
Layer 4 wells	MW-3A	570.0	sandstone
	P-107D	544.0	granite
	P-113A	507.8	sandstone

APPENDIX B
LABORATORY ANALYTICAL RESULTS

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Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

May 14, 2013

Mr. Nelson Olavarria
Eaton Electric Holdings, LLC
600 Travis Street
Suite 5600
Houston, TX 77002

RE: Project: Ripon FF/NN Landfill
Pace Project No.: 3093278

Dear Mr. Olavarria:
Enclosed are the analytical results for sample(s) received by the laboratory on April 30, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

David A. Pichette

david.pichette@pacelabs.com
Project Manager

Enclosures

cc: Mr. Michael Noel, Geotrans, Inc.

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Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: Ripon FF/NN Landfill
Pace Project No.: 3093278

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11888
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750

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Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: Ripon FF/NN Landfill
Pace Project No.: 3093278

Lab ID	Sample ID	Matrix	Date Collected	Date Received
3093278001	P-106	Water	04/24/13 11:25	04/30/13 09:00
3093278002	MW-104	Water	04/24/13 12:25	04/30/13 09:00
3093278003	MW-112	Water	04/24/13 13:25	04/30/13 09:00
3093278004	MW-103	Water	04/24/13 13:50	04/30/13 09:00
3093278005	MW-107	Water	04/24/13 14:30	04/30/13 09:00
3093278006	P-116	Water	04/26/13 09:40	04/30/13 09:00
3093278007	P-114	Water	04/26/13 10:35	04/30/13 09:00
3093278008	P-114 Dup	Water	04/26/13 10:40	04/30/13 09:00
3093278009	P-115	Water	04/26/13 11:25	04/30/13 09:00
3093278010	P-113A	Water	04/26/13 12:35	04/30/13 09:00
3093278011	P-113B	Water	04/26/13 12:55	04/30/13 09:00
3093278012	MW-3A	Water	04/26/13 13:35	04/30/13 09:00
3093278013	MW-3B	Water	04/26/13 13:55	04/30/13 09:00
3093278014	P-111D	Water	04/26/13 14:25	04/30/13 09:00
3093278015	P-111D Dup	Water	04/26/13 14:30	04/30/13 09:00
3093278016	P-107D	Water	04/26/13 15:00	04/30/13 09:00
3093278017	P-107	Water	04/26/13 15:25	04/30/13 09:00
3093278018	P-103D	Water	04/26/13 00:01	04/30/13 09:00
3093278019	P-103	Water	04/26/13 00:01	04/30/13 09:00
3093278020	TB-1	Water	04/24/13 00:01	04/30/13 09:00
3093278021	LC-3	Water	04/24/13 12:35	04/30/13 09:00
3093278022	LC-2	Water	04/24/13 12:45	04/30/13 09:00

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(724)850-5600

SAMPLE ANALYTE COUNT

Project: Ripon FF/NN Landfill
Pace Project No.: 3093278

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3093278001	P-106	EPA 8260	SMT	45	PASI-G
3093278002	MW-104	EPA 8260	SMT	45	PASI-G
3093278003	MW-112	EPA8260	SMT	45	PASI-G
3093278004	MW-103	EPA 8260	SMT	45	PASI-G
3093278005	MW-107	EPA8260	SMT	45	PASI-G
3093278006	P-116	EPA 8260	SMT	45	PASI-G
3093278007	P-114	EPA8260	SMT	45	PASI-G
3093278008	P-114 Dup	EPA8260	SMT	45	PASI-G
3093278009	P-115	EPA 8260	SMT	45	PASI-G
3093278010	P-113A	EPA 8260	SMT	45	PASI-G
3093278011	P-113B	EPA 8260	SMT	45	PASI-G
3093278012	MW-3A	EPA 8260	SMT	45	PASI-G
3093278013	MW-3B	EPA8260	SMT	45	PASI-G
3093278014	P-111D	EPA8260	SMT	45	PASI-G
3093278015	P-111D Dup	EPA 8260	SMT	45	PASI-G
3093278016	P-107D	EPA 8260	SMT	45	PASI-G
3093278017	P-107	EPA8260	SMT	45	PASI-G
3093278018	P-103D	EPA 8260	SMT	45	PASI-G
3093278019	P-103	EPA8260	SMT	45	PASI-G
3093278020	TB-1	EPA8260	HNW	45	PASI-G
3093278021	LC-3	EPA8260	HNW	45	PASI-G
3093278022	LC-2	EPA8260	HNW	45	PASI-G

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Greensburg, PA 15601
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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3093278

Sample: P-106 **Lab ID: 3093278001** Collected: 04/24/13 11:25 Received: 04/30/13 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND	ug/L	20.0	2.6	1		05/03/13 08:46	67-64-1	
Benzene	ND	ug/L	1.0	0.50	1		05/03/13 08:46	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.45	1		05/03/13 08:46	75-27-4	
Bromoform	ND	ug/L	1.0	0.23	1		05/03/13 08:46	75-25-2	
Bromomethane	ND	ug/L	5.0	0.43	1		05/03/13 08:46	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	2.7	1		05/03/13 08:46	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.71	1		05/03/13 08:46	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.37	1		05/03/13 08:46	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.36	1		05/03/13 08:46	108-90-7	
Chloroethane	ND	ug/L	1.0	0.44	1		05/03/13 08:46	75-00-3	
Chloroform	ND	ug/L	5.0	0.69	1		05/03/13 08:46	67-66-3	
Chloromethane	ND	ug/L	1.0	0.39	1		05/03/13 08:46	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1.5	1		05/03/13 08:46	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1.9	1		05/03/13 08:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.38	1		05/03/13 08:46	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.48	1		05/03/13 08:46	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.44	1		05/03/13 08:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.45	1		05/03/13 08:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.43	1		05/03/13 08:46	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.40	1		05/03/13 08:46	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.28	1		05/03/13 08:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.48	1		05/03/13 08:46	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.43	1		05/03/13 08:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.42	1		05/03/13 08:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.37	1		05/03/13 08:46	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.50	1		05/03/13 08:46	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.29	1		05/03/13 08:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/03/13 08:46	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.50	1		05/03/13 08:46	100-41-4	
Methylene Chloride	ND	ug/L	1.0	0.36	1		05/03/13 08:46	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.49	1		05/03/13 08:46	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.5	1		05/03/13 08:46	91-20-3	
Styrene	ND	ug/L	1.0	0.35	1		05/03/13 08:46	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	0.47	1		05/03/13 08:46	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1.5	1		05/03/13 08:46	109-99-9	
Toluene	ND	ug/L	1.0	0.44	1		05/03/13 08:46	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.44	1		05/03/13 08:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.39	1		05/03/13 08:46	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.43	1		05/03/13 08:46	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.48	1		05/03/13 08:46	75-69-4	
Vinyl chloride	ND	ug/L	1.0	0.18	1		05/03/13 08:46	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1.3	1		05/03/13 08:46	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	43-137		1		05/03/13 08:46	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		05/03/13 08:46	1868-53-7	
Toluene-d8 (S)	103	%	55-137		1		05/03/13 08:46	2037-26-5	

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3093278

Sample: MW-104 **Lab ID: 3093278002** Collected: 04/24/13 12:25 Received: 04/30/13 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND	ug/L	20.0	2.6	1		05/03/13 09:08	67-64-1	
Benzene	ND	ug/L	1.0	0.50	1		05/03/13 09:08	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.45	1		05/03/13 09:08	75-27-4	
Bromoform	ND	ug/L	1.0	0.23	1		05/03/13 09:08	75-25-2	
Bromomethane	ND	ug/L	5.0	0.43	1		05/03/13 09:08	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	2.7	1		05/03/13 09:08	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.71	1		05/03/13 09:08	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.37	1		05/03/13 09:08	56-23-5	
Chlorobenzene	**3.0**	ug/L	1.0	0.36	1		05/03/13 09:08	108-90-7	
Chloroethane	ND	ug/L	1.0	0.44	1		05/03/13 09:08	75-00-3	
Chloroform	ND	ug/L	5.0	0.69	1		05/03/13 09:08	67-66-3	
Chloromethane	ND	ug/L	1.0	0.39	1		05/03/13 09:08	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1.5	1		05/03/13 09:08	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1.9	1		05/03/13 09:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.38	1		05/03/13 09:08	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.48	1		05/03/13 09:08	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.44	1		05/03/13 09:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.45	1		05/03/13 09:08	541-73-1	
1,4-Dichlorobenzene	**1.8**	ug/L	1.0	0.43	1		05/03/13 09:08	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.40	1		05/03/13 09:08	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.28	1		05/03/13 09:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.48	1		05/03/13 09:08	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.43	1		05/03/13 09:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.42	1		05/03/13 09:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.37	1		05/03/13 09:08	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.50	1		05/03/13 09:08	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.29	1		05/03/13 09:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/03/13 09:08	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.50	1		05/03/13 09:08	100-41-4	
Methylene Chloride	ND	ug/L	1.0	0.36	1		05/03/13 09:08	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.49	1		05/03/13 09:08	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.5	1		05/03/13 09:08	91-20-3	
Styrene	ND	ug/L	1.0	0.35	1		05/03/13 09:08	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	0.47	1		05/03/13 09:08	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1.5	1		05/03/13 09:08	109-99-9	
Toluene	ND	ug/L	1.0	0.44	1		05/03/13 09:08	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.44	1		05/03/13 09:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.39	1		05/03/13 09:08	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.43	1		05/03/13 09:08	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.48	1		05/03/13 09:08	75-69-4	
Vinyl chloride	ND	ug/L	1.0	0.18	1		05/03/13 09:08	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1.3	1		05/03/13 09:08	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	43-137		1		05/03/13 09:08	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		05/03/13 09:08	1868-53-7	
Toluene-d8 (S)	105	%	55-137		1		05/03/13 09:08	2037-26-5	

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3093278

Sample: MW-112 **Lab ID: 3093278003** Collected: 04/24/13 13:25 Received: 04/30/13 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND	ug/L	20.0	2.6	1		05/03/13 09:30	67-64-1	
Benzene	ND	ug/L	1.0	0.50	1		05/03/13 09:30	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.45	1		05/03/13 09:30	75-27-4	
Bromoform	ND	ug/L	1.0	0.23	1		05/03/13 09:30	75-25-2	
Bromomethane	ND	ug/L	5.0	0.43	1		05/03/13 09:30	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	2.7	1		05/03/13 09:30	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.71	1		05/03/13 09:30	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.37	1		05/03/13 09:30	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.36	1		05/03/13 09:30	108-90-7	
Chloroethane	ND	ug/L	1.0	0.44	1		05/03/13 09:30	75-00-3	
Chloroform	ND	ug/L	5.0	0.69	1		05/03/13 09:30	67-66-3	
Chloromethane	ND	ug/L	1.0	0.39	1		05/03/13 09:30	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1.5	1		05/03/13 09:30	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1.9	1		05/03/13 09:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.38	1		05/03/13 09:30	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.48	1		05/03/13 09:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.44	1		05/03/13 09:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.45	1		05/03/13 09:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.43	1		05/03/13 09:30	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.40	1		05/03/13 09:30	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.28	1		05/03/13 09:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.48	1		05/03/13 09:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.43	1		05/03/13 09:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.42	1		05/03/13 09:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.37	1		05/03/13 09:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.50	1		05/03/13 09:30	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.29	1		05/03/13 09:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/03/13 09:30	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.50	1		05/03/13 09:30	100-41-4	
Methylene Chloride	ND	ug/L	1.0	0.36	1		05/03/13 09:30	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.49	1		05/03/13 09:30	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.5	1		05/03/13 09:30	91-20-3	
Styrene	ND	ug/L	1.0	0.35	1		05/03/13 09:30	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	0.47	1		05/03/13 09:30	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1.5	1		05/03/13 09:30	109-99-9	
Toluene	ND	ug/L	1.0	0.44	1		05/03/13 09:30	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.44	1		05/03/13 09:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.39	1		05/03/13 09:30	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.43	1		05/03/13 09:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.48	1		05/03/13 09:30	75-69-4	
Vinyl chloride	ND	ug/L	1.0	0.18	1		05/03/13 09:30	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1.3	1		05/03/13 09:30	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	43-137		1		05/03/13 09:30	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		05/03/13 09:30	1868-53-7	
Toluene-d8 (S)	104	%	55-137		1		05/03/13 09:30	2037-26-5	

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3093278

Sample: MW-103 **Lab ID: 3093278004** Collected: 04/24/13 13:50 Received: 04/30/13 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND	ug/L	20.0	2.6	1		05/03/13 09:52	67-64-1	
Benzene	ND	ug/L	1.0	0.50	1		05/03/13 09:52	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.45	1		05/03/13 09:52	75-27-4	
Bromoform	ND	ug/L	1.0	0.23	1		05/03/13 09:52	75-25-2	
Bromomethane	ND	ug/L	5.0	0.43	1		05/03/13 09:52	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	2.7	1		05/03/13 09:52	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.71	1		05/03/13 09:52	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.37	1		05/03/13 09:52	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.36	1		05/03/13 09:52	108-90-7	
Chloroethane	ND	ug/L	1.0	0.44	1		05/03/13 09:52	75-00-3	
Chloroform	ND	ug/L	5.0	0.69	1		05/03/13 09:52	67-66-3	
Chloromethane	ND	ug/L	1.0	0.39	1		05/03/13 09:52	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1.5	1		05/03/13 09:52	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1.9	1		05/03/13 09:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.38	1		05/03/13 09:52	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.48	1		05/03/13 09:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.44	1		05/03/13 09:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.45	1		05/03/13 09:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.43	1		05/03/13 09:52	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.40	1		05/03/13 09:52	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.28	1		05/03/13 09:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.48	1		05/03/13 09:52	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.43	1		05/03/13 09:52	75-35-4	
cis-1,2-Dichloroethene	**1.1**	ug/L	1.0	0.42	1		05/03/13 09:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.37	1		05/03/13 09:52	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.50	1		05/03/13 09:52	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.29	1		05/03/13 09:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/03/13 09:52	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.50	1		05/03/13 09:52	100-41-4	
Methylene Chloride	ND	ug/L	1.0	0.36	1		05/03/13 09:52	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.49	1		05/03/13 09:52	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.5	1		05/03/13 09:52	91-20-3	
Styrene	ND	ug/L	1.0	0.35	1		05/03/13 09:52	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	0.47	1		05/03/13 09:52	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1.5	1		05/03/13 09:52	109-99-9	
Toluene	ND	ug/L	1.0	0.44	1		05/03/13 09:52	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.44	1		05/03/13 09:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.39	1		05/03/13 09:52	79-00-5	
Trichloroethene	**1.7**	ug/L	1.0	0.43	1		05/03/13 09:52	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.48	1		05/03/13 09:52	75-69-4	
Vinyl chloride	ND	ug/L	1.0	0.18	1		05/03/13 09:52	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1.3	1		05/03/13 09:52	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	43-137		1		05/03/13 09:52	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		05/03/13 09:52	1868-53-7	
Toluene-d8 (S)	103	%	55-137		1		05/03/13 09:52	2037-26-5	

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3093278

Sample: MW-107 **Lab ID: 3093278005** Collected: 04/24/13 14:30 Received: 04/30/13 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND	ug/L	20.0	2.6	1		05/03/13 10:14	67-64-1	
Benzene	ND	ug/L	1.0	0.50	1		05/03/13 10:14	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.45	1		05/03/13 10:14	75-27-4	
Bromoform	ND	ug/L	1.0	0.23	1		05/03/13 10:14	75-25-2	
Bromomethane	ND	ug/L	5.0	0.43	1		05/03/13 10:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	2.7	1		05/03/13 10:14	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.71	1		05/03/13 10:14	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.37	1		05/03/13 10:14	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.36	1		05/03/13 10:14	108-90-7	
Chloroethane	ND	ug/L	1.0	0.44	1		05/03/13 10:14	75-00-3	
Chloroform	ND	ug/L	5.0	0.69	1		05/03/13 10:14	67-66-3	
Chloromethane	ND	ug/L	1.0	0.39	1		05/03/13 10:14	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1.5	1		05/03/13 10:14	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1.9	1		05/03/13 10:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.38	1		05/03/13 10:14	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.48	1		05/03/13 10:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.44	1		05/03/13 10:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.45	1		05/03/13 10:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.43	1		05/03/13 10:14	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.40	1		05/03/13 10:14	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.28	1		05/03/13 10:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.48	1		05/03/13 10:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.43	1		05/03/13 10:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.42	1		05/03/13 10:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.37	1		05/03/13 10:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.50	1		05/03/13 10:14	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.29	1		05/03/13 10:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/03/13 10:14	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.50	1		05/03/13 10:14	100-41-4	
Methylene Chloride	ND	ug/L	1.0	0.36	1		05/03/13 10:14	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.49	1		05/03/13 10:14	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.5	1		05/03/13 10:14	91-20-3	
Styrene	ND	ug/L	1.0	0.35	1		05/03/13 10:14	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	0.47	1		05/03/13 10:14	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1.5	1		05/03/13 10:14	109-99-9	
Toluene	ND	ug/L	1.0	0.44	1		05/03/13 10:14	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.44	1		05/03/13 10:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.39	1		05/03/13 10:14	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.43	1		05/03/13 10:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.48	1		05/03/13 10:14	75-69-4	
Vinyl chloride	ND	ug/L	1.0	0.18	1		05/03/13 10:14	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1.3	1		05/03/13 10:14	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	103	%	43-137		1		05/03/13 10:14	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		05/03/13 10:14	1868-53-7	
Toluene-d8 (S)	107	%	55-137		1		05/03/13 10:14	2037-26-5	

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3093278

Sample: P-116 **Lab ID: 3093278006** Collected: 04/26/13 09:40 Received: 04/30/13 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA8260								
Acetone	ND	ug/L	20.0	2.6	1		05/03/13 14:39	67-64-1	
Benzene	ND	ug/L	1.0	0.50	1		05/03/13 14:39	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.45	1		05/03/13 14:39	75-27-4	
Bromoform	ND	ug/L	1.0	0.23	1		05/03/13 14:39	75-25-2	
Bromomethane	ND	ug/L	5.0	0.43	1		05/03/13 14:39	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	2.7	1		05/03/13 14:39	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.71	1		05/03/13 14:39	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.37	1		05/03/13 14:39	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.36	1		05/03/13 14:39	108-90-7	
Chloroethane	ND	ug/L	1.0	0.44	1		05/03/13 14:39	75-00-3	
Chloroform	ND	ug/L	5.0	0.69	1		05/03/13 14:39	67-66-3	
Chloromethane	ND	ug/L	1.0	0.39	1		05/03/13 14:39	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1.5	1		05/03/13 14:39	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1.9	1		05/03/13 14:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.38	1		05/03/13 14:39	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.48	1		05/03/13 14:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.44	1		05/03/13 14:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.45	1		05/03/13 14:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.43	1		05/03/13 14:39	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.40	1		05/03/13 14:39	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.28	1		05/03/13 14:39	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.48	1		05/03/13 14:39	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.43	1		05/03/13 14:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.42	1		05/03/13 14:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.37	1		05/03/13 14:39	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.50	1		05/03/13 14:39	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.29	1		05/03/13 14:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/03/13 14:39	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.50	1		05/03/13 14:39	100-41-4	
Methylene Chloride	ND	ug/L	1.0	0.36	1		05/03/13 14:39	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.49	1		05/03/13 14:39	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.5	1		05/03/13 14:39	91-20-3	
Styrene	ND	ug/L	1.0	0.35	1		05/03/13 14:39	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	0.47	1		05/03/13 14:39	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1.5	1		05/03/13 14:39	109-99-9	
Toluene	ND	ug/L	1.0	0.44	1		05/03/13 14:39	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.44	1		05/03/13 14:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.39	1		05/03/13 14:39	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.43	1		05/03/13 14:39	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.48	1		05/03/13 14:39	75-69-4	
Vinyl chloride	ND	ug/L	1.0	0.18	1		05/03/13 14:39	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1.3	1		05/03/13 14:39	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	43-137		1		05/03/13 14:39	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		05/03/13 14:39	1868-53-7	
Toluene-d8 (S)	103	%	55-137		1		05/03/13 14:39	2037-26-5	

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3093278

Sample: P-114 **Lab ID: 3093278007** Collected: 04/26/13 10:35 Received: 04/30/13 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND	ug/L	20.0	2.6	1		05/03/13 10:36	67-64-1	
Benzene	ND	ug/L	1.0	0.50	1		05/03/13 10:36	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.45	1		05/03/13 10:36	75-27-4	
Bromoform	ND	ug/L	1.0	0.23	1		05/03/13 10:36	75-25-2	
Bromomethane	ND	ug/L	5.0	0.43	1		05/03/13 10:36	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	2.7	1		05/03/13 10:36	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.71	1		05/03/13 10:36	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.37	1		05/03/13 10:36	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.36	1		05/03/13 10:36	108-90-7	
Chloroethane	ND	ug/L	1.0	0.44	1		05/03/13 10:36	75-00-3	
Chloroform	ND	ug/L	5.0	0.69	1		05/03/13 10:36	67-66-3	
Chloromethane	ND	ug/L	1.0	0.39	1		05/03/13 10:36	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1.5	1		05/03/13 10:36	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1.9	1		05/03/13 10:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.38	1		05/03/13 10:36	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.48	1		05/03/13 10:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.44	1		05/03/13 10:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.45	1		05/03/13 10:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.43	1		05/03/13 10:36	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.40	1		05/03/13 10:36	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.28	1		05/03/13 10:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.48	1		05/03/13 10:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.43	1		05/03/13 10:36	75-35-4	
cis-1,2-Dichloroethene	**1.2**	ug/L	1.0	0.42	1		05/03/13 10:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.37	1		05/03/13 10:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.50	1		05/03/13 10:36	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.29	1		05/03/13 10:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/03/13 10:36	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.50	1		05/03/13 10:36	100-41-4	
Methylene Chloride	ND	ug/L	1.0	0.36	1		05/03/13 10:36	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.49	1		05/03/13 10:36	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.5	1		05/03/13 10:36	91-20-3	
Styrene	ND	ug/L	1.0	0.35	1		05/03/13 10:36	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	0.47	1		05/03/13 10:36	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1.5	1		05/03/13 10:36	109-99-9	
Toluene	ND	ug/L	1.0	0.44	1		05/03/13 10:36	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.44	1		05/03/13 10:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.39	1		05/03/13 10:36	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.43	1		05/03/13 10:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.48	1		05/03/13 10:36	75-69-4	
Vinyl chloride	**6.5**	ug/L	1.0	0.18	1		05/03/13 10:36	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1.3	1		05/03/13 10:36	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	43-137		1		05/03/13 10:36	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		05/03/13 10:36	1868-53-7	
Toluene-d8 (S)	103	%	55-137		1		05/03/13 10:36	2037-26-5	

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3093278

Sample: P-114 Dup **Lab ID: 3093278008** Collected: 04/26/13 10:40 Received: 04/30/13 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND	ug/L	20.0	2.6	1		05/03/13 15:23	67-64-1	
Benzene	ND	ug/L	1.0	0.50	1		05/03/13 15:23	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.45	1		05/03/13 15:23	75-27-4	
Bromoform	ND	ug/L	1.0	0.23	1		05/03/13 15:23	75-25-2	
Bromomethane	ND	ug/L	5.0	0.43	1		05/03/13 15:23	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	2.7	1		05/03/13 15:23	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.71	1		05/03/13 15:23	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.37	1		05/03/13 15:23	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.36	1		05/03/13 15:23	108-90-7	
Chloroethane	ND	ug/L	1.0	0.44	1		05/03/13 15:23	75-00-3	
Chloroform	ND	ug/L	5.0	0.69	1		05/03/13 15:23	67-66-3	
Chloromethane	ND	ug/L	1.0	0.39	1		05/03/13 15:23	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1.5	1		05/03/13 15:23	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1.9	1		05/03/13 15:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.38	1		05/03/13 15:23	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.48	1		05/03/13 15:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.44	1		05/03/13 15:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.45	1		05/03/13 15:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.43	1		05/03/13 15:23	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.40	1		05/03/13 15:23	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.28	1		05/03/13 15:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.48	1		05/03/13 15:23	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.43	1		05/03/13 15:23	75-35-4	
cis-1,2-Dichloroethene	1.1	ug/L	1.0	0.42	1		05/03/13 15:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.37	1		05/03/13 15:23	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.50	1		05/03/13 15:23	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.29	1		05/03/13 15:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/03/13 15:23	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.50	1		05/03/13 15:23	100-41-4	
Methylene Chloride	ND	ug/L	1.0	0.36	1		05/03/13 15:23	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.49	1		05/03/13 15:23	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.5	1		05/03/13 15:23	91-20-3	
Styrene	ND	ug/L	1.0	0.35	1		05/03/13 15:23	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	0.47	1		05/03/13 15:23	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1.5	1		05/03/13 15:23	109-99-9	
Toluene	ND	ug/L	1.0	0.44	1		05/03/13 15:23	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.44	1		05/03/13 15:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.39	1		05/03/13 15:23	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.43	1		05/03/13 15:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.48	1		05/03/13 15:23	75-69-4	
Vinyl chloride	ND	ug/L	1.0	0.18	1		05/03/13 15:23	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1.3	1		05/03/13 15:23	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	103	%	43-137		1		05/03/13 15:23	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		05/03/13 15:23	1868-53-7	
Toluene-d8 (S)	103	%	55-137		1		05/03/13 15:23	2037-26-5	

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3093278

Sample: P-115 **Lab ID: 3093278009** Collected: 04/26/13 11:25 Received: 04/30/13 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND	ug/L	20.0	2.6	1		05/03/13 10:58	67-64-1	
Benzene	ND	ug/L	1.0	0.50	1		05/03/13 10:58	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.45	1		05/03/13 10:58	75-27-4	
Bromoform	ND	ug/L	1.0	0.23	1		05/03/13 10:58	75-25-2	
Bromomethane	ND	ug/L	5.0	0.43	1		05/03/13 10:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	2.7	1		05/03/13 10:58	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.71	1		05/03/13 10:58	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.37	1		05/03/13 10:58	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.36	1		05/03/13 10:58	108-90-7	
Chloroethane	ND	ug/L	1.0	0.44	1		05/03/13 10:58	75-00-3	
Chloroform	ND	ug/L	5.0	0.69	1		05/03/13 10:58	67-66-3	
Chloromethane	ND	ug/L	1.0	0.39	1		05/03/13 10:58	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1.5	1		05/03/13 10:58	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1.9	1		05/03/13 10:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.38	1		05/03/13 10:58	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.48	1		05/03/13 10:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.44	1		05/03/13 10:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.45	1		05/03/13 10:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.43	1		05/03/13 10:58	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.40	1		05/03/13 10:58	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.28	1		05/03/13 10:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.48	1		05/03/13 10:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.43	1		05/03/13 10:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.42	1		05/03/13 10:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.37	1		05/03/13 10:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.50	1		05/03/13 10:58	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.29	1		05/03/13 10:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/03/13 10:58	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.50	1		05/03/13 10:58	100-41-4	
Methylene Chloride	ND	ug/L	1.0	0.36	1		05/03/13 10:58	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.49	1		05/03/13 10:58	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.5	1		05/03/13 10:58	91-20-3	
Styrene	ND	ug/L	1.0	0.35	1		05/03/13 10:58	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	0.47	1		05/03/13 10:58	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1.5	1		05/03/13 10:58	109-99-9	
Toluene	ND	ug/L	1.0	0.44	1		05/03/13 10:58	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.44	1		05/03/13 10:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.39	1		05/03/13 10:58	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.43	1		05/03/13 10:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.48	1		05/03/13 10:58	75-69-4	
Vinyl chloride	1.1	ug/L	1.0	0.18	1		05/03/13 10:58	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1.3	1		05/03/13 10:58	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	43-137		1		05/03/13 10:58	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		05/03/13 10:58	1868-53-7	
Toluene-d8 (S)	101	%	55-137		1		05/03/13 10:58	2037-26-5	

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Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3093278

Sample: P-113A **Lab ID: 3093278010** Collected: 04/26/13 12:35 Received: 04/30/13 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND	ug/L	20.0	2.6	1		05/03/13 11:21	67-64-1	
Benzene	ND	ug/L	1.0	0.50	1		05/03/13 11:21	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.45	1		05/03/13 11:21	75-27-4	
Bromoform	ND	ug/L	1.0	0.23	1		05/03/13 11:21	75-25-2	
Bromomethane	ND	ug/L	5.0	0.43	1		05/03/13 11:21	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	2.7	1		05/03/13 11:21	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.71	1		05/03/13 11:21	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.37	1		05/03/13 11:21	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.36	1		05/03/13 11:21	108-90-7	
Chloroethane	ND	ug/L	1.0	0.44	1		05/03/13 11:21	75-00-3	
Chloroform	ND	ug/L	5.0	0.69	1		05/03/13 11:21	67-66-3	
Chloromethane	ND	ug/L	1.0	0.39	1		05/03/13 11:21	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1.5	1		05/03/13 11:21	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1.9	1		05/03/13 11:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.38	1		05/03/13 11:21	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.48	1		05/03/13 11:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.44	1		05/03/13 11:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.45	1		05/03/13 11:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.43	1		05/03/13 11:21	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.40	1		05/03/13 11:21	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.28	1		05/03/13 11:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.48	1		05/03/13 11:21	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.43	1		05/03/13 11:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.42	1		05/03/13 11:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.37	1		05/03/13 11:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.50	1		05/03/13 11:21	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.29	1		05/03/13 11:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/03/13 11:21	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.50	1		05/03/13 11:21	100-41-4	
Methylene Chloride	ND	ug/L	1.0	0.36	1		05/03/13 11:21	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.49	1		05/03/13 11:21	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.5	1		05/03/13 11:21	91-20-3	
Styrene	ND	ug/L	1.0	0.35	1		05/03/13 11:21	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	0.47	1		05/03/13 11:21	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1.5	1		05/03/13 11:21	109-99-9	
Toluene	ND	ug/L	1.0	0.44	1		05/03/13 11:21	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.44	1		05/03/13 11:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.39	1		05/03/13 11:21	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.43	1		05/03/13 11:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.48	1		05/03/13 11:21	75-69-4	
Vinyl chloride	ND	ug/L	1.0	0.18	1		05/03/13 11:21	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1.3	1		05/03/13 11:21	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	43-137		1		05/03/13 11:21	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		05/03/13 11:21	1868-53-7	
Toluene-d8 (S)	103	%	55-137		1		05/03/13 11:21	2037-26-5	

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3093278

Sample: P-113B **Lab ID: 3093278011** Collected: 04/26/13 12:55 Received: 04/30/13 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND	ug/L	20.0	2.6	1		05/03/13 11:43	67-64-1	
Benzene	ND	ug/L	1.0	0.50	1		05/03/13 11:43	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.45	1		05/03/13 11:43	75-27-4	
Bromoform	ND	ug/L	1.0	0.23	1		05/03/13 11:43	75-25-2	
Bromomethane	ND	ug/L	5.0	0.43	1		05/03/13 11:43	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	2.7	1		05/03/13 11:43	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.71	1		05/03/13 11:43	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.37	1		05/03/13 11:43	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.36	1		05/03/13 11:43	108-90-7	
Chloroethane	ND	ug/L	1.0	0.44	1		05/03/13 11:43	75-00-3	
Chloroform	ND	ug/L	5.0	0.69	1		05/03/13 11:43	67-66-3	
Chloromethane	ND	ug/L	1.0	0.39	1		05/03/13 11:43	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1.5	1		05/03/13 11:43	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1.9	1		05/03/13 11:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.38	1		05/03/13 11:43	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.48	1		05/03/13 11:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.44	1		05/03/13 11:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.45	1		05/03/13 11:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.43	1		05/03/13 11:43	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.40	1		05/03/13 11:43	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.28	1		05/03/13 11:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.48	1		05/03/13 11:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.43	1		05/03/13 11:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.42	1		05/03/13 11:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.37	1		05/03/13 11:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.50	1		05/03/13 11:43	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.29	1		05/03/13 11:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/03/13 11:43	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.50	1		05/03/13 11:43	100-41-4	
Methylene Chloride	ND	ug/L	1.0	0.36	1		05/03/13 11:43	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.49	1		05/03/13 11:43	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.5	1		05/03/13 11:43	91-20-3	
Styrene	ND	ug/L	1.0	0.35	1		05/03/13 11:43	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	0.47	1		05/03/13 11:43	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1.5	1		05/03/13 11:43	109-99-9	
Toluene	ND	ug/L	1.0	0.44	1		05/03/13 11:43	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.44	1		05/03/13 11:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.39	1		05/03/13 11:43	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.43	1		05/03/13 11:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.48	1		05/03/13 11:43	75-69-4	
Vinyl chloride	ND	ug/L	1.0	0.18	1		05/03/13 11:43	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1.3	1		05/03/13 11:43	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	43-137		1		05/03/13 11:43	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		05/03/13 11:43	1868-53-7	
Toluene-d8 (S)	101	%	55-137		1		05/03/13 11:43	2037-26-5	

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ANALYTICAL RESULTS: VOC's by EPA 524.2, Rev 4.1 - Water - Extended (Saturn 3)

Customer: Pace Analytical Services Inc (GB) **NLS Project: 196201**

Project Description: 4077021 - 117-2202040.19

Project Title: Ripon FF/NN/LF **Template: SAT3PACE Printed: 05/14/2013 17:02**

Sample: 716874 Baneck/Perry/Watkins Collected: 04/26/13 Analyzed: 05/10/13 - Analytes: 63

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	MCL	Note
Benzene	ND	ug/L	1	0.17	0.60		
Bromobenzene	ND	ug/L	1	0.18	0.64		
Bromochloromethane	ND	ug/L	1	0.16	0.55		
Bromodichloromethane	ND	ug/L	1	0.18	0.64		
Bromoform	ND	ug/L	1	0.17	0.60		
Bromomethane	ND	ug/L	1	0.36	1.3		
n-Butylbenzene	ND	ug/L	1	0.22	0.77		
sec-Butylbenzene	ND	ug/L	1	0.16	0.57		
tert-Butylbenzene	ND	ug/L	1	0.12	0.42		
Carbon Tetrachloride	ND	ug/L	1	0.24	0.85		
Chlorobenzene	ND	ug/L	1	0.19	0.69		
Chloroethane	ND	ug/L	1	1.3	4.6		
Chloroform	ND	ug/L	1	0.20	0.70		
Chloromethane	ND	ug/L	1	0.14	0.51		
2-Chlorotoluene	ND	ug/L	1	0.15	0.55		
4-Chlorotoluene	ND	ug/L	1	0.19	0.66		
Dibromochloromethane	ND	ug/L	1	0.15	0.53		
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.12	0.42		
1,2-Dibromoethane	ND	ug/L	1	0.11	0.38		
Dibromomethane	ND	ug/L	1	0.21	0.75		
1,2-Dichlorobenzene	ND	ug/L	1	0.17	0.61		
1,3-Dichlorobenzene	ND	ug/L	1	0.20	0.71		
1,4-Dichlorobenzene	ND	ug/L	1	0.14	0.47		
Dichlorodifluoromethane	ND	ug/L	1	0.23	0.81		
1,1-Dichloroethane	ND	ug/L	1	0.20	0.68		
1,2-Dichloroethane	ND	ug/L	1	0.23	0.80		
1,1-Dichloroethene	ND	ug/L	1	0.21	0.75		
cis-1,2-Dichloroethene	ND	ug/L	1	0.13	0.47		
trans-1,2-Dichloroethene	ND	ug/L	1	0.16	0.55		
1,2-Dichloropropane	ND	ug/L	1	0.26	0.92		
1,3-Dichloropropane	ND	ug/L	1	0.26	0.91		
2,2-Dichloropropane	ND	ug/L	1	0.17	0.62		
1,1-Dichloropropene	ND	ug/L	1	0.16	0.55		
cis-1,3-Dichloropropene	ND	ug/L	1	0.16	0.55		
trans-1,3-Dichloropropene	ND	ug/L	1	0.19	0.68		
Ethylbenzene	ND	ug/L	1	0.15	0.51		
Hexachlorobutadiene	ND	ug/L	1	0.20	0.71		
Isopropylbenzene	ND	ug/L	1	0.19	0.65		
p-Isopropyltoluene	ND	ug/L	1	0.19	0.66		
Methylene chloride	[0.26]	ug/L	1	0.17	0.61		
Naphthalene	ND	ug/L	1	0.20	0.71		
n-Propylbenzene	ND	ug/L	1	0.16	0.58		
ortho-Xylene	ND	ug/L	1	0.15	0.55		
Styrene	ND	ug/L	1	0.20	0.68		
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.17	0.59		
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.15	0.55		
Tetrachloroethene	ND	ug/L	1	0.18	0.62		
Toluene	ND	ug/L	1	0.14	0.48		
1,2,3-Trichlorobenzene	ND	ug/L	1	0.24	0.86		
1,2,4-Trichlorobenzene	ND	ug/L	1	0.15	0.51		
1,1,1-Trichloroethane	ND	ug/L	1	0.11	0.37		
1,1,2-Trichloroethane	ND	ug/L	1	0.22	0.78		
Trichloroethene	ND	ug/L	1	0.19	0.66		

ANALYTICAL RESULTS: VOC's by EPA 524.2, Rev 4.1 - Water - Extended (Saturn 3)
Customer: Pace Analytical Services Inc (GB) **NLS Project: 196201**
Project Description: 4077021 - 117-2202040.19
Project Title: Ripon FF/NN/LF **Template: SAT3PACE** **Printed: 05/14/2013 17:02**

Sample: 716874 Baneck/Perry/Watkins Collected: 04/26/13 Analyzed: 05/10/13 - Analytes: 63

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	MCL	Note
Trichlorofluoromethane	ND	ug/L	1	0.13	0.46		
1,2,3-Trichloropropane	ND	ug/L	1	0.25	0.87		
1,2,4-Trimethylbenzene	ND	ug/L	1	0.20	0.69		
1,3,5-Trimethylbenzene	ND	ug/L	1	0.19	0.66		
Vinyl chloride	ND	ug/L	1	0.19	0.67		
meta,para-Xylene	ND	ug/L	1	0.37	1.3		
MTBE	ND	ug/L	1	0.23	0.83		
Acetone	ND	ug/L	1	4.2	12		
Carbon disulfide	0.68	ug/L	1	0.17	0.61		
Methyl ethyl ketone	ND	ug/L	1	1.4	4.8		
4-Bromofluorobenzene (SURR)	107%						S
1,2-Dichlorobenzene - d4 (SURR)	113%						S

NOTES APPLICABLE TO THIS ANALYSIS:
S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by EPA 524.2, Rev 4.1 - Water - Extended (Saturn 3)
Customer: Pace Analytical Services Inc (GB) **NLS Project: 196201**
Project Description: 4077021 - 117-2202040.19
Project Title: Ripon FF/NN/LF **Template: SAT3PACE Printed: 05/14/2013 17:02**

Sample: 716875 TB-2 Collected: 04/26/13 Analyzed: 05/10/13 - Analytes: 63

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Benzene	ND	ug/L	1	0.17	0.60	
Bromobenzene	ND	ug/L	1	0.18	0.64	
Bromochloromethane	ND	ug/L	1	0.16	0.55	
Bromodichloromethane	ND	ug/L	1	0.18	0.64	
Bromoform	ND	ug/L	1	0.17	0.60	
Bromomethane	ND	ug/L	1	0.36	1.3	
n-Butylbenzene	ND	ug/L	1	0.22	0.77	
sec-Butylbenzene	ND	ug/L	1	0.16	0.57	
tert-Butylbenzene	ND	ug/L	1	0.12	0.42	
Carbon Tetrachloride	ND	ug/L	1	0.24	0.85	
Chlorobenzene	ND	ug/L	1	0.19	0.69	
Chloroethane	ND	ug/L	1	1.3	4.6	
Chloroform	ND	ug/L	1	0.20	0.70	
Chloromethane	ND	ug/L	1	0.14	0.51	
2-Chlorotoluene	ND	ug/L	1	0.15	0.55	
4-Chlorotoluene	ND	ug/L	1	0.19	0.66	
Dibromochloromethane	ND	ug/L	1	0.15	0.53	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.12	0.42	
1,2-Dibromoethane	ND	ug/L	1	0.11	0.38	
Dibromomethane	ND	ug/L	1	0.21	0.75	
1,2-Dichlorobenzene	ND	ug/L	1	0.17	0.61	
1,3-Dichlorobenzene	ND	ug/L	1	0.20	0.71	
1,4-Dichlorobenzene	ND	ug/L	1	0.14	0.47	
Dichlorodifluoromethane	ND	ug/L	1	0.23	0.81	
1,1-Dichloroethane	ND	ug/L	1	0.20	0.68	
1,2-Dichloroethane	ND	ug/L	1	0.23	0.80	
1,1-Dichloroethene	ND	ug/L	1	0.21	0.75	
cis-1,2-Dichloroethene	ND	ug/L	1	0.13	0.47	
trans-1,2-Dichloroethene	ND	ug/L	1	0.16	0.55	
1,2-Dichloropropane	ND	ug/L	1	0.26	0.92	
1,3-Dichloropropane	ND	ug/L	1	0.26	0.91	
2,2-Dichloropropane	ND	ug/L	1	0.17	0.62	
1,1-Dichloropropene	ND	ug/L	1	0.16	0.55	
cis-1,3-Dichloropropene	ND	ug/L	1	0.16	0.55	
trans-1,3-Dichloropropene	ND	ug/L	1	0.19	0.68	
Ethylbenzene	ND	ug/L	1	0.15	0.51	
Hexachlorobutadiene	ND	ug/L	1	0.20	0.71	
Isopropylbenzene	ND	ug/L	1	0.19	0.65	
p-Isopropyltoluene	ND	ug/L	1	0.19	0.66	
Methylene chloride	ND	ug/L	1	0.17	0.61	
Naphthalene	ND	ug/L	1	0.20	0.71	
n-Propylbenzene	ND	ug/L	1	0.16	0.58	
ortho-Xylene	ND	ug/L	1	0.15	0.55	
Styrene	ND	ug/L	1	0.20	0.68	
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.17	0.59	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.15	0.55	
Tetrachloroethene	ND	ug/L	1	0.18	0.62	
Toluene	ND	ug/L	1	0.14	0.48	
1,2,3-Trichlorobenzene	ND	ug/L	1	0.24	0.86	
1,2,4-Trichlorobenzene	ND	ug/L	1	0.15	0.51	
1,1,1-Trichloroethane	ND	ug/L	1	0.11	0.37	
1,1,2-Trichloroethane	ND	ug/L	1	0.22	0.78	
Trichloroethene	ND	ug/L	1	0.19	0.66	

ANALYTICAL RESULTS: VOC's by EPA 524.2, Rev 4.1 - Water - Extended (Saturn 3)
Customer: Pace Analytical Services Inc (GB) **NLS Project: 196201**
Project Description: 4077021 - 117-2202040.19
Project Title: Ripon FF/NN/LF **Template: SAT3PACE** **Printed: 05/14/2013 17:02**

Sample: 716875 TB-2 Collected: 04/26/13 Analyzed: 05/10/13 - Analytes: 63

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Trichlorofluoromethane	ND	ug/L	1	0.13	0.46	
1,2,3-Trichloropropane	ND	ug/L	1	0.25	0.87	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.20	0.69	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.19	0.66	
Vinyl chloride	ND	ug/L	1	0.19	0.67	
meta,para-Xylene	ND	ug/L	1	0.37	1.3	
MTBE	ND	ug/L	1	0.23	0.83	
Acetone	[5.3]	ug/L	1	4.2	12	
Carbon disulfide	ND	ug/L	1	0.17	0.61	
Methyl ethyl ketone	ND	ug/L	1	1.4	4.8	
4-Bromofluorobenzene (SURR)	105%					S
1,2-Dichlorobenzene - d4 (SURR)	111%					S

NOTES APPLICABLE TO THIS ANALYSIS:
S = This compound is a surrogate used to evaluate the quality control of a method.
Not NLS vials or trip blank.

Chain of Custody

Pace Analytical®
www.pacelabs.com

Workorder: 4077021 **Workorder Name:** 117-2202040.19 RIPON FF/NN LF **Results Requested** 5/14/2013

Report / Invoice To	Subcontract To	Requested Analysis
Cindy Varga Pace Analytical Green Bay 1241 Bellevue Street Suite 9 Green Bay, WI 54302 Phone (920)469-2436 Email: cindy.varga@pacelabs.com	NLS P.O._____	524.2

					Preserved Containers							
Item	Sample ID	Collect Date/Time	Lab ID	Matrix	HCl	Unpreserved						LAB USE ONLY
1	ROHDE 716872	4/26/2013 11:50	4077021001	Water	3						X	
2	GAASTRA 873	4/26/2013 10:30	4077021002	Water	3						X	
3	BANECK/PERRY/WATKINS 874	4/26/2013 09:45	4077021003	Water	3						X	
4	TB-2 875	4/26/2013 00:00	4077021004	Water	2						X	
5												

Transfers	Released By	Date/Time	Received By	Date/Time
1	K. G - Pace GB	4/30/13 1736	Walt Go	
2			Julie Braun	5/1/13 1215
3				

Comments

Need GEMS File

Cooler Temperature on Receipt 2.5 °C | **Custody Seal** Y or N | **Received on Ice** (Y) or N | **Samples Intact** Y or N

Table 2. Groundwater VOC Analytical Results for Monitoring Wells
FF/NN Landfill, Ripon, WI

Sampling Point	Collection Date	Parameters																									
		Acetone[1]	Benzene	Bromomethane	2-Butanone (MEK)	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	1,4-dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-dichloroethane	1,1-Dichloroethene	cis-1,2-dichloroethene	trans-1,2-Dichloroethene	1,2-dichloropropane	Ethylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Total Xylenes
WDNR	PAL	200	0.5	1	90	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	0.5	12	0.5	10	200	0.5	NE	0.02	1000
NR140	ES	1000	5	10	460	NE	400	6	3	75	1000	850	5	7	70	100	5	700	5	60	5	50	1000	5	NE	0.2	10000
MW-3A	04/04/2002	NR			NA																						
	05/22/2002	NR			NA																						
	08/20/02	NR																									
	12/05/02	NR																									
	04/22/03																										
	10/22/03																										
	05/11/04																										
	10/14/04																										
	01/27/05																										
	04/26/2005																										
	08/02/05																										
	10/26/05																										
	01/31/2006																										
	04/24/06																										
	07/27/06								0.35 J																		
	10/31/06																										
	01/31/07																										
	5/1/2007																										
	8/8/2007																										
	10/19/2007																										
	5/6/2008																										
	10/1/2008																										
	4/7/2009																		0.56J								
	10/28/2009																										
	5/24/2010																										
	10/5/2010																		0.49J								
	1/24/2011																										
	4/13/2011																										
	7/12/2011																		0.63J								
	10/19/2011								0.66J																		
	1/23/2012																										
	4/4/2012																										
	7/25/2012																										
	10/16/2012																										
	1/15/2013																										
	4/26/2013																										
MW-3B	04/04/2002	NR			NA																		0.38			0.31	
	05/22/2002	NR			NA																	NA					
	8/20/2002	NR																				NA					
	12/5/2002	NR																									
	4/22/2003																										
	10/22/2003																										
	5/11/2004																									0.2 J	
	07/22/2004																										
	10/14/2004																										
	1/27/2005																										
	4/26/2005																										
	8/2/2005																									0.30 J	
	10/26/2005																									0.39 J	
	01/31/2006																										
	4/24/2006																										
	7/27/2006								0.45 J																		
	10/31/2006																										
	1/31/2007																										
	5/1/2007																										
	8/8/2007																										
	10/19/2007																										
	5/6/2008														1.3											5.4	
	10/1/2008																										
	4/7/2009																										
	10/28/2009								0.42J																		
	5/24/2010																										
	10/5/2010																										
	1/24/2011																										
	4/13/2011																										
	7/12/2011																		0.81J								
	10/19/2011																										
	1/23/2012																										
	4/4/2012																										
	7/25/2012																										
	10/16/2012																										
	1/15/2013																										
	4/26/2013																										

Table 2. Groundwater VOC Analytical Results for Monitoring Wells
FF/NN Landfill, Ripon, WI

Sampling Point	Collection Date	Parameters																								
		Acetone[1]	Benzene	Bromomethane	2-Butanone (MEK)	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	1,4-dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-dichloroethane	1,1-Dichloroethene	cis-1,2-dichloroethene	trans-1,2-Dichloroethene	1,2-dichloropropane	Ethylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	0.5	12	0.5	10	200	0.5	NE	0.02	1000
	ES	1000	5	10	460	NE	400	6	3	75	1000	850	5	7	70	100	5	700	5	60	5	50	1000	5	NE	0.2	10000
MW-101	10/1/1993	NR																			0.7 J						
	04/1/1994	NR																			0.6J						
	05/01/1996	NR																			0.6J						
	10/01/1996	NR							0.89 J												0.72 J						
	05/01/1997	NR																									
	10/01/1997	NR																			0.7						
	04/98*	NR																									
	10/01/1998	NR																									
	04/01/1999	NR																									
	10/01/1999	NR																			0.7						
	05/01/2000	NR																			0.32						
	10/01/2000	NR																			0.38						
	05/01/2002	NR																			0.28						
	10/11/2001	NR																									
	02/05/2002	NR			NA						0.19										0.32	NA		0.16			
	05/21/02 *		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	8/19/02 *		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/5/02 *		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4/21/03 *		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/23/2003																										
	4/28/2004																										
	10/13/2004	11																									
	4/27/2005																										
	4/28/2006	18																									
	11/1/2006*		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/1/2007																										
	5/1/2007	2.4																									
	5/6/2008																										
	4/8/2009																										
	10/29/2009																										
	5/25/2010																										
	10/4/2010																		0.44J								
	1/26/2011																										
	4/11/2011																										
	4/3/2012																										
P-101	10/01/1993	NR																									
	04/01/94	NR																					0.5J				
	020/5/02	NR			NA																	NA					
	05/22/2002	NR			NA																	NA					
	10/13/2004																										
	4/27/2005																										
	10/25/2005																										
	4/28/2006																										
	11/1/2006																										
	5/1/2007																										
	5/6/2008																										
	4/8/2009																										
	11/4/2009								0.75J																		
	5/25/2010																										
	10/4/2010																		0.44J								
	1/26/2011																										
	4/11/2011																										
	4/3/2012																										

Table 2. Groundwater VOC Analytical Results for Monitoring Wells
FF/NN Landfill, Ripon, WI

		Parameters																								
Sampling Point	Collection Date	Acetone[1]	Benzene	Bromomethane	2-Butanone (MEK)	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	1,4-dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-dichloroethane	1,1-Dichloroethene	cis-1,2-dichloroethene	trans-1,2-Dichloroethene	1,2-dichloropropane	Ethylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	0.5	12	0.5	10	200	0.5	NE	0.02	1000
	ES	1000	5	10	460	NE	400	6	3	75	1000	850	5	7	70	100	5	700	5	60	5	50	1000	5	NE	0.2	10000
MW-102	10/26/1993	NR																									
	04/11/1994	NR																					3				
	05/08/1996	NR																					0.4J				
	10/30/1996	NR							0.99 J												0.30J						
	05/12/1997	NR																									
	10/26/1997	NR																									
	04/13/1998	NR													0.46												
	10/11/2001	NR																									
	05/21/02 *	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/19/02 *	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/05/02 *	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	07/23/2004																										
	10/14/2004																										
	4/27/2005																										
	10/25/2005																										
	4/25/2006																										
	11/1/2006																										
	5/2/2007																										
	4/30/2008																										
	10/2/2008																										
	4/8/2009																										
	5/20/2010																										
	4/11/2011																										
	4/3/2012																										
P-102	10/26/1993	NR																									
	04/11/1994	NR																									
	10/11/2001	NR																									
	05/21/2002	NR			NA																	NA				0.33J	
	08/20/2002	NR																				NA				0.62	
	12/04/2002	NR																								0.68	
	04/21/2003																		0.48J&							0.83	
	10/22/2003																									0.96	
	04/27/2004																									2.1	
	10/14/2004								0.5 J																	0.32	
	1/27/2005																										
	4/27/2005																										
	8/3/2005																										
	8/3/2005 dup																										
	10/25/2005																										
	2/1/2006																										
	4/27/2006																										
	4/27/2006 dup																										
	7/27/2006								0.66 J																		
	11/1/2006																										
	2/15/2007																										
	5/2/2007																										
	8/14/2007																										
	10/16/2007	2.9 J																									
	5/6/2008																										
	10/2/2008																										
	4/8/2009																										
	11/4/2009																										
	11/4/2009 Dup																										
	5/20/2010																										
	4/11/2011																										
	4/3/2012	9.1 J																									

Table 2. Groundwater VOC Analytical Results for Monitoring Wells
FF/NN Landfill, Ripon, WI

Sampling Point	Collection Date	Parameters																								
		Acetone[1]	Benzene	Bromomethane	2-Butanone (MEK)	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	1,4-dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-dichloroethane	1,1-Dichloroethene	cis-1,2-dichloroethene	trans-1,2-Dichloroethene	1,2-dichloropropane	Ethylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	0.5	12	0.5	10	200	0.5	NE	0.02	1000
	ES	1000	5	10	460	NE	400	6	3	75	1000	850	5	7	70	100	5	700	5	60	5	50	1000	5	NE	0.2	10000
MW-103[2]	10/27/1993	NR													410											75	
	04/11/1994	NR													1100											440	
	04/01/94 Dup	NR													970											410	
	05/01/1996	NR				7J									740	9J								10J		170	
	05/01/96 Dup	NR				8J			9 J						840	10J								11J		180	
	10/01/1996	NR	3.3			8.1 J	1.9		1.1	0.76 J		0.99 J		0.30 J	520 E	5	1.9							4.7		98 E	
	05/01/1997	NR	4.3			8.5	2.7			0.98		1.2	0.52	0.75	790	4.7	1.6			0.27				5.6		230	
	10/01/1997	NR	4.2			7.9	2.4			1.4		0.89	0.38		550J	5.2	1.5			0.38		3.1		6.6		220J	
	04/98*	NR																									
	10/01/1998	NR	2			5.7									260	3.3								5.8		45	
	04/01/1999	NR	1.4			4.7									150	2.4								3.9		47	
	10/01/1999	NR				5.2									170	2.6								2.4		48	
	05/01/2000	NR	1.8			6.5									170	3.4								4.1		60	
	10/01/2000	NR	1.6			6.9	3.1			0.84		0.33			130	4.5	0.75							6.6		78	
	05/01/2001	NR	1.2			5.7	1.5			0.92					94	3.4	0.54		2.6L			1.1		4.5		46	
	10/11/2001	NR	1.1		80	2.6	0.62			0.54					25	2.7			6.4L				0.8			15	
	2/4/2002	NR	1.8		NA	6.4	1.1			0.81		0.36			71	5.5	0.53		0.28		0.13	NA	0.72	3.1		40	
	5/21/2002*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	8/19/02 *	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/05/02 *	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	04/21/03 *	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/21/2003		0.8			1.3									58	1.9								1.7		21	
	04/28/2004		0.61 J		26	0.53 J									16									1.9		6.7	
	10/13/2004	56	1.4			1.7			0.52						12	2.5							0.89	0.78		7.9	
	4/26/2005		1.2			2.8									1.9	3.0							0.71			1.8	
	4/25/2006	31			8.0 J	0.62 J									5.2									0.48 J		1.8	
	10/31/2006*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/1/2007				6.1J										10									0.82J		0.34	
	5/2/2007					1.7									14									1.7		0.75	
	10/18/2007														26									2.8		2.2	
	5/5/2008					0.63J									15.7									3.4			
	10/2/2008					0.43J									12.3									3.8			
	4/7/2009														7.7									3.1			
	10/28/2009														4.6									2.4			
	2/25/2010														2.9									2.1			
	5/24/2010														4									2.1			
	10/4/2010														3.5				0.73J					2.4			
	1/26/2011														2.9									2.7			
	4/11/2011														2.7									2.1			
	7/11/2011														4.2				0.74J					2.3			
	10/19/2011														4.3									3			
	1/24/2012														3.2									2.6			
	4/3/2012														2.9									2.3			
	4/3/2012 Dup														3.3									2.4			
	7/25/2012														2									2.2			
	10/17/2012														2.1									1.7			
	1/16/2013														1.7									2.3			
	4/24/2013														1.1									1.7			

Table 2. Groundwater VOC Analytical Results for Monitoring Wells
FF/NN Landfill, Ripon, WI

Sampling Point	Collection Date	Parameters																									
		Acetone[1]	Benzene	Bromomethane	2-Butanone (MEK)	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	1,4-dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-dichloroethane	1,1-Dichloroethene	cis-1,2-dichloroethene	trans-1,2-Dichloroethene	1,2-dichloropropane	Ethylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	0.5	12	0.5	10	200	0.5	NE	0.02	1000
	ES	1000	5	10	460	NE	400	6	3	75	1000	850	5	7	70	100	5	700	5	60	5	50	1000	5	NE	0.2	10000
P-103	10/27/1993	NR																									
	04/12/1994	NR																									
	05/9/1996	NR													0.1J								0.1J			0.1J	
	10/31/1996	NR							0.84 J																		
	05/13/1997	NR																									
	10/27/1997	NR																									
	04/13/1998	NR																									
	2/4/2002	NR			NA																	NA					
	05/21/2002	NR			NA										[0.54]							NA					
	10/13/2004								0.52 J																	1.7	
	1/26/2005																										
	1/26/2005 dup																										
	4/26/2005																									2.4	
	8/3/2005																									3.2	
	10/26/2005																									3.2	
	02/01/2006																									3.6	
	4/25/2006																									2.9	
	7/28/2006								0.49 J																	1.6	
	11/1/2006																									1.4	
	2/1/2007																									1.5	
	5/2/2007																									1.6	
	8/14/2007																									1.4	
	10/18/2007																									1.2	
	5/5/2008																									0.74	
	5/5/2008 Dup																									0.81	
	10/2/2008																									0.81J	
	10/2/2008 Dup																									0.89J	
	4/7/2009																									0.75J	
	10/28/2009								0.43J																	0.58J	
	2/25/2010								0.52J																	0.49J	
	5/24/2010																										
	10/5/2010																		0.53J							0.41J	
	1/25/2011																									0.34J	
	4/12/2011																									0.39J	
	7/11/2011																										
	10/18/2011																									0.29J	
	1/24/2012																									0.28J	
	4/4/2012																									0.28 J	
	7/25/2012																										
	10/17/2012																										
	1/16/2013																										
	4/26/2013																										
P-103D	02/4/2004				NA														0.55J			NA				1.1	
	05/11/2004																									1.5	
	05/11/04 dup																									1.5	
	07/23/2004																									1.3	
	07/23/04 dup																									1.5	
	10/13/2004								0.43 J						0.86 J												
	04/26/2005														0.84 J											3.0	
	10/26/2005														0.98 J											2.7	
	10/26/2005 dup														0.95 J											2.8	
	4/25/2006																									2.6	
	11/1/2006																									1.9	
	5/2/2007																									1.4	
	10/18/2007																									1.2	
	5/5/2008																									0.69	
	5/5/2008 Dup																									0.66	
	10/2/2008																									1.1	
	10/2/2008 Dup																									1.5	
	4/7/2009																									0.77J	
	4/7/2009 Dup																									0.74J	
	10/28/2009								1.1																	0.75J	
	2/25/2010																									0.64J	
	5/24/2010																										
	10/5/2010																		0.86J							0.71J	
	1/25/2011																										
	4/11/2011																									0.69J	
	7/11/2011																									0.78J	
	10/18/2011																									0.54J	
	1/24/2012																									0.73J	
	4/4/2012	10.7J																								0.98 J	
	7/25/2012																										
	10/17/2012																										
	1/16/2013																										
	4/26/2013																										

Table 2. Groundwater VOC Analytical Results for Monitoring Wells
FF/NN Landfill, Ripon, WI

Sampling Point	Collection Date	Parameters																								
		Acetone[1]	Benzene	Bromomethane	2-Butanone (MEK)	Chlorobenzene	Chloroethane	Chloroform	Chloromethene	1,4-dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-dichloroethane	1,1-Dichloroethene	cis-1,2-dichloroethene	trans-1,2-Dichloroethene	1,2-dichloropropane	Ethylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	0.5	12	0.5	10	200	0.5	NE	0.02	1000
	ES	1000	5	10	460	NE	400	6	3	75	1000	850	5	7	70	100	5	700	5	60	5	50	1000	5	NE	0.2	10000
MW-104	10/27/1993	NR	2			2				2					1 JB								31				
	4/19/1994	NR	1			1				1					10									0.8J		6.0	
	05/9/1996	NR	6			5	1		0.3 J			0.2 J			6	0.3 J		0.1J					0.2J	0.5J		10	
	10/30/1996	NR	0.64 J			1.1	0.34 J		0.46 J						3.6	0.22 J		0.80 J						0.31 J		4.3	0.77 J
	05/12/1997	NR	4.8			4.5	1.5			0.91					1.1					0.32						4.5	
	10/27/1997	NR	0.63			1.3				0.85					7.3											18	
	04/13/1998	NR	1.2												74	0.67							0.46	3.5		17	
	10/13/1998	NR	1.7							0.76					3.3											15	4.1
	04/07/1999	NR	3.2			1.4									6.6									0.71		6.1	
	10/27/1999	NR	3.5			5.4				0.92					4.5											2.8	
	05/2/2000	NR	3			5.7				1.5					0.7								0.13			1.1	
	10/30/2000	NR	2			6.2				1.6					2.6								0.12	0.33		29	
	05/1/2001	NR	2.5			5.6				2	0.47				7				0.51L			0.81	0.13	0.66		8.6	
	10/11/2001	NR	3.1			9.5				2.3				0.85	2				0.39L				0.1			2.2	
	02/5/2002	NR	2.7		NA	8				2	0.19				5.1							NA	0.17	0.73		13	
	05/21/02*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/19/02 *	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/05/02 *	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4/21/2003 *	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	04/22/2003		1.8		6.9J	3.1									4.6											6.5	
	10/23/2003	3.2	4			7.8				1.8					3.3											8.6	
	04/28/2004		2.4			6				2.2J					6.4											8.7	
	10/13/2004		2.5			6.5				2.2J					10											20	
	4/27/2005		1.7			5.4				2.1 J																0.64	
	10/25/2005		1.4			6.9				2.5J					3.9											13	
	4/25/2006		1.4		4.6J	4.9				2.2 J					1.0 J											1.1	
	11/2/2006		1.2J			4.8				1.7 J																	
	11/2/2006 dup		1.3 J			5																					
	5/2/2007		0.8J			4				2.0J																	
	10/18/2007		0.75 J			6				2.0 J																	
	5/6/2008		0.62J			3.3				1.8																	
	10/1/2008		0.52J			3.7				1.9																	
	4/7/2009		0.68J			3.5				2.3																	
	11/4/2009					3.9				1.9																	
	5/20/2010					3.5				2.4																	
	4/11/2011					3.1				1.9																	
	10/19/2011					3.6				2																	
	4/3/2012		0.41J			3.5				1.9																	
	10/17/2012					2.8				1.8																	
	4/24/2013					3				1.8																	
P-104	10/27/1994	NR																									
	04/19/1994	NR																									
	05/09/1996	NR																									
	10/30/1996	NR							0.20J																		
	05/12/1997	NR																									
	10/27/1997	NR																									
	04/13/1998	NR																									
	10/11/2001	NR																	0.52L								
	02/5/2002	NR	0.18		NA				0.85													NA					
	5/21/2002	NR			NA																	NA					
	08/20/2002	NR																				NA					
	10/13/2004								0.45 J																		
	10/13/04 Dup																										
	8/3/2005																										
	8/3/05 Dup																										
	7/28/2006																										
	8/14/2007																										
	5/5/2008																										
	4/7/2009																										
	5/26/2010																										
	4/12/2011																										
	4/3/2012																										

Table 2. Groundwater VOC Analytical Results for Monitoring Wells
FF/NN Landfill, Ripon, WI

		Parameters																								
Sampling Point	Collection Date	Acetone [1]	Benzene	Bromomethane	2-Butanone (MEK)	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	1,4-dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-dichloroethane	1,1-Dichloroethene	cis-1,2-dichloroethene	trans-1,2-Dichloroethene	1,2-dichloropropane	Ethylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	0.5	12	0.5	10	200	0.5	NE	0.02	1000
	ES	1000	5	10	460	NE	400	6	3	75	1000	850	5	7	70	100	5	700	5	60	5	50	1000	5	NE	0.2	10000
MW-106	10/1/1993	NR																									
	04/01/1994	NR																					11				
	02/04/02	NR			NA																	NA	0.25				
	05/21/02 *	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/19/02 *	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	120/5/02 *	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	04/21/03 *	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	07/23/2004																										
	4/27/2005																										
	4/27/05 Dup																										
	7/28/06*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/31/2006*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/15/2007																										
	8/14/2007																										
	4/30/2008																										
	4/8/2009																										
	5/20/2010																										
	4/11/2011																										
	4/3/2012																										
P-106	10/01/1993	NR																						0.6 J			
	01/01/1994	NR																						0.8 J			
	05/01/1996	NR													0.2 J									0.8 J			
	10/01/1996	NR							0.62 J															0.22 J			
	05/01/1997	NR																						0.65			
	10/01/1997	NR																						0.67			
	04/01/1998	NR																						0.61			
	10/01/1998	NR																						0.71			
	04/01/1999	NR																						0.58			
	10/1/1999	NR																						0.61			
	05/01/2000	NR																						0.56			
	10/01/2000	NR																						0.6			
	05/01/2001	NR																						0.56			
	10/11/2001	NR																						0.39			
	2/5/2002	NR			NA																	NA		0.6			
	02/05/02 Dup	NR			NA																	NA		0.6			
	05/22/2002	NR			NA																	NA		0.49			
	05/22/02Dup	NR			NA																	NA		0.47 J			
	08/20/2002	NR																				NA		0.43 J			
	12/4/2002	NR																						0.53			
	04/22/2003																							0.55 J			
	10/21/2003																							0.56			
	10/21/03 Dup																										
	4/27/2004																										
	10/13/2004								0.9															0.84 J			
	4/27/2005																										
	10/25/2005																										
	4/28/2006																										
	11/1/2006																										
	5/1/2007																										
	10/22/2007																										
	4/30/2008																										
	10/1/2008																										
	4/8/2009																										
	4/8/2009 Dup																										
	11/4/2009																										
	5/26/2010																										
	4/12/2011																										
	4/3/2012																										
	4/24/2013																										

Table 2. Groundwater VOC Analytical Results for Monitoring Well
FF/NN Landfill, Ripon, WI

		Parameters																								
Sampling Point	Collection Date	Acetone[1]	Benzene	Bromomethane	2-Butanone (MEK)	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	1,4-dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-dichloroethane	1,1-Dichloroethene	cis-1,2-dichloroethene	trans-1,2-Dichloroethene	1,2-dichloropropane	Ethylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	0.5	12	0.5	10	200	0.5	NE	0.02	1000
	ES	1000	5	10	460	NE	400	6	3	75	1000	850	5	7	70	100	5	700	5	60	5	50	1000	5	NE	0.2	10000
MW-107	10/27/1993	NR																						2			
	4/12/1994	NR																						2			
	5/9/1996	NR																						2			
	10/21/1996	NR							0.80 J															2.2			
	5/13/1997	NR									0.9													2.6			
	10/27/1997	NR									0.7													2			
	4/14/1998	NR																						2.1			
	10/13/98*	NR																						NA			
	4/6/1999	NR																						1.8			
	10/27/1999	NR																						1.1			
	5/2/2000	NR																						1.6			
	10/31/2000	NR																						1.2			
	5/31/2001	NR									0.47								0.57L					1.8			
	10/11/2001	NR																						0.87			
	2/4/2002	NR			NA						0.35											NA		1.4			
	05/21/2002*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	8/19/2002 *	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/5/2002 *	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4/21/2003																		0.52 J					1.2			
	10/21/2003																							2.2			
	4/27/2004																							1.9			
	10/13/2004								0.63 J															0.65 J			
	4/27/2005																							1.1			
	10/27/2005																							0.79 J			
	4/25/2006																		0.49 J					0.55 J			
	10/31/2006																										
	5/1/2007																							0.86			
	10/17/2007																							0.53 J			
	5/5/2008																										
	10/1/2008																										
	4/7/2009																										
	10/28/2009								1.6															0.51J			
	5/24/2010																										
	10/4/2010																		0.70J								
	1/26/2011																										
	4/11/2011																										
	10/18/2011																										
	4/3/2012																										
	10/17/2012																										
	4/24/2013																										

Table 2. Groundwater VOC Analytical Results for Monitoring Wells
FF/NN Landfill, Ripon, WI

Sampling Point	Collection Date	Parameters																								
		Acetone[1]	Benzene	Bromomethane	2-Butanone (MEK)	Chlorobenzene	Chloroethane	Chloroform	Chloromethene	1,4-dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-dichloroethane	1,1-Dichloroethene	cis-1,2-dichloroethene	trans-1,2-Dichloroethene	1,2-dichloropropane	Ethylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	0.5	12	0.5	10	200	0.5	NE	0.02	1000
	ES	1000	5	10	460	NE	400	6	3	75	1000	850	5	7	70	100	5	700	5	60	5	50	1000	5	NE	0.2	10000
P-107	10/27/1993	NR													4											**6**	
	4/12/1994	NR													2								0.7J			**3**	
	4/12/94 Dup	NR													2								0.7J			**3**	
	5/9/1996	NR	0.1 J				0.2 J								2								0.1 J	0.1 J		**2**	
	10/23/1996	NR					0.19		0.79 J						1.9											**2.3**	
	10/23/96 Dup	NR					0.21		0.49 J						2.1											**2.7**	
	5/14/1997	NR													1.3											**2**	
	5/14/97 Dup	NR													1.1											**1.7**	
	10/27/1997	NR													2.2											**2.6**	
	10/27/97 DUP	NR													1.8											**2.3**	
	4/14/1998	NR													2.3											**2.2**	
	4/14/98 Dup	NR													2.3											**2.4**	
	10/14/1998	NR													2.1											**1.5**	
	10/14/98 DUP	NR													2.4											**1.7**	
	4/6/1999	NR													1.5											**0.58**	
	10/27/1999	NR													1.8												
	10/27/99 Dup	NR													1.8												
	5/2/2000	NR													1.5											**1.2**	
	5/02/00 Dup	NR													1.6											**1.2**	
	10/31/2000	NR													1.4												
	10/31/00Dup	NR													1.4												
	5/9/2001	NR													0.96				0.52L			0.72		1.8		**0.85**	
	5/9/2001 Dup	NR													0.97				0.49L			0.79				**0.86**	
	10/11/2001	NR													1.6											**1.7**	
	10/11/01 Dup	NR													1.5											**1.7**	
	2/4/2002	NR			NA										1.6							NA				**1.2**	
	5/21/2002	NR			NA										1.8							NA				**1.5**	
	5/21/02 Dup	NR			NA										1.7							NA				**1.4**	
	8/20/2002	NR													0.84							NA				**0.54J**	
	12/4/2002	NR													1.3											**1**	
	4/21/2003														1.5 J											**1**	
	04/21/2003 Dup														1.3 J												
	10/21/2003														1.3											**0.93**	
	4/27/2004														0.96 J											**0.61**	
	10/13/2004														0.89 J											**0.64**	
	10/13/04 Dup														1.1 J												
	4/27/2005																										
	10/27/2005																										
	4/25/2006																									**0.79**	
	10/31/2006																									**0.33J**	
	5/1/2007																									**0.76**	
	10/19/2007														0.92 J											**1**	
	5/5/2008																									**0.48J**	
	10/1/2008																										
	4/7/2009								0.24J																	**0.88J**	
	10/28/2009								1.6																	**0.64J**	
	5/24/2010																									**1.1**	
	10/5/2010																									**0.94J**	
	1/24/2011																										
	4/12/2011																									**0.84J**	
	10/18/2011																									**0.54J**	
	4/4/2012	10.7 J																								**1.1**	
	10/17/2012																										
	4/26/2013																										

Table 2. Groundwater VOC Analytical Results for Monitoring Wells
FF/NN Landfill, Ripon, WI

		Parameters																								
Sampling Point	Collection Date	Acetone	Benzene	Bromomethane	2-Butanone (MEK)	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	1,4-dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-dichloroethane	1,1-Dichloroethene	cis-1,2-dichloroethene	trans-1,2-Dichloroethene	1,2-dichloropropane	Ethylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	0.5	12	0.5	10	200	0.5	NE	0.02	1000
	ES	1000	5	10	460	NE	400	6	3	75	1000	850	5	7	70	100	5	700	5	60	5	50	1000	5	NE	0.2	10000
P-107D	10/27/1993	NR													2B											6	
	4/13/1994	NR																									
	5/9/1996	NR	0.1J						0.3J						0.2J								0.3J			0.6J	
	10/23/1996	NR							0.44 J																	3.9	
	5/14/1997	NR													0.49											2.4	
	10/27/1997	NR													1.7											5.1	
	4/14/1998	NR													I											4.1	
	10/14/1998	NR																								2.2	
	4/6/1999	NR													0.34											0.87	
	10/27/1999	NR																								1.7	
	5/2/2000	NR																								1.3	
	10/31/2000	NR													0.64												
	01/05/2001	NR		0.33											1.5				0.44L			0.72B				5.6	
	10/11/2001	NR													2.2											10	
	2/4/2002	NR			NA										1.2							NA		0.17		3.9	
	02/04/02 Dup	NR													1.2											3.9	
	5/21/2002	NR			NA										1.1							NA				3.3	
	8/20/2002	NR													1.1							NA				3.1	
	12/4/2002	NR													0.75											0.81	
	4/21/2003														1.3 J											3.3	
	10/21/2003														0.97											3.5	
	4/27/2004														1.5 J											4.2	
	10/13/2004						1.2J		0.93						2.0J											5.9	
	4/27/2005														1.3 J											3.1	
	4/27/05 Dup						1.9J								2.5											6.2	
	10/27/2005						1.2 J								2.0 J											4.3	
	4/25/2006						2.3 J								3.1				0.68 L							7.7	
	10/31/2006						2.0J								2.1 J											4.3	
	5/1/2007						1.6J								2.5J											6.2	
	5/1/2007 Dup						1.6J								2.9											6.7	
	10/19/2007																									3	
	5/5/2008																									1.3	
	10/1/2008																									1.6	
	4/7/2009								0.96J																	2.5	
	10/28/2009																									2	
	2/25/2010								0.25J																	1.8	
	5/24/2010																									4	
	10/5/2010																									1.6	
	1/24/2011																									2.6	
	4/12/2011																									2.6	
	7/11/2011														1.2											5.3	
	10/18/2011																									1.8	
	1/23/2012																										
	4/4/2012																									4.5	
	7/25/2012																									2.1	
	10/17/2012																									2	
	1/16/2013																									2.3	
	4/26/2013																									2.1	

Table 2. Groundwater VOC Analytical Results for Monitoring Wells
FF/NN Landfill, Ripon, WI

		Parameters																								
Sampling Point	Collection Date	Acetone[1]	Benzene	Bromomethane	2-Butanone (MEK)	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	1,4-dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-dichloroethane	1,1-Dichloroethene	cis-1,2-dichloroethene	trans-1,2-Dichloroethene	1,2-dichloropropane	Ethylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	0.5	12	0.5	10	200	0.5	NE	0.02	1000
	ES	1000	5	10	460	NE	400	6	3	75	1000	850	5	7	70	100	5	700	5	60	5	50	1000	5	NE	0.2	10000
MW-108	10/18/1993	NR																					11				
	4/13/1994	NR																					2				
	5/8/1996	NR													0.2 J								0.2 J				
	10/23/1996	NR							0.85 J																		
	5/12/1997	NR																									
	10/27/1997	NR																									
	4/14/1998	NR																									
	10/11/2001	NR																	0.34L								
	05/21/2002*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	8/19/2002 *	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/5/2002	NR																									
	10/14/2004														1.2 J									1.3 J		0.67	
	4/27/2005														1.0									0.7		0.3	
	8/3/2005																							0.70 J			
	10/25/2005																										
	02/01/2006																										
	4/28/2006																										
	7/27/2006								0.36 J																		
	11/2/2006																										
	2/1/2007																										
	5/2/2007																										
	8/14/2007																										
	10/16/2007																										
	5/6/2008	2.7J																									
	10/2/2008																										
	4/8/2009																										
	11/4/2009																										
	11/4/2009 Dup																										
	5/20/2010																										
	5/20/2010 Dup																										
	4/11/2011																										
	4/11/2011 Dup																										
	4/2/2012																										
P-108	10/25/1993	NR																									
	10/25/93 Dup	NR																									
	4/13/1994	NR																									
	4/13/94 Dup	NR																									
	10/11/2001	NR																	0.32L								
	2/5/2002	NR			NA																	NA					
	5/21/2002	NR			NA																	NA					
	10/14/2004								0.45 J																		
	1/28/2005																										
	10/25/2005																										
	7/27/2006								0.75 J																		
	8/14/2007										2.7 J																
	5/6/2008																										
	4/8/2009																										
	5/20/2010																										
	4/11/2011																										
	4/2/2012																										

Table 2. Groundwater VOC Analytical Results for Monitoring Wells
FF/NN Landfill, Ripon, WI

		Parameters																								
Sampling Point	Collection Date	Acetone[1]	Benzene	Bromomethane	2-Butanone (MEK)	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	1,4-dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-dichloroethane	1,1-Dichloroethene	cis-1,2-dichloroethene	trans-1,2-Dichloroetiene	1,2-dichloropropane	Ethylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	0.5	12	0.5	10	200	0.5	NE	0.02	1000
	ES	1000	5	10	460	NE	400	6	3	75	1000	850	5	7	70	100	5	700	5	60	5	50	1000	5	NE	0.2	10000
MW-111	4/19/1994	NR																									
	10/11/2001	NR																	0.30L								
	05/21/2002*	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	8/19/2002	NR																				NA					
	12/5/2002	NR																									
	10/13/2004																										
	10/26/2005																										
	4/24/2006																										
	8/8/2007																										
	5/5/2008																										
	4/7/2009																		0.44J								
	10/28/2009																										
	5/24/2010																										
	10/4/2010																		0.80J								
	1/26/2011																										
	4/11/2011																										
	4/3/2012																										
P-111	4/19/1994	NR																					2				
	10/11/2001	NR																									
	2/5/2002	NR			NA																	NA					
	5/22/2002	NR			NA																	NA					
	8/19/2002	NR																				NA					
	08/19/02 Dup	NR																				NA					
	12/5/2002	NR																									
	12/05/02 Dup	NR																									
	4/22/2003																										
	10/22/2003																										
	4/28/2004																										
	8/3/2005																										
	7/27/2006																										
	8/8/2007																										
	5/5/2008																										
	4/7/2009																										
	10/28/2009																										
	5/24/2010																										
	10/5/2010																										
	1/24/2011																										
	4/13/2011																										
	4/4/2012	10.5 J																									

Table 2. Groundwater VOC Analytical Results for Monitoring Wells
FF/NN Landfill, Ripon, WI

		Parameters																								
Sampling Point	Collection Date	Acetone[1]	Benzene	Bromomethane	2-Butanone (MEK)	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	1,4-dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-dichloroethane	1,1-Dichloroethene	cis-1,2-dichloroethene	trans-1,2-Dichloroethene	1,2-dichloropropane	Ethylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	0.5	12	0.5	10	200	0.5	NE	0.02	1000
	ES	1000	5	10	460	NE	400	6	3	75	1000	850	5	7	70	100	5	700	5	60	5	50	1000	5	NE	0.2	10000
P-111D	4/4/2002	NR													0.6								0.3			13	
	5/22/2002	NR			NA										0.59 J							NA				15	
	8/19/2002	NR													0.37 J							NA				12	
	12/5/2002	NR													0.42 J											11	
	4/23/2003																									12	
	10/23/2003																									9.1	
	5/11/2004						1.4																			15	
	07/23/2004																									14	
	10/13/2004						1.9 J																1.6 J			11	
	1/27/2005																									8.8	
	4/26/2005						3.7								0.87 J											13	
	4/26/05 Dup						3.5																			13	
	8/3/2005								2.9 J						0.96 J											10	
	10/26/2005						3.1 J								1.1 J											10	
	10/26/2005 dup						2.7 J								0.93 J											10	
	02/01/2006						4.2								0.89 J											11	
	4/24/2006						2.8J								1.3 J											11	
	7/27/2006								0.30 J						1.2 J											10	
	10/31/2006						1.4 J								1.3 J											8.5	
	1/31/2007						3.0J								1.4J											8.2	
	5/1/2007						3.1J								1.3J											8.2	
	8/8/2007						2.9J								1.5 J											8.5	
	10/17/2007						2.7 J								1.5 J											8	
	5/5/2008														1.5											4.7	
	10/2/2008						1.8								1.5											5.7	
	4/7/2009						1.4								1.7											5.5	
	10/28/2009						1.8								1.5											5	
	2/25/2010						1.8								1.5											4.4	
	2/25/2010 Dup						1.5								1.5											3.9	
	5/24/2010						1.9								1.5											5.9	
	5/24/2010 Dup						1.8								1.4											4.4	
	10/5/2010						1.5								1.3				0.55J							4.7	
	10/5/10 Dup						1.6								1.3				1.2							4.7	
	1/24/2011						1.9								1.1											5.2	
	1/24/11 Dup						1.7								1.4											4.5	
	4/13/2011						2.3								1.6											5.8	
	4/13/2011 Dup						2.8								1.3											7.1	
	7/11/2011														1.4				0.88J							5.3	
	10/18/2011						1.5								1.4											4.5	
	10/18/2011 Dup						1.4								1.5											4.8	
	1/23/2012						2								1.7											4.3	
	4/4/2012	8.0 J					2.1								2											6	
	4/4/2012 Dup	8.3 J					2								2											5.7	
	7/25/2012														1.6											6.5	
	10/17/2012						1.3								1.7											7.2	
	10/17/2012 Dup						1.8								1.9											6.9	
	1/16/2013						2.2								1.7											8.1	
	4/26/2013						2.3								1.4											6.5	
	4/26/2013 Dup						2.2								1.3											6.7	

Table 2. Groundwater VOC Analytical Results for Monitoring Wells
FF/NN Landfill, Ripon, WI

		Parameters																								
Sampling Point	Collection Date	Acetone[1]	Benzene	Bromomethane	2-Butanone (MEK)	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	1,4-dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-dichloroethane	1,1-Dichloroethene	cis-1,2-dichloroethene	trans-1,2-Dichloroethene	1,2-dichloropropane	Ethylbenzene	Methylene chloride	MTBE[2]	Tetrachloroethene	Tetrahydrofuran	Toluene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	0.5	12	0.5	10	200	0.5	NE	0.02	1000
	ES	1000	5	10	460	NE	400	6	3	75	1000	850	5	7	70	100	5	700	5	60	5	50	1000	5	NE	0.2	10000
MW-112	11/27/1996	NR	0.6J				2 J								59	1 J								3J		15	
	11/27/96 Dup	NR	0.7J				2 J								58	1 J								4J		16	
	5/12/1997	NR	0.59			0.27									5.4											2.2	
	10/26/1997	NR	0.5			0.29									1.3												
	4/13/1998	NR	0.69				1.4								57	1.3								1.9		12	
	10/13/1998	NR	0.76												80									1.2		25	
	4/6/1999	NR	0.72				1.4								40	0.56								1.7		7.9	
	10/27/1999	NR													7.6									1			
	5/2/2000	NR	0.46												3.4									0.39			
	10/30/2000	NR				0.37									5.6									0.37			
	5/9/2001	NR	0.42			0.42									3.5											0.98	
	10/11/2001	NR	0.36			0.39	0.53								27									0.83		3.7	
	2/4/2002	NR	0.23		NA	0.48									0.49							NA					
	05/21/2002*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	8/19/2002 *	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/4/2002														150									2.7 J		56	
	4/22/2003		1.2 J				7.4&								220	4.5 J								5.9		45	
	10/22/2003	2.5	0.88				5.9								60	1.4								1.6		51	
	4/28/2004		0.53 J			0.45 J	4								18									1.1 J		9.9	
	4/28/04 dup	6.5	0.61 J			0.48 J	4.7								22									1.1 J		9.3	
	07/23/2004	110	1.1				23								140	2.6	0.58				1			7.4		31	
	10/13/2004		1.0 J			0.42	14								110	2.4 J								2.9		25	
	10/13/04 Dup		0.87 J				15		0.56 J						94	2.1 J					0.60J			2.9		29	
	1/26/2005		0.76 J				20								85	2.3 J										27	
	4/26/2005		0.6J				13								64	1.2 J								1.8		17	
	8/3/2005					0.48 J									4.6											1.5	
	10/25/2005														2.5 J											1.4	
	02/01/2006		0.41 J			0.45 J	3.2 J								11									0.76 J		4.9	
	4/25/2006					0.48 J	0.97 J								5.4											2.8	
	7/27/2006					0.43 J			0.24 J						2.9											1.7	
	7/27/2006dup								0.52 J																	1.5	
	11/2/2006														2.3 J											1.7	
	2/1/2007					0.46J	1.4J								3.8											2.5	
	5/2/2007					0.53J	1.3J								6.1											2.6	
	8/14/2007					0.51 J									4.4											1.8	
	8/14/2007 dup					0.51 J									4.9											1.6	
	10/18/2007					0.49J									4											1.2	
	5/5/2008														33.3									1.8		1.3	
	10/2/2008														13.3									0.60J		0.79J	
	4/7/2009														5.1									0.57J		0.56J	
	11/4/2009																										
	5/20/2010														2.7											0.33J	
	4/11/2011														1.8												
	7/11/2011														5.3				0.60J					1.5		0.27J	
	10/19/2011														1.4												
	1/24/2012																							0.76J			
	4/3/2012																										
	7/25/2012														1.5												
	10/17/2012																										
	1/16/2013																										
	4/24/2013																										

Table 2. Groundwater VOC Analytical Results for Monitoring Wells
FF/NN Landfill, Ripon, WI

Sampling Point	Collection Date	Parameters																								
		Acetone[1]	Benzene	Bromomethane	2-Butanone (MEK)	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	1,4-dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-dichloroethane	1,1-Dichloroethene	cis-1,2-dichloroethene	trans-1,2-Dichloroethene	1,2-dichloropropane	Ethylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	0.5	12	0.5	10	200	0.5	NE	0.02	1000
	ES	1000	5	10	460	NE	400	6	3	75	1000	850	5	7	70	100	5	700	5	60	5	50	1000	5	NE	0.2	10000
P-113A	9/12/2002	NR						0.37J															1.0J				
	12/3/2002	NR																									
	4/23/2003																						2.2				
	10/22/2003																										
	5/11/2004																										
	8/2/2005																										
	7/27/2006								0.84																		
	8/8/2007																										
	5/6/2008																										
	4/6/2009																										
	10/29/2009								0.42J																		
	5/25/2010																										
	10/6/2010																										
	1/25/2011																										
	4/13/2011																										
	7/12/2011																		1.3								
	10/19/2011																										
	1/23/2012																										
	4/4/2012	7.5 J																									
	7/25/2012																										
	10/16/2012																										
	1/15/2013																										
	4/26/2013																										
P-113B	09/11/2002[3]	NR						1										0.41J					6.6				2.6
	12/3/2002	NR																									
	4/23/2003																										
	7/30/2003																										
	10/22/2003																										
	2/4/2004																										
	5/11/2004																										
	07/22/2004																										
	10/14/2004								0.49 J																		
	1/27/2005																										
	4/27/2005																										
	8/2/2005																										
	10/26/2005								0.42 J																		
	02/01/2006																										
	4/24/2006																										
	7/27/2006								0.49 J																		
	10/31/2006																										
	1/31/2007																										
	5/1/2007																										
	8/8/2007																										
	10/19/2007																										
	5/6/2008																										
	10/1/2008								0.29J																		
	4/6/2009																										
	4/6/2009 Dup																										
	10/29/2009																										
	5/25/2010																										
	10/6/2010																		0.51J								
	1/25/2011																		1.6								
	4/13/2011																										
	7/12/2011																		1.3								
	10/19/2011								0.43J																		
	1/23/2012																										
	4/4/2012																										
	7/25/2012																										
	10/16/2012																										
	1/15/2013																										
	4/26/2013																										

Table 2. Groundwater VOC Analytical Results for Monitoring Wells
FF/NN Landfill, Ripon, WI

Sampling Point	Collection Date	Parameters																								
		Acetone[1]	Benzene	Bromomethane	2-Butanone (MEK)	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	1,4-dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloromethane	1,2-dichloroethane	1,1-Dichloroethene	cis-1,2-dichloroethene	trans-1,2-Dichloroethene	1,2-dichloropropane	Ethylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	0.5	12	0.5	10	200	0.5	NE	0.02	1000
	ES	1000	5	10	460	NE	400	6	3	75	1000	850	5	7	70	100	5	700	5	60	5	50	1000	5	NE	0.2	10000
P-114 (former Ehster well)	11/19/2001	NR													0.93											7	
	2/5/2002	NR													0.85											5.5	
	5/22/2002	NR													1.2											6.2	
	8/21/2002	NR													0.93											5.4	
	12/3/2002	NR													1.3								0.40J			6.3	
	4/23/2003																									3.3	
	10/23/2003														1.2											8.6	
	10/23/03 Dup														1.4											9.2	
	5/11/2004														1.5 J											10	
	07/22/2004														1.4 J											7.9	
	10/13/2004								0.39J						1.7 J											10	
	1/27/2005																									3.5	
	4/26/2005																									3.0	
	8/2/2005														1.1 J											6.1	
	10/26/2005								0.84						1.3 J											6.6	
	10/26/2005 dup								0.49						1.4 J											6.9	
	01/31/2006														1.3 J											8.4	
	4/24/2006														1.3 J											7.6	
	4/24/2006 dup														1.3 J											7.9	
	7/27/2006								0.48J						1.6 J											8.9	
	7/27/2006 dup								0.38 J						1.6 J											8.7	
	11/2/2006														2.7 J											13	
	11/02/2006 dup														2.7 J											13	
	2/1/2007														1.2J				0.46J							7.5	
	2/1/2007 dup														1.4J											8.5	
	5/1/2007														1.1J											7.4	
	5/1/2007 dup														1.2J											7.8	
	8/8/2007														1.1 J											6.7	
	8/8/2007 dup														1.2 J											7.5	
	10/22/2007														0.95 J											7.8	
	10/22/2007 Dup														1.2 J											8.1	
	5/6/2008														1.5											6.6	
	10/2/2008														1.2											6.1	
	4/6/2009														1.6				0.47J							6.5	
	10/29/2009								1.5						1.5											4.7	
	2/26/2010														1.6											5.1	
	5/26/2010														1.3											4.5	
	5/26/2010 Dup														1.3											4.3	
	10/6/2010														1.4											5.4	
	10/6/10 Dup														1.3											5.4	
	1/25/2011														1.3											4.8	
	1/25/11 Dup														1.3											5.3	
	4/13/2011														1.6											8.2	
	4/13/2011 Dup														1.7											8.5	
	7/12/2011														1.3				0.80J							5.6	
	7/12/2011 Dup														1.5				0.67J							5.8	
	10/19/2011														1.2											5.6	
	10/19/2011 Dup														1.3											5.5	
	1/23/2012														1.1											5	
	1/23/2012 Dup														1.3											5.1	
	4/4/2012														1.5											7.2	
	4/4/2012 Dup														1.5											7.5	
	7/25/2012														1.2											6.5	
	7/25/2012 Dup														1.4											6.3	
	10/17/2012														1.6											6.6	
	10/17/2012 Dup														1.6											6.4	
	1/16/2013														1.2											8.2	
	1/16/13 Dup														1.3											7.6	
	4/26/2013														1.2											6.5	
	4/26/2013 Dup														1.1												

Table 2. Groundwater VOC Analytical Results for Monitoring Wells
FF/NN Landfill, Ripon, WI

		Parameters																								
Sampling Point	Collection Date	Acetone[1]	Benzene	Bromomethane	2-Butanone (MEK)	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	1,4-dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-dichloroethane	1,1-Dichloroethene	cis-1,2-dichloroethene	trans-1,2-Dichloroethene	1,2-dichloropropane	Ethylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	0.5	12	0.5	10	200	0.5	NE	0.02	1000
	ES	1000	5	10	460	NE	400	6	3	75	1000	850	5	7	70	100	5	700	5	60	5	50	1000	5	NE	0.2	10000
P-115 (former Wiese well)	10/9/2001	NR																									
	10/09/01 Dup	NR																									
	11/19/2001	NR																									
	2/5/2002	NR																									
	5/22/2002	NR																									
	8/19/2002	NR							0.20J																		
	12/3/2002	NR																									
	4/22/2003																										
	7/30/2003																										
	10/22/2003																										
	2/4/2004																										
	4/27/2004																										
	10/14/2004																									0.33 J	
	1/27/2005																										
	4/26/2005																										
	8/2/2005																									0.34 J	
	10/26/2005								0.24 J																	0.33 J	
	1/31/2006																										
	4/24/2006																									0.62	
	7/27/2006																									0.44 J	
	10/31/2006																									0.39J	
	2/1/2007																									0.50J	
	5/1/2007																									0.54.1	
	8/14/2007																									0.62	
	10/22/2007																									0.49 J	
	10/22/2007																									0.55 J	
	5/6/2008																									1.1	
	10/2/2008																									1.9	
	4/6/2009																									1.3	
	10/29/2009								1.6																	1.3	
	2/26/2010								0.30J																	0.95J	
	5/26/2010																										
	10/6/2010																									1.2	
	1/25/2011																									0.86J	
	4/13/2011																									1.4	
	7/12/2011																		0.69J							0.99J	
	10/19/2011																									1	
	1/23/2012																									0.77J	
	4/4/2012	7.2 J																								1.3	
	7/25/2012																									1.1	
	10/17/2012																										
	1/16/2013																									1.3	
	4/26/2013																									1.1	

Table 2. Groundwater VOC Analytical Results for Monitoring Wells
FF/NN Landfill, Ripon, WI

		Parameters																								
Sampling Point	Collection Date	Acetone[1]	Benzene	Bromomethane	2-Butanone (MEK)	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	1,4-dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloromethane	1,2-dichloroethane	1,1-Dichloroethene	cis-1,2-dichloroetiene	trans-1,2-Dichloroethene	1,2-dichloropropane	Ethylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	0.5	12	0.5	10	200	0.5	NE	0.02	1000
	ES	1000	5	10	460	NE	400	6	3	75	1000	850	5	7	70	100	5	700	5	60	5	50	1000	5	NE	0.2	10000
P-116 (former Hadel well)	10/9/2001	NR																									
	11/19/2001	NR																									
	2/5/2002	NR																									
	5/22/2002	NR																									
	8/19/2002	NR																									
	08/19/02 Dup	NR																									
	12/3/2002	NR																									
	12/03/02 Dup	NR																									
	4/22/2003																										
	7/30/2003																										
	10/22/2003																										
	2/4/2004																										
	5/11/2004																										
	7/22/2004																										
	10/14/2004																										
	1/27/2005																										
	4/26/2005																										
	8/2/2005																										
	10/26/2005																										
	1/31/2006																										
	01/31/06 Dup																										
	4/24/2006																										
	7/27/2006								0.35 J																		
	10/31/2006																										
	2/1/2007																										
	5/1/2007																										
	8/8/2007																										
	10/22/2007																										
	5/6/2008																										
	10/2/2008																										
	4/6/2009																										
	10/29/2009																										
	2/26/2010																		1.1								
	5/25/2010																										
	10/6/2010																		0.44J								
	1/25/2011																										
	4/13/2011																										
	7/12/2011																		0.46J								
	10/19/2011																										
	1/23/2012																										
	4/4/2012																										
	7/25/2012																										
	10/17/2012																										
	1/15/2013																										
	4/26/2013																										

Results in µg/L

B = analyte found in method blank as well as sampl
E = exceeds calibration range
J = estimated value between LOD and LOQ
L = Lab Artifact
& = Laboratory control spike recovery not within control limi
NE = None Established
NA= Not Analyzed; no sample collected for analysi
NR = Value not reported by lab or not recorded during initial evaluation by GeoTran

PAL = Preventive Action Limi
ES = Enforcement Standarc
Underline indicates exceeds NR 140 PAL
Bolding indicates exceeds NR 140 ES
Blank = Sample Collected but No VOCs detectec
Historical data for abandoned wells MW-105, P-105, P-109 and MW-110 can be found in reports prior to October 20

* Not sampled due to insufficient water for sample collectio

[1] The reporting of acetone on an 8260B VOC scan varies with labs. Enchem, which began analyzing samples in April 2003, does report acetone. Acetone has appeared in several wells beginning in October 2(

[2] MW-103 had low concentrations of isopropyl ether detected in October 1997 and February 2002. Acetone at 27 ppb was detected in April 2004. Carbon disulfide at 2.2J ppb was detected in January 2(

[3] this sample had detections of bromodichloromethane at 0.59 ppb and dibromochloromethane at 0.35 ppl

[4] this sample in P-116 had 0.18 ppb of 1,1,1-trichloroethane

Table 3. Groundwater Natural Attenuation Parameters
FF/NN Landfill, Ripon, WI

Well ID	Compound	Nitrate	Nitrite	Iron 2	Sulfate	Sulfide	Methane	ORP**	Dissolved Oxygen	Specific Conductivity	pH	Temperature
		NO_3^-	NO_2^-	Fe^{2+}	SO_4^{2-}	S^{2-}	CH_4					
	Detection Range	0.2 to 1.5*	0.08 to 0.8*	0.1 to 2.5*	8 to 100*	0.2 to 3*						
	Target	>	<	<1	>20	<1	<0.5	>50	>0.5			
	Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mV	mg/l	uS/cm	Units	C
MW-101	2/1/2007									558	6.59	7.4
	5/1/2007									1021	6.92	13.1
	5/6/2008									782	7.18	12.4
	4/8/2009									940	6.75	12.5
	10/29/2009	<0.20	0.39	>2.5	>100	<0.2	0.015	-98	3.17	914	6.85	11.8
	5/25/2010	<0.20	0.08	>2.5	>100	<0.2	0.0192	-73	1.65	961	6.55	25.3
	10/4/2010	0.08			>100		0.0136	-63	2.13	1265	6.95	15.8
	1/26/2011			>2.5				-14	2.51	938	7.39	6.2
	4/11/2011									1020	7.48	14.1
	4/3/2012									960	7.10	13.0
MW-103	2/1/2007									2670	6.95	5.7
	5/2/2007									1180	6.64	10.8
	10/18/2007									1609	6.74	13.0
	5/5/2008									1420	7.06	12.2
	10/2/2008									1411	6.69	11.3
	4/7/2009									1433	7.17	10.3
	10/28/2009	<0.20	>0.80	0.42	>100	<0.2	0.00042	24	4.21	1780	6.79	10.7
	2/25/2010	>1.5	<0.08	<0.1	>100	<0.2	<0.0028	55	4.1	2	6.96	8.6
	5/24/2010	>1.5	<0.08	0.11	>100	<0.2	<0.0028	86	2.84	2110	6.49	17.7
	10/4/2010	>1.5			>100		0.0235	46	3.33	1920	7.22	12.9
	1/26/2011			0.09				62	4.52	1700	7.22	5.5
	4/11/2011			0.07				136	5.02	1217	6.79	13.8
	7/11/2011			0.13				33	3.54	1660	7.14	18.7
	10/19/2011			<0.1				171	4.01	1580	6.88	8.7
	1/24/2012			<0.1				144	3.28	1930	6.98	6.1
	4/3/2012			<0.1				98	3.25	2130	6.88	12.4
	7/25/2012			0.323				58	2.56	1950	6.71	21.4
	10/17/2012			<0.1				59	6.02	1690	6.96	12.7
	1/16/2013			<0.1				36	3.67	1730	7.00	6.6
	4/24/2013			0.394				41	3.29	1454	7.05	11.3
MW-104	10/19/2011									1312	6.78	9.9
	4/3/2012									1134	6.90	12.3
	10/17/2012									1517	6.71	12.7
	4/24/2013									1396	6.87	12.2
MW-107	4/21/2003						0.13	185.70	21.27	1021	7.00	9.84
	4/22/2003				30			74.10	5.70	1024	7.06	10.32
	10/21/2003	3.3			32			79.30	5.80	1211	6.92	9.64
	5/1/2007									570	6.93	10.5
	10/17/2007									1297	7.09	13.1
	5/5/2008									796	7.54	11.5
	10/1/2008									1240	6.86	10.1
	4/7/2009									1226	7.50	10.2
	10/28/2009	>1.5	0.18	0.61	>100	<0.2	<0.000180	-1	5.78	956	7.13	11.6
	5/24/2010	>1.5	0.32	1.86	>100	0.71	<0.0028	61	3.08	1087	6.89	20.7
	10/4/2010	>1.5		0.7	49.95		ND	76	6.38	1650	7.62	10.6
	1/26/2011			0.85				45	4.74	249	7.35	6.0
	4/11/2011									1100	8.12	11.2
	10/18/2011									1225	7.51	10.1
	4/3/2012									983	7.50	11.5
	10/17/2012									1076	7.10	13.0
	4/24/2013									1144	7.34	11.0
MW-111	12/5/2002									866	7.15	7.84
	8/8/2007									920	7.45	11.4
	5/5/2008									732	7.45	11.9
	4/7/2009									867	7.22	10.8
	10/28/2009	>1.5	<0.08	0.26	>100	<0.2	0.00031	3	6.66	836	6.66	11.4
	5/24/2010	1.09	0.22	1.39	>100	0.44	<0.0028	71	2.73	958	6.80	22.7
	10/4/2010	0.99		0.02	>100		ND	85	4.87	995	7.72	9.6
	1/26/2011			0.25				26	4.56	849	7.28	7.6
	4/11/2011									900	7.94	11.2
	4/3/2012									846	7.60	11.7
MW-112	7/11/2011			>2.5				-51	1.49	951	7.34	16.5
	10/19/2011			>2.5				-46	1.12	907	7.01	8.9
	1/24/2012			>2.5				-26	1.32	1060	7.16	8.0
	4/3/2012			>2.5				-77	1.19	1210	6.96	11.7
	7/25/2012			>2.5				-75	1.37	1071	6.89	18.9
	10/17/2012			>2.5				-113	1.08	992	7.15	12.7
	1/16/2013			>2.5				-72	1.80	1003	7.10	7.9
	4/24/2013			>2.5				-45	1.56	1052	7.11	12.1
P-101	12/4/2002				50			-53.5	0.08	843	7.12	9.26
	4/22/2003				51			-36.9	0.81	646	7.46	10.12
	10/23/2003	<0.058			49			-65.5	0.66	754	7.04	10.20
	5/1/2007									828	7.57	11.7
	5/6/2008									735	7.69	11.3
	4/8/2009									749	7.24	11.4
	10/29/2009	0.39	0.12	1.84	71.36	<0.2	0.00059	-108	2.2	880	7.32	11.2
	5/25/2010	<0.20	<0.08	1.38	70.81	<0.2	<0.0028	-48	1.04	925	6.62	25.5
	10/4/2010	0.08			69.72		ND	-92	1.9	948	7.51	15.0
	1/26/2011			1.24				-31	2.65	829	7.26	5.8
	4/11/2011									840	7.96	12.8
	4/3/2012									776	7.40	11.6

Table 3. Groundwater Natural Attenuation Parameters
FF/NN Landfill, Ripon, WI

Well ID	Compound	Nitrate	Nitrite	Iron 2	Sulfate	Sulfide	Methane	ORP**	Dissolved Oxygen	Specific Conductivity	pH	Temperature
		NO_3^-	NO_2^-	Fe^{2+}	SO_4^{2-}	S^{2-}	CH_4					
	Detection Range	0.2 to 1.5*	0.08 to 0.8*	0.1 to 2.5*	8 to 100*	0.2 to 3*						
	Target	>	<	<1	>20	<1	<0.5	>50	>0.5			
	Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mV	mg/l	uS/cm	Units	C
P-103	12/4/2002				54		0.037	-60.50	1.17	956	7.00	9.49
	4/21/2003				58			-29.90	0.71	388	7.28	10.50
	10/22/2003	0.41			54			-147.10	0.82	874	7.17	10.06
	2/1/2007							172	0.53	903	6.86	9.0
	5/2/2007							206	0.92	896	6.78	9.9
	8/14/2007							226	0.70	863	7.09	11.4
	10/18/2007							300	0.51	863	6.35	11.0
	5/5/2008							30	0.93	956	6.98	10.5
	10/2/2008							323	1.37	888	6.70	10.8
	4/7/2009							-95	1.09	813	7.40	9.8
	10/28/2009	0.45	<0.08	<0.1	78.95	<0.2	0.052	-125	0.85	739	7.19	10.2
	2/25/2010	>1.5	NM	NM	83.29	<0.2	0.0416	-120	1.62	845	7.25	9.0
	5/24/2010	<0.20	<0.08	>2.5	89.8	<0.2	0.0489	-104	0.38	815	7.00	11.2
	10/5/2010	0.08			85.02		0.0562	-128	1.15	874	7.86	10.9
	1/25/2011			2.5				-69	0.64	776	7.60	9.3
	4/12/2011			>2.5				-125	1.22	906	7.19	10.0
	7/11/2011			>2.5				-123	0.83	743	7.92	11.5
	10/18/2011			>2.5				-76	1.60	737	7.38	10.3
	1/24/2012			>2.5				-47	0.65	878	7.27	9.0
	4/4/2012			2.489				-96	0.93	985	7.26	10.2
	7/25/2012			>2.5				-100	0.67	855	6.94	11.7
	10/17/2012			>2.5				-101	1.00	808	6.83	10.5
	1/16/2013			2.102				-123	0.51	824	7.15	9.3
	4/26/2013			>2.5				-86	0.59	790	7.45	10.4
P-106	4/24/2013							-6	3.17	764	7.26	9.8
P-107	12/4/2002	NM	NM	NM	66		0.11	-28.00	0.86	791	7.22	9.40
	4/21/2003				74			37.30	0.76	646	7.43	9.62
	10/21/2003	<0.058						-70.40	0.92	716	7.18	9.73
	5/1/2007							240	1.64	840	6.66	9.6
	10/19/2007							330	1.80	863	6.42	10.7
	5/5/2008							8	1.50	925	7.50	11.0
	10/1/2008							350	2.63	923	6.66	10.2
	4/7/2009							-95	1.75	852	7.34	9.0
	10/28/2009	<0.20	<0.08	1.68	89.8	<0.2	0.31	-78	1.19	778	7.08	10.9
	5/24/2010	<0.20	<0.08	1.76	99.39	<0.2	0.383	-70	1.12	869	6.92	13.2
	10/5/2010	0.06			88.68		0.345	-117	1.84	930	7.86	10.8
	1/24/2011			1.33				-28	1.82	838	6.73	7.8
	4/12/2011							-68	1.39	966	7.16	10.1
	10/18/2011							-49	1.50	796	7.34	10.4
	4/4/2012							-82	1.64	1051	7.26	10.2
	10/17/2012							-88	1.55	886	7.28	11.3
	4/26/2013							-76	2.16	860	7.53	10.8
P-111	12/5/2002				44			-88.30	-0.03	639	7.43	9.76
	4/22/2003				39			-74.20	0.67	486	7.71	12.06
	10/22/2003	<0.058			31			-94.00	0.75	566	7.53	9.87
	8/14/2007							118	0.35	580	7.46	11.1
	5/5/2008							65	0.35	614	7.72	10.5
	4/7/2009							-89	0.26	624	7.62	9.1
	10/28/2009	<0.20	<0.08	0.53	64.03	<0.2	0.0085	-140	0.48	616	7.57	10.1
	5/24/2010	<0.20	<0.08	0.61	70.99	<0.2	0.0051	-101	0.24	673	7.25	10.5
	10/5/2010	0.06			69.06		0.0065	-131	0.28	715	8.26	10.3
	1/24/2011			0.45				-98	0.58	632	7.35	9.1
	4/13/2011							-53	1.46	683	6.99	9.7
	4/4/2012							-104	0.60	832	7.53	9.9
MW-3B	12/5/2002				36			-87	-0.11	1248	6.57	9.84
	12/5/2002				36							
	4/22/2003				46			-92	0.37	815	7.18	9.86
	10/22/2003	<0.058			43			-161	0.55	662	7.45	9.79
	1/31/2007							140	0.51	710	7.27	8.2
	5/1/2007							125	1.32	703	6.99	9.5
	8/8/2007							-233	0.43	605	7.49	10.3
	10/19/2007							170	0.29	598	6.63	9.8
	5/6/2008							21	0.40	672	7.89	9.7
	10/1/2008							334	1.35	646	6.90	9.7
	4/7/2009							-116	0.20	604	7.48	8.8
	10/28/2009	<0.20	<0.08	0.72	37.68	<0.2	0.098	-230	0.35	567	7.65	9.4
	5/24/2010	<0.20	<0.08	0.78	50.67	<0.2	0.0275	-176	0.17	650	7.27	10.2
	10/5/2010	0.05		0.61	43.23		0.0159	-161	8.80	697	8.24	9.9
	1/24/2011			0.66				-109	0.44	614	6.90	8.4
	4/13/2011			0.84				-207	0.52	694	7.65	9.5
	7/12/2011			0.68				-195	0.96	591	7.54	9.9
	10/19/2011			0.71				-171	2.18	604	7.89	9.5
	1/23/2012			0.79				-110	0.28	734	7.37	8.7
	4/4/2012			0.861				-151	1.39	811	7.57	9.3
	7/25/2012			0.681				-231	0.39	693	7.65	11.6
	10/16/2012			0.72				-157	0.42	675	7.36	10.0
	1/15/2013			0.874				-233	1.60	702	7.62	8.9
	4/26/2013			0.85				-158	2.59	681	7.90	9.6

Table 3. Groundwater Natural Attenuation Parameters
FF/NN Landfill, Ripon, WI

Well ID	Compound	Nitrate	Nitrite	Iron 2	Sulfate	Sulfide	Methane	ORP**	Dissolved Oxygen	Specific Conductivity	pH	Temperature
		NO_3^-	NO_2^-	Fe^{2+}	SO_4^{2-}	S^{2-}	CH_4					
	Detection Range	0.2 to 1.5*	0.08 to 0.8*	0.1 to2.5*	8 to 100*	0.2 to 3*						
	Target	>	<	<1	>20	<1	<0.5	>50	>0.5			
	Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mV	mg/l	uS/cm	Units	C
P-103D	5/2/2007							260	0.57	879	6.89	9.9
	10/18/2007							321	0.54	854	6.43	11.2
	5/5/2008							20	0.63	935	7.02	10.8
	10/2/2008							327	3.40	877	6.85	10.7
	4/7/2010							-110	0.45	808	7.61	10.0
	10/28/2009	<0.20	0.17	>2.5	76.38	<0.2	0.098	-146	0.52	746	7.30	10.2
	2/25/2010		<0.08	>2.5	78.05	<0.2	0.0747	-146	0.76	842	7.39	9.2
	5/24/2010	<0.20	<0.08	>2.5	88.88	<0.2	0.0303	-111	0.37	853	7.08	11.1
	10/5/2010	0.11			93.48		0.0659	-147	1.10	898	7.97	10.9
	1/25/2011			>2.5				-71	0.73	781	7.56	9.4
	4/12/2011			>2.5				-132	1.09	906	7.26	10.2
	7/11/2011			>2.5				-138	1.34	751	8.12	11.6
	10/18/2011			>2.5				-82	1.28	768	7.41	10.2
	1/24/2012			>2.5				-64	0.40	895	7.28	9.3
	4/4/2012			>2.5				-114	0.59	1004	7.36	10.2
	7/25/2012			>2.5				-109	0.78	846	6.75	11.4
	10/17/2012			>2.5				-115	1.74	835	7.13	10.4
	1/16/2013			1.715				-129	0.31	832	7.00	9.4
	4/26/2013			>2.5				-97	1.41	806	7.50	10.4
P-111D	12/5/2002				62			-75.60	-0.02	910	7.32	9.75
	4/23/2003				64			-20.50	0.94	706	7.63	9.98
	10/23/2003	<0.058			65			-68.30	0.70	838	7.17	9.78
	1/31/2007							74	0.72	885	7.30	8.9
	5/1/2007							78	3.37	900	7.05	10.0
	8/8/2007							55	0.55	900	7.25	10.9
	10/19/2007							296	0.53	897	6.90	10.7
	5/6/2008							15	0.56	980	7.56	10.6
	10/1/2008							330	2.31	907	7.07	10.0
	4/7/2009							-97	1.98	821	7.52	9.3
	10/28/2009	<0.20	<0.08	1.79	60.63	<0.2	0.33	-171	0.46	764	7.51	10.0
	2/25/2010	0.43	<0.08	1.62	65.7	<0.2	0.123	-125	0.86	871	7.45	6.0
	5/24/2010	<0.20	<0.08	1.83	70.59	0.25	0.31/0.239 Dup	-136	0.24	840	7.21	10.7
	10/5/2010	0.08		1.75	61.2		0.269/0.222 Dup	-148	0.75	886	8.13	10.3
	1/24/2011			1.72				-101	0.77	801	6.83	8.9
	4/13/2011			1.89				-126	0.42	873	7.19	9.9
	7/11/2011			1.87				-178	0.88	759	7.37	11.0
	10/18/2011			1.57				-95	2.43	752	7.71	10.0
	1/23/2012			1.87				-68	0.33	898	7.31	9.3
	4/4/2012			1.693				-128	0.72	1009	7.50	10.0
	7/25/2012			1.227				-171	0.65	850	7.49	11.5
	10/17/2012			1.324				-131	0.51	838	7.56	10.5
	1/16/2013			0.339				-177	1.93	870	7.45	9.4
	4/26/2013			1.486				-114	1.16	838	7.71	10.5
P-113B	12/3/2002				47			27.20	0.39	960	6.80	10.18
	4/23/2003				56			-54.30	1.05	715	7.22	10.13
	10/22/2003	<0.058			49			-125.40	0.46	616	7.42	10.13
	1/31/2007							109	0.40	620	7.33	8.8
	5/1/2007							113	1.03	625	7.03	10.2
	8/14/2007							110	0.28	618	7.28	11.1
	10/22/2007							252	0.53	629	6.70	10.3
	5/6/2008							-16	0.33	716	7.31	10.3
	10/2/2008							328	2.47	674	7.12	10.6
	4/6/2009							-122	0.40	627	7.54	9.2
	10/29/2009	<0.20	<0.08	0.83	70.14	<0.2	0.057	-187	0.42	579	7.33	10.3
	5/25/2010	<0.20	<0.08	1.19	80.11	<0.2	<0.0028	-145	0.17	646	7.26	10.9
	10/6/2010	0.1		0.98	75.55		ND	-183	0.35	685	8.09	11.0
	1/25/2011			0.9				-86	0.94	619	7.50	9.8
	4/13/2011			1.11				-164	1.11	675	7.44	10.2
	7/12/2011			0.99				-164	0.47	588	7.43	10.5
	10/19/2011			0.94				-118	0.50	588	7.71	10.2
	1/23/2012			0.99				-75	0.29	703	7.57	9.3
	4/4/2012			1.034				-104	0.72	783	7.08	9.7
	7/25/2012			0.947				-167	0.67	668	7.56	11.5
	10/16/2012			0.998				-117	0.43	655	7.51	11.0
	1/15/2013			1.06				-106	0.71	674	7.40	9.2
	4/26/2013			0.938				-125	0.78	651	7.84	10.3
P-114 (Ehster)	12/3/2002				44					695	7.71	11.10
	4/23/2003				63			-117.00	0.85	669	7.71	10.00
	10/23/2003	<0.058			49			-125.10	0.54	1379	7.31	9.87
	2/1/2007							151	0.21	674	7.27	9.9
	5/1/2007							149	0.96	686	7.08	10.2
	8/8/2007							202	0.34	667	7.45	11.0
	10/22/2007							313	0.90	670	6.71	10.2
	5/6/2008							14	0.74	775	7.23	10.2
	10/2/2008							307	2.34	737	7.01	10.4
	4/6/2009							-76	0.45	687	7.58	9.5
	10/29/2009	0.22	<0.08	0.56	50.61	<0.2	0.28	-120	0.44	636	7.41	10.0
	2/26/2010	0.61	0.11	0.54	49.43	<0.2	0.285	-148	0.35	707	7.62	9.2
	5/26/2010	<0.20	0.15	0.6	57.47	<0.2	0.138/0.194 Dup	-129	0.66	703	7.27	10.4
	10/6/2010	0.11		0.72	57.18		0.186/0.224 Dup	-182	0.86	766	8.28	10.6
	1/25/2011			0.6				-58	0.42	679	7.60	9.3
	4/13/2011			0.65				-147	0.42	744	7.49	9.9
	7/12/2011			0.57				-134	1.95	646	7.48	10.5
	10/19/2011			0.62				-123	1.49	652	7.82	10.0
	1/23/2012			0.93				-78	0.35	785	7.60	9.1
	4/4/2012			0.598				-116	0.66	873	7.63	9.8
	7/25/2012			0.556				-200	0.40	748	7.63	11.0
	10/17/2012			0.757				-131	0.76	733	7.55	10.5
	1/16/2013			<0.1				-184	0.43	753	7.55	9.4
	4/26/2013			0.96				3	1.56	731	7.61	9.7

Table 3. Groundwater Natural Attenuation Parameters
FF/NN Landfill, Ripon, WI

Well ID	Compound	Nitrate	Nitrite	Iron 2	Sulfate	Sulfide	Methane	ORP**	Dissolved Oxygen	Specific Conductivity	pH	Temperature
		NO_3^-	NO_2^-	Fe^{2+}	SO_4^{2-}	S^{2-}	CH_4					
	Detection Range	0.2 to 1.5*	0.08 to 0.8*	0.1 to2.5*	8 to 100*	0.2 to 3*						
	Target	>	<	<1	>20	<1	<0.5	>50	>0.5			
	Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mV	mg/l	uS/cm	Units	C
P-115 (former Wiese well)	2/1/2007							128	0.29	590	7.35	9.6
	5/1/2007							112	0.85	589	7.12	10.5
	8/14/2007							216	0.43	582	7.44	10.7
	10/22/2007							313	0.54	579	6.74	10.6
	5/6/2008							-16	0.48	690	7.27	10.7
	10/2/2008							315	2.44	654	6.89	10.7
	4/6/2009							-72	0.30	605	7.58	9.9
	10/29/2009	<0.20	<0.08	0.92	40.7	<0.2	0.044	-166	0.47	551	7.52	10.2
	2/26/2010	0.36	<0.08	1.48	43.65	<0.2	0.0579	-155	0.35	620	7.64	9.8
	5/26/2010	<0.20	<0.08	1.01	46.07	<0.2	0.049	-135	0.40	608	7.30	10.5
	10/6/2010	0.1		0.95	41.23		0.0562	-175	1.42	646	8.15	10.7
	1/25/2011			0.95				-78	0.42	572	7.68	9.8
	4/13/2011			1.05				-178	0.44	626	7.51	10.5
	7/12/2011			0.86				-143	1.74	546	7.47	10.6
	10/19/2011			0.82				-128	0.55	543	7.87	10.3
	1/23/2012			1.41				-78	0.34	647	7.53	9.6
	4/4/2012			0.804				-126	0.40	724	7.65	10.1
	7/25/2012			0.7				-223	0.39	619	7.72	11.3
	10/17/2012			0.797				-137	1.22	602	7.62	10.8
	1/16/2013			<0.1				-185	1.00	619	7.59	9.9
	4/26/2013			0.866				-30	1.20	597	7.75	10.2
P-116 (former Hadel well)	2/1/2007							171	0.38	528	7.34	8.8
	5/1/2007							142	0.59	528	7.09	10.5
	8/8/2007							202	0.42	523	7.53	12.1
	10/22/2007							301	0.59	522	6.75	10.8
	5/6/2008							38	0.71	603	7.18	12.3
	10/2/2008							295	2.70	559	7.04	11.2
	4/6/2009							-49	0.89	518	7.57	9.5
	10/29/2009	0.33	0.21	0.51	41.29	0.32	0.0031	-96	0.44	476	7.53	10.3
	2/26/2010	0.48	0.23	0.51	41.82	0.4	0.0042	-97	0.44	535	7.64	9.1
	5/25/2010	0.33	0.24	0.73	49.87	0.49	0.004	-75	0.33	530	7.30	12.2
	10/6/2010	0.45		0.92	58.53		0.0051	-106	0.55	567	8.20	12.1
	1/25/2011			0.45				37	0.56	506	7.76	9.0
	4/13/2011			0.51				-109	0.58	556	7.49	10.7
	7/12/2011			0.35				-91	1.42	485	7.50	11.9
	10/19/2011			0.37				-77	0.89	482	7.92	10.4
	1/23/2012			0.52				-21	0.38	576	7.64	8.8
	4/4/2012			0.353				-56	0.33	646	7.68	10.3
	7/25/2012			0.305				-150	0.31	546	7.64	12.7
	10/17/2012			0.351				-87	0.52	535	7.52	11.5
	1/15/2013			0.517				-187	0.95	549	7.65	9.1
	4/26/2013			0.257				99	0.52	528	7.51	9.9
MW-3A	12/5/2002				20			-312	0.03	589	7.30	9.79
	4/22/2003				26			3	0.66	464	7.52	10.22
	10/22/2003	<0.058			14			-98	0.87	552	7.29	10.06
	1/31/2007							163	0.79	556	7.13	6.1
	5/1/2007							34	1.96	558	6.95	10.2
	8/8/2007							-144	0.74	549	7.32	12.4
	10/19/2007							201	1.07	551	6.51	10.5
	5/6/2008							13	0.33	630	7.55	9.8
	10/1/2008							297	7.35	591	6.89	9.8
	10/28/2009	<0.20	<0.08	0.51	14.67	<0.2	0.0073	-236	0.55	505	7.45	9.5
	5/24/2010	<0.20	0.04	0.49	22.35	0.21	0.0074	-227	0.55	561	7.13	12.5
	10/5/2010	0.05			15.33		0.0397	-204	1.51	600	8.20	11.3
	1/24/2011			0.19				-77	0.74	535	7.30	7.2
	4/13/2011			0.44				-240	1.14	589	7.42	10.8
	7/12/2011			0.19				-213	1.86	512	7.15	11.3
	10/19/2011			0.16				-175	1.25	511	7.76	9.7
	1/23/2012			<0.1				-34	0.70	606	7.09	8.0
	4/4/2012			0.217				-115	0.47	678	7.37	9.4
	7/25/2012			0.101				-265	0.67	584	7.50	13.5
	10/16/2012			<0.1				-175	1.33	564	7.01	10.7
	1/15/2013			0.144				-267	2.03	579	7.49	7.8
	4/26/2013			0.131				-171	1.38	560	7.77	10.2
P-107D	12/4/2002				19					594	7.64	7.90
	4/21/2003				27					388	7.28	10.50
	10/21/2003	<0.058			19			51.40	1.25	528	7.34	10.05
	5/1/2007							113	3.20	583	6.96	12.4
	10/19/2007							261	1.10	581	6.56	10.0
	5/5/2008							61	1.07	653	7.55	10.6
	10/1/2008							354	4.48	607	6.89	10.4
	4/7/2009							-101	2.01	569	7.53	9.1
	10/28/2009	<0.20	<0.08	<0.1	23.84	<0.2	0.073	-188	0.45	528	7.48	10.1
	2/25/2010	0.51	<0.08	<0.1	23.57	<0.2	0.0613	-191	0.74	605	7.50	8.5
	5/24/2010	<0.20	<0.08	0.19	31.82	<0.2	0.163	-147	3.12	618	7.15	11.2
	10/5/2010	0.06		0.03	21.24		0.0737	-132	0.93	619	8.09	10.6
	1/24/2011			0.3				-59	0.79	564	6.62	9.0
	4/12/2011			0.11				-222	0.64	649	7.33	9.9
	7/11/2011			0.12				-211	1.32	2	8.16	11.7
	10/18/2011			0.11				-107	2.61	535	7.69	10.1
	1/23/2012			0.27				-45	0.69	634	7.45	8.9
	4/4/2012			0.235				-105	0.73	740	7.49	9.9
	7/25/2012			<0.1				-207	1.71	627	7.42	12.6
	10/17/2012			0.104				-168	2.13	589	7.53	10.9
	1/16/2013			<0.1				-214	2.30	609	7.46	8.8
	4/26/2013			0.276				-146	2.18	585	7.84	10.3

Table 3. Groundwater Natural Attenuation Parameters
FF/NN Landfill, Ripon, WI

Well ID	Compound	Nitrate	Nitrite	Iron 2	Sulfate	Sulfide	Methane	ORP**	Dissolved Oxygen	Specific Conductivity	pH	Temperature
		NO_3^-	NO_2^-	Fe^{2+}	SO_4^{2-}	S^{2-}	CH_4					
	Detection Range	0.2 to 1.5*	0.08 to 0.8*	0.1 to 2.5*	8 to 100*	0.2 to 3*						
	Target	>	<	<1	>20	<1	<0.5	>50	>0.5			
	Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mV	mg/l	uS/cm	Units	C
P-113A	12/3/2002				12			111.80	20.00	579	7.26	10.39
	4/23/2003				15			42.00	2.98	465	7.50	10.37
	10/22/2003	0.3			10			-62.60	2.23	576	7.30	10.17
	8/8/2007							-140	0.57	544	7.37	13.3
	5/6/2008							-88	0.55	620	7.22	10.4
	4/6/2009							-137	0.74	542	7.42	8.4
	10/29/2009	0.35	0.16	>2.5	31.67	0.37	0.27	-240	0.87	498	7.41	10.7
	5/25/2010	0.26	0.21	>2.5	44.79	0.39	0.169	-183	0.96	554	7.16	15.6
	10/6/2010	0.43			44.48		0.239	-196	0.89	591	7.98	12.8
	1/25/2011			1.09				-78	1.98	533	7.58	5.9
	4/13/2011			0.68				-202	1.13	578	7.46	12.8
	7/12/2011			1.44				-195	1.47	509	7.33	14.3
	10/19/2011			0.94				-141	0.92	509	7.71	10.6
	1/23/2012			0.77				-76	1.20	604	7.67	7.3
	4/4/2012			1.219				-125	0.64	673	7.40	9.9
	7/25/2012			0.893				-257	0.83	585	7.46	15.4
	10/16/2012			0.196				-73	3.31	559	7.36	13.1
	1/15/2013			0.473				-248	1.67	574	7.56	7.0
	4/26/2013			0.814				-120	1.64	555	7.66	11.8
Perry/Watkins	10/29/2009	<0.20	<0.08	>2.5	15.18	<0.2	0.0098	-167	3.00	489	7.55	10.8
	2/26/2010	<0.20			16.34	0.42	0.0067	-159	1.57	549	7.70	8.6
	5/26/2010	<0.20	<0.08	1.7	24.6	<0.2	0.0082	-135	0.91	552	7.35	16.7
	10/6/2010	0.1			20.12		0.0081	-183	1.38	582	8.18	14.4
	1/28/2011								2.42		6.93	10.1
	4/18/2011									410	7.17	10.1
	4/3/2012									519	8.00	11.2
	4/26/2013									600	7.47	11.4
Gaastra	10/29/2009	<0.20	<0.08	0.98	16.04	<0.2	0.01	-163	0.27	490	7.56	10.3
	2/26/2010	<0.20			19.35	<0.2	0.0086	-146	1.22	584	7.45	10.7
	5/26/2010	<0.20	<0.08	2.44	27.28	0.22	0.0121	-156	0.52	553	7.28	17.3
	10/6/2010	0.11			22.65		0.0103	-201	1.14	597	8.22	15.0
	1/26/2011			2.34				33	1.24	552	7.37	7.9
	4/14/2011									620	6.88	13.8
	4/3/2012									538	7.80	11.3
	4/26/2013									585	7.54	11.4
Rohde	11/4/2009	<0.20	<0.08	0.36	19.88	<0.2	0.0011	-76	0.99	500	7.25	10.0
	2/25/2010	<0.20			21.03	<0.2	<0.0028	0	2.61	606	7.61	9.4
	5/26/2010	<0.20	<0.08	0.25	25.64	<0.2	<0.0028	7	1.19	635	6.42	18.53
	10/6/2010	0.08			26.48		ND	-117	1.91	612	8.08	13.7
	1/26/2011			0				116	3.83	571	7.56	7.36
	4/13/2011									550	6.85	7.5
	4/3/2012									528	7.5	11.5
	4/26/2013									581	7.63	12.7

[ ] indicates that sample was not analyzed for that parameter
* detection range only applies to samples collected on or after 10/2009
** ORP is believed to be incorrect from 2/2007 to 10/2008 due to equipment malfunction

Table 4. - Groundwater VOC Analytical Results for Private Drinking Water Wells
FF/NN Landfill, Ripon, WI

		Parameters										
		VOC's							Inorganic			
Private Well ID	Sampling Date	Carbon disulfide *	Methyl ethyl ketone *	Chloromethane	cis-1,2-Dichloroethene	Napthalene	Toluene	Vinyl Chloride	Alkalinity	COD	Chloride	Hardness
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L
WDNR	PAL	1000	460	3	70	100	1000	0.2	NE	NE	250	NE
NR140	ES	200	90	0.3	7	10	200	0.02	NE	NE	125	NE
Regularly Monitored Wells												
Baneck Perry/Watkins Perry	5/9/2001	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA
	11/19/2001 [1]	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA
	2/5/2002	NA	NA	ND	ND	ND	ND	ND	280	3.2	ND	280
	5/22/2002	NA	NA	ND	ND	ND	ND	ND	300	ND	ND	290
	5/22/2002 Dup	NA	NA	ND	ND	ND	ND	ND	300	ND	ND	290
	8/19/2002	ND	ND	ND	ND	ND	ND	ND	300	[3.0]	ND	290
	12/3/2002	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	4/22/2003	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/22/2003	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	07/22/2004	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/12/2004	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	1/28/2005	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	4/27/2005	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	8/2/2005	ND	ND	ND	ND	0.071 QB	ND	ND	NA	NA	NA	NA
	10/26/2005	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	01/31/06	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	4/28/2006	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	7/27/2006 [1]	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/31/2006 [1]	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	2/8/2007 [1]	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	5/1/2007	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	8/9/2007	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/22/2007	ND	ND	0.75 Q	ND	ND	ND	ND	NA	NA	NA	NA
	1/25/2008	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	5/6/2008 [1]	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	7/22/2008	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/3/2008	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	1/28/2009	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	4/6/2009	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	7/14/2009 [2]	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/29/2009 [3]	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	2/26/2010	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	5/26/2010	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/6/2010	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	1/28/2011	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	4/18/2011 [1]	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	4/3/2012	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	4/26/2013	0.68	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA

Table 4. - Groundwater VOC Analytical Results for Private Drinking Water Wells
FF/NN Landfill, Ripon, WI

		Parameters										
		VOC's							Inorganic			
Private Well ID	Sampling Date	Carbon disulfide *	Methyl ethyl ketone *	Chloromethane	cis-1,2-Dichloroethene	Napthalene	Toluene	Vinyl Chloride	Alkalinity	COD	Chloride	Hardness
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L
WDNR	PAL	1000	460	3	70	100	1000	0.2	NE	NE	250	NE
NR140	ES	200	90	0.3	7	10	200	0.02	NE	NE	125	NE
Gaastra	5/9/2001	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA
	11/19/2001 [1]	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA
	2/5/2002	NA	NA	ND	ND	ND	ND	ND	290	ND	ND	280
	5/22/2002	NA	NA	ND	ND	ND	ND	ND	290	ND	ND	270
	8/19/2002	ND	ND	0.24Q	ND	ND	ND	ND	300	ND	ND	280
	12/3/2002	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	4/22/2003	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/22/2003	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/22/2003 dup	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/22/2004	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/12/04	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	1/27/2005	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	4/27/2005	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	8/2/2005	ND	ND	ND	ND	0.071 QB	ND	ND	ND	ND	ND	ND
	10/26/2005	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	01/31/06	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	4/28/2006	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	7/27/2006 [1]	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/31/2006 [1]	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	2/1/2007 [1]	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	5/1/2007	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	8/9/2007	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/22/2007	ND	ND	0.99 Q	ND	ND	ND	ND	NA	NA	NA	NA
	1/25/2008	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	5/6/2008 [1]	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	7/22/2008	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/3/2008	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	1/28/2009	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	4/6/2009	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	7/14/2009 [2]	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/29/2009 [2, 3]	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	2/26/2010	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	5/26/2010	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/6/2010	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	1/26/2011	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	4/14/2011 [1]	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	4/3/2012	ND	ND	ND	ND	ND	ND	0.13J	NA	NA	NA	NA
	4/27/2012	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	4/26/2013	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA

Table 4. - Groundwater VOC Analytical Results for Private Drinking Water Wells
FF/NN Landfill, Ripon, WI

		Parameters										
		VOC's							Inorganic			
Private Well ID	Sampling Date	Carbon disulfide *	Methyl ethyl ketone *	Chloromethane	cis-1,2-Dichloroethene	Napthalene	Toluene	Vinyl Chloride	Alkalinity	COD	Chloride	Hardness
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L
WDNR	PAL	1000	460	3	70	100	1000	0.2	NE	NE	250	NE
NR140	ES	200	90	0.3	7	10	200	0.02	NE	NE	125	NE
Rohde	10/9/2001	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA
	11/19/2001 [1]	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA
	2/4/2002	NA	NA	ND	ND	ND	ND	ND	290	ND	ND	300
	5/22/2002	NA	NA	ND	ND	ND	ND	ND	290	ND	ND	290
	8/20/2002	ND	ND	ND	ND	ND	ND	ND	300	ND	ND	290
	4/22/2003	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/23/2003	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/23/2003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/22/2004	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/12/2004	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	1/28/2005	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	4/27/2005	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	8/2/2005	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/26/2005	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	2/1/2006	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	4/28/2006	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	7/28/2006 [1]	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/31/2006	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	2/8/2007 [1]	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	5/1/2007	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	8/9/2007	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/22/2007	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	1/25/2008	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	5/6/2008 [1]	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	7/22/2008	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/3/2008	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	1/28/2009	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	4/6/2009	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	7/14/2009 [3]	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	11/4/2009 [3]	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	2/25/2010	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	5/26/2010	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/6/2010	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	1/26/2011	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	4/14/2011	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	4/3/2012	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	4/26/2013	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA

Underline values indicate PAL exceedance
Bold values indicate ES exceedance
Q = detected at less than quantitation limit
B= detected in trip blank
ND= not detected above the level of detection
NA = not analyzed
NR = not required to analyze

PAL = Preventive Action Limit
ES = Enforcement Standard
NE = None Established

[1] Methylene Chloride was detected and is assumed to be a laboratory artifact

[2] Acetone was detected and is assumed to be a laboratory artifact

[3] Chloromethane was detected and is assumed to be lab introduced

Monitoring began in 1993. See prior report submittals to WDNR for results prior to 2001.
See Table 2 for monitoring wells for Ehster, Hadel and Wiese data
*Began analyzing using method 542.2 with August 2002 event

Table 5. Leachate VOC Analytical Results for Leachate Wells
FF/NN Landfill
Ripon, Wisconsin

			Parameter																						
Leachate Well ID	Year	Date	Benzene	2-Butanone (MEK)	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloromethane	Dichlorodifluoromethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	cis-1,2-Dichloroethene	Ethylbenzene	Naphthalene	n-Propylbenzene	Tetrachloroethene	Tetrahydrofuran	Toluene	1,2,4-Trichlorobenzene	Trichloroethene	Vinyl Chloride	Xylenes (Total)	Methyl-t-butyl ether
LC-1	1993	5/12	ND	ND	ND	ND	ND	ND	NA	25	25	ND	ND	410	92	NA	NA	ND	NA	170	NA	18J	76	320	NA
		5/12 Dup	ND	ND	ND	ND	ND	ND	NA	36	36	43	ND	550	110	NA	NA	ND	NA	290	NA	ND	71	410	NA
		6/24	1J	ND	ND	ND	5	ND	NA	1	1	0.8J	ND	13	12	NA	NA	ND	NA	20	NA	ND	6	85	NA
		6/24 Dup	ND	ND	ND	ND	6D	ND	NA	2	2	1DJ	ND	13D	11D	NA	NA	ND	NA	23D	NA	ND	7D	82D	NA
	1996	5/10	2.2	ND	ND	ND	ND	4J	ND	ND	ND	ND	ND	0.46J	4J	NA	ND	ND	NA	ND	ND	ND	ND	86	NA
		10/31	ND	ND	ND	0.58J	1.5	ND	ND	ND	ND	ND	ND	ND	8.3	NA	ND	ND	NA	4.7	ND	ND	ND	280	NA
	1997	5/13	1.7	ND	90	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		10/28	3.6	5.9	ND	0.23	9.4	ND	ND	ND	ND	0.87	ND	ND	3.6	6.8	ND	ND	97	1.2	ND	ND	ND	29	1.1
	1998	4/14	3.8	ND	ND	ND	35	ND	ND	ND	ND	ND	ND	ND	ND	13	ND	ND	110	ND	ND	ND	ND	50	ND
		10/14	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	19	18	ND	ND	NA	ND	ND	ND	ND	100	ND
	1999	4/28*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		10/28*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2000	5/02*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		10/30*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2001	5/9*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		10/9*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2002	2/5*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		5/22*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		8/19 *	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2003	4/22*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2004	4/28*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2005	*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2006	*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2007	*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2008	5/6*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2009	4/9*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2010	5/26*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2011	4/14*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2012	4/4*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 5. Leachate VOC Analytical Results for Leachate Wells
FF/NN Landfill
Ripon, Wisconsin

			Parameter																						
Leachate Well ID	Year	Date	Benzene	2-Butanone (MEK)	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloromethane	Dichlorodifluoromethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	cis-1,2-Dichloroethene	Ethylbenzene	Naphthalene	n-Propylbenzene	Tetrachloroethene	Tetrahydrofuran	Toluene	1,2,4-Trichlorobenzene	Trichloroethene	Vinyl Chloride	Xylenes (Total)	Methyl-t-butyl ether
LC-2	1993	5/12	5	ND	ND	18	ND	ND	ND	ND	ND	380D	ND	ND	49	NA	NA	ND	NA	71	NA	ND	ND	160D	NA
		6/24	10	ND	ND	20	ND	ND	ND	ND	ND	170D	ND	ND	54	NA	NA	ND	NA	27	NA	ND	ND	180	NA
	1996	5/10	4.0	ND	ND	10	5	ND	ND	NA	NA	ND	0.2J	ND	ND	NA	NA	ND	NA	0.6J	NA	ND	ND	20	NA
		10/31	6.6	ND	ND	24	8.1	ND	ND	ND	ND	11	0.22J	3.1	42	NA	NA	2.7	NA	6.8	NA	0.56J	ND	140	NA
	1997	5/13	5.8	ND	ND	17	ND	ND	ND	ND	ND	8.3	ND	ND	ND	4.4	ND	ND	ND	ND	ND	ND	ND	34	ND
		10/28	7.0	2.3	ND	25	6.4	ND	ND	0.59	0.23	8.2	ND	ND	18	8.9	ND	ND	240J	1.4	0.18	ND	ND	40	1.6
	1998	4/14	ND	ND	ND	25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	200	ND	ND	ND	ND	ND	ND
		10/14	4.0	NA	NA	91	ND	ND	ND	ND	ND	18	ND	ND	45	7.1	ND	ND	NA	ND	ND	ND	ND	39	1.3
	1999	4/7	6.2	NA	NA	44	ND	ND	ND	ND	ND	28	ND	ND	150	7.1	2.8	ND	NA	ND	ND	ND	ND	380	ND
		10/28	8.0	ND	NA	45	ND	ND	ND	ND	ND	30	ND	ND	280	12	ND	ND	240	ND	ND	ND	ND	750	ND
	2000	5/02	8.1	ND	ND	45	ND	ND	ND	ND	ND	30	ND	ND	190	3.6	ND	ND	190	ND	ND	ND	ND	670	ND
		10/30	10	ND	NA	47	ND	ND	ND	ND	ND	33	ND	ND	130	ND	ND	ND	200	0.68	ND	ND	ND	430	2.0
	2001	5/09	ND	ND	NA	ND	ND	ND	1.0	ND	ND	19	ND	ND	ND	ND	ND	ND	200	ND	ND	ND	ND	ND	ND
		10/9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2002	2/5	13	NA	NA	67	ND	ND	ND	ND	ND	39	ND	ND	180	13	7	ND	NA	ND	ND	ND	ND	720	ND
		5/22	14	NA	NA	51	ND	ND	ND	ND	ND	33	ND		96	ND	ND	ND	ND	ND	ND	ND	ND	570	NA
	2003	4/22	12	ND	ND	43	ND	ND	ND	ND	ND	30	ND	ND	210	10	NA	ND	170	ND	NA	ND	ND	980	ND
	2004	4/28	9	ND	ND	30	1.8 Q	ND	ND	ND	ND	23	ND	ND	88	4.4	NA	ND	130	1.5 Q	NA	ND	ND	470 D	0.87 Q
	2005	8/3	11	ND	ND	43	ND	ND	ND	ND	ND	25	ND	ND	92	3.7	NA	ND	180	ND	NA	ND	ND	770	ND
	2006	4/28	13	ND	ND	45	ND	ND	ND	ND	ND	33	ND	ND	85	17	NA	ND	220	ND	NA	ND	ND	1100	ND
	2007	5/02	12	ND	ND	50	ND	ND	ND	ND	ND	22	ND	ND	52	6.3	NA	ND	170	ND	NA	ND	ND	780	ND
	2008	5/6	7.6	ND	ND	58.2	ND	ND	ND	ND	ND	13.1	ND	ND	43.3	11.3	NA	ND	128	2.1	NA	ND	ND	337	ND
	2009	4/9	10.9	ND	ND	45.9	ND	ND	ND	ND	ND	16.3	ND	ND	91.3	6.9J	NA	ND	138	ND	NA	ND	ND	618	ND
	2010	5/26	13.7	ND	ND	45.2	ND	ND	ND	ND	ND	18.6	ND	ND	ND	12.7J	ND	ND	187	ND	ND	ND	ND	953	ND
	2011	4/14	17	ND	ND	42	ND	ND	ND	ND	ND	18.5	ND	ND	60.5	7.5J	ND	ND	151	ND	ND	ND	ND	876	ND
	2012	4/4	15.6	ND	ND	58.5	ND	ND	ND	ND	ND	17.8	ND	ND	38.6	27	ND	ND	245	ND	ND	ND	ND	867	ND
	2013	4/24	13.6	ND	ND	43	ND	ND	ND	ND	ND	17.8	ND	ND	38.6	27	ND	ND	245	ND	ND	ND	ND	867	ND

Table 5. Leachate VOC Analytical Results for Leachate Wells
FF/NN Landfill
Ripon, Wisconsin

			Parameter																						
Leachate Well ID	Year	Date	Benzene	2-Butanone (MEK)	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloromethane	Dichlorodifluoromethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	cis-1,2-Dichloroethene	Ethylbenzene	Naphthalene	n-Propylbenzene	Tetrachloroethene	Tetrahydrofuran	Toluene	1,2,4-Trichlorobenzene	Trichloroethene	Vinyl Chloride	Xylenes (Total)	Methyl-t-butyl ether
LC-3	1993	5/12*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		6/24*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1996	5/10*	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		10/31*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1997	5/13*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		10/28*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1998	4/14*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		10/14*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1999	4/28*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		10/28*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2000	5/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5800	ND	ND	ND	ND	ND	65	ND	ND	330	ND	ND
		10/30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2001	5/9*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		10/9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2002	2/5*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		5/22*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		8/19 *	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2003	4/22*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2004	4/28*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2005	*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2006	*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2007	5/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	170	13	ND	NA	ND	290	35	NA	ND	13	65	ND
	2008	5/6*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2009	4/9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	296	2.2	ND	NA	ND	22	13.6	NA	22	11.3	17.3	<6.1
	2010	5/26	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1180	ND	ND	ND	ND	20.6J	29.8	ND	23.8	14.5	47.5	ND
	2011	4/14	ND	63.7J	6.2	ND	ND	ND	ND	4.3J	ND	ND	ND	373	16.5	ND	ND	ND	38.9	81.2	ND	19.6	25.8	79.4	ND
	2012	4/4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	867	17.4	ND	ND	ND	30.0 J	82.9	ND	18.3	79.5	83.7	ND
	2013	4/24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	573	15.5	ND	ND	ND	ND	71.2	ND	18.4	50.9	91.9	ND

Notes:
* = Insufficient water for sample collection
D = Analyte was identified in an analysis a a secondary dilution factor
J = Estimated Values; Below the Quantitation Limit
NA = Not analyzed
ND = Not detected
Many samples results indicated the presence of methylene chloride and/or acetone.
Validation of the data indicated that these compounds were not actually present in the water from the leachate wells.
These, and other compounds not detected in the samples are not included on the summary table.

All concentrations are in parts per billion (ppb)

Contaminants are not compared to NR140 Prevention Action Limits and Enforcement Standards because those standards do not apply to leachate.

Table 6a. Landfill Gas Field Parameter Monitoring Results of Active Extraction Points

Active Extraction Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
LC-1	11:31	3/20/2006	61.5	37.7	0.7	0.1	pre-startup
	10:02	3/22/2006	43.6	26.3	6.4	23.7	
	15:32	3/22/2006	56.0	33.3	3.8	6.9	
	8:29	3/23/2006	50.1	29.5	4.3	16.1	
	16:35	3/23/2006	44.2	24.6	4.9	26.3	
	15:40	3/24/2006	18.8	11.8	15.9	53.5	
	14:25	3/28/2006	7.0	8.7	10.8	73.5	
	18:58	3/30/2006	15.8	21.0	6.9	56.3	
	13:50	4/5/2006	11.2	17.1	9.8	61.9	
	12:50	4/6/2006	6.2	9.0	13.9	70.9	
	13:10	4/11/2006	9.6	16.7	8.6	65.1	
	10:45	4/14/2006	11.2	17.9	7.2	63.7	
	15:26	4/14/2006	12.2	24.1	4.0	59.7	
	9:58	4/17/2006	16.7	30.2	5.3	47.8	
	19:12	4/27/2006	7.8	17.5	2.9	71.8	
	13:12	5/4/2006	6.1	18.7	2.0	73.2	
	10:17	5/22/2006	5.8	21.6	1.3	71.3	
	12:20	6/2/2006	18.0	22.7	0.6	58.7	
	8:20	6/9/2006	1.1	0.2	20.4	78.3	
	12:34	6/14/2006	3.9	0.6	20.2	75.3	
	10:41	6/22/2006	3.3	7.6	13.8	75.3	
	12:06	7/5/2006	3.7	12.5	10.1	73.7	
	11:31	7/10/2006	3.5	10.9	11.8	73.8	
	10:49	7/17/2006	3.9	10.7	11.8	73.6	
	14:00	7/28/2006	5.0	12.0	10.2	72.8	
	9:46	8/8/2006	2.7	9.5	12.9	74.9	
	7:20	8/16/2006	2.4	6.6	14.5	76.5	
	7:12	8/21/2006	0.1	0.2	15.1	84.6	
	14:07	8/28/2006	2.1	12.5	12.4	73.0	
	11:21	9/13/2006	0.6	0.6	13.3	85.5	
	11:19	9/25/2006	0.0	0.0	16.2	83.8	
	8:18	10/10/2006	2.7	8.4	14.8	74.1	
	8:19	10/23/2006	2.0	1.5	12.8	83.7	
	14:00	11/2/2006	3.8	21.6	1.7	72.9	
	14:54	11/14/2006	7.5	23.0	0.7	68.8	
	11:26	11/27/2006	5.5	23.0	0.4	71.1	
	12:57	12/26/2006	5.0	23.6	0.3	71.1	
	13:57	1/27/2007	9.5	22.8	0.3	67.4	
	11:20	2/24/2007	6.5	23.0	0.8	69.7	
	11:20	3/1/2007	17.5	23.2	1.8	57.5	
	12:28	3/1/2007	16.5	23.2	1.8	58.5	
	14:30	3/1/2007	15.5	22.8	1.6	60.1	
	8:10	3/5/2007	sampling port clogged with ice				adjust blower time, 12 on, 12 off
	8:10	3/24/2007	15.5	23.0	1.8	59.7	
	16:55	3/24/2007	14.0	22.2	2.2	61.6	
	17:10	3/26/2007	11.0	21.6	2.2	65.2	
	7:28	3/27/2007	10.0	22.4	1.7	65.9	
	16:27	3/28/2007	11.0	22.8	1.5	64.7	
	8:04	3/29/2007	11.5	23.0	1.5	64.0	
	17:00	3/29/2007	11.0	22.8	1.5	64.7	

Active Extraction Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
LC-1	8:04	3/30/2007	13.0	24.0	1.0	62.0	blower off
	11:34	5/30/2007	43.0	28.0	2.0	27.0	restart and run 24 hrs
	13:35	5/30/2007	40.0	26.2	2.6	31.2	
	10:30	5/31/2007	0.1	0.0	20.7	79.2	reduce to 12 on 12 off
	16:32	6/1/2007	0.1	0.0	20.7	79.2	
	15:30	6/2/2007	20.0	22.8	1.7	55.5	
	16:09	6/3/2007	18.0	22.2	1.9	57.9	
	14:12	6/4/2007	16.5	21.8	2.2	59.5	reduce to 6 on 18 off
	15:10	6/7/2007	17.0	21.6	2.3	59.1	
	17:16	6/12/2007	10.5	21.0	2.1	66.4	
	14:49	6/14/2007	11.0	20.8	2.2	66.0	
	14:40	6/19/2007	10.5	21.0	2.2	66.3	
	14:40	6/21/2007	11.0	21.2	2.0	65.8	
	14:30	7/11/2007	11.5	21.4	2.0	65.1	
	14:00	7/23/2007	12.0	21.8	2.0	64.2	
	14:07	8/8/2007	12.0	21.6	2.2	64.2	
	13:30	8/13/2007	13.5	22.8	2.2	61.5	
	14:10	8/20/2007	10.0	21.4	2.8	65.8	
	14:25	8/28/2007	8.5	20.8	2.7	68.0	
	15:55	8/31/2007	5.5	18.2	4.2	72.1	
	14:55	9/4/2007	4.5	17.2	4.1	74.3	
	13:25	9/17/2007	3.2	15.4	5.1	76.4	
	9:50	9/29/2007	3.0	15.2	5.6	76.2	
	8:45	10/4/2007	3.1	15.2	5.6	76.1	
	9:45	10/7/2007	3.7	15.6	4.8	75.9	
	9:50	10/18/2007	6.0	17.0	3.6	73.4	
	9:00	10/25/2007	5.0	17.2	3.8	74.0	
	9:20	11/1/2007	6.0	18.6	2.2	73.2	
	10:25	11/13/2007	11.5	18.6	3.4	66.5	
	11:30	11/26/2007	4.8	16.2	4.8	74.3	
	11:00	12/10/2007	5.0	16.0	5.4	73.6	
	11:50	12/26/2007	5.5	16.6	4.3	73.6	
	10:15	1/9/2008	6.0	17.0	3.7	73.3	
	12:10	1/23/2008	5.0	15.8	5.2	74.0	
	9:20	2/4/2008	8.0	17.4	3.3	71.3	
	7:50	2/18/2008	12.0	17.6	3.8	66.6	
	7:30	3/4/2008	20.0	18.0	6.0	56.0	
	8:50	3/18/2008	23.0	19.8	3.9	53.3	
	14:30	5/12/2008	14.5	21.0	1.5	63.0	
	9:15	5/19/2008	4.4	17.4	2.4	75.9	
	13:50	5/30/2008	6.5	18.2	1.2	74.1	
	9:20	6/12/2008	3.8	19.0	2.6	74.6	
	9:20	6/25/2008	9.5	21.6	0.5	68.4	
	11:10	7/7/2008	6.0	19.4	1.3	73.3	opened GV-6 to 200 ft/min
	12:25	7/21/2008	6.5	20.6	1.1	71.8	
	9:50	8/5/2008	7.0	20.2	1.7	71.1	
	9:10	8/13/2008	12.5	23.2	0.1	64.2	increase to 12 on 12 off
	8:45	8/19/2008	8.0	21.2	2.2	68.6	
	14:15	9/2/2008	6.5	20.6	1.1	71.8	
	11:41	10/3/2008	8.0	21.6	0.8	69.6	

Table 6a. Landfill Gas Field Parameter Monitoring Results of Active Extraction Points

Active Extraction Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
LC-1	10:40	10/13/2008	9.0	22.4	0.6	68.0	
	9:15	10/28/2008	9.0	23.4	0.0	67.6	
	7:40	11/6/2008	10.5	22.2	0.6	66.7	
	10:25	12/8/2008	7.0	21.4	1.4	70.2	
	10:20	12/24/2008	6.0	20.4	1.2	72.4	decrease to 10 on
	12:00	1/8/2008	5.0	15.4	2.4	77.2	
	11:25	1/18/2009	8.5	23.0	0.3	68.2	
	7:40	1/27/2009	5.0	18.0	4.9	72.1	
	8:40	2/6/2009	4.8	16.4	5.2	73.7	
	11:00	2/23/2009	3.9	17.4	4.5	74.3	decrease to 8 on
	10:20	3/9/2009	8.0	21.2	0.1	70.7	
	10:20	3/20/2009	10.0	21.8	0.6	67.6	
	11:46	4/9/2009	13.0	22.2	0.2	64.6	
	10:45	4/19/2009	5.6	18.2	2.1	74.1	
	8:05	5/4/2009	8.5	16.2	5.5	69.8	
	8:40	5/18/2009	4.3	17.6	3.4	74.8	
	9:35	6/1/2009	7.0	15.4	5.2	72.4	
	9:00	6/14/2009	5.0	18.8	1.5	74.7	
	8:45	7/2/2009	13.5	21.2	1.6	63.7	
	7:30	7/13/2009	7.0	12.6	8.6	71.8	
	8:20	7/22/2009	5.0	20.4	1.3	73.3	
	8:50	8/11/2009	4.6	17.4	4.1	74.0	
	8:45	8/24/2009	4.3	16.8	4.5	74.5	decrease to 6 on 18 off
	9:25	9/8/2009	10.0	21.6	0.6	67.8	
	9:20	9/21/2009	15.0	23.8	0.0	61.2	
	10:15	10/5/2009	15.0	23.8	0.1	61.1	
	11:00	10/28/2009	16.0	23.2	1.3	59.5	
	10:50	11/16/2009	7.5	21.8	0.8	69.9	
	10:00	12/18/2009	24.0	23.8	0.0	52.2	
	9:10	12/28/2009	27.0	27.0	0.0	46.0	
	9:50	1/11/2010	24.0	26.0	0.0	50.0	
	8:30	1/26/2010	26.0	26.0	0.0	48.0	
	12:00	2/25/2010	19.5	24.6	0.0	55.9	
	9:50	3/8/2010	20.0	24.0	0.0	56.0	
	9:25	3/22/2010	18.0	23.0	0.0	59.0	
	9:28	4/5/2010	17.0	23.0	0.0	60.0	
	9:18	4/19/2010	16.5	23	0	60.5	
	9:22	5/3/2010	20.0	23.6	0.0	56.4	
	9:47	5/17/2010	20.0	24.0	0.0	56.0	
	9:10	5/25/2010	10.5	22.8	0.0	66.7	
	9:15	6/24/2010	13.0	21.0	1.4	64.6	
	10:15	7/6/2010	6.0	20.4	1.5	72.1	
	9:08	7/19/2010	7.0	19.6	3.0	70.4	
	9:00	8/2/2010	6.5	19.4	2.2	71.9	
	9:50	8/16/2010	12.5	21.6	1.1	64.8	
	8:52	8/30/2010	21.0	24.2	0.7	54.1	
	9:08	9/13/2010	26.5	25.2	1.1	47.2	
	9:40	9/28/2010	29.5	26.0	1.1	43.4	
	8:05	10/12/2010	24.5	25.2	1.7	48.6	
	9:22	10/25/2010	24.5	25.4	1.1	49.0	

Table 6a. Landfill Gas Field Parameter Monitoring Results of Active Extraction Points

Active Extraction Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
	9:36	11/2/2010	16.0	24.2	1.5	58.3	
	8:49	11/15/2010	15.5	23.4	1.5	59.6	
	9:45	12/10/2010	14.0	22.8	1.5	61.7	
	9:00	12/23/2010	15.5	22.6	1.6	60.3	
	9:18	1/10/2011	11.5	22.2	1.6	64.7	
	12:15	2/11/2011	34.0	24.6	1.7	39.7	
	9:20	3/7/2011	4.9	15.2	6.5	73.5	
	11:50	3/24/2011	19.5	22.2	0.7	57.6	
	8:55	4/6/2011	22.9	23.4	0.3	53.4	
	8:19	4/25/2011	23.5	23.0	0.6	52.9	
	8:52	5/9/2011	34.5	24.6	0.3	40.6	
	9:12	5/23/2011	38.0	25.4	0.3	36.3	
	10:50	6/6/2011	40.0	26.0	0.3	33.7	
	9:08	6/15/2011	41.5	26.2	0.3	32.0	
	9:15	7/5/2011	35.5	26.0	0.3	38.2	
	8:06	7/13/2011	31.0	26.0	0.2	42.8	
	8:20	7/26/2011	32.0	26.6	0.3	41.1	
	8:15	8/8/2011	19.0	24.1	0.3	56.6	
	7:50	8/23/2011	16.0	24.4	0.3	59.3	
	15:19	9/9/2011	28.5	28.0	0.5	43.0	
	16:03	9/15/2011	15.0	25.2	0.8	59.0	
	8:31	9/21/2011	17.5	22.8	2.6	57.1	
	9:38	9/21/2011	14.5	21.5	3.2	60.8	
	9:29	9/22/2011	17.5	24.4	1.6	56.5	
	10:11	9/22/2011	16.0	22.2	3.3	58.5	
	10:57	9/22/2011	16.0	24.2	1.6	58.2	
	10:46	10/3/2011	7.5	21.2	2.4	68.9	
	13:55	10/24/2011	11.0	23.0	1.0	65.0	
	11:00	10/26/2011	12.0	23.6	1.3	63.1	
	10:45	11/7/2011	10.5	23.4	0.5	65.6	
	9:20	11/14/2011	14.5	24.0	0.1	61.4	
	9:18	12/12/2011	12.7	24.2	0.2	62.9	
LC-1	10:24	12/27/2011	36.5	27.2	0.2	36.1	
	8:45	1/10/2012	24.5	25.4	0.1	50.0	
	10:10	1/25/2012	26.0	27.2	0.3	46.5	
	9:20	2/20/2012	32.5	26.6	0.6	40.3	
	9:10	3/8/2012	30.5	25.4	1.8	42.3	
	10:25	4/2/2012	24.0	25.2	0.9	49.9	
	9:09	4/16/2012	26.5	25.4	0.9	47.2	
	9:00	4/30/2012	16.5	23.0	1.5	59.0	
	9:21	5/14/2012	18.0	22.8	1.7	57.5	
	9:14	5/29/2012	24.5	24.6	1.1	49.8	
	7:57	6/11/2012	27.5	25.4	0.9	46.2	
	9:46	6/25/2012	24.5	25.2	1.0	49.3	
	9:05	7/9/2012	23.0	25.4	0.9	50.7	
	8:40	7/23/2012	7.0	20.2	2.2	70.6	
	8:21	7/25/2012	8.0	20.8	2.0	69.2	
	9:05	8/6/2012	8.0	21.4	1.7	68.9	
	9:31	8/21/2012	9.5	21.6	1.3	67.6	
	9:15	9/4/2012	7.0	19.8	2.0	71.2	
	9:10	10/1/2012	6.0	18.2	4.2	71.6	
	8:30	10/15/2012	4.5	11.4	9.2	75.0	
	7:55	12/6/2012	13.0	21.0	1.3	64.7	
	9:30	12/17/2012	17.0	21.2	0.8	61.0	
	9:00	12/31/2012	24.5	23.6	1.1	50.8	
	~~8:30~~	~~1/9/2013~~	~~29.5~~	~~24.0~~	~~1.1~~	~~45.4~~	
	8:05	1/15/2013	30.0	24.6	0.0	45.4	
	9:11	1/28/2013	27.0	23.4	0.6	49.0	
	10:55	2/11/2013	41.0	27.0	0.0	32.0	
	9:22	2/25/2013	44.5	26.0	0.0	29.5	
	7:40	3/8/2013	48.0	26.4	0.1	25.5	
	8:55	3/22/2013	50.5	26.0	0.1	23.4	
	14:00	4/8/2013	32.0	24.8	0.3	42.9	
	15:20	4/22/2013	12.0	21.6	0.4	66.0	
	9:39	4/29/2013	11.0	20.4	0.1	68.5	

Table 6a. Landfill Gas Field Parameter Monitoring Results of Active Extraction Points

Active Extraction Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
LC-2	11:09	3/20/2006	61.9	36.8	1.0	0.3	pre-startup
	9:52	3/22/2006	50.2	28.3	4.9	16.6	
	15:51	3/22/2006	49.9	35.2	7.4	7.5	
	8:52	3/23/2006	45.2	27.1	6.8	20.9	
	16:52	3/23/2006	54.3	32.5	3.5	9.7	
	15:20	3/24/2006	25.5	14.8	15.3	44.4	
	15:10	3/28/2006	18.7	12.0	13.5	55.8	
	19:09	3/30/2006	52.6	28.7	3.7	15.0	
	13:45	4/5/2006	35.5	20.5	8.2	35.8	
	13:25	4/6/2006	33.4	21.0	9.1	36.5	
	13:35	4/11/2006	33.4	21.7	9.9	35.0	
	10:57	4/14/2006	58.5	39.5	2.0	0.0	
	15:56	4/14/2006	33.6	20.0	7.9	38.5	
	10:20	4/17/2006	30.0	20.0	4.3	45.7	
	19:59	4/27/2006	51.7	26.8	4.2	17.3	
	13:28	5/4/2006	43.6	24.8	4.2	27.4	
	12:00	5/22/2006	48.8	28.9	4.3	18.0	
	8:41	6/9/2006	34.2	20.0	10.5	35.3	
	13:05	6/14/2006	30.1	20.2	8.3	41.4	
	11:05	6/22/2006	45.1	35.4	5.1	14.4	
	12:09	7/5/2006	44.4	44.5	5.8	5.3	
	10:50	7/10/2006	0.1	0.2	5.4	94.3	
	10:15	7/17/2006	42.7	32.7	5.8	18.8	
	14:15	7/28/2006	43.6	33.4	4.7	18.3	
	9:51	8/8/2006	45.4	36.2	4.1	14.3	
	9:30	8/16/2006	31.2	24.6	8.6	35.6	
	8:38	8/21/2006	2.4	10.2	3.7	83.7	
	14:22	8/28/2006	20.0	36.2	4.2	39.6	
	11:36	9/13/2006	28.2	37.0	4.0	30.8	
	11:34	9/25/2006	2.4	0.8	5.9	90.9	
	8:32	10/10/2006	49.8	41.7	5.1	3.4	
	8:42	10/23/2006	37.8	29.5	7.6	25.1	
	14:20	11/2/2006	42.5	28.4	3.6	25.5	
	15:16	11/14/2006	39.5	28.2	3.5	28.8	
	11:40	11/27/2006	48.5	33.2	0.3	18.0	
	13:30	12/26/2006	44.0	29.4	2.6	24.0	
	14:10	1/27/2007	44.5	27.6	3.1	24.8	
	11:28	2/24/2007	9.0	0.2	20.5	70.3	
	11:02	3/1/2007	37.2	28.2	1.5	33.1	
	12:26	3/1/2007	36.0	29.0	1.5	33.5	
	14:45	3/1/2007	33.0	27.6	2.1	37.3	
	8:05	3/5/2007	1.1	1.0	19.7	78.3	adjust blower time, 12 on, 12 off
	8:00	3/24/2007	36.0	28.4	1.2	34.4	
	16:45	3/24/2007	36.0	28.0	1.0	35.0	
	17:00	3/26/2007	33.5	27.4	0.9	38.2	
	7:19	3/27/2007	33.5	27.4	1.0	38.1	
	16:35	3/28/2007	36.0	28.2	0.9	34.9	
	7:50	3/29/2007	36.5	28.6	0.8	34.1	
	16:52	3/29/2007	35.5	28.2	0.7	35.6	
	7:56	3/30/2007	11.5	11.0	11.5	66.0	blower off

Table 6a. Landfill Gas Field Parameter Monitoring Results of Active Extraction Points

Active Extraction Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
LC-2	11:45	5/30/2007	44.5	27.4	1.9	26.2	restart and run 24 hrs
	13:45	5/30/2007	46.0	28.2	1.5	24.3	
	10:20	5/31/2007	40.0	26.0	1.3	32.7	reduce to 12 on 12 off
	16:25	6/1/2007	40.5	25.4	1.4	32.7	
	15:20	6/2/2007	40.5	25.4	1.2	32.9	
	16:00	6/3/2007	39.5	25.2	1.4	33.9	
	14:04	6/4/2007	39.5	25.2	1.5	33.8	reduce to 6 on 18 off
	14:43	6/7/2007	39.5	25.0	1.4	34.1	
	16:46	6/12/2007	40.5	25.6	1.2	32.7	
	14:20	6/14/2007	40.5	25.4	1.2	32.9	
	13:55	6/19/2007	39.5	25.8	1.2	33.5	
	14:00	6/21/2007	39.5	25.4	1.5	33.6	
	13:50	7/11/2007	38.0	25.8	1.5	34.7	
	13:30	7/23/2007	38.5	26.6	1.4	33.5	
	14:17	8/8/2007	38.5	27.8	1.2	32.5	
	14:00	8/13/2007	38.5	28.2	1.5	31.8	
	13:20	8/20/2007	34.5	25.2	3.1	37.2	
	13:45	8/28/2007	36.5	27.8	1.3	34.4	
	15:30	8/31/2007	30.0	26.0	2.5	41.5	
	14:25	9/4/2007	26.0	26.0	2.0	46.0	
	12:55	9/17/2007	17.5	23.6	3.2	55.7	
	9:15	9/29/2007	17.5	23.8	2.9	55.8	
	8:15	10/4/2007	18.5	25.0	1.8	54.7	
	9:15	10/7/2007	19.0	25.2	1.7	54.1	
	9:30	10/18/2007	17.5	21.4	4.2	56.9	
	8:35	10/25/2007	23.0	25.2	2.3	49.5	
	8:50	11/1/2007	26.5	27.0	1.0	45.5	
	9:55	11/13/2007	28.0	25.8	1.8	44.4	
	11:05	11/26/2007	27.0	25.4	2.0	45.6	
	10:30	12/10/2007	26.0	25.8	2.1	46.1	
	11:15	12/26/2007	26.0	25.0	2.0	47.0	
	9:40	1/9/2008	24.5	21.6	4.7	49.2	
	11:58	1/23/2008	19.0	18.2	7.4	55.4	
	8:50	2/4/2008	17.0	15.4	9.4	58.2	
	7:20	2/18/2008	25.5	20.4	6.3	47.8	
	7:15	3/4/2008	30.5	21.2	7.1	41.2	
	8:25	3/18/2008	32.5	22.6	5.5	39.4	
	13:45	5/12/2008	43.0	25.8	2.5	28.7	
	8:45	5/19/2008	41.0	26.0	2.0	31.0	
	13:20	5/30/2008	31.0	23.6	3.2	42.2	
	8:35	6/12/2008	35.5	20.0	1.3	43.2	
	8:45	6/25/2008	33.0	24.8	3.6	38.6	
	10:45	7/7/2008	32.0	27.0	1.7	39.3	opened GV-6 to 200 ft/min
	12:20	7/21/2008	34.5	28.2	1.5	35.8	
	10:00	8/5/2008	34.5	27.6	2.1	35.8	
	9:20	8/13/2008	36.5	27.8	2.8	32.9	increase to 12 on 12 off
	9:05	8/19/2008	40.0	29.6	0.4	30.0	
	14:40	9/2/2008	34.0	29.6	1.3	35.1	
	11:49	10/3/2008	34.5	29.4	1.8	34.3	
	10:25	10/13/2008	36.5	29.8	1.7	32.0	

Table 6a. Landfill Gas Field Parameter Monitoring Results of Active Extraction Points

Active Extraction Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
LC-2	9:35	10/28/2008	38.5	30.2	2.4	28.9	
	8:00	11/6/2008	39.0	30.4	1.5	29.1	
	10:55	12/8/2008	41.5	32.2	1.2	25.1	
	9:50	12/24/2008	23.0	20.8	7.0	49.2	decrease to 10 on
	11:20	1/8/2009	25.0	23.4	5.1	46.5	
	11:35	1/18/2009	13.5	19.8	5.5	61.2	
	7:45	1/27/2009	35.5	31.0	0.7	32.8	
	8:15	2/6/2009	26.5	25.2	3.5	44.8	
	10:15	2/23/2009	23.5	25.8	2.0	48.7	decrease to 8 on
	9:50	3/9/2009	23.0	23.8	3.7	49.5	
	9:40	3/20/2009	29.5	28.6	0.5	41.4	
	12:25	4/9/2009	47.0	18.6	2.0	32.4	
	10:15	4/19/2009	35.0	28.2	0.3	36.5	
	8:15	5/4/2009	29.0	27.8	0.3	42.9	
	8:30	5/18/2009	27.5	28.2	0.0	44.3	
	9:45	6/1/2009	23.0	26.8	0.0	50.2	
	9:20	6/14/2009	23.5	27.6	0.0	48.9	
	9:00	7/2/2009	26.5	26.0	1.3	46.2	
	7:45	7/13/2009	32.0	28.6	0.0	39.4	
	8:30	7/22/2009	33.9	28.6	0.0	37.5	
	9:10	8/11/2009	31.0	29.0	0.0	40.0	
	9:00	8/24/2009	27.5	29.0	0.0	43.5	decrease to 6 on 18 off
	9:45	9/8/2009	30.5	29.6	0.0	39.9	
	9:38	9/21/2009	30.5	27.0	1.5	41.0	
	10:40	10/5/2009	38.5	30.8	0.0	30.7	
	10:50	10/28/2009	43.5	31.8	0.0	24.7	
	11:15	11/16/2009	40.0	30.6	0.6	28.8	
	9:50	12/18/2009	44.5	33.0	0.1	22.4	
	8:50	12/28/2009	49.0	33.2	0.0	17.8	
	9:00	1/11/2010	50.0	33.4	0.0	16.6	
	8:39	1/26/2010	55.5	33.6	0.0	10.9	
	11:50	2/25/2010	45.0	27.8	3.3	23.9	
	9:40	3/8/2010	53.5	31.8	0.0	14.7	
	9:10	3/22/2010	52.5	30.8	0.4	16.3	
	9:15	4/5/2010	52.5	30.8	0.2	16.5	
	9:30	4/19/2010	53.5	31.0	0.3	16.5	
	9:30	5/3/2010	52.5	30.8	0.0	16.7	
	10:10	5/17/2010	51.5	30.6	0.4	17.5	
	9:10	5/25/2010	50.0	30.8	0.2	19.0	
	9:30	6/24/2010	41.0	27.8	1.6	29.6	
	10:30	7/6/2010	37.5	27.8	1.6	33.1	
	9:18	7/19/2010	34.5	27.4	1.7	36.4	
	9:20	8/2/2010	32.0	27.4	1.7	38.9	
	10:05	8/16/2010	35.0	29.0	1.1	34.9	
	9:10	8/30/2010	39.5	30.4	0.0	30.1	
	9:26	9/13/2010	41.5	30.6	1.1	26.8	
	10:00	9/28/2010	44.5	31.0	1.1	23.4	
	8:12	10/12/2010	44.5	31.0	1.8	22.7	
	9:37	10/25/2010	48.0	32.2	1.3	18.5	
	9:36	11/2/2010	50.0	32.6	1.6	15.8	

Table 6a. Landfill Gas Field Parameter Monitoring Results of Active Extraction Points

Active Extraction Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
	9:15	11/15/2010	48.0	32.4	1.6	18.0	
	9:55	12/10/2010	44.5	32.2	1.6	21.7	
	9:15	12/23/2010	43.5	32.6	1.6	22.3	
	9:30	1/10/2011	43	31.4	2.3	23.3	
	11:45	2/11/2011	52.0	30.8	1.5	15.7	
	9:30	2/22/2011	12.0	8.4	15.1	64.5	
	9:05	3/7/2011	13.0	9.2	14.5	63.3	
	12:10	3/24/2011	47.5	31.0	0.4	21.1	
	9:15	4/6/2011	49.5	30.8	0.3	19.4	
	8:08	4/25/2011	51.0	29.4	1.3	18.3	
	9:08	5/9/2011	53.5	29.8	0.6	16.1	
	9:31	5/23/2011	46.0	25.8	3.3	24.9	
	11:05	6/6/2011	57.0	30.0	0.6	12.4	
	9:21	6/15/2011	58.0	30.6	0.7	10.7	
	9:30	7/5/2011	60.5	30.2	0.8	8.5	
	8:10	7/13/2011	57.0	28.4	2.0	12.6	
	8:30	7/26/2011	63.5	30.6	0.6	5.3	
	8:30	8/8/2011	60.5	31.4	0.6	7.5	
	8:10	8/23/2011	57.5	31.8	0.7	10	
	15:15	9/9/2011	60.0	33.2	0.9	5.9	
	16:03	9/15/2011	62.0	33.6	1.1	3.3	
	8:40	9/21/2011	58.0	32.4	1.5	8.1	
	9:45	9/21/2011	60.0	34.2	0.8	5	
	9:35	9/22/2011	53.0	31.2	2.7	13.1	
	10:15	9/22/2011	60.0	34.0	1.1	4.9	
	11:04	9/22/2011	53.5	30.2	3.0	13.3	
	10:53	10/3/2011	47.0	33.2	1.1	18.7	
	14:00	10/24/2011	23.0	21.4	4.6	51	
	12:08	10/26/2011	51.8	34.8	0.6	12.8	
	10:59	11/7/2011	44.5	33.8	0.5	21.2	
	9:35	11/14/2011	46.0	33.8	0.2	20	
	9:30	12/12/2011	49.5	34.8	0.3	15.4	
LC-2	10:41	12/27/2011	49.0	34.0	0.2	16.8	
	9:00	1/10/2012	52.0	34.4	0.1	13.5	
	10:00	1/25/2012	48.0	34.8	0.4	16.8	
	9:35	2/20/2012	54.5	33.6	0.0	11.9	
	9:30	3/8/2012	53.5	31.6	1.0	13.9	
	10:30	4/2/2012	54.5	31.2	1.1	13.2	
	9:25	4/16/2012	43.0	25.4	4.4	27.2	
	9:30	4/30/2012	47.5	28.2	2.6	21.7	
	9:35	5/14/2012	48.0	28.2	2.4	21.4	
	9:30	5/29/2012	49.5	29.0	1.9	19.6	
	8:04	6/11/2012	51.0	29.2	4.7	15.1	
	9:59	6/25/2012	53.0	29.6	1.5	15.9	
	9:15	7/9/2012	50.5	28.6	2.2	18.7	
	8:55	7/23/2012	43.5	29.2	1.9	25.4	
	8:15	7/25/2012	44.0	29.4	2.0	24.6	
	9:21	8/6/2012	43.0	30.2	1.5	25.3	
	9:50	8/21/2012	40.0	30.0	1.6	28.4	
	9:30	9/4/2012	36.0	29.4	1.9	32.7	
	10:00	10/1/2012	29.5	27.6	2.6	40.3	
	8:48	10/15/2012	16.0	15.8	9.7	58.5	
	8:05	12/6/2012	8.5	6.6	17.8	67.1	Using rental meter
	9:15	12/17/2012	7.2	10.0	14.9	67.9	Using rental meter
	9:20	12/31/2012	8.0	6.6	16.4	69	Using rental meter
	8:30	1/9/2013	40.0	27.0	1.9	31.1	
	10:05	1/16/2013	42.0	29.0	1.2	27.8	
	9:30	1/28/2013	57.5	33.8	0.2	8.5	
	11:00	2/11/2013	59.0	35.0	0.6	5.4	
	9:42	2/25/2013	53.5	31.0	2.6	12.9	
	8:00	3/8/2013	63.0	35.8	0.1	1.1	
	9:15	3/22/2013	56.0	34.4	0.6	9.0	
	14:10	4/8/2013	52.0	29.0	0.5	18.5	
	15:30	4/22/2013	49.5	29.4	0.5	20.6	
	9:50	4/29/2013	43.0	27.6	0.5	28.9	

Table 6a. Landfill Gas Field Parameter Monitoring Results of Active Extraction Points

Active Extraction Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
LC-3	11:31	3/20/2006	62.3	36.3	0.5	0.9	pre-startup
	10:06	3/22/2006	55.9	33.2	3.5	7.4	
	8:37	3/23/2006	53.5	30.5	3.4	12.6	
	16:30	3/23/2006	59.9	30.5	2.0	7.6	
	14:30	3/24/2006	8.6	6.7	17.0	67.7	
	14:45	3/28/2006	21.1	14.8	12.0	52.1	
	19:21	3/30/2006	51.2	30.4	1.6	16.8	
	13:35	4/5/2006	30.7	22.2	6.6	40.5	
	13:05	4/6/2006	19.0	14.9	11.9	54.2	
	13:20	4/11/2006	36.9	26.6	3.5	33.0	
	10:49	4/14/2006	38.2	27.8	1.0	33.0	
	15:30	4/14/2006	37.7	28.8	1.2	32.3	
	10:10	4/17/2006	10.5	0.6	0.8	88.1	
	19:38	4/27/2006	27.6	23.6	0.5	48.3	
	13:20	5/4/2006	0.0	0.0	8.8	91.2	
	10:25	5/22/2006	9.6	15.7	8.9	65.8	
	14:41	6/2/2006	0.6	0.1	20.4	78.9	
	8:29	6/9/2006	22.5	31.2	4.0	42.3	
	12:42	6/14/2006	20.5	15.6	3.2	60.7	
	10:51	6/22/2006	13.1	28.7	3.5	54.7	
	12:23	7/5/2006	13.0	29.6	1.9	55.5	
	11:38	7/10/2006	0.0	0.0	1.7	98.3	
	10:17	7/17/2006	11.9	28.3	1.8	58.0	
	14:09	7/28/2006	16.3	28.7	1.5	53.5	
	10:02	8/8/2006	11.4	28.8	1.5	58.3	
	9:10	8/16/2006	11.9	28.4	1.4	58.3	
	8:27	8/21/2006	2.4	5.8	1.8	90.0	
	14:14	8/28/2006	12.1	10.2	1.4	76.3	
	11:26	9/13/2006	6.8	11.8	1.7	79.7	
	11:25	9/25/2006	10.1	0.4	1.9	87.6	
	8:25	10/10/2006	10.8	29.6	2.7	56.9	
	8:26	10/23/2006	10.9	29.4	3.9	55.8	
	14:12	11/2/2006	9.5	23.4	0.4	66.7	
	15:09	11/14/2006	2.5	0.0	20.0	77.5	
	12:00	11/27/2006	0.3	1.2	18.9	79.7	
	13:10	12/26/2006	13.5	21.2	3.3	62.0	
	14:20	1/27/2007	13.0	21.4	1.9	63.7	
	11:40	2/24/2007	4.3	0.2	19.7	75.9	
	11:22	3/1/2007	12.0	19.6	4.1	64.3	
	12:30	3/1/2007	11.5	19.2	4.2	65.1	
	14:32	3/1/2007	11.5	18.8	4.1	65.6	
	7:50	3/5/2007	0.3	0.0	20.3	79.5	adjust blower time, 12 on, 12 off
	7:50	3/24/2007	15.0	19.2	4.1	61.7	
	16:34	3/24/2007	14.5	19.2	4.0	62.3	
	16:48	3/26/2007	12.5	18.6	3.6	65.3	
	7:09	3/27/2007	12.0	19.2	3.5	65.3	
	16:45	3/28/2007	13.0	19.8	3.6	63.6	
	7:40	3/29/2007	12.0	19.2	3.7	65.1	
	16:43	3/29/2007	12.0	19.2	3.8	65.0	
	7:45	3/30/2007	7.0	12.6	8.0	72.4	blower off

Table 6a. Landfill Gas Field Parameter Monitoring Results of Active Extraction Points

Active Extraction Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
LC-3	11:30	5/30/2007	29.0	22.8	3.0	45.2	restart and run 24 hrs
	13:52	5/30/2007	30.5	22.8	3.2	43.5	
	10:10	5/31/2007	23.5	21.2	2.9	52.4	reduce to 12 on 12 off
	16:10	6/1/2007	21.5	20.8	2.8	54.9	
	15:13	6/2/2007	20.0	19.4	3.6	57.0	
	15:44	6/3/2007	19.0	20.2	2.8	58.0	
	13:45	6/4/2007	18.0	19.8	3.0	59.2	reduce to 6 on 18 off
	14:27	6/7/2007	23.0	22.2	2.8	52.0	
	16:15	6/12/2007	14.0	19.4	3.1	63.5	
	13:58	6/14/2007	14.5	19.2	3.1	63.2	
	13:35	6/19/2007	14.5	19.6	3.0	62.9	
	13:40	6/21/2007	14.0	19.2	3.2	63.6	
	13:20	7/11/2007	14.0	19.2	3.3	63.5	
	13:10	7/23/2007	13.0	19.0	3.4	64.6	
	14:04	8/8/2007	13.0	19.4	3.4	64.2	
	13:50	8/13/2007	14.0	21.6	2.1	62.3	
	13:10	8/20/2007	11.8	19.8	2.7	65.7	
	13:35	8/28/2007	11.5	19.2	2.8	66.5	
	15:20	8/31/2007	8.5	18.0	3.5	70.0	
	14:15	9/4/2007	7.0	17.0	3.9	72.1	
	12:45	9/17/2007	5.5	15.8	4.7	74.0	
	9:05	9/29/2007	5.0	16.2	4.6	74.2	
	8:05	10/4/2007	5.5	16.0	4.6	73.9	
	9:05	10/7/2007	6.0	16.4	4.2	73.4	
	9:20	10/18/2007	7.5	16.8	3.6	72.1	
	8:25	10/25/2007	6.5	16.6	4.2	72.7	
	8:40	11/1/2007	7.5	16.8	4.3	71.4	
	9:45	11/13/2007	11.5	16.2	5.5	66.8	
	10:55	11/26/2007	7.0	14.4	6.4	72.2	
	10:20	12/10/2007	7.0	14.6	6.8	71.6	
	11:05	12/26/2007	7.5	14.4	6.4	71.7	
	9:30	1/9/2008	8.5	14.6	6.6	70.3	
	11:50	1/23/2008	7.5	14.4	7.3	70.8	
	8:40	2/4/2008	10.0	15.6	6.1	68.3	
	7:10	2/18/2008	12.5	15.4	6.8	65.3	
	7:40	3/4/2008	17.5	17.8	7.5	57.2	
	8:15	3/18/2008	20.0	17.6	6.2	56.2	
	13:35	5/12/2008	20.0	19.6	4.5	55.9	
	8:45	5/19/2008	11.5	16.6	5.6	66.3	
	13:10	5/30/2008	10.0	16.2	5.1	68.7	
	8:25	6/12/2008	9.5	17.4	5.2	67.9	
	8:35	6/25/2008	14.5	19.8	4.3	61.4	
	10:35	7/7/2008	10.5	17.0	4.9	67.6	opened GV-6 to 200 ft/min
	12:15	7/21/2008	10.5	19.0	4.1	66.4	
	10:00	8/5/2008	12.5	19.2	4.2	64.1	
	9:15	8/13/2008	13.5	19.6	4.3	62.6	increase to 12 on 12 off
	8:55	8/19/2008	9.5	18.4	4.6	67.5	
	14:25	9/2/2008	11.5	18.4	4.4	65.7	
	12:12	10/3/2008	12.5	19.0	4.8	63.7	
	10:15	10/13/2008	13.0	19.0	4.9	63.1	

Table 6a. Landfill Gas Field Parameter Monitoring Results of Active Extraction Points

Active Extraction Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
LC-3	9:25	10/28/2008	13.5	19.6	5.4	61.5	
	7:50	11/6/2008	13.5	19.2	5.1	62.2	
	10:40	12/8/2008	12.0	18.8	5.6	63.6	
	9:40	12/24/2008	10.0	17.4	5.2	67.4	decrease to 10 on
	11:10	1/8/2009	9.5	17.0	5.5	68.0	
	11:45	1/18/2009	29.5	22.6	7.4	40.5	
	8:05	2/6/2009	8.5	16.0	5.8	69.7	1/27/09 ice in port
	10:05	2/23/2009	6.5	16.2	5.7	71.6	decrease to 8 on
	9:40	3/9/2009	11.0	17.0	5.2	66.8	
	9:30	3/20/2009	13.5	17.6	5.3	63.6	
	11:25	4/9/2009	17.5	18.8	4.9	58.8	
	10:10	4/19/2009	11.0	17.2	5.3	66.5	
	8:40	5/4/2009	4.2	17.4	3.3	75.2	
	8:45	5/18/2009	7.5	16.4	5.5	70.6	
	10:10	6/1/2009	3.8	16.0	4.3	76.0	
	9:10	6/14/2009	7.5	16.0	5.3	71.2	
	8:55	7/2/2009	15.8	18.0	4.5	61.7	
	7:35	7/13/2009	15.5	19.0	4.4	61.1	
	8:35	7/22/2009	11.5	18.0	4.8	65.7	
	9:00	8/11/2009	9.0	17.2	4.7	69.1	
	8:50	8/24/2009	7.0	15.8	5.7	71.5	decrease to 6 on 18 off
	9:35	9/8/2009	12.0	17.4	4.8	65.8	
	9:28	9/21/2009	14.5	18.6	4.8	62.1	
	10:25	10/5/2009	16.5	19.2	4.9	59.4	
	11:05	10/28/2009	18.5	20.4	4.7	56.4	
	11:05	11/16/2009	12.5	18.6	5.5	63.4	
	9:35	12/18/2009	25.0	23.2	4.0	47.8	
	9:20	12/28/2009	25.0	22.4	5.0	47.6	
	9:20	1/11/2010	24.5	23.4	4.4	47.7	
	8:20	1/26/2010	27.5	23.6	4.4	44.5	
	11:45	2/25/2010	24.0	23.2	4.3	48.5	
	10:04	3/8/2010	25.0	23.0	3.9	48.1	
	9:30	3/22/2010	24.0	22.0	4.5	49.5	
	9:35	4/5/2010	24.9	22.6	4.0	48.5	
	9:21	4/19/2010	24.5	22.2	4.4	48.9	
	9:31	5/3/2010	26.5	22.6	4.0	46.9	
	9:59	5/17/2010	26.0	22.4	4.3	47.3	
	8:55	5/25/2010	22.0	22.2	3.4	52.4	
	9:20	6/24/2010	22.5	21.0	1.4	55.1	
	10:20	7/6/2010	17.0	19.8	4.5	58.7	
	9:14	7/19/2010	15.5	19.0	4.7	60.8	
	9:10	8/2/2010	10.5	18.6	4.7	66.2	
	10:00	8/16/2010	18.5	19.8	4.2	57.5	
	9:05	8/30/2010	24.5	22.0	3.0	50.5	
	9:15	9/13/2010	27.0	22.4	4.3	46.3	
	9:18	9/28/2010	27.0	22.6	4.7	45.7	
	8:17	10/12/2010	24.5	22.4	5.0	48.1	
	9:30	10/25/2010	24.5	22.2	4.7	48.6	
	9:45	11/2/2010	22.0	21.8	5.4	50.8	
	9:06	11/15/2010	21.5	21.2	1.7	55.6	

Active Extraction Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
	9:50	12/10/2010	20.0	20.6	5.7	53.7	
	9:10	12/23/2010	19.5	21.2	5.9	53.4	
	9:25	1/10/2011	20.5	20.8	6	52.7	
	8:41	1/25/2011	18.5	18.8	7.4	55.3	
	12:30	2/11/2011	29.5	21.6	6.1	42.8	
	10:15	2/22/2011	15.5	17.0	7.7	59.8	
	9:30	3/7/2011	15.5	17.4	7.1	60.0	
	12:00	3/24/2011	23.0	20.6	4.9	51.5	
	9:05	4/6/2011	31.0	21.6	4.9	42.5	
	8:04	4/25/2011	31.0	21.2	5.6	42.2	
	9:00	5/9/2011	37.5	23.0	4.5	35.0	
	9:20	5/23/2011	39.5	24.0	4.2	32.3	
	11:00	6/6/2011	40.5	24.4	4.1	31.0	
	9:15	6/15/2011	40.5	24.4	4.0	31.1	
	9:20	7/5/2011	39.0	24.6	3.6	32.8	
	8:13	7/13/2011	38.5	24.6	3.5	33.4	
	8:15	7/26/2011	37.5	24.4	3.5	34.6	
	8:25	8/8/2011	31.5	23.4	3.4	41.7	
	8:00	8/23/2011	28.5	22.4	3.9	45.2	
	15:21	9/9/2011	34.0	24.6	3.9	37.5	
	16:03	9/15/2011	27.5	23.0	4.7	44.8	
	8:35	9/21/2011	25.0	21.8	4.7	48.5	
	9:42	9/21/2011	25.0	21.4	4.9	48.7	
	9:33	9/22/2011	26.0	22.2	4.8	47.0	
	10:13	9/22/2011	26.0	21.8	5.1	47.1	
	10:59	9/22/2011	27.5	22.6	4.6	45.3	
	10:50	10/3/2011	18.0	20.2	5.1	56.7	
	14:05	10/24/2011	41.0	28.6	3.7	26.7	
	11:08	10/26/2011	24.5	22.0	5.0	48.5	
	10:52	11/7/2011	21.5	21.4	4.7	52.4	
	9:27	11/14/2011	23.5	21.8	4.4	50.3	
	9:37	12/12/2011	23.0	22.2	4.7	50.1	
LC-3	10:30	12/27/2011	28.0	23.0	4.2	44.8	
	8:51	1/10/2012	32.5	24.0	4.2	39.3	
	9:55	1/25/2012	33.0	26.0	4.2	36.8	
	9:29	2/20/2012	37.5	25.8	5.0	31.7	
	9:21	3/8/2012	36.5	24.8	5.5	33.2	
	9:00	4/2/2012	32.0	24.4	4.7	38.9	
	9:15	4/16/2012	29.5	22.8	5.0	42.7	
	9:25	4/30/2012	25.0	21.8	5.3	47.9	
	9:25	5/14/2012	27.0	22.2	5.0	45.8	
	9:18	5/29/2012	30.9	23.0	4.5	41.6	
	7:59	6/11/2012	31.5	23.4	4.4	40.7	
	9:53	6/25/2012	33.5	24.4	4.0	38.1	
	9:10	7/9/2012	32.5	24.6	3.5	39.4	
	8:47	7/23/2012	19.0	21.0	4.2	55.8	
	8:11	7/25/2012	19.0	21.0	4.4	55.6	
	9:10	8/6/2012	19.0	21.4	4.2	55.4	
	9:40	8/21/2012	19.0	20.6	4.8	55.6	
	9:21	9/4/2012	14.5	19.8	4.5	61.2	
	8:17	10/1/2012	10.5	16.4	6.6	66.5	reduce from 23 hrs to 16.5 hrs on
	8:40	10/15/2012	9.0	12.0	9.9	69.1	reduce from 16.5 hrs to 8.5 hrs on
	7:50	12/6/2012	18.5	20.0	5.2	56.3	reduce from 8.5 hrs to 4 hrs on
	9:10	12/17/2012	22.5	20.2	4.5	52.8	reduce from 4 hrs to 2 hrs on
	9:10	12/31/2012	26.0	22.4	4.5	47.1	
	8:30	1/9/2013	28.0	22.6	4.3	45.1	Increase from 2 hrs to 4 hrs on
	9:40	1/15/2013	29.0	22.6	3.9	44.5	Increase from 4 hrs to 8 hrs on
	9:17	1/28/2013	27.5	22.8	4.3	45.4	Increase from 8 hrs to 12 hrs on
	11:05	2/11/2013	27.0	20.2	7.2	45.6	Reduce from 12 hrs to 9 hrs on
	9:30	2/25/2013	42.0	27.8	3.1	27.1	Increase from 9 hrs to 18 hrs on
	7:50	3/8/2013	53.0	33.0	0.0	14.0	Increase from 18 hrs to 23.5 hrs on
	9:08	3/22/2013	54.5	33.6	0.1	11.8	
	13:55	4/8/2013	30.0	23.4	4.1	42.5	
	15:25	4/22/2013	21.5	4.0	3.9	70.6	
	9:44	4/29/2013	18.5	19.6	4.1	57.8	

Table 6a. Landfill Gas Field Parameter Monitoring Results of Active Extraction Points

Active Extraction Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
GV-6	11:19	3/20/2006	0.4	0.2	20.9	78.5	pre-startup
	10:00	3/22/2006	45.9	26.6	2.6	24.9	
	15:49	3/22/2006	54.2	31.6	0.9	13.3	
	8:47	3/23/2006	51.5	29.5	1.3	17.7	
	16:50	3/23/2006	45.0	25.4	3.8	25.8	
	15:30	3/24/2006	24.0	13.9	15.0	47.1	
	14:30	3/28/2006	13.2	10.0	12.9	63.9	
	19:00	3/30/2006	34.4	24.9	2.9	37.8	
	13:25	4/5/2006	22.9	18.7	8.2	50.2	
	12:55	4/6/2006	21.9	17.4	7.9	52.8	
	13:10	4/11/2006	23.8	20.2	5.9	50.1	
	10:56	4/14/2006	26.9	23.4	2.3	47.4	
	15:53	4/14/2006	21.3	28.5	5.4	44.8	
	10:00	4/17/2006	31.3	34.0	3.0	31.7	
	19:55	4/27/2006	15.6	19.8	4.0	60.6	
	13:15	5/4/2006	0.0	0.0	2.4	97.6	
	10:19	5/22/2006	16.2	24.6	1.3	57.9	
	8:23	6/9/2006	24.4	32.8	6.2	36.6	
	12:37	6/14/2006	22.8	29.3	5.6	42.3	
	10:46	6/22/2006	12.1	23.0	5.4	59.5	
	12:07	7/5/2006	13.7	24.7	4.9	56.7	
	11:33	7/10/2006	12.6	26.2	4.0	57.2	
	10:54	7/17/2006	12.7	25.6	3.9	57.8	
	14:04	7/28/2006	4.8	24.5	4.4	66.3	
	9:53	8/8/2006	14.8	29.1	2.3	53.8	
	9:06	8/16/2006	14.8	27.1	4.1	54.0	
	8:22	8/21/2006	12.7	8.6	3.8	74.9	
	14:10	8/28/2006	16.6	25.7	5.0	52.7	
	11:24	9/13/2006	8.2	1.4	5.3	85.1	
	11:20	9/25/2006	8.1	0.8	1.8	89.3	
	8:20	10/10/2006	18.1	30.1	3.2	48.6	
	8:21	10/23/2006	12.8	18.1	4.6	64.5	
	14:05	11/2/2006	10.0	22.4	1.3	66.3	
	14:56	11/14/2006	19.0	21.8	4.5	54.7	
	11:27	11/27/2006	9.0	14.6	8.4	68.0	
	13:00	12/26/2006	15.5	22.8	1.5	60.2	
	14:02	1/27/2007	13.5	20.8	1.7	64.0	
	9:32	2/15/2007	0.6	11.4	8.0	80.1	
	11:24	2/24/2007	2.6	12.0	9.6	75.9	
	9:41	3/1/2007	23.0	24.0	0.2	52.8	
	10:15	3/1/2007	13.5	17.8	3.6	65.1	
	10:17	3/1/2007	12.0	19.2	1.3	67.5	
	11:13	3/1/2007	9.0	17.4	2.5	71.1	
	12:22	3/1/2007	7.5	16.6	3.0	72.9	
	13:53	3/1/2007	6.5	15.6	4.3	73.6	
	14:00	3/1/2007	7.0	15.5	4.2	73.3	
	14:40	3/1/2007	6.0	14.4	5.2	74.4	
	8:00	3/5/2007	6.0	14.4	6.4	73.2	adjust blower time, 12 on, 12 off
	8:05	3/24/2007	11.5	20.0	2.8	65.7	
	16:50	3/24/2007	12.0	19.4	2.8	65.8	

Active Extraction Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
GV-6	17:05	3/26/2007	9.5	18.4	3.2	68.9	
	7:25	3/27/2007	7.0	17.6	4.1	71.3	
	16:31	3/28/2007	11.0	20.0	1.8	67.2	
	7:59	3/29/2007	8.5	19.8	1.4	70.3	
	16:55	3/29/2007	12.0	20.0	1.3	66.7	
	7:59	3/30/2007	9.0	20.8	0.3	69.9	blower off
	10:45	5/30/2007	31.0	22.6	0.7	45.7	restart and run 24 hrs
	13:40	5/30/2007	36.5	26.2	0.6	36.7	
	10:25	5/31/2007	21.5	22.8	1.5	54.2	reduce to 12 on 12 off
	16:28	6/1/2007	20.5	22.0	1.1	56.4	
	15:25	6/2/2007	20.0	21.8	1.1	57.1	
	16:05	6/3/2007	20.5	22.4	0.5	56.6	
	14:08	6/4/2007	16.5	22.0	0.8	60.7	reduce to 6 on 18 off
	15:04	6/7/2007	19.0	22.6	0.4	58.0	
	17:35	6/12/2007	14.0	21.6	1.7	62.7	
	15:00	6/14/2007	14.0	21.8	0.6	63.6	
	14:30	6/19/2007	13.0	22.8	0.7	63.5	
	14:30	6/21/2007	15.0	21.8	1.4	61.8	
	14:20	7/11/2007	14.0	20.2	3.1	62.7	
	14:20	7/23/2007	15.0	21.0	3.3	60.7	
	14:10	8/8/2007	14.0	20.2	3.8	62.0	
	13:15	8/13/2007	12.0	18.6	5.1	64.3	
	14:20	8/20/2007	9.5	18.0	5.1	67.4	
	14:15	8/28/2007	9.0	18.6	4.4	68.0	
	15:50	8/31/2007	6.0	19.2	2.5	72.3	
	14:45	9/4/2007	6.0	18.2	3.2	72.6	
	13:15	9/17/2007	5.0	16.8	4.3	73.9	
	9:35	9/29/2007	4.7	16.8	4.3	74.2	
	8:35	10/4/2007	4.4	16.2	4.7	74.8	
	9:35	10/7/2007	4.7	17.0	3.6	74.7	
	9:40	10/18/2007	7.5	20.0	0.6	71.9	
	9:10	10/25/2007	7.0	2.0	0.5	90.5	
	9:10	11/1/2007	7.0	20.6	0.2	72.2	
	10:05	11/13/2007	17.5	22.0	0.7	59.8	
	11:20	11/26/2007	6.0	15.6	5.5	72.9	reduce to 12 on 12 off
	10:50	12/10/2007	7.0	16.8	4.8	71.4	reduce to 10 on 14 off
	11:40	12/26/2007	6.5	15.6	4.9	73.0	reduce to 8 on 16 off
	10:05	1/9/2008	6.0	15.6	4.9	73.5	
	12:05	1/23/2008	5.5	13.4	7.3	73.8	
	9:10	2/4/2008	12.5	19.4	0.9	67.2	
	7:40	2/18/2008	17.0	20.4	0.7	61.9	
	7:20	3/4/2008	21.0	21.0	0.9	57.1	
	8:35	3/18/2008	31.0	22.8	0.8	45.4	
	14:15	5/12/2008	14.5	19.6	3.1	62.8	
	9:05	5/19/2008	5.5	14.8	6.4	73.3	
	13:40	5/30/2008	12.0	20.4	0.2	67.4	
	9:15	6/12/2008	5.0	16.8	5.5	72.7	
	9:10	6/25/2008	10.0	23.4	0.6	66.0	
	11:20	7/7/2008	5.5	20.0	0.0	74.5	opened GV-6 to 200 ft/min
	12:25	7/21/2008	7.5	20.8	1.3	70.4	

Active Extraction Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
	9:45	8/5/2008	9.5	21.8	0.5	68.2	
	9:00	8/13/2008	11.5	21.6	1.4	65.5	increase to 12 on 12 off
	8:40	8/19/2008	4.9	15.4	6.8	73.0	
	14:00	9/2/2008	5.5	18.4	2.0	74.1	
	11:46	10/3/2008	3.7	9.6	11.0	75.7	
	10:35	10/13/2008	9.0	20.4	1.8	68.8	
	9:10	10/28/2008	7.0	19.2	2.8	71.0	
	7:30	11/6/2008	10.0	20.2	1.5	68.3	
	10:10	12/24/2008	6.0	15.6	4.5	73.9	12/8/08 meter failure
	11:45	1/8/2009	3.1	13.6	6.5	76.8	1/27/09 ice in port
	11:15	1/18/2009	8.5	19.0	3.2	69.3	
	8:30	2/6/2009	3.2	12.4	7.7	76.8	
	10:45	2/23/2009	1.5	10.8	9.7	78.1	decrease to 8 on
	10:10	3/9/2009	3.0	14.6	3.3	79.1	
	10:10	3/20/2009	4.4	16.8	2.1	76.8	
	12:21	4/9/2009	8.0	18.4	0.0	73.6	
	10:30	4/19/2009	3.6	13.0	6.7	76.7	
	8:30	5/4/2009	1.6	11.4	8.5	78.6	
	8:35	5/18/2009	2.0	12.4	7.2	78.4	
	10:05	6/1/2009	1.3	11.4	7.9	79.4	
	8:50	6/14/2009	1.7	13.8	4.7	79.8	
	8:40	7/2/2009	9.0	20.8	0.3	69.9	
	7:25	7/13/2009	11.5	23.0	0.0	65.5	
	8:25	7/22/2009	4.5	16.2	4.4	74.9	
GV-6	8:40	8/11/2009	1.9	11.8	7.7	78.6	
	8:40	8/24/2009	1.8	11.4	7.9	79.0	decrease to 6 on 18 off
	9:15	9/8/2009	7.0	18.4	1.6	73.0	
	9:10	9/21/2009	16.0	22.4	0.4	61.2	
	10:09	10/5/2009	9.5	19.8	2.0	68.7	
	10:55	10/28/2009	12.5	20.8	1.6	65.1	
	10:45	11/16/2009	15.5	4.5	16.0	64.0	
	9:15	12/18/2009	24.0	23.8	0.0	52.2	
	9:00	12/28/2009	21.5	22.4	5.0	51.1	
	9:10	1/11/2010	15.5	20.4	2.8	61.3	
	12:30	2/25/2010	21.2	21.2	0.7	56.9	
	9:45	3/8/2010	18.0	21.2	0.2	60.6	
	9:20	3/22/2010	18.0	21.2	0.3	60.5	
	9:20	4/5/2010	7.0	20.2	1.2	71.6	
	9:12	4/19/2010	14.0	21.0	0.1	64.9	
	9:12	5/3/2010	12.5	21.4	0.0	66.1	
	9:42	5/17/2010	22.5	23.6	0.0	53.9	
	9:04	5/25/2010	5.0	19.8	2.9	72.3	
	9:10	6/24/2010	9.0	19.6	1.7	69.7	
	9:00	7/19/2010	3.4	16.8	2.7	77.1	
	8:50	8/2/2010	4.5	12.0	3.0	80.6	
	9:43	8/16/2010	14.0	22.0	1.2	62.8	
	8:47	8/30/2010	21.5	25.0	1.0	52.5	
	9:00	9/13/2010	30.0	26.6	1.2	42.2	
	9:47	9/28/2010	37.0	28.2	1.2	33.6	

Table 6a. Landfill Gas Field Parameter Monitoring Results of Active Extraction Points

Active Extraction Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
	8:10	10/12/2010	24.0	25.0	1.7	49.3	
	9:12	10/25/2010	35.5	26.8	1.2	36.5	
	9:30	11/2/2010	15.5	22.0	1.9	60.6	
	8:45	11/15/2010	13.5	21.0	1.7	63.8	
	9:40	12/10/2010	9.0	19.2	2.1	69.7	
	8:50	12/23/2010	6.0	18.2	2.8	73.0	
	9:10	1/10/2011	28.0	4.8	15.7	51.5	
	12:00	2/11/2011	30.5	20.8	0.5	48.2	
	9:40	2/22/2011	1.7	7.4	14.2	76.7	
	9:15	3/7/2011	4.4	10.0	11.5	74.1	
	11:45	3/24/2011	7.5	12.2	6.9	73.4	
	8:45	4/6/2011	17.5	19.2	0.9	62.4	
	8:12	4/25/2011	18.6	20.8	0.7	59.9	
	8:45	5/9/2011	29.5	22.8	0.4	47.3	
	9:00	5/23/2011	35.5	24.4	0.4	39.7	
	10:45	6/6/2011	39.5	25.2	0.3	35.0	
	8:59	6/15/2011	41.0	26.8	0.3	31.9	
	9:10	7/5/2011	35.4	26.0	0.6	38.0	
	8:09	7/13/2011	24.0	24.8	0.6	50.6	
	8:10	7/26/2011	35.0	27.4	0.7	36.9	
	8:10	8/8/2011	20.0	23.6	0.5	55.9	
	7:45	8/23/2011	19.0	24.8	0.9	55.3	
	15:17	9/9/2011	29.0	1.2	26.4	43.4	
	16:01	9/15/2011	19.0	24.6	0.5	55.9	
	8:27	9/21/2011	39.5	29.0	0.5	31.0	
	9:35	9/21/2011	20.0	22.1	1.5	56.4	
	9:27	9/22/2011	26.0	22.2	4.8	47.0	
	10:09	9/22/2011	9.9	19.2	2.5	68.4	
	10:55	9/22/2011	11.5	18.8	3.3	66.4	
	10:40	10/3/2011	4.6	13.6	8.1	73.8	
	13:49	10/24/2011	7.5	20.4	1.2	70.9	
	10:55	10/26/2011	7.5	16.4	5.8	70.3	
	10:40	11/7/2011	4.5	14.6	6.6	74.3	
	9:15	11/14/2011	7	17.8	3	72.2	
GV-6	10:30	11/14/2011	5	6.8	2.7	85.5	
	9:12	12/12/2011	7.5	16.8	4.3	71.4	
	10:17	12/27/2011	9	7	13.9	70.1	
	8:40	1/10/2012	12	19.6	1	67.4	
	10:05	1/25/2012	11.5	22.6	0.2	65.7	
	9:15	2/20/2012	12.5	14.4	2.1	71	
	9:00	3/8/2012	11	18.4	2.9	67.7	
	10:20	4/2/2012	9.0	18.2	2.6	70.2	
	9:05	4/16/2012	14.9	20.4	1.2	63.5	
	9:10	4/30/2012	17.0	21.0	1.3	60.7	
	9:15	5/14/2012	16.0	21.0	1.3	61.7	
	9:10	5/29/2012	14.5	20.4	1.8	63.3	
	7:45	6/11/2012	23.0	23.8	1.4	51.8	
	9:40	6/25/2012	8.5	18.4	3.3	69.8	
	9:00	7/9/2012	12.0	19.4	3.1	65.5	
	8:33	7/23/2012	3.8	12.0	8.3	76.0	
	8:19	7/25/2012	10.0	18.8	2.8	68.4	
	9:00	8/6/2012	4.4	13.6	7.3	74.8	
	9:17	8/21/2012	4.1	13.8	6.5	75.7	
	9:10	9/4/2012	3.2	11.2	8.6	77.1	
	9:05	10/1/2012	2.3	9.4	10.2	78.2	
	8:30	10/15/2012	2.0	10.4	9.0	78.6	
	7:40	12/6/2012	15.0	19.4	1.4	64.2	
	9:00	12/17/2012	9.0	14.2	4.5	72.3	
	8:50	12/31/2012	42.0	2.6	18.7	36.7	1st time O2 over 5% (used rental meter)
	8:30	1/9/2013	28.0	1.8	19.6	50.6	wrong port used for O2 (3.3, 2nd reading)
	8:08	1/15/2013	21.0	20.4	0.3	58.3	
	9:05	1/28/2013	35.5	23.6	3.2	37.7	
	10:45	2/11/2013	18.5	12.8	9.4	59.3	
	9:15	2/25/2013	31.5	21.8	1.7	45.0	
	7:30	3/8/2013	34.5	22.6	0.1	42.8	
	8:50	3/22/2013	41.5	22.2	0.0	36.3	
	13:50	4/8/2013	10.5	15.6	4.3	69.6	
	15:15	4/22/2013	14.0	19.0	1.2	65.8	
	9:35	4/29/2013	4.3	13.2	5.0	77.6	Reduce from 23.5 hrs to 20.5 hrs on

Table 6b. Landfill Gas Field Parameter Monitoring Results of Closed Extraction Points

Closed Extraction Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
GV-1	11:33	3/20/2006	10.2	8.1	14.9	66.8	pre-startup
	10:08	3/22/2006	17.2	11.7	14.8	56.3	
	11:33	3/22/2006	10.2	8.1	14.9	66.8	
	15:38	3/22/2006	48.6	29.2	1.4	20.8	
	8:39	3/23/2006	43.2	26.9	1.0	28.9	
	16:40	3/23/2006	41.1	21.9	2.4	34.6	
	15:00	3/24/2006	11.5	8.6	13.4	66.5	
	14:50	3/28/2006	8.7	7.4	13.4	70.5	
	19:02	3/30/2006	21.1	19.6	2.4	56.9	
	13:20	4/5/2006	23.0	17.0	9.8	50.2	
	13:15	4/6/2006	8.0	8.2	13.3	70.5	
	13:30	4/11/2006	10.2	13.4	6.7	69.7	
	10:51	4/14/2006	12.1	16.6	2.3	69.0	
	15:32	4/14/2006	22.8	24.9	1.0	51.3	
	10:15	4/17/2006	19.6	24.6	5.0	50.8	
	19:36	4/27/2006	11.3	16.8	1.9	70.0	
	13:22	5/4/2006	0.4	0.1	2.5	97.0	
	10:30	5/22/2006	5.9	19.0	3.0	72.1	
	14:32	6/2/2006	6.6	19.5	3.4	70.5	
	8:35	6/9/2006	7.9	17.8	6.4	67.9	
	12:04	6/14/2006	7.1	10.8	15.4	66.7	
	10:57	6/22/2006	6.3	19.5	5.6	68.6	
	11:31	7/5/2006	5.3	20.0	5.9	68.8	
	10:45	7/10/2006	4.7	18.8	5.2	71.3	
	10:11	7/17/2006	5.7	19.8	5.7	68.8	
	14:11	7/28/2006	5.8	19.7	5.3	69.2	
	10:04	8/8/2006	4.6	18.2	6.4	70.8	
	9:16	8/16/2006	2.4	1.3	7.1	89.2	
	8:33	8/21/2006	4.3	18.0	7.5	70.2	
	2:18	8/28/2006	3.4	18.2	8.1	70.3	
	11:31	9/13/2006	8.1	0.0	8.9	83.0	
	11:29	9/25/2006	0.3	0.6	4.9	94.2	
	8:29	10/10/2006	4.0	11.6	13.0	71.4	
	8:35	10/23/2006	0.7	0.1	20.4	78.8	
	14:16	11/2/2006	4.9	13.8	8.6	72.8	
	15:04	11/14/2006	0.3	0.0	20.1	79.7	
	11:31	11/27/2006	0.2	0.0	20.2	79.7	
	13:19	12/26/2006	4.9	14.0	7.3	73.8	
	12:58	1/27/2007	3.3	12.6	7.4	76.7	
	9:28	2/15/2007	0.3	5.6	14.2	80.0	
	11:45	2/24/2007	0.6	5.4	15.1	78.9	
	9:38	3/1/2007	7.5	18.6	0.9	73.0	
	10:07	3/1/2007	6.5	18.0	1.7	73.8	
	11:11	3/1/2007	7.0	18.0	2.1	72.9	
	12:20	3/1/2007	6.5	18.4	2.2	72.9	
	13:40	3/1/2007	5.5	17.8	3.2	73.5	
	13:42	3/1/2007	6.0	17.4	3.8	72.8	
	14:36	3/1/2007	5.5	16.4	4.2	73.9	
	7:45	3/5/2007	0.3	3.2	16.6	79.9	adjust blower time, 12 on, 12 off
	7:45	3/24/2007	1.4	11.2	8.0	79.5	

Table 6b. Landfill Gas Field Parameter Monitoring Results of Closed Extraction Points

Closed Extraction Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
GV-1	16:32	3/24/2007	1.1	10.4	9.0	79.5	
	16:45	3/26/2007	0.5	8.6	10.7	80.2	
	7:05	3/27/2007	0.4	8.0	11.8	79.9	
	16:50	3/28/2007	0.6	8.8	11.7	78.9	
	7:35	3/29/2007	0.3	9.0	10.6	80.1	
	16:38	3/29/2007	0.4	8.6	11.2	79.8	
	7:35	3/30/2007	8.0	17.8	1.6	72.6	blower off
	10:42	5/30/2007	29.5	25.0	0.8	44.7	restart and run 24 hrs
	13:50	5/30/2007	23.5	23.6	1.2	51.7	
	10:05	5/31/2007	8.5	17.4	2.3	71.8	reduce to 12 on 12 off
	16:05	6/1/2007	5.5	15.8	3.0	75.7	
	15:10	6/2/2007	4.8	15.0	3.2	77.1	
	15:40	6/3/2007	4.0	14.6	3.6	77.8	
	13:50	6/4/2007	3.0	14.0	4.7	78.3	reduce to 6 on 18 off
	14:23	6/7/2007	7.0	16.8	2.2	74.0	
	16:05	6/12/2007	0.9	11.2	9.6	78.3	
	13:45	6/14/2007	1.5	12.0	8.3	78.3	
	13:45	6/19/2007	1.4	12.2	8.5	78.0	
		6/21/2007					vent closed

Table 6b. Landfill Gas Field Parameter Monitoring Results of Closed Extraction Points

Closed Extraction Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
GV-4	11:23	3/20/2006	15.6	15.9	9.1	59.4	pre-startup
	10:04	3/22/2006	45.0	26.7	2.7	25.6	
	15:30	3/22/2006	54.0	32.9	0.9	12.2	
	8:33	3/23/2006	50.6	32.3	0.9	16.2	
	16:32	3/23/2006	42.4	26.0	0.8	30.8	
	14:56	3/24/2006	30.0	15.7	16.0	38.3	
	14:20	3/28/2006	10.5	9.9	8.9	70.7	
	19:25	3/30/2006	27.4	25.4	1.6	45.6	
	13:15	4/5/2006	16.0	16.9	8.2	58.9	
	12:45	4/6/2006	14.2	15.1	8.8	61.9	
	13:05	4/11/2006	11.7	12.9	11.5	63.9	
	10:47	4/14/2006	22.7	23.6	1.6	52.1	
	15:24	4/14/2006	15.5	30.4	2.5	51.6	
	9:55	4/17/2006	10.0	15.5	7.6	66.9	
	19:25	4/27/2006	8.1	15.2	3.7	73.0	
	13:07	5/4/2006	7.4	15.3	5.3	72.0	
	10:15	5/22/2006	6.8	16.4	5.8	71.0	
	14:45	6/2/2006	14.1	31.6	5.1	49.2	
	8:18	6/9/2006	10.1	0.6	8.0	81.3	
	12:32	6/14/2006	10.4	21.1	7.7	60.8	
	11:30	6/22/2006	0.6	0.4	19.9	79.1	
	12:04	7/5/2006	12.7	8.8	5.1	73.4	
	11:28	7/10/2006	6.3	24.5	2.5	66.7	
	10:48	7/17/2006	5.7	21.0	5.4	67.9	
	13:58	7/28/2006	8.0	25.3	2.8	63.9	
	9:44	8/8/2006	6.2	23.0	4.0	66.8	
	9:03	8/16/2006	6.1	23.2	4.0	66.7	
	8:17	8/21/2006	7.0	0.5	4.6	87.9	
	2:06	8/28/2006	7.4	25.9	3.9	62.8	
	11:20	9/13/2006	8.1	0.1	3.3	88.5	
	11:17	9/25/2006	10.1	0.3	1.3	88.3	
	8:17	10/10/2006	7.4	25.4	3.4	63.8	
	8:17	10/23/2006	7.8	24.0	6.3	61.9	
	13:45	11/2/2006	6.0	20.4	4.2	69.4	
	14:51	11/14/2006	8.0	16.6	6.4	69.0	
	11:25	11/27/2006	4.0	14.8	6.3	75.0	
	12:50	12/26/2006	4.4	18.8	3.1	73.7	
	13:42	1/27/2007	9.0	20.4	2.7	67.9	
	9:26	2/15/2007	0.5	14.4	3.8	81.3	
	11:18	2/24/2007	3.2	14.8	6.7	75.3	
	9:32	3/1/2007	16.5	22.2	0.2	61.1	
	9:50	3/1/2007	16.5	22.6	0.8	60.1	
	11:05	3/1/2007	12.0	19.8	1.2	67.0	
	12:13	3/1/2007	12.0	19.2	1.2	67.6	
	13:15	3/1/2007	10.5	19.0	1.2	69.3	
	13:17	3/1/2007	10.5	19.2	1.0	69.3	
	14:25	3/1/2007	9.5	1.2	17.6	71.7	
	8:15	3/5/2007	6.0	16.8	3.2	74.0	adjust blower time, 12 on, 12 off
	8:15	3/24/2007	9.5	21.8	1.0	67.7	
	17:00	3/24/2007	7.0	20.8	1.3	70.9	

Table 6b. Landfill Gas Field Parameter Monitoring Results of Closed Extraction Points

Closed Extraction Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
	17:14	3/26/2007	2.6	19.2	2.1	76.1	
	7:33	3/27/2007	1.7	18.8	2.8	76.7	
	16:24	3/28/2007	2.5	19.2	1.9	76.4	
	8:08	3/29/2007	2.9	19.2	1.5	76.4	
	17:04	3/29/2007	3.3	19.2	1.7	75.9	
	8:08	3/30/2007	8.5	20.6	0.2	70.7	blower off
	10:54	5/30/2007	39.5	27.4	0.2	32.9	restart and run 24 hrs
	13:34	5/30/2007	37.5	26.8	0.2	35.5	
	10:35	5/31/2007	16.5	23.8	0.2	59.5	reduce to 12 on 12 off
	16:36	6/1/2007	12.5	22.5	0.4	64.6	
	15:33	6/2/2007	11.0	22.4	0.4	66.2	
	16:13	6/3/2007	9.5	21.8	0.3	68.4	
GV-4	14:15	6/4/2007	6.5	21.6	0.4	71.5	reduce to 6 on 18 off
	14:59	6/7/2007	9.5	22.2	0.1	68.2	
	17:25	6/12/2007	4.4	20.8	1.0	73.8	
	14:40	6/14/2007	4.3	20.6	0.5	74.7	
	14:50	6/19/2007	5.0	21.0	0.8	73.2	
	14:50	6/21/2007	7.5	21.6	0.7	70.2	
	14:40	7/11/2007	10.5	23.0	0.4	66.1	
	14:08	7/23/2007	12.5	23.6	0.4	63.5	
	14:06	8/8/2007	13.0	24.0	0.4	62.6	
	13:40	8/13/2007	10.0	23.4	0.9	65.7	
	13:50	8/20/2007	4.6	21.6	0.8	73.0	
	14:35	8/28/2007	3.1	20.2	0.9	75.8	
		8/31/2007					vent closed

Closed Extraction Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
GV-7	11:17	3/20/2006	9.3	6.8	15.8	68.1	pre-startup
	9:58	3/22/2006	44.0	24.8	1.3	29.9	
	15:46	3/22/2006	11.1	24.5	1.3	63.1	
	8:44	3/23/2006	36.7	25.0	1.6	36.7	
	14:40	3/24/2006	8.2	6.8	15.3	69.7	
	14:40	3/28/2006	8.5	8.3	12.7	70.5	
	19:13	3/30/2006	19.8	18.8	3.2	58.2	
	13:30	4/5/2006	11.5	12.5	9.8	66.2	
	13:00	4/6/2006	8.1	8.5	12.5	70.9	
	13:15	4/11/2006	13.9	16.6	4.8	64.7	
	10:55	4/14/2006	13.9	17.1	2.3	66.7	
	15:39	4/14/2006	28.6	29.2	3.5	38.7	
	10:05	4/17/2006	13.1	18.3	7.9	60.7	
	19:45	4/27/2006	8.7	13.6	5.4	72.3	
	13:17	5/4/2006	0.0	0.0	6.3	93.7	
	10:23	5/22/2006	6.7	15.1	7.0	71.2	
	8:26	6/9/2006	9.8	24.8	9.1	56.3	
	12:40	6/14/2006	8.2	13.5	8.7	69.6	
	10:48	6/22/2006	5.6	15.4	7.8	71.2	
	12:14	7/5/2006	5.2	17.1	7.4	70.3	
	11:35	7/10/2006	0.0	0.0	5.6	94.4	
	11:00	7/17/2006	4.6	16.4	7.0	72.0	
	14:07	7/28/2006	6.2	16.7	6.7	70.4	
	9:59	8/8/2006	4.9	15.6	7.9	71.6	
	9:08	8/16/2006	5.6	15.1	8.3	71.0	
	8:25	8/21/2006	1.6	4.2	9.3	84.9	
	2:12	8/28/2006	5.2	14.8	8.8	71.2	
	11:25	9/13/2006	4.6	13.3	9.9	72.2	
	11:23	9/25/2006	6.8	0.5	5.1	87.6	
	8:22	10/10/2006	5.2	13.8	11.3	69.7	
	8:24	10/23/2006	2.4	3.0	16.0	78.6	
	14:10	11/2/2006	6.5	13.0	9.4	71.1	
	14:59	11/14/2006	2.6	8.6	11.5	77.3	
	11:30	11/27/2006	2.7	8.6	11.7	77.1	
	13:05	12/26/2006	9.0	16.0	6.0	69.0	
	14:12	1/27/2007	8.0	4.8	5.4	81.8	
	9:33	2/15/2007	0.9	15.0	3.3	80.8	
	11:30	2/24/2007	sampling port clogged with ice				
	9:43	3/1/2007	30.5	27.2	0.3	42.0	
	10:20	3/1/2007	18.5	23.4	0.7	57.4	
	11:17	3/1/2007	20.5	24.2	0.4	54.9	
	12:24	3/1/2007	17.0	23.0	0.4	59.6	
	14:04	3/1/2007	17.5	23.0	0.8	58.7	
	14:42	3/1/2007	16.0	22.0	1.5	60.5	
	7:55	3/5/2007	4.9	17.4	2.6	75.1	adjust blower time, 12 on, 12 off
	7:55	3/24/2007	7.0	12.2	6.6	74.2	
	16:37	3/24/2007	6.5	12.0	6.7	74.8	
	16:56	3/26/2007	5.0	11.4	7.4	76.2	
	7:14	3/27/2007	4.1	10.4	8.9	76.6	
	16:38	3/28/2007	4.6	11.6	8.0	75.8	

Table 6b. Landfill Gas Field Parameter Monitoring Results of Closed Extraction Points

Closed Extraction Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
GV-7	7:45	3/29/2007	4.2	12.6	6.3	77.0	
	16:47	3/29/2007	4.9	12.4	6.8	76.0	
	7:40	3/30/2007	4.0	14.2	4.5	77.4	blower off
	10:50	5/30/2007	35.5	26.2	0.5	37.8	restart and run 24 hrs
	13:42	5/30/2007	28.5	21.4	1.4	48.7	
	10:15	5/31/2007	16.5	17.4	2.7	63.4	reduce to 12 on 12 off
	16:15	6/1/2007	15.0	17.0	2.7	65.3	
	15:17	6/2/2007	14.0	16.8	3.0	66.2	
	15:48	6/3/2007	13.5	16.6	3.1	66.8	
	13:54	6/4/2007	11.5	15.6	4.0	68.9	reduce to 6 on 18 off
	14:32	6/7/2007	15.0	18.0	2.1	64.9	
	16:25	6/12/2007	8.0	14.2	6.2	71.6	
	14:05	6/14/2007	9.5	15.0	5.6	69.9	
	13:45	6/19/2007	8.0	14.2	6.7	71.1	
		6/21/2007					vent closed

Table 6b. Landfill Gas Field Parameter Monitoring Results of Closed Extraction Points

Closed Extraction Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
GV-9	11:13	3/20/2006	16.8	14.0	9.7	59.5	pre-startup
	9:56	3/22/2006	42.7	27.8	0.8	28.7	
	15:42	3/22/2006	47.8	30.5	1.3	20.4	
	8:42	3/23/2006	49.0	31.4	1.0	18.6	
	16:43	3/23/2006	56.4	36.6	0.9	6.1	
	16:48	3/23/2006	38.0	28.3	1.7	32.0	
	15:10	3/24/2006	11.2	9.3	14.0	65.5	
	15:00	3/28/2006	8.8	8.9	12.8	69.5	
	19:05	3/30/2006	25.8	26.3	1.5	46.4	
	13:40	4/5/2006	14.1	17.7	7.8	60.4	
	13:20	4/6/2006	11.0	13.7	10.0	65.3	
	13:25	4/11/2006	8.9	11.8	11.2	68.1	
	10:53	4/14/2006	15.7	20.6	1.4	62.3	
	15:36	4/14/2006	12.8	19.0	2.9	65.3	
	10:20	4/17/2006	11.2	15.7	11.6	61.5	
	19:40	4/27/2006	9.6	16.8	3.7	69.9	
	13:24	5/4/2006	0.0	0.1	3.7	96.2	
	10:33	5/22/2006	6.3	17.9	4.4	71.4	
	8:38	6/9/2006	5.2	15.6	7.0	72.2	
	13:00	6/14/2006	12.4	31.0	6.1	50.5	
	11:01	6/22/2006	5.1	18.4	5.9	70.6	
	11:35	7/5/2006	5.8	20.5	4.8	68.9	
	10:48	7/10/2006	0.9	22.4	2.8	73.9	
	10:14	7/17/2006	6.0	20.6	5.6	67.8	
	14:12	7/28/2006	7.0	20.7	4.4	67.9	
	10:06	8/8/2006	5.4	19.6	5.3	69.7	
	9:25	8/16/2006	9.8	6.4	6.0	77.8	
	8:35	8/21/2006	0.4	0.8	6.9	91.9	
	2:20	8/28/2006	5.6	18.8	7.2	68.4	
	11:34	9/13/2006	0.6	1.4	6.9	91.1	
	11:31	9/25/2006	7.0	0.7	6.4	85.9	
	8:30	10/10/2006	5.9	18.2	7.4	68.5	
	8:39	10/23/2006	6.8	19.2	7.0	67.0	
	14:18	11/2/2006	4.6	14.6	7.2	73.7	
	15:13	11/14/2006	4.2	14.0	7.4	74.5	
	11:35	11/27/2006	3.2	14.0	7.4	75.4	
	13:25	12/26/2006	7.5	17.4	4.5	70.6	
	13:05	1/27/2007	6.5	14.8	6.8	71.9	
	9:30	2/15/2007	0.4	15.8	4.0	79.8	
	11:50	2/24/2007	7.0	12.2	8.6	72.2	
	9:36	3/1/2007	18.0	22.0	0.3	59.7	
	10:03	3/1/2007	11.5	18.2	2.1	68.2	
	11:09	3/1/2007	6.0	14.5	4.9	74.6	
	11:24	3/1/2007	5.5	14.4	5.3	74.8	
	12:18	3/1/2007	5.0	13.8	5.4	75.8	
	13:25	3/1/2007	2.6	12.6	6.7	78.1	
	13:35	3/1/2007	2.2	6.8	12.6	78.5	
	14:34	3/1/2007	0.7	10.6	7.9	80.9	
	7:40	3/5/2007	0.2	0.0	20.1	79.8	adjust blower time, 12 on, 12 off
	8:25	3/24/2007	7.0	15.6	5.4	72.0	

Table 6b. Landfill Gas Field Parameter Monitoring Results of Closed Extraction Points

Closed Extraction Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
GV-9	17:15	3/24/2007	7.0	15.8	4.9	72.3	
	17:35	3/26/2007	5.5	15.6	4.8	74.1	
	7:45	3/27/2007	4.9	14.8	5.6	74.8	
	17:05	3/28/2007	5.5	16.0	5.0	73.5	
	8:22	3/29/2007	4.9	15.8	4.6	74.7	
	17:25	3/29/2007	5.5	16.0	4.7	73.8	
	8:20	3/30/2007	1.2	15.2	4.0	79.7	blower off
	10:27	5/30/2007	27.5	24.8	0.4	47.3	restart and run 24 hrs
	13:48	5/30/2007	23.5	24.0	0.4	52.1	
	10:00	5/31/2007	17.5	20.8	1.2	60.5	reduce to 12 on 12 off
	16:20	6/1/2007	17.0	20.8	1.0	61.2	
	15:45	6/2/2007	16.0	20.8	0.9	62.3	
	15:55	6/3/2007	16.0	20.4	1.1	62.5	
	13:58	6/4/2007	14.5	19.8	1.5	64.2	reduce to 6 on 18 off
	14:37	6/7/2007	15.0	24.0	0.6	60.4	
	16:35	6/12/2007	11.5	19.2	2.6	66.7	
	14:14	6/14/2007	11.0	19.0	2.5	67.5	
	14:05	6/19/2007	10.0	19.0	2.8	68.2	
	13:50	6/21/2007	7.5	16.6	4.8	71.1	
	13:40	7/11/2007	7.0	16.8	4.7	71.5	
	13:20	7/23/2007	7.5	17.4	4.6	70.5	
	14:15	8/8/2007	7.5	17.2	5.0	70.3	
		8/13/2007					vent closed

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3093278

Sample: MW-3A **Lab ID: 3093278012** Collected: 04/26/13 13:35 Received: 04/30/13 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND	ug/L	20.0	2.6	1		05/03/13 12:05	67-64-1	
Benzene	ND	ug/L	1.0	0.50	1		05/03/13 12:05	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.45	1		05/03/13 12:05	75-27-4	
Bromoform	ND	ug/L	1.0	0.23	1		05/03/13 12:05	75-25-2	
Bromomethane	ND	ug/L	5.0	0.43	1		05/03/13 12:05	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	2.7	1		05/03/13 12:05	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.71	1		05/03/13 12:05	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.37	1		05/03/13 12:05	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.36	1		05/03/13 12:05	108-90-7	
Chloroethane	ND	ug/L	1.0	0.44	1		05/03/13 12:05	75-00-3	
Chloroform	ND	ug/L	5.0	0.69	1		05/03/13 12:05	67-66-3	
Chloromethane	ND	ug/L	1.0	0.39	1		05/03/13 12:05	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1.5	1		05/03/13 12:05	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1.9	1		05/03/13 12:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.38	1		05/03/13 12:05	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.48	1		05/03/13 12:05	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.44	1		05/03/13 12:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.45	1		05/03/13 12:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.43	1		05/03/13 12:05	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.40	1		05/03/13 12:05	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.28	1		05/03/13 12:05	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.48	1		05/03/13 12:05	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.43	1		05/03/13 12:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.42	1		05/03/13 12:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.37	1		05/03/13 12:05	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.50	1		05/03/13 12:05	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.29	1		05/03/13 12:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/03/13 12:05	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.50	1		05/03/13 12:05	100-41-4	
Methylene Chloride	ND	ug/L	1.0	0.36	1		05/03/13 12:05	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.49	1		05/03/13 12:05	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.5	1		05/03/13 12:05	91-20-3	
Styrene	ND	ug/L	1.0	0.35	1		05/03/13 12:05	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	0.47	1		05/03/13 12:05	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1.5	1		05/03/13 12:05	109-99-9	
Toluene	ND	ug/L	1.0	0.44	1		05/03/13 12:05	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.44	1		05/03/13 12:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.39	1		05/03/13 12:05	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.43	1		05/03/13 12:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.48	1		05/03/13 12:05	75-69-4	
Vinyl chloride	ND	ug/L	1.0	0.18	1		05/03/13 12:05	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1.3	1		05/03/13 12:05	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	43-137		1		05/03/13 12:05	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		05/03/13 12:05	1868-53-7	
Toluene-d8 (S)	104	%	55-137		1		05/03/13 12:05	2037-26-5	

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3093278

Sample: MW-3B **Lab ID: 3093278013** Collected: 04/26/13 13:55 Received: 04/30/13 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND	ug/L	20.0	2.6	1		05/03/13 12:27	67-64-1	
Benzene	ND	ug/L	1.0	0.50	1		05/03/13 12:27	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.45	1		05/03/13 12:27	75-27-4	
Bromoform	ND	ug/L	1.0	0.23	1		05/03/13 12:27	75-25-2	
Bromomethane	ND	ug/L	5.0	0.43	1		05/03/13 12:27	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	2.7	1		05/03/13 12:27	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.71	1		05/03/13 12:27	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.37	1		05/03/13 12:27	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.36	1		05/03/13 12:27	108-90-7	
Chloroethane	ND	ug/L	1.0	0.44	1		05/03/13 12:27	75-00-3	
Chloroform	ND	ug/L	5.0	0.69	1		05/03/13 12:27	67-66-3	
Chloromethane	ND	ug/L	1.0	0.39	1		05/03/13 12:27	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1.5	1		05/03/13 12:27	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1.9	1		05/03/13 12:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.38	1		05/03/13 12:27	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.48	1		05/03/13 12:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.44	1		05/03/13 12:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.45	1		05/03/13 12:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.43	1		05/03/13 12:27	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.40	1		05/03/13 12:27	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.28	1		05/03/13 12:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.48	1		05/03/13 12:27	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.43	1		05/03/13 12:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.42	1		05/03/13 12:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.37	1		05/03/13 12:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.50	1		05/03/13 12:27	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.29	1		05/03/13 12:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/03/13 12:27	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.50	1		05/03/13 12:27	100-41-4	
Methylene Chloride	ND	ug/L	1.0	0.36	1		05/03/13 12:27	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.49	1		05/03/13 12:27	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.5	1		05/03/13 12:27	91-20-3	
Styrene	ND	ug/L	1.0	0.35	1		05/03/13 12:27	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	0.47	1		05/03/13 12:27	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1.5	1		05/03/13 12:27	109-99-9	
Toluene	ND	ug/L	1.0	0.44	1		05/03/13 12:27	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.44	1		05/03/13 12:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.39	1		05/03/13 12:27	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.43	1		05/03/13 12:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.48	1		05/03/13 12:27	75-69-4	
Vinyl chloride	ND	ug/L	1.0	0.18	1		05/03/13 12:27	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1.3	1		05/03/13 12:27	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	43-137		1		05/03/13 12:27	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		05/03/13 12:27	1868-53-7	
Toluene-d8 (S)	102	%	55-137		1		05/03/13 12:27	2037-26-5	

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3093278

Sample: P-111D **Lab ID: 3093278014** Collected: 04/26/13 14:25 Received: 04/30/13 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND	ug/L	20.0	2.6	1		05/03/13 12:49	67-64-1	
Benzene	ND	ug/L	1.0	0.50	1		05/03/13 12:49	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.45	1		05/03/13 12:49	75-27-4	
Bromoform	ND	ug/L	1.0	0.23	1		05/03/13 12:49	75-25-2	
Bromomethane	ND	ug/L	5.0	0.43	1		05/03/13 12:49	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	2.7	1		05/03/13 12:49	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.71	1		05/03/13 12:49	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.37	1		05/03/13 12:49	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.36	1		05/03/13 12:49	108-90-7	
Chloroethane	**2.3**	ug/L	1.0	0.44	1		05/03/13 12:49	75-00-3	
Chloroform	ND	ug/L	5.0	0.69	1		05/03/13 12:49	67-66-3	
Chloromethane	ND	ug/L	1.0	0.39	1		05/03/13 12:49	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1.5	1		05/03/13 12:49	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1.9	1		05/03/13 12:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.38	1		05/03/13 12:49	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.48	1		05/03/13 12:49	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.44	1		05/03/13 12:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.45	1		05/03/13 12:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.43	1		05/03/13 12:49	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.40	1		05/03/13 12:49	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.28	1		05/03/13 12:49	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.48	1		05/03/13 12:49	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.43	1		05/03/13 12:49	75-35-4	
cis-1,2-Dichloroethene	**1.4**	ug/L	1.0	0.42	1		05/03/13 12:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.37	1		05/03/13 12:49	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.50	1		05/03/13 12:49	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.29	1		05/03/13 12:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/03/13 12:49	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.50	1		05/03/13 12:49	100-41-4	
Methylene Chloride	ND	ug/L	1.0	0.36	1		05/03/13 12:49	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.49	1		05/03/13 12:49	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.5	1		05/03/13 12:49	91-20-3	
Styrene	ND	ug/L	1.0	0.35	1		05/03/13 12:49	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	0.47	1		05/03/13 12:49	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1.5	1		05/03/13 12:49	109-99-9	
Toluene	ND	ug/L	1.0	0.44	1		05/03/13 12:49	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.44	1		05/03/13 12:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.39	1		05/03/13 12:49	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.43	1		05/03/13 12:49	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.48	1		05/03/13 12:49	75-69-4	
Vinyl chloride	**6.5**	ug/L	1.0	0.18	1		05/03/13 12:49	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1.3	1		05/03/13 12:49	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	43-137		1		05/03/13 12:49	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		05/03/13 12:49	1868-53-7	
Toluene-d8 (S)	104	%	55-137		1		05/03/13 12:49	2037-26-5	

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3093278

Sample: P-111D Dup **Lab ID: 3093278015** Collected: 04/26/13 14:30 Received: 04/30/13 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND	ug/L	20.0	2.6	1		05/03/13 15:45	67-64-1	
Benzene	ND	ug/L	1.0	0.50	1		05/03/13 15:45	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.45	1		05/03/13 15:45	75-27-4	
Bromoform	ND	ug/L	1.0	0.23	1		05/03/13 15:45	75-25-2	
Bromomethane	ND	ug/L	5.0	0.43	1		05/03/13 15:45	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	2.7	1		05/03/13 15:45	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.71	1		05/03/13 15:45	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.37	1		05/03/13 15:45	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.36	1		05/03/13 15:45	108-90-7	
Chloroethane	**2.2**	ug/L	1.0	0.44	1		05/03/13 15:45	75-00-3	
Chloroform	ND	ug/L	5.0	0.69	1		05/03/13 15:45	67-66-3	
Chloromethane	ND	ug/L	1.0	0.39	1		05/03/13 15:45	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1.5	1		05/03/13 15:45	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1.9	1		05/03/13 15:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.38	1		05/03/13 15:45	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.48	1		05/03/13 15:45	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.44	1		05/03/13 15:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.45	1		05/03/13 15:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.43	1		05/03/13 15:45	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.40	1		05/03/13 15:45	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.28	1		05/03/13 15:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.48	1		05/03/13 15:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.43	1		05/03/13 15:45	75-35-4	
cis-1,2-Dichloroethene	**1.3**	ug/L	1.0	0.42	1		05/03/13 15:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.37	1		05/03/13 15:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.50	1		05/03/13 15:45	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.29	1		05/03/13 15:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/03/13 15:45	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.50	1		05/03/13 15:45	100-41-4	
Methylene Chloride	ND	ug/L	1.0	0.36	1		05/03/13 15:45	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.49	1		05/03/13 15:45	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.5	1		05/03/13 15:45	91-20-3	
Styrene	ND	ug/L	1.0	0.35	1		05/03/13 15:45	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	0.47	1		05/03/13 15:45	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1.5	1		05/03/13 15:45	109-99-9	
Toluene	ND	ug/L	1.0	0.44	1		05/03/13 15:45	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.44	1		05/03/13 15:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.39	1		05/03/13 15:45	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.43	1		05/03/13 15:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.48	1		05/03/13 15:45	75-69-4	
Vinyl chloride	**6.7**	ug/L	1.0	0.18	1		05/03/13 15:45	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1.3	1		05/03/13 15:45	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	43-137		1		05/03/13 15:45	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		05/03/13 15:45	1868-53-7	
Toluene-d8 (S)	102	%	55-137		1		05/03/13 15:45	2037-26-5	

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3093278

Sample: P-107D **Lab ID: 3093278016** Collected: 04/26/13 15:00 Received: 04/30/13 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND	ug/L	20.0	2.6	1		05/03/13 13:10	67-64-1	
Benzene	ND	ug/L	1.0	0.50	1		05/03/13 13:10	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.45	1		05/03/13 13:10	75-27-4	
Bromoform	ND	ug/L	1.0	0.23	1		05/03/13 13:10	75-25-2	
Bromomethane	ND	ug/L	5.0	0.43	1		05/03/13 13:10	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	2.7	1		05/03/13 13:10	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.71	1		05/03/13 13:10	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.37	1		05/03/13 13:10	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.36	1		05/03/13 13:10	108-90-7	
Chloroethane	ND	ug/L	1.0	0.44	1		05/03/13 13:10	75-00-3	
Chloroform	ND	ug/L	5.0	0.69	1		05/03/13 13:10	67-66-3	
Chloromethane	ND	ug/L	1.0	0.39	1		05/03/13 13:10	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1.5	1		05/03/13 13:10	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1.9	1		05/03/13 13:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.38	1		05/03/13 13:10	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.48	1		05/03/13 13:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.44	1		05/03/13 13:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.45	1		05/03/13 13:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.43	1		05/03/13 13:10	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.40	1		05/03/13 13:10	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.28	1		05/03/13 13:10	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.48	1		05/03/13 13:10	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.43	1		05/03/13 13:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.42	1		05/03/13 13:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.37	1		05/03/13 13:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.50	1		05/03/13 13:10	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.29	1		05/03/13 13:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/03/13 13:10	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.50	1		05/03/13 13:10	100-41-4	
Methylene Chloride	ND	ug/L	1.0	0.36	1		05/03/13 13:10	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.49	1		05/03/13 13:10	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.5	1		05/03/13 13:10	91-20-3	
Styrene	ND	ug/L	1.0	0.35	1		05/03/13 13:10	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	0.47	1		05/03/13 13:10	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1.5	1		05/03/13 13:10	109-99-9	
Toluene	ND	ug/L	1.0	0.44	1		05/03/13 13:10	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.44	1		05/03/13 13:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.39	1		05/03/13 13:10	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.43	1		05/03/13 13:10	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.48	1		05/03/13 13:10	75-69-4	
Vinyl chloride	**2.1**	ug/L	1.0	0.18	1		05/03/13 13:10	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1.3	1		05/03/13 13:10	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	43-137		1		05/03/13 13:10	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		05/03/13 13:10	1868-53-7	
Toluene-d8 (S)	102	%	55-137		1		05/03/13 13:10	2037-26-5	

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3093278

Sample: P-107 **Lab ID: 3093278017** Collected: 04/26/13 15:25 Received: 04/30/13 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND	ug/L	20.0	2.6	1		05/03/13 13:32	67-64-1	
Benzene	ND	ug/L	1.0	0.50	1		05/03/13 13:32	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.45	1		05/03/13 13:32	75-27-4	
Bromoform	ND	ug/L	1.0	0.23	1		05/03/13 13:32	75-25-2	
Bromomethane	ND	ug/L	5.0	0.43	1		05/03/13 13:32	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	2.7	1		05/03/13 13:32	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.71	1		05/03/13 13:32	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.37	1		05/03/13 13:32	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.36	1		05/03/13 13:32	108-90-7	
Chloroethane	ND	ug/L	1.0	0.44	1		05/03/13 13:32	75-00-3	
Chloroform	ND	ug/L	5.0	0.69	1		05/03/13 13:32	67-66-3	
Chloromethane	ND	ug/L	1.0	0.39	1		05/03/13 13:32	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1.5	1		05/03/13 13:32	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1.9	1		05/03/13 13:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.38	1		05/03/13 13:32	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.48	1		05/03/13 13:32	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.44	1		05/03/13 13:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.45	1		05/03/13 13:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.43	1		05/03/13 13:32	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.40	1		05/03/13 13:32	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.28	1		05/03/13 13:32	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.48	1		05/03/13 13:32	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.43	1		05/03/13 13:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.42	1		05/03/13 13:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.37	1		05/03/13 13:32	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.50	1		05/03/13 13:32	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.29	1		05/03/13 13:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/03/13 13:32	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.50	1		05/03/13 13:32	100-41-4	
Methylene Chloride	ND	ug/L	1.0	0.36	1		05/03/13 13:32	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.49	1		05/03/13 13:32	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.5	1		05/03/13 13:32	91-20-3	
Styrene	ND	ug/L	1.0	0.35	1		05/03/13 13:32	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	0.47	1		05/03/13 13:32	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1.5	1		05/03/13 13:32	109-99-9	
Toluene	ND	ug/L	1.0	0.44	1		05/03/13 13:32	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.44	1		05/03/13 13:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.39	1		05/03/13 13:32	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.43	1		05/03/13 13:32	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.48	1		05/03/13 13:32	75-69-4	
Vinyl chloride	ND	ug/L	1.0	0.18	1		05/03/13 13:32	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1.3	1		05/03/13 13:32	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	43-137		1		05/03/13 13:32	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		05/03/13 13:32	1868-53-7	
Toluene-d8 (S)	103	%	55-137		1		05/03/13 13:32	2037-26-5	

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3093278

Sample: P-103D **Lab ID: 3093278018** Collected: 04/26/13 00:01 Received: 04/30/13 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND	ug/L	20.0	2.6	1		05/03/13 13:55	67-64-1	
Benzene	ND	ug/L	1.0	0.50	1		05/03/13 13:55	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.45	1		05/03/13 13:55	75-27-4	
Bromoform	ND	ug/L	1.0	0.23	1		05/03/13 13:55	75-25-2	
Bromomethane	ND	ug/L	5.0	0.43	1		05/03/13 13:55	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	2.7	1		05/03/13 13:55	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.71	1		05/03/13 13:55	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.37	1		05/03/13 13:55	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.36	1		05/03/13 13:55	108-90-7	
Chloroethane	ND	ug/L	1.0	0.44	1		05/03/13 13:55	75-00-3	
Chloroform	ND	ug/L	5.0	0.69	1		05/03/13 13:55	67-66-3	
Chloromethane	ND	ug/L	1.0	0.39	1		05/03/13 13:55	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1.5	1		05/03/13 13:55	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1.9	1		05/03/13 13:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.38	1		05/03/13 13:55	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.48	1		05/03/13 13:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.44	1		05/03/13 13:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.45	1		05/03/13 13:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.43	1		05/03/13 13:55	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.40	1		05/03/13 13:55	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.28	1		05/03/13 13:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.48	1		05/03/13 13:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.43	1		05/03/13 13:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.42	1		05/03/13 13:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.37	1		05/03/13 13:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.50	1		05/03/13 13:55	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.29	1		05/03/13 13:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/03/13 13:55	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.50	1		05/03/13 13:55	100-41-4	
Methylene Chloride	ND	ug/L	1.0	0.36	1		05/03/13 13:55	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.49	1		05/03/13 13:55	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.5	1		05/03/13 13:55	91-20-3	
Styrene	ND	ug/L	1.0	0.35	1		05/03/13 13:55	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	0.47	1		05/03/13 13:55	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1.5	1		05/03/13 13:55	109-99-9	
Toluene	ND	ug/L	1.0	0.44	1		05/03/13 13:55	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.44	1		05/03/13 13:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.39	1		05/03/13 13:55	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.43	1		05/03/13 13:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.48	1		05/03/13 13:55	75-69-4	
Vinyl chloride	ND	ug/L	1.0	0.18	1		05/03/13 13:55	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1.3	1		05/03/13 13:55	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	43-137		1		05/03/13 13:55	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		05/03/13 13:55	1868-53-7	
Toluene-d8 (S)	105	%	55-137		1		05/03/13 13:55	2037-26-5	

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3093278

Sample: P-103 **Lab ID: 3093278019** Collected: 04/26/13 00:01 Received: 04/30/13 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND	ug/L	20.0	2.6	1		05/03/13 14:16	67-64-1	
Benzene	ND	ug/L	1.0	0.50	1		05/03/13 14:16	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.45	1		05/03/13 14:16	75-27-4	
Bromoform	ND	ug/L	1.0	0.23	1		05/03/13 14:16	75-25-2	
Bromomethane	ND	ug/L	5.0	0.43	1		05/03/13 14:16	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	2.7	1		05/03/13 14:16	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.71	1		05/03/13 14:16	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.37	1		05/03/13 14:16	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.36	1		05/03/13 14:16	108-90-7	
Chloroethane	ND	ug/L	1.0	0.44	1		05/03/13 14:16	75-00-3	
Chloroform	ND	ug/L	5.0	0.69	1		05/03/13 14:16	67-66-3	
Chloromethane	ND	ug/L	1.0	0.39	1		05/03/13 14:16	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1.5	1		05/03/13 14:16	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1.9	1		05/03/13 14:16	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.38	1		05/03/13 14:16	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.48	1		05/03/13 14:16	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.44	1		05/03/13 14:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.45	1		05/03/13 14:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.43	1		05/03/13 14:16	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.40	1		05/03/13 14:16	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.28	1		05/03/13 14:16	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.48	1		05/03/13 14:16	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.43	1		05/03/13 14:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.42	1		05/03/13 14:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.37	1		05/03/13 14:16	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.50	1		05/03/13 14:16	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.29	1		05/03/13 14:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/03/13 14:16	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.50	1		05/03/13 14:16	100-41-4	
Methylene Chloride	ND	ug/L	1.0	0.36	1		05/03/13 14:16	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.49	1		05/03/13 14:16	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.5	1		05/03/13 14:16	91-20-3	
Styrene	ND	ug/L	1.0	0.35	1		05/03/13 14:16	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	0.47	1		05/03/13 14:16	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1.5	1		05/03/13 14:16	109-99-9	
Toluene	ND	ug/L	1.0	0.44	1		05/03/13 14:16	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.44	1		05/03/13 14:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.39	1		05/03/13 14:16	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.43	1		05/03/13 14:16	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.48	1		05/03/13 14:16	75-69-4	
Vinyl chloride	ND	ug/L	1.0	0.18	1		05/03/13 14:16	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1.3	1		05/03/13 14:16	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	43-137		1		05/03/13 14:16	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		05/03/13 14:16	1868-53-7	
Toluene-d8 (S)	104	%	55-137		1		05/03/13 14:16	2037-26-5	

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3093278

Sample: TB-1 **Lab ID: 3093278020** Collected: 04/24/13 00:01 Received: 04/30/13 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND	ug/L	20.0	2.6	1		05/06/13 12:33	67-64-1	
Benzene	ND	ug/L	1.0	0.50	1		05/06/13 12:33	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.45	1		05/06/13 12:33	75-27-4	
Bromoform	ND	ug/L	1.0	0.23	1		05/06/13 12:33	75-25-2	
Bromomethane	ND	ug/L	5.0	0.43	1		05/06/13 12:33	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	2.7	1		05/06/13 12:33	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.71	1		05/06/13 12:33	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.37	1		05/06/13 12:33	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.36	1		05/06/13 12:33	108-90-7	
Chloroethane	ND	ug/L	1.0	0.44	1		05/06/13 12:33	75-00-3	
Chloroform	ND	ug/L	5.0	0.69	1		05/06/13 12:33	67-66-3	
Chloromethane	ND	ug/L	1.0	0.39	1		05/06/13 12:33	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1.5	1		05/06/13 12:33	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1.9	1		05/06/13 12:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.38	1		05/06/13 12:33	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.48	1		05/06/13 12:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.44	1		05/06/13 12:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.45	1		05/06/13 12:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.43	1		05/06/13 12:33	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.40	1		05/06/13 12:33	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.28	1		05/06/13 12:33	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.48	1		05/06/13 12:33	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.43	1		05/06/13 12:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.42	1		05/06/13 12:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.37	1		05/06/13 12:33	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.50	1		05/06/13 12:33	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.29	1		05/06/13 12:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/06/13 12:33	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.50	1		05/06/13 12:33	100-41-4	
Methylene Chloride	ND	ug/L	1.0	0.36	1		05/06/13 12:33	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.49	1		05/06/13 12:33	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.5	1		05/06/13 12:33	91-20-3	
Styrene	ND	ug/L	1.0	0.35	1		05/06/13 12:33	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	0.47	1		05/06/13 12:33	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1.5	1		05/06/13 12:33	109-99-9	
Toluene	ND	ug/L	1.0	0.44	1		05/06/13 12:33	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.44	1		05/06/13 12:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.39	1		05/06/13 12:33	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.43	1		05/06/13 12:33	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.48	1		05/06/13 12:33	75-69-4	
Vinyl chloride	ND	ug/L	1.0	0.18	1		05/06/13 12:33	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1.3	1		05/06/13 12:33	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	94	%	43-137		1		05/06/13 12:33	460-00-4	
Dibromofluoromethane (S)	93	%	70-130		1		05/06/13 12:33	1868-53-7	
Toluene-d8 (S)	100	%	55-137		1		05/06/13 12:33	2037-26-5	

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3093278

Sample: LC-3 **Lab ID: 3093278021** Collected: 04/24/13 12:35 Received: 04/30/13 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	**647**	ug/L	200	25.9	10		05/06/13 08:44	67-64-1	
Benzene	ND	ug/L	10.0	5.0	10		05/06/13 08:44	71-43-2	
Bromodichloromethane	ND	ug/L	10.0	4.5	10		05/06/13 08:44	75-27-4	
Bromoform	ND	ug/L	10.0	2.3	10		05/06/13 08:44	75-25-2	
Bromomethane	ND	ug/L	50.0	4.3	10		05/06/13 08:44	74-83-9	
2-Butanone (MEK)	ND	ug/L	200	27.0	10		05/06/13 08:44	78-93-3	
Carbon disulfide	ND	ug/L	50.0	7.1	10		05/06/13 08:44	75-15-0	
Carbon tetrachloride	ND	ug/L	10.0	3.7	10		05/06/13 08:44	56-23-5	
Chlorobenzene	ND	ug/L	10.0	3.6	10		05/06/13 08:44	108-90-7	
Chloroethane	ND	ug/L	10.0	4.4	10		05/06/13 08:44	75-00-3	
Chloroform	ND	ug/L	50.0	6.9	10		05/06/13 08:44	67-66-3	
Chloromethane	ND	ug/L	10.0	3.9	10		05/06/13 08:44	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	50.0	15.0	10		05/06/13 08:44	96-12-8	
Dibromochloromethane	ND	ug/L	50.0	19.0	10		05/06/13 08:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	10.0	3.8	10		05/06/13 08:44	106-93-4	
Dibromomethane	ND	ug/L	10.0	4.8	10		05/06/13 08:44	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	10.0	4.4	10		05/06/13 08:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	4.5	10		05/06/13 08:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	4.3	10		05/06/13 08:44	106-46-7	
Dichlorodifluoromethane	ND	ug/L	10.0	4.0	10		05/06/13 08:44	75-71-8	
1,1-Dichloroethane	ND	ug/L	10.0	2.8	10		05/06/13 08:44	75-34-3	
1,2-Dichloroethane	ND	ug/L	10.0	4.8	10		05/06/13 08:44	107-06-2	
1,1-Dichloroethene	ND	ug/L	10.0	4.3	10		05/06/13 08:44	75-35-4	
cis-1,2-Dichloroethene	**573**	ug/L	10.0	4.2	10		05/06/13 08:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	10.0	3.7	10		05/06/13 08:44	156-60-5	
1,2-Dichloropropane	ND	ug/L	10.0	5.0	10		05/06/13 08:44	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	10.0	2.9	10		05/06/13 08:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	10.0	2.6	10		05/06/13 08:44	10061-02-6	
Ethylbenzene	**15.5**	ug/L	10.0	5.0	10		05/06/13 08:44	100-41-4	
Methylene Chloride	ND	ug/L	10.0	3.6	10		05/06/13 08:44	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	10.0	4.9	10		05/06/13 08:44	1634-04-4	
Naphthalene	ND	ug/L	50.0	25.0	10		05/06/13 08:44	91-20-3	
Styrene	ND	ug/L	10.0	3.5	10		05/06/13 08:44	100-42-5	
Tetrachloroethene	ND	ug/L	10.0	4.7	10		05/06/13 08:44	127-18-4	
Tetrahydrofuran	ND	ug/L	50.0	14.9	10		05/06/13 08:44	109-99-9	
Toluene	**71.2**	ug/L	10.0	4.4	10		05/06/13 08:44	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	10.0	4.4	10		05/06/13 08:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	10.0	3.9	10		05/06/13 08:44	79-00-5	
Trichloroethene	**18.4**	ug/L	10.0	4.3	10		05/06/13 08:44	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	4.8	10		05/06/13 08:44	75-69-4	
Vinyl chloride	**50.9**	ug/L	10.0	1.8	10		05/06/13 08:44	75-01-4	
Xylene (Total)	**91.9**	ug/L	30.0	13.2	10		05/06/13 08:44	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	43-137		10		05/06/13 08:44	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		10		05/06/13 08:44	1868-53-7	
Toluene-d8 (S)	101	%	55-137		10		05/06/13 08:44	2037-26-5	

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3093278

Sample: LC-2 **Lab ID: 3093278022** Collected: 04/24/13 12:45 Received: 04/30/13 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	12.9	5		05/06/13 09:07	67-64-1	
Benzene	**13.6**	ug/L	5.0	2.5	5		05/06/13 09:07	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	2.3	5		05/06/13 09:07	75-27-4	
Bromoform	ND	ug/L	5.0	1.2	5		05/06/13 09:07	75-25-2	
Bromomethane	ND	ug/L	25.0	2.1	5		05/06/13 09:07	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	13.5	5		05/06/13 09:07	78-93-3	
Carbon disulfide	ND	ug/L	25.0	3.5	5		05/06/13 09:07	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1.8	5		05/06/13 09:07	56-23-5	
Chlorobenzene	**43.0**	ug/L	5.0	1.8	5		05/06/13 09:07	108-90-7	
Chloroethane	ND	ug/L	5.0	2.2	5		05/06/13 09:07	75-00-3	
Chloroform	ND	ug/L	25.0	3.4	5		05/06/13 09:07	67-66-3	
Chloromethane	ND	ug/L	5.0	1.9	5		05/06/13 09:07	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	25.0	7.5	5		05/06/13 09:07	96-12-8	
Dibromochloromethane	ND	ug/L	25.0	9.5	5		05/06/13 09:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1.9	5		05/06/13 09:07	106-93-4	
Dibromomethane	ND	ug/L	5.0	2.4	5		05/06/13 09:07	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	2.2	5		05/06/13 09:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	2.3	5		05/06/13 09:07	541-73-1	
1,4-Dichlorobenzene	**17.8**	ug/L	5.0	2.2	5		05/06/13 09:07	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	2.0	5		05/06/13 09:07	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1.4	5		05/06/13 09:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	2.4	5		05/06/13 09:07	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	2.1	5		05/06/13 09:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	2.1	5		05/06/13 09:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1.9	5		05/06/13 09:07	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	2.5	5		05/06/13 09:07	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1.5	5		05/06/13 09:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1.3	5		05/06/13 09:07	10061-02-6	
Ethylbenzene	**39.4**	ug/L	5.0	2.5	5		05/06/13 09:07	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1.8	5		05/06/13 09:07	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.5	5		05/06/13 09:07	1634-04-4	
Naphthalene	ND	ug/L	25.0	12.5	5		05/06/13 09:07	91-20-3	
Styrene	ND	ug/L	5.0	1.7	5		05/06/13 09:07	100-42-5	
Tetrachloroethene	ND	ug/L	5.0	2.4	5		05/06/13 09:07	127-18-4	
Tetrahydrofuran	**172**	ug/L	25.0	7.4	5		05/06/13 09:07	109-99-9	
Toluene	ND	ug/L	5.0	2.2	5		05/06/13 09:07	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	2.2	5		05/06/13 09:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1.9	5		05/06/13 09:07	79-00-5	
Trichloroethene	ND	ug/L	5.0	2.1	5		05/06/13 09:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	2.4	5		05/06/13 09:07	75-69-4	
Vinyl chloride	ND	ug/L	5.0	0.92	5		05/06/13 09:07	75-01-4	
Xylene (Total)	**728**	ug/L	15.0	6.6	5		05/06/13 09:07	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	43-137		5		05/06/13 09:07	460-00-4	
Dibromofluoromethane (S)	94	%	70-130		5		05/06/13 09:07	1868-53-7	
Toluene-d8 (S)	102	%	55-137		5		05/06/13 09:07	2037-26-5	

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QUALITY CONTROL DATA

Project: Ripon FF/NN Landfill
Pace Project No.: 3093278

QC Batch: MSV/19425 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3093278001, 3093278002, 3093278003, 3093278004, 3093278005, 3093278006, 3093278007, 3093278008, 3093278009, 3093278010, 3093278011, 3093278012, 3093278013, 3093278014, 3093278015, 3093278016, 3093278017, 3093278018, 3093278019

METHOD BLANK: 782724 Matrix: Water
Associated Lab Samples: 3093278001, 3093278002, 3093278003, 3093278004, 3093278005, 3093278006, 3093278007, 3093278008, 3093278009, 3093278010, 3093278011, 3093278012, 3093278013, 3093278014, 3093278015, 3093278016, 3093278017, 3093278018, 3093278019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	05/03/13 06:41	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/03/13 06:41	
1,1-Dichloroethane	ug/L	ND	1.0	05/03/13 06:41	
1,1-Dichloroethene	ug/L	ND	1.0	05/03/13 06:41	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	05/03/13 06:41	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/03/13 06:41	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/03/13 06:41	
1,2-Dichloroethane	ug/L	ND	1.0	05/03/13 06:41	
1,2-Dichloropropane	ug/L	ND	1.0	05/03/13 06:41	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/03/13 06:41	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/03/13 06:41	
2-Butanone (MEK)	ug/L	ND	20.0	05/03/13 06:41	
Acetone	ug/L	ND	20.0	05/03/13 06:41	
Benzene	ug/L	ND	1.0	05/03/13 06:41	
Bromodichloromethane	ug/L	ND	1.0	05/03/13 06:41	
Bromoform	ug/L	ND	1.0	05/03/13 06:41	
Bromomethane	ug/L	ND	5.0	05/03/13 06:41	
Carbon disulfide	ug/L	ND	5.0	05/03/13 06:41	
Carbon tetrachloride	ug/L	ND	1.0	05/03/13 06:41	
Chlorobenzene	ug/L	ND	1.0	05/03/13 06:41	
Chloroethane	ug/L	ND	1.0	05/03/13 06:41	
Chloroform	ug/L	ND	5.0	05/03/13 06:41	
Chloromethane	ug/L	ND	1.0	05/03/13 06:41	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/03/13 06:41	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/03/13 06:41	
Dibromochloromethane	ug/L	ND	5.0	05/03/13 06:41	
Dibromomethane	ug/L	ND	1.0	05/03/13 06:41	
Dichlorodifluoromethane	ug/L	ND	1.0	05/03/13 06:41	
Ethylbenzene	ug/L	ND	1.0	05/03/13 06:41	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/03/13 06:41	
Methylene Chloride	ug/L	ND	1.0	05/03/13 06:41	
Naphthalene	ug/L	ND	5.0	05/03/13 06:41	
Styrene	ug/L	ND	1.0	05/03/13 06:41	
Tetrachloroethene	ug/L	ND	1.0	05/03/13 06:41	
Tetrahydrofuran	ug/L	ND	5.0	05/03/13 06:41	
Toluene	ug/L	ND	1.0	05/03/13 06:41	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/03/13 06:41	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/03/13 06:41	
Trichloroethene	ug/L	ND	1.0	05/03/13 06:41	

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QUALITY CONTROL DATA

Project: Ripon FF/NN Landfill
Pace Project No.: 3093278

METHOD BLANK: 782724 Matrix: Water

Associated Lab Samples: 3093278001, 3093278002, 3093278003, 3093278004, 3093278005, 3093278006, 3093278007, 3093278008, 3093278009, 3093278010, 3093278011, 3093278012, 3093278013, 3093278014, 3093278015, 3093278016, 3093278017, 3093278018, 3093278019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	ND	1.0	05/03/13 06:41	
Vinyl chloride	ug/L	ND	1.0	05/03/13 06:41	
Xylene (Total)	ug/L	ND	3.0	05/03/13 06:41	
4-Bromofluorobenzene (S)	%	96	43-137	05/03/13 06:41	
Dibromofluoromethane (S)	%	104	70-130	05/03/13 06:41	
Toluene-d8 (S)	%	104	55-137	05/03/13 06:41	

LABORATORY CONTROL SAMPLE & LCSD: 782725 782726

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.1	46.5	100	93	70-136	7	20	
1,1,2-Trichloroethane	ug/L	50	53.9	47.3	108	95	70-130	13	20	
1,1-Dichloroethane	ug/L	50	50.7	47.5	101	95	70-146	6	20	
1,1-Dichloroethene	ug/L	50	47.8	46.2	96	92	70-130	4	20	
1,2-Dibromo-3-chloropropane	ug/L	50	41.6	34.5	83	69	46-150	19	20	
1,2-Dibromoethane (EDB)	ug/L	50	52.6	46.9	105	94	70-130	11	20	
1,2-Dichlorobenzene	ug/L	50	46.2	41.5	92	83	70-130	11	20	
1,2-Dichloroethane	ug/L	50	52.6	48.2	105	96	70-144	9	20	
1,2-Dichloropropane	ug/L	50	52.8	48.2	106	96	70-136	9	20	
1,3-Dichlorobenzene	ug/L	50	44.0	40.6	88	81	70-130	8	20	
1,4-Dichlorobenzene	ug/L	50	47.9	43.2	96	86	70-130	10	20	
Benzene	ug/L	50	44.2	41.9	88	84	70-137	5	20	
Bromodichloromethane	ug/L	50	59.4	54.9	119	110	70-133	8	20	
Bromoform	ug/L	50	53.4	49.2	107	98	59-130	8	20	
Bromomethane	ug/L	50	40.4	40.9	81	82	41-148	1	20	
Carbon disulfide	ug/L	50	51.0	48.6	102	97	70-130	5	20	
Carbon tetrachloride	ug/L	50	53.6	50.3	107	101	70-154	6	20	
Chlorobenzene	ug/L	50	51.9	48.0	104	96	70-130	8	20	
Chloroethane	ug/L	50	48.5	46.9	97	94	70-139	3	20	
Chloroform	ug/L	50	48.2	46.4	96	93	70-130	4	20	
Chloromethane	ug/L	50	44.7	47.6	89	95	45-154	6	20	
cis-1,2-Dichloroethene	ug/L	50	41.5	39.7	83	79	70-130	4	20	
cis-1,3-Dichloropropene	ug/L	50	48.7	42.8	97	86	70-136	13	20	
Dibromochloromethane	ug/L	50	55.9	51.8	112	104	70-130	8	20	
Dichlorodifluoromethane	ug/L	50	37.5	38.6	75	77	20-157	3	20	
Ethylbenzene	ug/L	50	55.9	51.8	112	104	70-130	8	20	
Methyl-tert-butyl ether	ug/L	50	42.8	40.7	86	81	59-141	5	20	
Methylene Chloride	ug/L	50	47.7	46.0	95	92	70-130	4	20	
Styrene	ug/L	50	56.7	52.1	113	104	70-130	8	20	
Tetrachloroethene	ug/L	50	57.2	53.8	114	108	70-130	6	20	
Toluene	ug/L	50	54.0	49.4	108	99	70-130	9	20	
trans-1,2-Dichloroethene	ug/L	50	49.5	46.7	99	93	70-130	6	20	
trans-1,3-Dichloropropene	ug/L	50	54.3	49.5	109	99	55-135	9	20	
Trichloroethene	ug/L	50	54.0	48.7	108	97	70-130	10	20	

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QUALITY CONTROL DATA

Project: Ripon FF/NN Landfill
Pace Project No.: 3093278

LABORATORY CONTROL SAMPLE & LCSD: 782725 782726

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Trichlorofluoromethane	ug/L	50	54.5	53.9	109	108	50-150	1	20	
Vinyl chloride	ug/L	50	47.5	48.1	95	96	61-143	1	20	
Xylene (Total)	ug/L	150	170	157	114	105	70-130	8	20	
4-Bromofluorobenzene (S)	%				117	113	43-137			
Dibromofluoromethane (S)	%				97	97	70-130			
Toluene-d8 (S)	%				106	103	55-137			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 783696 783697

Parameter	Units	3093278001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	50	50	46.5	49.3	93	99	70-136	6	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	47.2	52.3	94	105	70-130	10	20	
1,1-Dichloroethane	ug/L	ND	50	50	48.0	51.9	96	104	70-146	8	20	
1,1-Dichloroethene	ug/L	ND	50	50	44.5	48.8	89	98	7 -130	9	20	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	38.6	41.9	77	84	46-150	8	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	46.6	50.2	93	100	70-130	7	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	42.9	45.6	86	91	70-130	6	20	
1,2-Dichloroethane	ug/L	ND	50	50	47.4	52.7	95	105	70-146	11	20	
1,2-Dichloropropane	ug/L	ND	50	50	49.1	54.8	98	110	70-136	11	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	40.7	44.1	81	88	70-130	8	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	43.9	47.4	88	95	70-130	8	20	
Benzene	ug/L	ND	50	50	41.1	44.8	82	90	70-137	9	20	
Bromodichloromethane	ug/L	ND	50	50	54.0	60.0	108	120	70-133	11	20	
Bromoform	ug/L	ND	50	50	49.8	53.2	100	106	57-130	7	20	
Bromomethane	ug/L	ND	50	50	39.9	43.5	80	87	41-148	8	20	
Carbon disulfide	ug/L	ND	50	50	47.2	51.3	93	101	50-152	8	31	
Carbon tetrachloride	ug/L	ND	50	50	49.5	54.0	99	108	70-154	9	20	
Chlorobenzene	ug/L	ND	50	50	48.4	51.8	97	104	70-130	7	20	
Chloroethane	ug/L	ND	50	50	45.3	50.2	91	100	70-140	10	20	
Chloroform	ug/L	ND	50	50	45.2	49.2	90	98	70-130	8	20	
Chloromethane	ug/L	ND	50	50	43.3	49.0	87	98	45-154	13	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	39.3	43.1	79	86	70-130	9	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	44.4	49.1	89	98	70-136	10	20	
Dibromochloromethane	ug/L	ND	50	50	52.4	56.2	105	112	70-130	7	20	
Dichlorodifluoromethane	ug/L	ND	50	50	32.9	35.2	66	70	10-157	7	20	
Ethylbenzene	ug/L	ND	50	50	50.7	54.9	101	110	70-130	8	20	
Methyl-tert-butyl ether	ug/L	ND	50	50	40.6	43.9	81	88	59-141	8	20	
Methylene Chloride	ug/L	ND	50	50	45.9	50.0	92	100	70-130	9	20	
Styrene	ug/L	ND	50	50	51.7	54.9	103	110	35-164	6	20	
Tetrachloroethene	ug/L	ND	50	50	53.3	57.7	107	115	70-130	8	20	
Toluene	ug/L	ND	50	50	49.7	53.9	99	107	70-130	8	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	48.3	51.7	97	103	70-130	7	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	50.5	54.4	101	109	55-137	7	20	
Trichloroethene	ug/L	ND	50	50	49.8	53.8	100	108	70-130	8	20	
Trichlorofluoromethane	ug/L	ND	50	50	50.4	54.5	101	109	50-150	8	20	
Vinyl chloride	ug/L	ND	50	50	44.9	48.8	90	98	59-144	8	20	

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QUALITY CONTROL DATA

Project: Ripon FF/NN Landfill
Pace Project No.: 3093278

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 783696 783697

Parameter	Units	3093278001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Xylene (Total)	ug/L	ND	150	150	155	168	104	112	70-130	8	20	
4-Bromofluorobenzene (S)	%						115	114	43-137			
Dibromofluoromethane (S)	%						97	96	70-130			
Toluene-d8 (S)	%						103	102	55-137			

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QUALITY CONTROL DATA

Project: Ripon FF/NN Landfill
Pace Project No.: 3093278

QC Batch: MSV/19426 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3093278020, 3093278021, 3093278022

METHOD BLANK: 782727 Matrix: Water
Associated Lab Samples: 3093278020, 3093278021, 3093278022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	05/06/13 06:50	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/06/13 06:50	
1,1-Dichloroethane	ug/L	ND	1.0	05/06/13 06:50	
1,1-Dichloroethene	ug/L	ND	1.0	05/06/13 06:50	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	05/06/13 06:50	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/06/13 06:50	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/06/13 06:50	
1,2-Dichloroethane	ug/L	ND	1.0	05/06/13 06:50	
1,2-Dichloropropane	ug/L	ND	1.0	05/06/13 06:50	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/06/13 06:50	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/06/13 06:50	
2-Butanone (MEK)	ug/L	ND	20.0	05/06/13 06:50	
Acetone	ug/L	ND	20.0	05/06/13 06:50	
Benzene	ug/L	ND	1.0	05/06/13 06:50	
Bromodichloromethane	ug/L	ND	1.0	05/06/13 06:50	
Bromoform	ug/L	ND	1.0	05/06/13 06:50	
Bromomethane	ug/L	ND	5.0	05/06/13 06:50	
Carbon disulfide	ug/L	ND	5.0	05/06/13 06:50	
Carbon tetrachloride	ug/L	ND	1.0	05/06/13 06:50	
Chlorobenzene	ug/L	ND	1.0	05/06/13 06:50	
Chloroethane	ug/L	ND	1.0	05/06/13 06:50	
Chloroform	ug/L	ND	5.0	05/06/13 06:50	
Chloromethane	ug/L	ND	1.0	05/06/13 06:50	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/06/13 06:50	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/06/13 06:50	
Dibromochloromethane	ug/L	ND	5.0	05/06/13 06:50	
Dibromomethane	ug/L	ND	1.0	05/06/13 06:50	
Dichlorodifluoromethane	ug/L	ND	1.0	05/06/13 06:50	
Ethylbenzene	ug/L	ND	1.0	05/06/13 06:50	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/06/13 06:50	
Methylene Chloride	ug/L	ND	1.0	05/06/13 06:50	
Naphthalene	ug/L	ND	5.0	05/06/13 06:50	
Styrene	ug/L	ND	1.0	05/06/13 06:50	
Tetrachloroethene	ug/L	ND	1.0	05/06/13 06:50	
Tetrahydrofuran	ug/L	ND	5.0	05/06/13 06:50	
Toluene	ug/L	ND	1.0	05/06/13 06:50	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/06/13 06:50	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/06/13 06:50	
Trichloroethene	ug/L	ND	1.0	05/06/13 06:50	
Trichlorofluoromethane	ug/L	ND	1.0	05/06/13 06:50	
Vinyl chloride	ug/L	ND	1.0	05/06/13 06:50	
Xylene (Total)	ug/L	ND	3.0	05/06/13 06:50	
4-Bromofluorobenzene (S)	%	94	43-137	05/06/13 06:50	

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QUALITY CONTROL DATA

Project: Ripon FF/NN Landfill
Pace Project No.: 3093278

METHOD BLANK: 782727 Matrix: Water

Associated Lab Samples: 3093278020, 3093278021, 3093278022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromofluoromethane (S)	%	94	70-130	05/06/13 06:50	
Toluene-d8 (S)	%	101	55-137	05/06/13 06:50	

LABORATORY CONTROL SAMPLE & LCSD: 782728 782729

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	47.6	48.3	95	97	70-136	1	20	
1,1,2-Trichloroethane	ug/L	50	50.3	51.7	101	103	70-130	3	20	
1,1-Dichloroethane	ug/L	50	50.1	50.5	100	101	70-146	1	20	
1,1-Dichloroethene	ug/L	50	47.3	48.4	95	97	70-130	2	20	
1,2-Dibromo-3-chloropropane	ug/L	50	44.4	44.4	89	89	46-150	0	20	
1,2-Dibromoethane (EDB)	ug/L	50	49.8	52.8	100	106	70-130	6	20	
1,2-Dichlorobenzene	ug/L	50	51.3	51.6	103	103	70-130	1	20	
1,2-Dichloroethane	ug/L	50	47.3	47.7	95	95	70-144	1	20	
1,2-Dichloropropane	ug/L	50	49.7	51.4	99	103	70-136	3	20	
1,3-Dichlorobenzene	ug/L	50	50.3	50.4	101	101	70-130	0	20	
1,4-Dichlorobenzene	ug/L	50	50.8	51.4	102	103	70-130	1	20	
Benzene	ug/L	50	49.6	50.1	99	100	70-137	1	20	
Bromodichloromethane	ug/L	50	47.1	47.8	94	96	70-133	2	20	
Bromoform	ug/L	50	41.4	43.7	83	87	59-130	6	20	
Bromomethane	ug/L	50	37.7	40.6	75	81	41-148	7	20	
Carbon disulfide	ug/L	50	44.1	45.2	88	90	70-130	2	20	
Carbon tetrachloride	ug/L	50	46.8	47.7	94	95	70-154	2	20	
Chlorobenzene	ug/L	50	52.1	53.2	104	106	70-130	2	20	
Chloroethane	ug/L	50	45.2	45.6	90	91	70-139	1	20	
Chloroform	ug/L	50	49.6	50.8	99	102	70-130	3	20	
Chloromethane	ug/L	50	45.3	46.3	91	93	45-154	2	20	
cis-1,2-Dichloroethene	ug/L	50	50.5	50.6	101	101	70-130	0	20	
cis-1,3-Dichloropropene	ug/L	50	45.2	45.4	90	91	70-136	1	20	
Dibromochloromethane	ug/L	50	46.2	48.4	92	97	70-130	5	20	
Dichlorodifluoromethane	ug/L	50	40.4	41.3	81	83	20-157	2	20	
Ethylbenzene	ug/L	50	51.7	52.7	103	105	70-130	2	20	
Methyl-tert-butyl ether	ug/L	50	43.3	44.4	87	89	59-141	3	20	
Methylene Chloride	ug/L	50	45.9	47.7	92	95	70-130	4	20	
Styrene	ug/L	50	51.5	52.7	103	105	70-130	2	20	
Tetrachloroethene	ug/L	50	50.4	52.1	101	104	70-130	3	20	
Toluene	ug/L	50	52.0	53.3	104	107	70-130	3	20	
trans-1,2-Dichloroethene	ug/L	50	45.8	47.1	92	94	70-130	3	20	
trans-1,3-Dichloropropene	ug/L	50	47.7	49.3	95	99	55-135	3	20	
Trichloroethene	ug/L	50	51.8	52.6	104	105	70-130	2	20	
Trichlorofluoromethane	ug/L	50	51.5	52.1	103	104	50-150	1	20	
Vinyl chloride	ug/L	50	46.1	47.3	92	95	61-143	3	20	
Xylene (Total)	ug/L	150	158	162	105	108	70-130	3	20	
4-Bromofluorobenzene (S)	%				96	96	43-137			
Dibromofluoromethane (S)	%				99	99	70-130			

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QUALITY CONTROL DATA

Project: Ripon FF/NN Landfill
Pace Project No.: 3093278

LABORATORY CONTROL SAMPLE & LCSD: 782728 782729

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Toluene-d8 (S)	%				102	102	55-137			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 782991 782992

Parameter	Units	4077035001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	0.96J	50	50	50.0	49.4	98	97	70-136	1	20	
1,1,2-Trichloroethane	ug/L	<0.39	50	50	50.0	52.4	100	105	70-130	5	20	
1,1-Dichloroethane	ug/L	4.8	50	50	55.6	55.9	102	102	70-146	0	20	
1,1-Dichloroethene	ug/L	<0.43	50	50	48.3	48.2	96	96	70-130	0	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.5	50	50	41.5	44.5	83	89	46-150	7	20	
1,2-Dibromoethane (EDB)	ug/L	<0.38	50	50	50.4	51.8	101	104	70-130	3	20	
1,2-Dichlorobenzene	ug/L	<0.44	50	50	52.7	53.1	105	106	70-130	1	20	
1,2-Dichloroethane	ug/L	<0.48	50	50	48.1	47.5	96	95	70-146	1	20	
1,2-Dichloropropane	ug/L	<0.50	50	50	51.6	50.1	103	100	70-136	3	20	
1,3-Dichlorobenzene	ug/L	<0.45	50	50	51.8	51.5	104	103	70-130	1	20	
1,4-Dichlorobenzene	ug/L	<0.43	50	50	51.4	51.9	103	104	70-130	1	20	
Benzene	ug/L	<0.50	50	50	50.5	50.5	101	101	70-137	0	20	
Bromodichloromethane	ug/L	<0.45	50	50	47.9	46.8	96	94	70-133	2	20	
Bromoform	ug/L	<0.23	50	50	41.5	43.3	83	87	57-130	4	20	
Bromomethane	ug/L	<0.43	50	50	40.9	35.4	82	71	41-148	15	20	
Carbon disulfide	ug/L	<0.71	50	50	44.6	44.9	89	90	50-152	1	31	
Carbon tetrachloride	ug/L	<0.37	50	50	48.3	48.1	97	96	70-154	0	20	
Chlorobenzene	ug/L	<0.36	50	50	52.0	53.2	104	106	70-130	2	20	
Chloroethane	ug/L	<0.44	50	50	46.5	46.0	93	92	70-140	1	20	
Chloroform	ug/L	<0.69	50	50	51.5	51.8	102	102	70-130	0	20	
Chloromethane	ug/L	<0.39	50	50	45.6	43.6	91	87	45-154	4	20	
cis-1,2-Dichloroethene	ug/L	138	50	50	196	194	115	112	70-130	1	20	
cis-1,3-Dichloropropene	ug/L	<0.29	50	50	45.7	44.8	91	90	70-136	2	20	
Dibromochloromethane	ug/L	<1.9	50	50	47.4	48.5	95	97	70-130	2	20	
Dichlorodifluoromethane	ug/L	<0.40	50	50	39.5	39.1	79	78	10-157	1	20	
Ethylbenzene	ug/L	<0.50	50	50	51.7	52.8	103	106	70-130	2	20	
Methyl-tert-butyl ether	ug/L	<0.49	50	50	43.4	44.0	87	88	59-141	1	20	
Methylene Chloride	ug/L	<0.36	50	50	47.9	47.8	96	96	70-130	0	20	
Styrene	ug/L	<0.35	50	50	51.6	52.7	103	105	35-164	2	20	
Tetrachloroethene	ug/L	83.5	50	50	137	138	106	108	70-130	1	20	
Toluene	ug/L	<0.44	50	50	52.5	53.5	105	107	70-130	2	20	
trans-1,2-Dichloroethene	ug/L	11.0	50	50	58.0	59.2	94	96	70-130	2	20	
trans-1,3-Dichloropropene	ug/L	<0.26	50	50	48.1	49.4	96	99	55-137	2	20	
Trichloroethene	ug/L	11.7	50	50	64.4	63.7	105	104	70-130	1	20	
Trichlorofluoromethane	ug/L	<0.48	50	50	52.7	53.0	105	106	50-150	1	20	
Vinyl chloride	ug/L	2.6	50	50	49.6	49.1	94	93	59-144	1	20	
Xylene (Total)	ug/L	<1.3	150	150	159	161	106	108	70-130	2	20	
4-Bromofluorobenzene (S)	%						95	97	43-137			
Dibromofluoromethane (S)	%						100	99	70-130			
Toluene-d8 (S)	%						101	102	55-137			

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QUALIFIERS

Project: Ripon FF/NN Landfill
Pace Project No.: 3093278

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Ripon FF/NN Landfill
Pace Project No.: 3093278

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3093278001	P-106	EPA 8260	MSV/19425		
3093278002	MW-104	EPA 8260	MSV/19425		
3093278003	MW-112	EPA 8260	MSV/19425		
3093278004	MW-103	EPA 8260	MSV/19425		
3093278005	MW-107	EPA 8260	MSV/19425		
3093278006	P-116	EPA 8260	MSV/19425		
3093278007	P-114	EPA 8260	MSV/19425		
3093278008	P-114 Dup	EPA 8260	MSV/19425		
3093278009	P-115	EPA 8260	MSV/19425		
3093278010	P-113A	EPA 8260	MSV/19425		
3093278011	P-113B	EPA 8260	MSV/19425		
3093278012	MW-3A	EPA 8260	MSV/19425		
3093278013	MW-3B	EPA 8260	MSV/19425		
3093278014	P-111D	EPA 8260	MSV/19425		
3093278015	P-111D Dup	EPA 8260	MSV/19425		
3093278016	P-107D	EPA 8260	MSV/19425		
3093278017	P-107	EPA 8260	MSV/19425		
3093278018	P-103D	EPA 8260	MSV/19425		
3093278019	P-103	EPA 8260	MSV/19425		
3093278020	TB-1	EPA 8260	MSV/19426		
3093278021	LC-3	EPA 8260	MSV/19426		
3093278022	LC-2	EPA 8260	MSV/19426		

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Page 1 of 2

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

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CHAIN OF CUSTODY

4077023

TCF

(Please Print Clearly)	
Company Name:	Tetra Tech
Branch/Location:	Brookfield, WI
Project Contact:	Mike Noel
Phone:	(262)792-1282
Project Number:	117-2202040.19
Project Name:	Ripon FF/NN Landfill
Project State:	WI
Sampled By (Print):	Ashley A. Wipper
Sampled By (Sign):	Ashley A. Wipper
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Mike Noel
Mail To Company:	Tetra Tech
Mail To Address:	175 N. Corporate Dr Suite 100 Brookfield, WI 53045
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, SI = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

PACE LAB#	CLIENT FIELD ID 2013	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested: VOCs 8260B	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	P-106	4-24	1125	GW		N	B		3-40ml B	
002	MW-104		1225				3			
003	MW-112		1325				3			
004	MW-103		1350				3			
005	MW-107	↓	1430				3			
006	P-116	4-26	0940				3			
007	P-114		1035				3			
008	P-114 DUP		1040				3			
009	P-115		1125				3			
010	P-113A		1235				3			
011	P-113B		1255				3			
012	MW-3A		1335				3			
013	MW-3B	↓	1355	↓			3		↓	

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
Ashley A. Wipper	4-29-13 0800	Mary Fanning	4/29/13 9:50
Mary Fanning	4/29/13 1230		
CS Logistics	4/30/13 0900	M. Venema	4/30/13 0900

PACE Project No.: 4077023
Receipt Temp = RU °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal (Present / Not Present) (Intact / Not Intact)

Version: 6.0 06/14/08

3093278

Page 2 of 2

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

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CHAIN OF CUSTODY

4577023

(Please Print Clearly)	
Company Name:	TETRA TECH
Branch/Location:	Brookfield, WI
Project Contac :	Mike Noel
Phone:	(262) 792-1282
Project Number:	117-270240.19
Project Name:	Ripon FF/NN Landfill
Project State:	WI
Sampled By (Print):	Ashley A. Wilmer
Sampled By (Sign):	Ashley A. Wilmer
PO #:	Regulatory Program:

Quote #:	
Mail To Con act:	Mike Noel
Mail To Company:	TETRA TECH
Mail To Address:	175 N. Corporate Dr Suite 400 Brookfield, WI 53045
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, SL = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

PACE LAB #	CLIENT FIELD ID 2013	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO)	PRESERVATION (CODE)*	Analyses Requested: VOCs 8260B	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
					Y/N	Pick Letter				
014	P-111D	4-26	1425	GW	N	B	3		3-40ml B	
015	P-111D DUP	↓	1430	↓			3		↓	
016	P-107D		1500				3			
017	P-107		1525				3			
018	P-103D						3			
019	P-103	↓		↓			3			
020	TB-1	—	—	DI			2		(2-40ml B	
021	LC-3	4-24	1235	GW			3			
022	LC-2	↓	1245	↓			3		↓	

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
A. Wilmer	4-29-13 0800	Mary Fannin	4/29/13 9:50
Mary Fannin	4/29/13 1230		
CS Logistics	4/30/13 0900	T.M. Venema	4/30/13 0900

PACE Project No.: 4577023

Receipt Temp = 2.0 °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Pace Analytical™

Sample Condition Upon Receipt

Client Name: Tetra tech Project # 4077023

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Commercial ☐ Pace Other CS Logistics

Tracking #:

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Thermometer Used NA Type of Ice: (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 20.1 /Corr: Biological Tissue is Frozen: ☐ yes ☐ no

Temp Blank Present: ☐ yes ☑ no

Person examining content :
Date: 4/30/13
Initials: MV

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples A ived within Hold Time:	☑Yes ☐No ☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containe s Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes ☐No ☑N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☑Yes ☐No	Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	14.
Trip Blank Present:	☑Yes ☐No ☐N/A	15. 4/30/13 MV
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (If purchased): Covered 4/30/13 MV		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: CW **Date:** 4/30/13

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

May 21, 2013

Mike Noel
Tetra Tech GEO
175 N. Corporate Drive
Suite 100
Brookfield, WI 53045

RE: Project: 1011.05.07 FF/NN Landfill
Pace Project No.: 10227010

Dear Mike Noel:
Enclosed are the analytical results for sample(s) received by the laboratory on April 30, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Carolynne Trout

Carolynne Trout

carolynne.trout@pacelabs.com
Project Manager

Enclosures

cc: Mr. Nelson Olavarria, Cooper Industries
Ashley Weimer, Tetra Tech GEO

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CERTIFICATIONS

Project: 1011.05.07 FF/NN Landfill
Pace Project No.: 10227010

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Hawaii Certification #Pace
Idaho Certification #: MN00064
Illinois Certification #: 200011
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia/DCLS Certification #: 002521
Virginia/VELAP Certification #: 460163
Washington Certification #: C754
West Virginia Certification #: 382
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: 1011.05.07 FF/NN Landfill
Pace Project No.: 10227010

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10227010001	LC-1	Air	04/29/13 08:21	04/30/13 09:05
10227010002	LC-2	Air	04/29/13 08:16	04/30/13 09:05
10227010003	LC-3	Air	04/29/13 08:25	04/30/13 09:05
10227010004	GV-6	Air	04/29/13 08:19	04/30/13 09:05
10227010005	GP-3	Air	04/29/13 08:28	04/30/13 09:05

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SAMPLE ANALYTE COUNT

Project: 1011.05.07 FF/NN Landfill
Pace Project No.: 10227010

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10227010001	LC-1	TO-14M Ambient Air	AEJ	44
10227010002	LC-2	TO-14M Ambient Air	AEJ	44
10227010003	LC-3	TO-14M Ambient Air	AEJ	44
10227010004	GV-6	TO-14M Ambient Air	AEJ	44
10227010005	GP-3	TO-14M Ambient Air	AEJ	44

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ANALYTICAL RESULTS

Project: 1011.05.07 FF/NN Landfill
Pace Project No.: 10227010

Sample: LC-1 **Lab ID: 10227010001** Collected: 04/29/13 08:21 Received: 04/30/13 09:05 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO-14M MSV AIR - Ambient	Analytical Method: TO-14M Ambient Air							
Benzene	ND	ppbv	19.4	38.8		05/16/13 16:07	71-43-2	
Bromomethane	ND	ppbv	19.4	38.8		05/16/13 16:07	74-83-9	
Carbon tetrachloride	ND	ppbv	19.4	38.8		05/16/13 16:07	56-23-5	
Chlorobenzene	ND	ppbv	19.4	38.8		05/16/13 16:07	108-90-7	
Chloroethane	ND	ppbv	19.4	38.8		05/16/13 16:07	75-00-3	
Chloroform	ND	ppbv	19.4	38.8		05/16/13 16:07	67-66-3	
Chloromethane	ND	ppbv	19.4	38.8		05/16/13 16:07	74-87-3	
1,2-Dibromoethane (EDB)	ND	ppbv	19.4	38.8		05/16/13 16:07	106-93-4	
1,2-Dichlorobenzene	ND	ppbv	19.4	38.8		05/16/13 16:07	95-50-1	
1,3-Dichlorobenzene	ND	ppbv	19.4	38.8		05/16/13 16:07	541-73-1	
1,4-Dichlorobenzene	ND	ppbv	19.4	38.8		05/16/13 16:07	106-46-7	
Dichlorodifluoromethane	ND	ppbv	19.4	38.8		05/16/13 16:07	75-71-8	D3
1,1-Dichloroethane	ND	ppbv	19.4	38.8		05/16/13 16:07	75-34-3	
1,2-Dichloroethane	ND	ppbv	19.4	38.8		05/16/13 16:07	107-06-2	
1,2-Dichloroethene (Total)	ND	ppbv	38.8	38.8		05/16/13 16:07	540-59-0	
1,1-Dichloroethene	ND	ppbv	19.4	38.8		05/16/13 16:07	75-35-4	
cis-1,2-Dichloroethene	ND	ppbv	19.4	38.8		05/16/13 16:07	156-59-2	
trans-1,2-Dichloroethene	ND	ppbv	19.4	38.8		05/16/13 16:07	156-60-5	
1,2-Dichloropropane	ND	ppbv	19.4	38.8		05/16/13 16:07	78-87-5	
cis-1,3-Dichloropropene	ND	ppbv	19.4	38.8		05/16/13 16:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ppbv	19.4	38.8		05/16/13 16:07	10061-02-6	
Dichlorotetrafluoroethane	ND	ppbv	19.4	38.8		05/16/13 16:07	76-14-2	
Ethylbenzene	ND	ppbv	19.4	38.8		05/16/13 16:07	100-41-4	
Hexachloro-1,3-butadiene	ND	ppbv	19.4	38.8		05/16/13 16:07	87-68-3	
n-Hexane	**95.6**	ppbv	19.4	38.8		05/16/13 16:07	110-54-3	
Methylene Chloride	ND	ppbv	19.4	38.8		05/16/13 16:07	75-09-2	
Methyl-tert-butyl ether	ND	ppbv	38.8	38.8		05/16/13 16:07	1634-04-4	
Styrene	ND	ppbv	19.4	38.8		05/16/13 16:07	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ppbv	19.4	38.8		05/16/13 16:07	79-34-5	
Tetrachloroethene	ND	ppbv	19.4	38.8		05/16/13 16:07	127-18-4	
THC as Gas	ND	ppbv	1360	38.8		05/16/13 16:07		
Toluene	**65.1**	ppbv	19.4	38.8		05/16/13 16:07	108-88-3	
1,2,4-Trichlorobenzene	ND	ppbv	19.4	38.8		05/16/13 16:07	120-82-1	
1,1,1-Trichloroethane	ND	ppbv	19.4	38.8		05/16/13 16:07	71-55-6	
1,1,2-Trichloroethane	ND	ppbv	19.4	38.8		05/16/13 16:07	79-00-5	
Trichloroethene	ND	ppbv	19.4	38.8		05/16/13 16:07	79-01-6	
Trichlorofluoromethane	ND	ppbv	19.4	38.8		05/16/13 16:07	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ppbv	19.4	38.8		05/16/13 16:07	76-13-1	
1,2,4-Trimethylbenzene	ND	ppbv	19.4	38.8		05/16/13 16:07	95-63-6	
1,3,5-Trimethylbenzene	ND	ppbv	19.4	38.8		05/16/13 16:07	108-67-8	
Vinyl chloride	ND	ppbv	19.4	38.8		05/16/13 16:07	75-01-4	
Xylene (Total)	ND	ppbv	58.2	38.8		05/16/13 16:07	1330-20-7	
m&p-Xylene	ND	ppbv	38.8	38.8		05/16/13 16:07	179601-23-1	
o-Xylene	ND	ppbv	19.4	38.8		05/16/13 16:07	95-47-6	

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ANALYTICAL RESULTS

Project: 1011.05.07 FF/NN Landfill
Pace Project No.: 10227010

Sample: LC-2 **Lab ID: 10227010002** Collected: 04/29/13 08:16 Received: 04/30/13 09:05 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO-14M MSV AIR - Ambient	Analytical Method: TO-14M Ambient Air							
Benzene	**9.4**	ppbv	1.0	2.02		05/16/13 13:20	71-43-2	
Bromomethane	ND	ppbv	1.0	2.02		05/16/13 13:20	74-83-9	
Carbon tetrachloride	ND	ppbv	1.0	2.02		05/16/13 13:20	56-23-5	
Chlorobenzene	**31.4**	ppbv	1.0	2.02		05/16/13 13:20	108-90-7	
Chloroethane	ND	ppbv	1.0	2.02		05/16/13 13:20	75-00-3	
Chloroform	ND	ppbv	1.0	2.02		05/16/13 13:20	67-66-3	
Chloromethane	ND	ppbv	1.0	2.02		05/16/13 13:20	74-87-3	
1,2-Dibromoethane (EDB)	ND	ppbv	1.0	2.02		05/16/13 13:20	106-93-4	
1,2-Dichlorobenzene	**9.8**	ppbv	1.0	2.02		05/16/13 13:20	95-50-1	
1,3-Dichlorobenzene	ND	ppbv	1.0	2.02		05/16/13 13:20	541-73-1	
1,4-Dichlorobenzene	**12.5**	ppbv	1.0	2.02		05/16/13 13:20	106-46-7	
Dichlorodifluoromethane	ND	ppbv	1.0	2.02		05/16/13 13:20	75-71-8	
1,1-Dichloroethane	ND	ppbv	1.0	2.02		05/16/13 13:20	75-34-3	
1,2-Dichloroethane	ND	ppbv	1.0	2.02		05/16/13 13:20	107-06-2	
1,2-Dichloroethene (Total)	**3.9**	ppbv	2.0	2.02		05/16/13 13:20	540-59-0	
1,1-Dichloroethene	ND	ppbv	1.0	2.02		05/16/13 13:20	75-35-4	
cis-1,2-Dichloroethene	**3.9**	ppbv	1.0	2.02		05/16/13 13:20	156-59-2	
trans-1,2-Dichloroethene	ND	ppbv	1.0	2.02		05/16/13 13:20	156-60-5	
1,2-Dichloropropane	ND	ppbv	1.0	2.02		05/16/13 13:20	78-87-5	
cis-1,3-Dichloropropene	ND	ppbv	1.0	2.02		05/16/13 13:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ppbv	1.0	2.02		05/16/13 13:20	10061-02-6	
Dichlorotetrafluoroethane	ND	ppbv	1.0	2.02		05/16/13 13:20	76-14-2	
Ethylbenzene	**2.3**	ppbv	1.0	2.02		05/16/13 13:20	100-41-4	
Hexachloro-1,3-butadiene	ND	ppbv	1.0	2.02		05/16/13 13:20	87-68-3	
n-Hexane	**2.2**	ppbv	1.0	2.02		05/16/13 13:20	110-54-3	
Methylene Chloride	**1.2**	ppbv	1.0	2.02		05/16/13 13:20	75-09-2	
Methyl-tert-butyl ether	ND	ppbv	2.0	2.02		05/16/13 13:20	1634-04-4	
Styrene	ND	ppbv	1.0	2.02		05/16/13 13:20	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ppbv	1.0	2.02		05/16/13 13:20	79-34-5	
Tetrachloroethene	ND	ppbv	1.0	2.02		05/16/13 13:20	127-18-4	
THC as Gas	**1220**	ppbv	70.7	2.02		05/16/13 13:20		
Toluene	**35.8**	ppbv	1.0	2.02		05/16/13 13:20	108-88-3	
1,2,4-Trichlorobenzene	ND	ppbv	1.0	2.02		05/16/13 13:20	120-82-1	
1,1,1-Trichloroethane	ND	ppbv	1.0	2.02		05/16/13 13:20	71-55-6	
1,1,2-Trichloroethane	ND	ppbv	1.0	2.02		05/16/13 13:20	79-00-5	
Trichloroethene	**1.5**	ppbv	1.0	2.02		05/16/13 13:20	79-01-6	
Trichlorofluoromethane	ND	ppbv	1.0	2.02		05/16/13 13:20	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ppbv	1.0	2.02		05/16/13 13:20	76-13-1	
1,2,4-Trimethylbenzene	**6.3**	ppbv	1.0	2.02		05/16/13 13:20	95-63-6	
1,3,5-Trimethylbenzene	**3.6**	ppbv	1.0	2.02		05/16/13 13:20	108-67-8	
Vinyl chloride	ND	ppbv	1.0	2.02		05/16/13 13:20	75-01-4	
Xylene (Total)	**23.4**	ppbv	3.0	2.02		05/16/13 13:20	1330-20-7	
m&p-Xylene	**18.0**	ppbv	2.0	2.02		05/16/13 13:20	179601-23-1	
o-Xylene	**5.4**	ppbv	1.0	2.02		05/16/13 13:20	95-47-6	

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ANALYTICAL RESULTS

Project: 1011.05.07 FF/NN Landfill
Pace Project No.: 10227010

Sample: LC-3 **Lab ID: 10227010003** Collected: 04/29/13 08:25 Received: 04/30/13 09:05 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO-14M MSV AIR - Ambient	Analytical Method: TO-14M Ambient Air							
Benzene	ND	ppbv	0.94	1.87		05/16/13 13:47	71-43-2	
Bromomethane	ND	ppbv	0.94	1.87		05/16/13 13:47	74-83-9	
Carbon tetrachloride	ND	ppbv	0.94	1.87		05/16/13 13:47	56-23-5	
Chlorobenzene	ND	ppbv	0.94	1.87		05/16/13 13:47	108-90-7	
Chloroethane	ND	ppbv	0.94	1.87		05/16/13 13:47	75-00-3	
Chloroform	ND	ppbv	0.94	1.87		05/16/13 13:47	67-66-3	
Chloromethane	ND	ppbv	0.94	1.87		05/16/13 13:47	74-87-3	
1,2-Dibromoethane (EDB)	ND	ppbv	0.94	1.87		05/16/13 13:47	106-93-4	
1,2-Dichlorobenzene	ND	ppbv	0.94	1.87		05/16/13 13:47	95-50-1	
1,3-Dichlorobenzene	ND	ppbv	0.94	1.87		05/16/13 13:47	541-73-1	
1,4-Dichlorobenzene	ND	ppbv	0.94	1.87		05/16/13 13:47	106-46-7	
Dichlorodifluoromethane	ND	ppbv	0.94	1.87		05/16/13 13:47	75-71-8	
1,1-Dichloroethane	ND	ppbv	0.94	1.87		05/16/13 13:47	75-34-3	
1,2-Dichloroethane	ND	ppbv	0.94	1.87		05/16/13 13:47	107-06-2	
1,2-Dichloroethene (Total)	**3.9**	ppbv	1.9	1.87		05/16/13 13:47	540-59-0	
1,1-Dichloroethene	ND	ppbv	0.94	1.87		05/16/13 13:47	75-35-4	
cis-1,2-Dichloroethene	**3.9**	ppbv	0.94	1.87		05/16/13 13:47	156-59-2	
trans-1,2-Dichloroethene	ND	ppbv	0.94	1.87		05/16/13 13:47	156-60-5	
1,2-Dichloropropane	ND	ppbv	0.94	1.87		05/16/13 13:47	78-87-5	
cis-1,3-Dichloropropene	ND	ppbv	0.94	1.87		05/16/13 13:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ppbv	0.94	1.87		05/16/13 13:47	10061-02-6	
Dichlorotetrafluoroethane	ND	ppbv	0.94	1.87		05/16/13 13:47	76-14-2	
Ethylbenzene	ND	ppbv	0.94	1.87		05/16/13 13:47	100-41-4	
Hexachloro-1,3-butadiene	ND	ppbv	0.94	1.87		05/16/13 13:47	87-68-3	
n-Hexane	**2.9**	ppbv	0.94	1.87		05/16/13 13:47	110-54-3	
Methylene Chloride	ND	ppbv	0.94	1.87		05/16/13 13:47	75-09-2	
Methyl-tert-butyl ether	ND	ppbv	1.9	1.87		05/16/13 13:47	1634-04-4	
Styrene	ND	ppbv	0.94	1.87		05/16/13 13:47	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ppbv	0.94	1.87		05/16/13 13:47	79-34-5	
Tetrachloroethene	ND	ppbv	0.94	1.87		05/16/13 13:47	127-18-4	
THC as Gas	**150**	ppbv	65.4	1.87		05/16/13 13:47		
Toluene	**1.1**	ppbv	0.94	1.87		05/16/13 13:47	108-88-3	
1,2,4-Trichlorobenzene	ND	ppbv	0.94	1.87		05/16/13 13:47	120-82-1	
1,1,1-Trichloroethane	ND	ppbv	0.94	1.87		05/16/13 13:47	71-55-6	
1,1,2-Trichloroethane	ND	ppbv	0.94	1.87		05/16/13 13:47	79-00-5	
Trichloroethene	**25.6**	ppbv	9.4	18.7		05/17/13 15:02	79-01-6	
Trichlorofluoromethane	ND	ppbv	0.94	1.87		05/16/13 13:47	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ppbv	0.94	1.87		05/16/13 13:47	76-13-1	
1,2,4-Trimethylbenzene	ND	ppbv	0.94	1.87		05/16/13 13:47	95-63-6	
1,3,5-Trlmethylbenzene	ND	ppbv	0.94	1.87		05/16/13 13:47	108-67-8	
Vinyl chloride	ND	ppbv	0.94	1.87		05/16/13 13:47	75-01-4	
Xylene (Total)	ND	ppbv	2.8	1.87		05/16/13 13:47	1330-20-7	
m&p-Xylene	ND	ppbv	1.9	1.87		05/16/13 13:47	179601-23-1	
o-Xylene	ND	ppbv	0.94	1.87		05/16/13 13:47	95-47-6	

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ANALYTICAL RESULTS

Project: 1011.05.07 FF/NN Landfill
Pace Project No.: 10227010

Sample: GV-6 **Lab ID: 10227010004** Collected: 04/29/13 08:19 Received: 04/30/13 09:05 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO-14M MSV AIR - Ambient	Analytical Method: TO-14M Ambient Air							
Benzene	ND	ppbv	18.0	36		05/16/13 16:35	71-43-2	
Bromomethane	ND	ppbv	18.0	36		05/16/13 16:35	74-83-9	
Carbon tetrachloride	ND	ppbv	18.0	36		05/16/13 16:35	56-23-5	
Chlorobenzene	ND	ppbv	18.0	36		05/16/13 16:35	108-90-7	
Chloroethane	ND	ppbv	18.0	36		05/16/13 16:35	75-00-3	
Chloroform	ND	ppbv	18.0	36		05/16/13 16:35	67-66-3	
Chloromethane	ND	ppbv	18.0	36		05/16/13 16:35	74-87-3	
1,2-Dibromoethane (EDB)	ND	ppbv	18.0	36		05/16/13 16:35	106-93-4	
1,2-Dichlorobenzene	ND	ppbv	18.0	36		05/16/13 16:35	95-50-1	
1,3-Dichlorobenzene	ND	ppbv	18.0	36		05/16/13 16:35	541-73-1	
1,4-Dichlorobenzene	ND	ppbv	18.0	36		05/16/13 16:35	106-46-7	
Dichlorodifluoromethane	ND	ppbv	18.0	36		05/16/13 16:35	75-71-8	
1,1-Dichloroethane	ND	ppbv	18.0	36		05/16/13 16:35	75-34-3	
1,2-Dichloroethane	ND	ppbv	18.0	36		05/16/13 16:35	107-06-2	
1,2-Dichloroethene (Total)	ND	ppbv	36.0	36		05/16/13 16:35	540-59-0	
1,1-Dichloroethene	ND	ppbv	18.0	36		05/16/13 16:35	75-35-4	
cis-1,2-Dichloroethene	ND	ppbv	18.0	36		05/16/13 16:35	156-59-2	
trans-1,2-Dichloroethene	ND	ppbv	18.0	36		05/16/13 16:35	156-60-5	
1,2-Dichloropropane	ND	ppbv	18.0	36		05/16/13 16:35	78-87-5	
cis-1,3-Dichloropropene	ND	ppbv	18.0	36		05/16/13 16:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ppbv	18.0	36		05/16/13 16:35	10061-02-6	
Dichlorotetrafluoroethane	ND	ppbv	18.0	36		05/16/13 16:35	76-14-2	
Ethylbenzene	ND	ppbv	18.0	36		05/16/13 16:35	100-41-4	
Hexachloro-1,3-butadiene	ND	ppbv	18.0	36		05/16/13 16:35	87-68-3	
n-Hexane	**202**	ppbv	18.0	36		05/16/13 16:35	110-54-3	
Methylene Chloride	**31.4**	ppbv	18.0	36		05/16/13 16:35	75-09-2	
Methyl-tert-butyl ether	ND	ppbv	36.0	36		05/16/13 16:35	1634-04-4	
Styrene	ND	ppbv	18.0	36		05/16/13 16:35	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ppbv	18.0	36		05/16/13 16:35	79-34-5	
Tetrachloroethene	ND	ppbv	18.0	36		05/16/13 16:35	127-18-4	
THC as Gas	ND	ppbv	1260	36		05/16/13 16:35		
Toluene	ND	ppbv	18.0	36		05/16/13 16:35	108-88-3	
1,2,4-Trichlorobenzene	ND	ppbv	18.0	36		05/16/13 16:35	120-82-1	
1,1,1-Trichloroethane	ND	ppbv	18.0	36		05/16/13 16:35	71-55-6	
1,1,2-Trichloroethane	ND	ppbv	18.0	36		05/16/13 16:35	79-00-5	
Trichloroethene	ND	ppbv	18.0	36		05/16/13 16:35	79-01-6	
Trichlorofluoromethane	ND	ppbv	18.0	36		05/16/13 16:35	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ppbv	18.0	36		05/16/13 16:35	76-13-1	
1,2,4-Trimethylbenzene	ND	ppbv	18.0	36		05/16/13 16:35	95-63-6	
1,3,5-Trimethylbenzene	ND	ppbv	18.0	36		05/16/13 16:35	108-67-8	
Vinyl chloride	ND	ppbv	18.0	36		05/16/13 16:35	75-01-4	
Xylene (Total)	ND	ppbv	54.0	36		05/16/13 16:35	1330-20-7	
m&p-Xylene	ND	ppbv	36.0	36		05/16/13 16:35	179601-23-1	
o-Xylene	ND	ppbv	18.0	36		05/16/13 16:35	95-47-6	

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ANALYTICAL RESULTS

Project: 1011.05.07 FF/NN Landfill
Pace Project No.: 10227010

Sample: GP-3 **Lab ID: 10227010005** Collected: 04/29/13 08:28 Received: 04/30/13 09:05 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO-14M MSV AIR - Ambient	Analytical Method: TO-14M Ambient Air							
Benzene	ND	ppbv	0.90	1.8		05/17/13 15:29	71-43-2	
Bromomethane	ND	ppbv	0.90	1.8		05/17/13 15:29	74-83-9	
Carbon tetrachloride	ND	ppbv	0.90	1.8		05/17/13 15:29	56-23-5	
Chlorobenzene	ND	ppbv	0.90	1.8		05/17/13 15:29	108-90-7	
Chloroethane	ND	ppbv	0.90	1.8		05/17/13 15:29	75-00-3	
Chloroform	ND	ppbv	0.90	1.8		05/17/13 15:29	67-66-3	
Chloromethane	ND	ppbv	0.90	1.8		05/17/13 15:29	74-87-3	
1,2-Dibromoethane (EDB)	ND	ppbv	0.90	1.8		05/17/13 15:29	106-93-4	
1,2-Dichlorobenzene	ND	ppbv	0.90	1.8		05/17/13 15:29	95-50-1	
1,3-Dichlorobenzene	ND	ppbv	0.90	1.8		05/17/13 15:29	541-73-1	
1,4-Dichlorobenzene	ND	ppbv	0.90	1.8		05/17/13 15:29	106-46-7	
Dichlorodifluoromethane	ND	ppbv	0.90	1.8		05/17/13 15:29	75-71-8	
1,1-Dichloroethane	ND	ppbv	0.90	1.8		05/17/13 15:29	75-34-3	
1,2-Dichloroethane	ND	ppbv	0.90	1.8		05/17/13 15:29	107-06-2	
1,2-Dichloroethene (Total)	ND	ppbv	1.8	1.8		05/17/13 15:29	540-59-0	
1,1-Dichloroethene	ND	ppbv	0.90	1.8		05/17/13 15:29	75-35-4	
cis-1,2-Dichloroethene	ND	ppbv	0.90	1.8		05/17/13 15:29	156-59-2	
trans-1,2-Dichloroethene	ND	ppbv	0.90	1.8		05/17/13 15:29	156-60-5	
1,2-Dichloropropane	ND	ppbv	0.90	1.8		05/17/13 15:29	78-87-5	
cis-1,3-Dichloropropene	ND	ppbv	0.90	1.8		05/17/13 15:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ppbv	0.90	1.8		05/17/13 15:29	10061-02-6	
Dichlorotetrafluoroethane	ND	ppbv	0.90	1.8		05/17/13 15:29	76-14-2	
Ethylbenzene	ND	ppbv	0.90	1.8		05/17/13 15:29	100-41-4	
Hexachloro-1,3-butadiene	ND	ppbv	0.90	1.8		05/17/13 15:29	87-68-3	
n-Hexane	**1.3**	ppbv	0.90	1.8		05/17/13 15:29	110-54-3	
Methylene Chloride	**2.1**	ppbv	0.90	1.8		05/17/13 15:29	75-09-2	
Methyl-tert-butyl ether	ND	ppbv	1.8	1.8		05/17/13 15:29	1634-04-4	
Styrene	ND	ppbv	0.90	1.8		05/17/13 15:29	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ppbv	0.90	1.8		05/17/13 15:29	79-34-5	
Tetrachloroethene	ND	ppbv	0.90	1.8		05/17/13 15:29	127-18-4	
THC as Gas	ND	ppbv	63.0	1.8		05/17/13 15:29		
Toluene	ND	ppbv	0.90	1.8		05/17/13 15:29	108-88-3	
1,2,4-Trichlorobenzene	ND	ppbv	0.90	1.8		05/17/13 15:29	120-82-1	
1,1,1-Trichloroethane	ND	ppbv	0.90	1.8		05/17/13 15:29	71-55-6	
1,1,2-Trichloroethane	ND	ppbv	0.90	1.8		05/17/13 15:29	79-00-5	
Trichloroethene	ND	ppbv	0.90	1.8		05/17/13 15:29	79-01-6	
Trichlorofluoromethane	ND	ppbv	0.90	1.8		05/17/13 15:29	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ppbv	0.90	1.8		05/17/13 15:29	76-13-1	
1,2,4-Trimethylbenzene	ND	ppbv	0.90	1.8		05/17/13 15:29	95-63-6	
1,3,5-Trimethylbenzene	ND	ppbv	0.90	1.8		05/17/13 15:29	108-67-8	
Vinyl chloride	ND	ppbv	0.90	1.8		05/17/13 15:29	75-01-4	
Xylene (Total)	ND	ppbv	2.7	1.8		05/17/13 15:29	1330-20-7	
m&p-Xylene	ND	ppbv	1.8	1.8		05/17/13 15:29	179601-23-1	
o-Xylene	ND	ppbv	0.90	1.8		05/17/13 15:29	95-47-6	

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QUALITY CONTROL DATA

Project: 1011.05.07 FF/NN Landfill
Pace Project No.: 10227010

QC Batch: AIR/17346 Analysis Method: TO-14M Ambient Air
QC Batch Method: TO-14M Ambient Air Analysis Description: TO14 MSVAIR - AMBIENT
Associated Lab Samples: 10227010001, 10227010002, 10227010003, 10227010004

METHOD BLANK: 1432660 Matrix: Air
Associated Lab Samples: 10227010001, 10227010002, 10227010003, 10227010004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ppbv	ND	0.50	05/15/13 22:16	
1,1,2,2-Tetrachloroethane	ppbv	ND	0.50	05/15/13 22:16	
1,1,2-Trichloroethane	ppbv	ND	0.50	05/15/13 22:16	
1,1,2-Trichlorotrifluoroethane	ppbv	ND	0.50	05/15/13 22:16	
1,1-Dichloroethane	ppbv	ND	0.50	05/15/13 22:16	
1,1-Dichloroethene	ppbv	ND	0.50	05/15/13 22:16	
1,2,4-Trichlorobenzene	ppbv	ND	0.50	05/15/13 22:16	
1,2,4-Trimethylbenzene	ppbv	ND	0.50	05/15/13 22:16	
1,2-Dibromoethane (EDB)	ppbv	ND	0.50	05/15/13 22:16	
1,2-Dichlorobenzene	ppbv	ND	0.50	05/15/13 22:16	
1,2-Dichloroethane	ppbv	ND	0.50	05/15/13 22:16	
1,2-Dichloroethene (Total)	ppbv	ND	1.0	05/15/13 22:16	
1,2-Dichloropropane	ppbv	ND	0.50	05/15/13 22:16	
1,3,5-Trimethylbenzene	ppbv	ND	0.50	05/15/13 22:16	
1,3-Dichlorobenzene	ppbv	ND	0.50	05/15/13 22:16	
1,4-Dichlorobenzene	ppbv	ND	0.50	05/15/13 22:16	
Benzene	ppbv	ND	0.50	05/15/13 22:16	
Bromomethane	ppbv	ND	0.50	05/15/13 22:16	
Carbon tetrachloride	ppbv	ND	0.50	05/15/13 22:16	
Chlorobenzene	ppbv	ND	0.50	05/15/13 22:16	
Chloroethane	ppbv	ND	0.50	05/15/13 22:16	
Chloroform	ppbv	ND	0.50	05/15/13 22:16	
Chloromethane	ppbv	ND	0.50	05/15/13 22:16	
cis-1,2-Dichloroethene	ppbv	ND	0.50	05/15/13 22:16	
cis-1,3-Dichloropropene	ppbv	ND	0.50	05/15/13 22:16	
Dichlorodifluoromethane	ppbv	ND	0.50	05/15/13 22:16	
Dichlorotetrafluoroethane	ppbv	ND	0.50	05/15/13 22:16	
Ethylbenzene	ppbv	ND	0.50	05/15/13 22:16	
Hexachloro-1,3-butadiene	ppbv	ND	0.50	05/15/13 22:16	
m&p-Xylene	ppbv	ND	1.0	05/15/13 22:16	
Methyl-tert-butyl ether	ppbv	ND	1.0	05/15/13 22:16	
Methylene Chloride	ppbv	ND	0.50	05/15/13 22:16	
n-Hexane	ppbv	ND	0.50	05/15/13 22:16	
o-Xylene	ppbv	ND	0.50	05/15/13 22:16	
Styrene	ppbv	ND	0.50	05/15/13 22:16	
Tetrachloroethene	ppbv	ND	0.50	05/15/13 22:16	
THC as Gas	ppbv	ND	35.0	05/15/13 22:16	
Toluene	ppbv	ND	0.50	05/15/13 22:16	
trans-1,2-Dichloroethene	ppbv	ND	0.50	05/15/13 22:16	
trans-1,3-Dichloropropene	ppbv	ND	0.50	05/15/13 22:16	
Trichloroethene	ppbv	ND	0.50	05/15/13 22:16	
Trichlorofluoromethane	ppbv	ND	0.50	05/15/13 22:16	
Vinyl chloride	ppbv	ND	0.50	05/15/13 22:16	

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QUALITY CONTROL DATA

Project: 1011.05.07 FF/NN Landfill
Pace Project No.: 10227010

METHOD BLANK: 1432660 Matrix: Air

Associated Lab Samples: 10227010001, 10227010002, 10227010003, 10227010004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Xylene (Total)	ppbv	ND	1.5	05/15/13 22:16	

LABORATORY CONTROL SAMPLE: 1432661

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ppbv	5	5.3	107	69-131	
1,1,2,2-Tetrachloroethane	ppbv	5	4.4	88	66-135	
1,1,2-Trichloroethane	ppbv	5	3.6	72	68-132	
1,1,2-Trichlorotrifluoroethane	ppbv	5	5.0	100	65-130	
1,1-Dichloroethane	ppbv	5	4.9	99	66-131	
1,1-Dichloroethene	ppbv	5	6.0	120	64-136	
1,2,4-Trichlorobenzene	ppbv	5	4.2	85	30-150	
1,2,4-Trimethylbenzene	ppbv	5	4.3	85	71-135	
1,2-Dibromoethane (EDB)	ppbv	5	3.9	78	72-132	
1,2-Dichlorobenzene	ppbv	5	4.2	83	68-148	
1,2-Dichloroethane	ppbv	5	4.6	92	66-136	
1,2-Dichloroethene (Total)	ppbv	30	9.2	31	70-130	
1,2-Dichloropropane	ppbv	5	4.4	88	68-133	
1,3,5-Trimethylbenzene	ppbv	5	4.2	85	69-136	
1,3-Dichlorobenzene	ppbv	5	4.1	83	70-134	
1,4-Dichlorobenzene	ppbv	5	3.7	75	66-134	
Benzene	ppbv	5	4.6	91	72-136	
Bromomethane	ppbv	5	4.1	81	65-125	
Carbon tetrachloride	ppbv	5	5.7	114	64-133	
Chlorobenzene	ppbv	5	4.2	83	65-135	
Chloroethane	ppbv	5	4.1	82	63-129	
Chloroform	ppbv	5	4.6	93	66-129	
Chloromethane	ppbv	5	5.7	115	57-135	
cis-1,2-Dichloroethene	ppbv	5	4.3	87	73-135	
cis-1,3-Dichloropropene	ppbv	5	4.4	89	75-137	
Dichlorodifluoromethane	ppbv	5	5.3	106	64-131	
Dichlorotetrafluoroethane	ppbv	5	5.2	105	64-131	
Ethylbenzene	ppbv	5	4.5	90	74-136	
Hexachloro-1,3-butadiene	ppbv	5	3.8	76	30-150	
m&p-Xylene	ppbv	10	10	100	72-135	
Methyl-tert-butyl ether	ppbv	5	5.2	103	71-134	
Methylene Chloride	ppbv	5	5.8	117	59-140	
n-Hexane	ppbv	5	4.9	97	67-136	
o-Xylene	ppbv	5	4.1	82	74-135	
Styrene	ppbv	5	5.8	116	73-135	
Tetrachloroethene	ppbv	5	4.2	84	66-135	
THC as Gas	ppbv	390	372	95	63-141	
Toluene	ppbv	5	4.2	84	71-134	
trans-1,2-Dichloroethene	ppbv	5	4.8	97	68-129	
trans-1,3-Dichloropropene	ppbv	5	3.8	76	75-129	

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(612)607-1700

QUALITY CONTROL DATA

Project: 1011.05.07 FF/NN Landfill
Pace Project No.: 10227010

LABORATORY CONTROL SAMPLE: 1432661

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichloroethene	ppbv	5	4.3	87	68-134	
Trichlorofluoromethane	ppbv	5	5.2	104	61-134	
Vinyl chloride	ppbv	5	5.4	108	64-134	
Xylene (Total)	ppbv	15	14.1	94	70-130	

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QUALITY CONTROL DATA

Project: 1011.05.07 FF/NN Landfill
Pace Project No.: 10227010

QC Batch: AIR/17359 — Analysis Method: TO-14M Ambient Air
QC Batch Method: TO-14M Ambient Air — Analysis Description: TO14 MSV AIR - AMBIENT
Associated Lab Samples: 10227010005

METHOD BLANK: 1434845 — Matrix: Air
Associated Lab Samples: 10227010005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ppbv	ND	0.50	05/17/13 13:08	
1,1,2,2-Tetrachloroethane	ppbv	ND	0.50	05/17/13 13:08	
1,1,2-Trichloroethane	ppbv	ND	0.50	05/17/13 13:08	
1,1,2-Trichlorotrifluoroethane	ppbv	ND	0.50	05/17/13 13:08	
1,1-Dichloroethane	ppbv	ND	0.50	05/17/13 13:08	
1,1-Dichloroethene	ppbv	ND	0.50	05/17/13 13:08	
1,2,4-Trichlorobenzene	ppbv	ND	0.50	05/17/13 13:08	
1,2,4-Trimethylbenzene	ppbv	ND	0.50	05/17/13 13:08	
1,2-Dibromoethane (EDB)	ppbv	ND	0.50	05/17/13 13:08	
1,2-Dichlorobenzene	ppbv	ND	0.50	05/17/13 13:08	
1,2-Dichloroethane	ppbv	ND	0.50	05/17/13 13:08	
1,2-Dichloroethene (Total)	ppbv	ND	1.0	05/17/13 13:08	
1,2-Dichloropropane	ppbv	ND	0.50	05/17/13 13:08	
1,3,5-Trimethylbenzene	ppbv	ND	0.50	05/17/13 13:08	
1,3-Dichlorobenzene	ppbv	ND	0.50	05/17/13 13:08	
1,4-Dichlorobenzene	ppbv	ND	0.50	05/17/13 13:08	
Benzene	ppbv	ND	0.50	05/17/13 13:08	
Bromomethane	ppbv	ND	0.50	05/17/13 13:08	
Carbon tetrachloride	ppbv	ND	0.50	05/17/13 13:08	
Chlorobenzene	ppbv	ND	0.50	05/17/13 13:08	
Chloroethane	ppbv	ND	0.50	05/17/13 13:08	
Chloroform	ppbv	ND	0.50	05/17/13 13:08	
Chloromethane	ppbv	ND	0.50	05/17/13 13:08	
cis-1,2-Dichloroethene	ppbv	ND	0.50	05/17/13 13:08	
cis-1,3-Dichloropropene	ppbv	ND	0.50	05/17/13 13:08	
Dichlorodifluoromethane	ppbv	ND	0.50	05/17/13 13:08	
Dichlorotetrafluoroethane	ppbv	ND	0.50	05/17/13 13:08	
Ethylbenzene	ppbv	ND	0.50	05/17/13 13:08	
Hexachloro-1,3-butadiene	ppbv	ND	0.50	05/17/13 13:08	
m&p-Xylene	ppbv	ND	1.0	05/17/13 13:08	
Methyl-tert-butyl ether	ppbv	ND	1.0	05/17/13 13:08	
Methylene Chloride	ppbv	ND	0.50	05/17/13 13:08	
n-Hexane	ppbv	ND	0.50	05/17/13 13:08	
o-Xylene	ppbv	ND	0.50	05/17/13 13:08	
Styrene	ppbv	ND	0.50	05/17/13 13:08	
Tetrachloroethene	ppbv	ND	0.50	05/17/13 13:08	
THC as Gas	ppbv	ND	35.0	05/17/13 13:08	
Toluene	ppbv	ND	0.50	05/17/13 13:08	
trans-1,2-Dichloroethene	ppbv	ND	0.50	05/17/13 13:08	
trans-1,3-Dichloropropene	ppbv	ND	0.50	05/17/13 13:08	
Trichloroethene	ppbv	ND	0.50	05/17/13 13:08	
Trichlorofluoromethane	ppbv	ND	0.50	05/17/13 13:08	
Vinyl chloride	ppbv	ND	0.50	05/17/13 13:08	

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(612)607-1700

QUALITY CONTROL DATA

Project: 1011.05.07 FF/NN Landfill
Pace Project No.: 10227010

METHOD BLANK: 1434845 Matrix: Air

Associated Lab Samples: 10227010005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Xylene (Total)	ppbv	ND	1.5	05/17/13 13:08	

LABORATORY CONTROL SAMPLE: 1434846

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ppbv	5	4.7	93	69-131	
1,1,2,2-Tetrachloroethane	ppbv	5	3.6	73	66-135	
1,1,2-Trichloroethane	ppbv	5	4.3	85	68-132	
1,1,2-Trichlorotrifluoroethane	ppbv	5	4.7	93	65-130	
1,1-Dichloroethane	ppbv	5	4.5	91	66-131	
1,1-Dichloroethene	ppbv	5	4.8	95	64-136	
1,2,4-Trichlorobenzene	ppbv	5	4.0	79	30-150	
1,2,4-Trimethylbenzene	ppbv	5	4.7	94	71-135	
1,2-Dibromoethane (EDB)	ppbv	5	4.2	84	72-132	
1,2-Dichlorobenzene	ppbv	5	4.1	83	68-148	
1,2-Dichloroethane	ppbv	5	4.5	91	66-136	
1,2-Dichloroethene (Total)	ppbv	30	9.0	30	70-130	
1,2-Dichloropropane	ppbv	5	4.8	97	68-133	
1,3,5-Trimethylbenzene	ppbv	5	4.4	87	69-136	
1,3-Dichlorobenzene	ppbv	5	3.9	78	70-134	
1,4-Dichlorobenzene	ppbv	5	3.7	74	66-134	
Benzene	ppbv	5	4.2	85	72-136	
Bromomethane	ppbv	5	4.8	97	65-125	
Carbon tetrachloride	ppbv	5	4.6	91	64-133	
Chlorobenzene	ppbv	5	4.1	82	65-135	
Chloroethane	ppbv	5	4.5	90	63-129	
Chloroform	ppbv	5	4.3	87	66-129	
Chloromethane	ppbv	5	5.0	99	57-135	
cis-1,2-Dichloroethene	ppbv	5	4.5	89	73-135	
cis-1,3-Dichloropropene	ppbv	5	4.4	89	75-137	
Dichlorodifluoromethane	ppbv	5	4.8	95	64-131	
Dichlorotetrafluoroethane	ppbv	5	4.6	93	64-131	
Ethylbenzene	ppbv	5	4.8	95	74-136	
Hexachloro-1,3-butadiene	ppbv	5	4.3	85	30-150	
m&p-Xylene	ppbv	5	4.7	93	72-135	
Methyl-tert-butyl ether	ppbv	5	5.2	104	71-134	
Methylene Chloride	ppbv	5	5.0	100	59-140	
n-Hexane	ppbv	5	4.7	94	67-136	
o-Xylene	ppbv	5	4.2	85	74-135	
Styrene	ppbv	5	4.8	95	73-135	
Tetrachloroethene	ppbv	5	4.5	89	66-135	
THC as Gas	ppbv	390	275	70	63-141	
Toluene	ppbv	5	4.6	92	71-134	
trans-1,2-Dichloroethene	ppbv	5	4.6	91	68-129	
trans-1,3-Dichloropropene	ppbv	5	4.7	94	75-129	

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QUALITY CONTROL DATA

Project: 1011.05.07 FF/NN Landfill
Pace Project No.: 10227010

LABORATORY CONTROL SAMPLE: 1434846

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichloroethene	ppbv	5	5.2	103	68-134	
Trichlorofluoromethane	ppbv	5	4.8	95	61-134	
Vinyl chloride	ppbv	5	4.9	98	64-134	
Xylene (Total)	ppbv	15	8.9	59	70-130	

SAMPLE DUPLICATE: 1435546

Parameter	Units	10227301006 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ppbv	ND	ND		30	
1,1,2,2-Tetrachloroethane	ppbv	ND	ND		30	
1,1,2-Trichloroethane	ppbv	ND	ND		30	
1,1,2-Trichlorotrifluoroethane	ppbv	ND	ND		30	
1,1-Dichloroethane	ppbv	ND	ND		30	
1,1-Dichloroethene	ppbv	ND	ND		30	
1,2,4-Trichlorobenzene	ppbv	ND	ND		30	
1,2,4-Trimethylbenzene	ppbv	44.9	36.8	20	30	
1,2-Dibromoethane (EDB)	ppbv	ND	ND		30	
1,2-Dichlorobenzene	ppbv	ND	ND		30	
1,2-Dichloroethane	ppbv	ND	ND		30	
1,2-Dichloroethene (Total)	ppbv	ND	ND		30	
1,2-Dichloropropane	ppbv	ND	ND		30	
1,3,5-Trimethylbenzene	ppbv	25.5	23.0	10	30	
1,3-Dichlorobenzene	ppbv	ND	ND		30	
1,4-Dichlorobenzene	ppbv	ND	ND		30	
Benzene	ppbv	169	200	17	30	E
Bromomethane	ppbv	ND	ND		30	
Carbon tetrachloride	ppbv	ND	ND		30	
Chlorobenzene	ppbv	ND	ND		30	
Chloroethane	ppbv	ND	ND		30	
Chloroform	ppbv	ND	ND		30	
Chloromethane	ppbv	ND	ND		30	
cis-1,2-Dichloroethene	ppbv	ND	ND		30	
cis-1,3-Dichloropropene	ppbv	ND	ND		30	
Dichlorodifluoromethane	ppbv	ND	ND		30	
Dichlorotetrafluoroethane	ppbv	ND	ND		30	
Ethylbenzene	ppbv	27.6	28.1	1	30	
Hexachloro-1,3-butadiene	ppbv	ND	ND		30	
m&p-Xylene	ppbv	119	117	2	30	E
Methyl-tert-butyl ether	ppbv	ND	ND		30	
Methylene Chloride	ppbv	2.8	ND		30	
n-Hexane	ppbv	17.3	16.9	2	30	
o-Xylene	ppbv	41.6	37.7	10	30	
Styrene	ppbv	ND	ND		30	
Tetrachloroethene	ppbv	ND	ND		30	
THC as Gas	ppbv	1510	1750	15	30	
Toluene	ppbv	9.7	13.7	34	30	R1
trans-1,2-Dichloroethene	ppbv	ND	ND		30	

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QUALITY CONTROL DATA

Project: 1011.05.07 FF/NN Landfill
Pace Project No.: 10227010

SAMPLE DUPLICATE: 1435546

Parameter	Units	10227301006 Result	Dup Result	RPD	Max RPD	Qualifiers
trans-1,3-Dichloropropene	ppbv	ND	ND		30	
Trichloroethene	ppbv	ND	ND		30	
Trichlorofluoromethane	ppbv	ND	ND		30	
Vinyl chloride	ppbv	ND	ND		30	
Xylene (Total)	ppbv	161	154	4	30	ES

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QUALIFIERS

Project: 1011.05.07 FF/NN Landfill
Pace Project No.: 10227010

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

SAMPLE QUALIFIERS

Sample: 10227010003

[1] The internal standard recoveries associated with this sample exceed the lower control limit (-40% of initial calibration standard). Results confirmed by second analysis.

Sample: 10227010005

[1] The internal standard recoveries associated with this sample exceed the lower control limit (-40% of initial calibration standard). Results confirmed by second analysis.

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
ES	The reported result is estimated because one or more of the constituent results are qualified as such.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1011.05.07 FF/NN Landfill
Pace Project No.: 10227010

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10227010001	LC-1	TO-14M Ambient Air	AIR/17346		
10227010002	LC-2	TO-14M Ambient Air	AIR/17346		
10227010003	LC-3	TO-14M Ambient Air	AIR/17346		
10227010004	GV-6	TO-14M Ambient Air	AIR/17346		
10227010005	GP-3	TO-14M Ambient Air	AIR/17359		

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

10222010
11845

Page: 1 of 1

Section A Required Client Information:

Company: TetraTech Geo
Address: 175 Corporate Dr Suite 100
Email To: Brookfield WE
Phone: 262-792-1282 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Mike Noel
Copy To: Nelson Olmarrie Cooper Industries
Purchase Order No.: Houston TX
Project Name: FF/NN Landfill
Project Number: 1011.05.07

Section C Invoice Information:

Attention: Nelson Olmarrie
Company Name: Cooper Industries
Address: Houston TX
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #:

Program: UST X Superfund Emissions Clean Air Act
Voluntary Clean Up Dry Clean RCRA Other

Location of Sampling by State: WI

Reporting Units: ug/m³ mg/m³ PPBV PPMV Other

Report Level II. III. IV. Other

ITEM #	'Section D Required Client Information AIR SAMPLE ID (Sample IDs MUST BE UNIQUE)	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START END/GRAB DATE	COLLECTED COMPOSITE START END/GRAB TIME	COLLECTED COMPOSITE - DATE	COLLECTED COMPOSITE - TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: PM10	3C- Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14 & 39 VOCs	TO-15	TO15 Short List*	Pace Lab ID
1	LC-1	1LC		4.29.13	0718	4.29.13	0821	-29	-6	460							✓				10227010001
2	LC-2	1LC		4.29.13	0715	4.29.13	0816	-30	-7	749							✓				002
3	LC-3	1LC		4.29.13	0720	4.29.13	0825	-30	-5	760							✓				003
4	GV-6	1LC		4.29.13	0716	4.29.13	0819	-28	-3	883							✓				004
5	GP-3	1LC		4.29.13	0722	4.29.13	0828	-28	-2	1776							✓				005
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Valid Media Codes: Tedlar Bag TB; 1 Liter Summa Can 1LC; 6 Liter Summa Can 6LC; Low Volume Puff LVP; High Volume Puff HVP; Other PM10

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Jack Wendler	4.29.13	1200		4.30.13	09:05

SAMPLE CONDITIONS

	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
	AMB	Y/N	Y/N	Y/N
		Y/N	Y/N	Y/N
		Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jack Wendler

SIGNATURE of SAMPLER: Jack Wendler DATE Signed (MM / DD / YY): 04-29-13

ORIGINAL

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386

Pace Analytical®	Document Name: Air Sample Condition Upon Receipt	Document Revised: 28Jan2013 Page 1 of 1
	Document No.: F-MN-A-106-rev.07	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: TetraTech GEO

Project #: WO# : 10227010

10227010

Courier: [X] Fed Ex [ ] UPS [ ] USPS [ ] Client [ ] Commercial [ ] Pace [ ] Other:

Tracking Number: 6726 5385 3073

Custody Seal on Cooler/Box Present? [ ] Yes [X] No **Seals Intact?** [ ] Yes [ ] No

Optional: Proj. Due Date: Proj. Name:

Packing Material: [ ] Bubble Wrap [ ] Bubble Bags [X] Foam [ ] None [ ] Other:

Temp. (TO17 and TO13 samples only) (°C): AMB **Corrected Temp (°C):** _____ **Thermom. Used:** [ ] B88A912167504 [ ] 80512447 [ ] 72337080

Temp should be above freezing to 6°C **Correction Factor:** _____ **Date & Initials of Person Examining Contents:** 4-30-13 AF

				Comments:
Chain of Custody Present?	[X] Yes	[ ] No	[ ] N/A	1.
Chain of Custody Filled Out?	[X] Yes	[ ] No	[ ] N/A	2.
Chain of Custody Relinquished?	[X] Yes	[ ] No	[ ] N/A	3.
Sampler Name and/or Signature on COC?	[X] Yes	[ ] No	[ ] N/A	4.
Samples Arrived within Hold Time?	[X] Yes	[ ] No	[ ] N/A	5.
Short Hold Time Analysis (<72 hr)?	[ ] Yes	[X] No	[ ] N/A	6.
Rush Turn Around Time Requested?	[ ] Yes	[X] No	[ ] N/A	7.
Sufficient Volume?	[X] Yes	[ ] No	[ ] N/A	8.
Correct Containers Used?	[X] Yes	[ ] No	[ ] N/A	9.
-Pace Containers Used?	[X] Yes	[ ] No	[ ] N/A	
Containers Intact?	[X] Yes	[ ] No	[ ] N/A	10.
Media: AIR (can)				11.
Sample Labels Match COC?	[ ] Yes	[ ] No	[ ] N/A	12.

Samples Received:

Canisters		Flow Controllers		Stand Alone G	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
LC-1	1460	FC0047			
LC-2	0749	FC0145			
LC-3	0760	FC0127			
GV-6	0883	FC0119			
GP-3	1776	FC0120			

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** [ ] Yes [ ] No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: _____ **Date:** 5/1/13

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

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Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

May 15, 2013

Mr. Nelson Olavarria
Eaton Electric Holdings, LLC
600 Travis Street
Suite 5600
Houston, TX 77002

RE: Project: Ripon FF/NN LF
Pace Project No.: 3094325

Dear Mr. Olavarria:
Enclosed are the analytical results for sample(s) received by the laboratory on April 30, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

The samples were subcontracted to Northern Lakes Laboratory, 400 N. Lake Ave., Crandon, WI, for 524.2 analysis. Results of the analysis are reported on the Northern Lakes Laboratory data tables.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

David A. Pichette

david.pichette@pacelabs.com
Project Manager

Enclosures

cc: Mr. Michael Noel, Geotrans, Inc.

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Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: Ripon FF/NN LF
Pace Project No.: 3094325

Lab ID	Sample ID	Matrix	Date Collected	Date Received
3094325001	ROHDE	Water	04/26/13 11:50	04/30/13 09:00
3094325002	GAASTRA	Water	04/26/13 10:30	04/30/13 09:00
3094325003	BANECK/PERRY/WATKINS	Water	04/26/13 09:45	04/30/13 09:00
3094325004	TB-2	Water	04/26/13 00:01	04/30/13 09:00

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NORTHERN LAKE SERVICE, INC.
Analytical Laboratory and Environmental Services
400 North Lake Avenue - Crandon, WI 54520
Ph: (715)-478-2777 Fax: (715)-478-3060

ANALYTICAL REPORT

WDNR Laboratory ID No. 721026460
WDATCP Laboratory Certification No. 105-330
EPA Laboratory ID No. WI00034

NLS Project: 196201
NLS Customer: 94575

Client: Pace Analytical Services Inc (GB)
Attn: Cindy Varga
1241 Bellevue Street
Green Bay, WI 54302 2156

Fax: 920 469 8827 Phone: 800 736 2436

Project: 4077021 - 117-2202040.19 Ripon FF/NN/LF

Rohde NLS ID: 716872
COC: Pace Matrix: DW
Collected: 04/26/13 11:50 Received: 05/01/13

Parameter	Result	Units	Dilution	LOD	LOQ/MCL	Analyzed	Method	Lab
SDWA Volatile Organics (VOCs) by EPA 524.2	see attached					05/10/13	EPA 524.2, Rev 4.1	721026460

Gaastra NLS ID: 716873
COC: Pace Matrix: DW
Collected: 04/26/13 10:30 Received: 05/01/13

Parameter	Result	Units	Dilution	LOD	LOQ/MCL	Analyzed	Method	Lab
SDWA Volatile Organics (VOCs) by EPA 524.2	see attached					05/10/13	EPA 524.2, Rev 4.1	721026460

Baneck/Perry/Watkins NLS ID: 716874
COC: Pace Matrix: DW
Collected: 04/26/13 09:45 Received: 05/01/13

Parameter	Result	Units	Dilution	LOD	LOQ/MCL	Analyzed	Method	Lab
SDWA Volatile Organics (VOCs) by EPA 524.2	see attached					05/10/13	EPA 524.2, Rev 4.1	721026460

TB-2 NLS ID: 716875
COC: Pace Matrix: TB
Collected: 04/26/13 00:00 Received: 05/01/13

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
SDWA Volatile Organics (VOCs) by EPA 524.2	see attached					05/10/13	EPA 524.2, Rev 4.1	721026460

Values in brackets represent results greater than or equal to the LOD but less than the LOQ and are within a region of "Less-Certain Quantitation". Results greater than or equal to the LOQ are considered to be in the region of "Certain Quantitation". LOD and/or LOQ tagged with an asterisk(*) are considered Reporting Limits. All LOD/LOQs adjusted to reflect dilution.

LOD = Limit of Detection LOQ = Limit of Quantitation ND = Not Detected (< LOD) 1000 ug/L = 1 mg/L
DWB = Dry Weight Basis NA = Not Applicable %DWB = (mg/kg DWB) / 10000
MCL = Maximum Contaminant Levels for Drinking Water Samples. Shaded results indicate >MCL.

Reviewed by:

Authorized by:
R. T. Krueger
President

ANALYTICAL RESULTS: VOC's by EPA 524.2, Rev 4.1 - Water - Extended (Saturn 3)

Customer: Pace Analytical Services Inc (GB) **NLS Project: 196201**

Project Description: 4077021 - 117-2202040.19

Project Title: Ripon FF/NN/LF **Template: SAT3PACE** **Printed: 05/14/2013 17:02**

Sample: 716872 Rohde Collected: 04/26/13 Analyzed: 05/10/13 - Analytes: 63

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	MCL	Note
Benzene	ND	ug/L	1	0.17	0.60		
Bromobenzene	ND	ug/L	1	0.18	0.64		
Bromochloromethane	ND	ug/L	1	0.16	0.55		
Bromodichloromethane	ND	ug/L	1	0.18	0.64		
Bromoform	ND	ug/L	1	0.17	0.60		
Bromomethane	ND	ug/L	1	0.36	1.3		
n-Butylbenzene	ND	ug/L	1	0.22	0.77		
sec-Butylbenzene	ND	ug/L	1	0.16	0.57		
tert-Butylbenzene	ND	ug/L	1	0.12	0.42		
Carbon Tetrachloride	ND	ug/L	1	0.24	0.85		
Chlorobenzene	ND	ug/L	1	0.19	0.69		
Chloroethane	ND	ug/L	1	1.3	4.6		
Chloroform	ND	ug/L	1	0.20	0.70		
Chloromethane	ND	ug/L	1	0.14	0.51		
2-Chlorotoluene	ND	ug/L	1	0.15	0.55		
4-Chlorotoluene	ND	ug/L	1	0.19	0.66		
Dibromochloromethane	ND	ug/L	1	0.15	0.53		
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.12	0.42		
1,2-Dibromoethane	ND	ug/L	1	0.11	0.38		
Dibromomethane	ND	ug/L	1	0.21	0.75		
1,2-Dichlorobenzene	ND	ug/L	1	0.17	0.61		
1,3-Dichlorobenzene	ND	ug/L	1	0.20	0.71		
1,4-Dichlorobenzene	ND	ug/L	1	0.14	0.47		
Dichlorodifluoromethane	ND	ug/L	1	0.23	0.81		
1,1-Dichloroethane	ND	ug/L	1	0.20	0.68		
1,2-Dichloroethane	ND	ug/L	1	0.23	0.80		
1,1-Dichloroethene	ND	ug/L	1	0.21	0.75		
cis-1,2-Dichloroethene	ND	ug/L	1	0.13	0.47		
trans-1,2-Dichloroethene	ND	ug/L	1	0.16	0.55		
1,2-Dichloropropane	ND	ug/L	1	0.26	0.92		
1,3-Dichloropropane	ND	ug/L	1	0.26	0.91		
2,2-Dichloropropane	ND	ug/L	1	0.17	0.62		
1,1-Dichloropropene	ND	ug/L	1	0.16	0.55		
cis-1,3-Dichloropropene	ND	ug/L	1	0.16	0.55		
trans-1,3-Dichloropropene	ND	ug/L	1	0.19	0.68		
Ethylbenzene	ND	ug/L	1	0.15	0.51		
Hexachlorobutadiene	ND	ug/L	1	0.20	0.71		
Isopropylbenzene	ND	ug/L	1	0.19	0.65		
p-Isopropyltoluene	ND	ug/L	1	0.19	0.66		
Methylene chloride	ND	ug/L	1	0.17	0.61		
Naphthalene	ND	ug/L	1	0.20	0.71		
n-Propylbenzene	ND	ug/L	1	0.16	0.58		
ortho-Xylene	ND	ug/L	1	0.15	0.55		
Styrene	ND	ug/L	1	0.20	0.68		
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.17	0.59		
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.15	0.55		
Tetrachloroethene	ND	ug/L	1	0.18	0.62		
Toluene	ND	ug/L	1	0.14	0.48		
1,2,3-Trichlorobenzene	ND	ug/L	1	0.24	0.86		
1,2,4-Trichlorobenzene	ND	ug/L	1	0.15	0.51		
1,1,1-Trichloroethane	ND	ug/L	1	0.11	0.37		
1,1,2-Trichloroethane	ND	ug/L	1	0.22	0.78		
Trichloroethene	ND	ug/L	1	0.19	0.66		

ANALYTICAL RESULTS: VOC's by EPA 524.2, Rev 4.1 - Water - Extended (Saturn 3)
Customer: Pace Analytical Services Inc (GB) **NLS Project: 196201**
Project Description: 4077021 - 117-2202040.19
Project Title: Ripon FF/NN/LF **Template: SAT3PACE** **Printed: 05/14/2013 17:02**

Sample: 716872 Rohde Collected: 04/26/13 Analyzed: 05/10/13 - Analytes: 63

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	MCL	Note
Trichlorofluoromethane	ND	ug/L	1	0.13	0.46		
1,2,3-Trichloropropane	ND	ug/L	1	0.25	0.87		
1,2,4-Trimethylbenzene	ND	ug/L	1	0.20	0.69		
1,3,5-Trimethylbenzene	ND	ug/L	1	0.19	0.66		
Vinyl chloride	ND	ug/L	1	0.19	0.67		
meta,para-Xylene	ND	ug/L	1	0.37	1.3		
MTBE	ND	ug/L	1	0.23	0.83		
Acetone	ND	ug/L	1	4.2	12		
Carbon disulfide	ND	ug/L	1	0.17	0.61		
Methyl ethyl ketone	ND	ug/L	1	1.4	4.8		
4-Bromofluorobenzene (SURR)	108%						S
1,2-Dichlorobenzene - d4 (SURR)	109%						S

NOTES APPLICABLE TO THIS ANALYSIS:
S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: VOC's by EPA 524.2, Rev 4.1 - Water - Extended (Saturn 3)
Customer: Pace Analytical Services Inc (GB) **NLS Project: 196201**
Project Description: 4077021 - 117-2202040.19
Project Title: Ripon FF/NN/LF **Template: SAT3PACE** **Printed: 05/14/2013 17:02**

Sample: 716873 Gaastra Collected: 04/26/13 Analyzed: 05/10/13 - Analytes: 63

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	MCL	Note
Benzene	ND	ug/L	1	0.17	0.60		
Bromobenzene	ND	ug/L	1	0.18	0.64		
Bromochloromethane	ND	ug/L	1	0.16	0.55		
Bromodichloromethane	ND	ug/L	1	0.18	0.64		
Bromoform	ND	ug/L	1	0.17	0.60		
Bromomethane	ND	ug/L	1	0.36	1.3		
n-Butylbenzene	ND	ug/L	1	0.22	0.77		
sec-Butylbenzene	ND	ug/L	1	0.16	0.57		
tert-Butylbenzene	ND	ug/L	1	0.12	0.42		
Carbon Tetrachloride	ND	ug/L	1	0.24	0.85		
Chlorobenzene	ND	ug/L	1	0.19	0.69		
Chloroethane	ND	ug/L	1	1.3	4.6		
Chloroform	ND	ug/L	1	0.20	0.70		
Chloromethane	ND	ug/L	1	0.14	0.51		
2-Chlorotoluene	ND	ug/L	1	0.15	0.55		
4-Chlorotoluene	ND	ug/L	1	0.19	0.66		
Dibromochloromethane	ND	ug/L	1	0.15	0.53		
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.12	0.42		
1,2-Dibromoethane	ND	ug/L	1	0.11	0.38		
Dibromomethane	ND	ug/L	1	0.21	0.75		
1,2-Dichlorobenzene	ND	ug/L	1	0.17	0.61		
1,3-Dichlorobenzene	ND	ug/L	1	0.20	0.71		
1,4-Dichlorobenzene	ND	ug/L	1	0.14	0.47		
Dichlorodifluoromethane	ND	ug/L	1	0.23	0.81		
1,1-Dichloroethane	ND	ug/L	1	0.20	0.68		
1,2-Dichloroethane	ND	ug/L	1	0.23	0.80		
1,1-Dichloroethene	ND	ug/L	1	0.21	0.75		
cis-1,2-Dichloroethene	ND	ug/L	1	0.13	0.47		
trans-1,2-Dichloroethene	ND	ug/L	1	0.16	0.55		
1,2-Dichloropropane	ND	ug/L	1	0.26	0.92		
1,3-Dichloropropane	ND	ug/L	1	0.26	0.91		
2,2-Dichloropropane	ND	ug/L	1	0.17	0.62		
1,1-Dichloropropene	ND	ug/L	1	0.16	0.55		
cis-1,3-Dichloropropene	ND	ug/L	1	0.16	0.55		
trans-1,3-Dichloropropene	ND	ug/L	1	0.19	0.68		
Ethylbenzene	ND	ug/L	1	0.15	0.51		
Hexachlorobutadiene	ND	ug/L	1	0.20	0.71		
Isopropylbenzene	ND	ug/L	1	0.19	0.65		
p-Isopropyltoluene	ND	ug/L	1	0.19	0.66		
Methylene chloride	ND	ug/L	1	0.17	0.61		
Naphthalene	ND	ug/L	1	0.20	0.71		
n-Propylbenzene	ND	ug/L	1	0.16	0.58		
ortho-Xylene	ND	ug/L	1	0.15	0.55		
Styrene	ND	ug/L	1	0.20	0.68		
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.17	0.59		
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.15	0.55		
Tetrachloroethene	ND	ug/L	1	0.18	0.62		
Toluene	ND	ug/L	1	0.14	0.48		
1,2,3-Trichlorobenzene	ND	ug/L	1	0.24	0.86		
1,2,4-Trichlorobenzene	ND	ug/L	1	0.15	0.51		
1,1,1-Trichloroethane	ND	ug/L	1	0.11	0.37		
1,1,2-Trichloroethane	ND	ug/L	1	0.22	0.78		
Trichloroethene	ND	ug/L	1	0.19	0.66		

ANALYTICAL RESULTS: VOC's by EPA 524.2, Rev 4.1 - Water - Extended (Saturn 3)
Customer: Pace Analytical Services Inc (GB) **NLS Project: 196201**
Project Description: 4077021 - 117-2202040.19
Project Title: Ripon FF/NN/LF **Template: SAT3PACE** **Printed: 05/14/2013 17:02**

Sample: 716873 Gaastra Collected: 04/26/13 Analyzed: 05/10/13 - Analytes: 63

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	MCL	Note
Trichlorofluoromethane	ND	ug/L	1	0.13	0.46		
1,2,3-Trichloropropane	ND	ug/L	1	0.25	0.87		
1,2,4-Trimethylbenzene	ND	ug/L	1	0.20	0.69		
1,3,5-Trimethylbenzene	ND	ug/L	1	0.19	0.66		
Vinyl chloride	ND	ug/L	1	0.19	0.67		
meta,para-Xylene	ND	ug/L	1	0.37	1.3		
MTBE	ND	ug/L	1	0.23	0.83		
Acetone	ND	ug/L	1	4.2	12		
Carbon disulfide	ND	ug/L	1	0.17	0.61		
Methyl ethyl ketone	ND	ug/L	1	1.4	4.8		
4-Bromofluorobenzene (SURR)	102%						S
1,2-Dichlorobenzene - d4 (SURR)	107%						S

NOTES APPLICABLE TO THIS ANALYSIS:
S = This compound is a surrogate used to evaluate the quality control of a method.

APPENDIX C
GROUNDWATER SAMPLING FIELD FORMS

TETRA TECH MULTI-LEVEL MONITOR WELL WATER QUALITY SAMPLING AND ANALYSIS FORM

PROJECT INFORMATION		INSTRUMENTS	
PROJECT	FF/NN Landfill	Temp. & pH	MP-20 Flow Cell
PROJECT NO.	117-2202040.19	Conductivity	MP-20 Flow Cell
LOCATION	Ripon, WI	ORP	MP-20 Flow Cell
PERSONNEL	Ashley A. Weimer	DO	MP-20 Flow Cell

MONITOR WELL ID	MW-3A			MW-3B			P-113A		
WATER TYPE	Groundwater			Groundwater			Groundwater		
DATE (month/day/year)	4-26-13			4-26-13			4-26-13		
STATIC WATER LEVEL (feet)*	30.70			29.55			13.26		
WELL DEPTH (feet)*	280.1			185.72			325.31		
PUMP INLET DEPTH (feet)*	67.5			54.5			73.5		
START PURGE TIME (Military)	13:10			13:40			12:00		
END PURGE TIME (Military)	13:30			13:55			12:35		
PURGE VOLUME (gallons)	1.25			1.5			0.75		
SAMPLE TIME (Military)	13:35			13:55			12:35		
STABILIZED INDICATOR PARAMETERS READINGS	1st	2nd	3rd	1st	2nd	3rd	1st	2nd	3rd
TIME (minutes since initial reading)	8 :00	9 :00	10 :00	2 :00	3 :00	4 :00	14 :00	16 :00	18 :00
TEMPERATURE (° C)	9.91	10.15	10.20	9.665	9.666	9.664	11.78	11.78	11.76
ELECTRICAL CONDUCTANCE at 25° C (ms/cm)	0.5600	0.5600	0.5600	0.688	0.685	0.681	0.553	0.555	0.555
DISSOLVED OXYGEN (ppm)	1.49	1.44	1.38	2.64	2.51	2.59	1.80	1.71	1.64
pH	7.79	7.78	7.77	8.00	7.94	7.90	7.71	7.69	7.666
DISSOLVED OXYGEN (% Sat.)	13.2	12.9	12.3	23.3	22.2	22.8	16.7	15.8	15.1
ORP (mV)	-176	-174	-171	-169	-163	-158	-121	-122	-120
COLOR	clear			clear			clear		
ODOR	none			none			none		
CLARITY	clear			clear			clear		
SAMPLING PARAMETERS	# OF CONTAINERS & VOLUME; CONTAINER TYPE (A=AMBER; G=GLASS; P=PLASTIC); PRESERVATIVE TYPE (L=LAB ADDED; F=FIELD ADDED) OR NEUTRAL; FILTERED (YES or NO)								
VOCs (EPA Method SW 8260B)	3 – 40 ml; G; HCl – L; No			3 – 40 ml; G; HCl – L; No			3 – 40 ml; G; HCl – L; No		
Vacu-Vials Iron 2- Wait 1, then wait 5 min	0.131			0.850			0.814		
NAME OF LABORATORY	Pace Analytical			Pace Analytical			Pace Analytical		
DATE SENT TO LAB	4-29-13			4-29-13			4-29-13		
SAMPLER=S NAME	Ashley A. Weimer			Ashley A. Weimer			Ashley A. Weimer		

*Measured from top of well casing.

TETRA TECH

TETRA TECH MULTI-LEVEL MONITOR WELL WATER QUALITY SAMPLING AND ANALYSIS FORM

PROJECT INFORMATION		INSTRUMENTS	
PROJECT	FF/NN Landfill	Temp. & pH	MP-20 Flow Cell
PROJECT NO.	117-2202040.19	Conductivity	MP-20 Flow Cell
LOCATION	Ripon, WI	ORP	MP-20 Flow Cell
PERSONNEL	Ashley A. Weimer	DO	MP-20 Flow Cell

MONITOR WELL ID	P-113B			P-103			P-103D		
WATER TYPE	Groundwater			Groundwater			Groundwater		
DATE (month/day/year)	4-26-13			4-26-13			4-26-13		
STATIC WATER LEVEL (feet)*	12.21			49.04			49.94		
WELL DEPTH (feet)*	198.9			83.02			192.66		
PUMP INLET DEPTH (feet)*	48.5			69.5			87.5		
START PURGE TIME (Military)	12:40			15:55			15:35		
END PURGE TIME (Military)	12:50			16:10			15:50		
PURGE VOLUME (gallons)	1.0			1.5			1.5		
SAMPLE TIME (Military)	12:55			16:10			15:50		
STABILIZED INDICATOR PARAMETERS READINGS	1st	2nd	3rd	1st	2nd	3rd	1st	2nd	3rd
TIME (minutes since initial reading)	0 :00	1 :00	2 :00	4 :00	5 :00	6 :00	1 :00	2 :00	3 :00
TEMPERATURE (° C)	10.33	10.33	10.33	10.32	10.42	10.44	10.62	10.47	10.43
ELECTRICAL CONDUCTANCE at 25° C (ms/cm)	0.1051	0.1051	0.1051	0791	0.791	0.790	0.804	0.806	0.806
DISSOLVED OXYGEN (ppm)	0.97	0.86	0.78	0.72	0.64	0.59	1.60	1.48	1.41
pH	7.89	7.86	7.84	7.46	7.46	7.45	7.51	7.50	7.50
DISSOLVED OXYGEN (% Sat.)	8.7	7.7	7.0	6.4	5.7	5.3	14.4	11.7	12.7
ORP (mV)	-136	-131	-125	-82	-84	-86	-95	-96	-97
COLOR	clear			clear			clear		
ODOR	none			none			none		
CLARITY	clear			clear			clear		

SAMPLING PARAMETERS	# OF CONTAINERS & VOLUME; CONTAINER TYPE (A=AMBER; G=GLASS; P=PLASTIC); PRESERVATIVE TYPE (L=LAB ADDED; F=FIELD ADDED) OR NEUTRAL; FILTERED (YES or NO)		
VOCs (EPA Method SW 8260B)	3 – 40 ml; G; HCl – L; No	3 – 40 ml; G; HCl – L; No	3 – 40 ml; G; HCl – L; No
Vacu-Vials Iron 2- Wait 1, then wait 5 min	0.938	over Range	2.531
NAME OF LABORATORY	Pace Analytical	Pace Analytical	Pace Analytical
DATE SENT TO LAB	4-29-13	4-29-13	4-29-13
SAMPLER-S NAME	Ashley A. Weimer	Ashley A. Weimer	Ashley A. Weimer

*Measured from top of well casing.

TETRA TECH

TETRA TECH MULTI-LEVEL MONITOR WELL WATER QUALITY SAMPLING AND ANALYSIS FORM

PROJECT INFORMATION		INSTRUMENTS	
PROJECT	FF/NN Landfill	Temp. & pH	MP-20 Flow Cell
PROJECT NO.	117-2202040.19	Conductivity	MP-20 Flow Cell
LOCATION	Ripon, WI	ORP	MP-20 Flow Cell
PERSONNEL	Ashley A. Welmer	DO	MP-20 Flow Cell

MONITOR WELL ID	P-111D/Dup			P-107			P-107D		
WATER TYPE	Groundwater			Groundwater			Groundwater		
DATE (month/day/year)	4-26-13			4-26-13			4-26-13		
STATIC WATER LEVEL (feet)*	34.72			51.50			51.57		
WELL DEPTH (feet)*	151.0			85.75			327.95		
PUMP INLET DEPTH (feet)*	151.0			74.5			76.5		
START PURGE TIME (Military)	14:05			15:05			14:40		
END PURGE TIME (Military)	14:20			15:20			14:55		
PURGE VOLUME (gallons)	2.0			1.0			1.5		
SAMPLE TIME (Military)	14:25/14:30			15:25			15:00		
STABILIZED INDICATOR PARAMETERS READINGS	1st	2nd	3rd	1st	2nd	3rd	1st	2nd	3rd
TIME (minutes since initial reading)	7 :00	8 :00	9 :00	3 :00	4 :00	5 :00	7 :00	8 :00	9 :00
TEMPERATURE (° C)	10.09	10.07	10.50	10.79	10.83	10.81	10.35	10.27	10.32
ELECTRICAL CONDUCTANCE at 25° C (ms/cm)	0.839	0.840	0.838	0.861	0.860	0.860	0.585	0.584	0.585
DISSOLVED OXYGEN (ppm)	1.27	1.09	1.16	2.27	2.32	2.16	2.35	2.24	2.18
pH	7.72	7.72	7.71	7.54	7.53	7.53	7.85	7.84	7.84
DISSOLVED OXYGEN (% Sat.)	11.4	9.7	10.4	20.6	21.1	19.7	21.0	20.0	19.5
ORP (mV)	-114	-114	-114	-76	-76	-76	-138	-142	-146
COLOR	clear			clear			clear		
ODOR	none			none			none		
CLARITY	clear			clear			clear		
SAMPLING PARAMETERS	# OF CONTAINERS & VOLUME; CONTAINER TYPE (A=AMBER; G=GLASS; P=PLASTIC); PRESERVATIVE TYPE (L=LAB ADDED; F=FIELD ADDED) OR NEUTRAL; FILTERED (YES or NO)								
VOCs (EPA Method SW 8260B)	3 – 40 ml; G; HCl – L; No			3 – 40 ml; G; HCl – L; No			3 – 40 ml; G; HCl – L; No		
Vacu-Vials Iron 2- Wait 1, then wait 5 min	1.486			Not Measured			0.276		
	**TOOK DUP AT 14:30 **								
NAME OF LABORATORY	Pace Analytical			Pace Analytical			Pace Analytical		
DATE SENT TO LAB	4-29-13			4-29-13			4-29-13		
SAMPLER=S NAME	Ashley A. Welmer			Ashley A. Welmer			Ashley A. Welmer		

*Measured from top of well casing.

TETRA TECH

TETRA TECH MULTI-LEVEL MONITOR WELL WATER QUALITY SAMPLING AND ANALYSIS FORM

PROJECT INFORMATION		INSTRUMENTS	
PROJECT	FF/NN Landfill	Temp. & pH	MP-20 Flow Cell
PROJECT NO.	117-2202040.19	Conductivity	MP-20 Flow Cell
LOCATION	Ripon, WI	ORP	MP-20 Flow Cell
PERSONNEL	Ashley A. Welmer	DO	MP-20 Flow Cell

MONITOR WELL ID	P-114/Dup			P-115			P-116		
WATER TYPE	Groundwater			Groundwater			Groundwater		
DATE (month/day/year)	4-26-13			4-26-13			4-26-13		
STATIC WATER LEVEL (feet)*	19.41			22.68			26.48		
WELL DEPTH (feet)*	181.72			179.57			163.19		
PUMP INLET DEPTH (feet)*	53.5			53.5			163		
START PURGE TIME (Military)	10:05			11:05			09:15		
END PURGE TIME (Military)	10:30			11:20			09:35		
PURGE VOLUME (gallons)	3.0			1.25			0.75		
SAMPLE TIME (Military)	10:35 / 10:40			11:25			09:40		
STABILIZED INDICATOR PARAMETERS READINGS	1st	2nd	3rd	1st	2nd	3rd	1st	2nd	3rd
TIME (minutes since initial reading)	2 :00	3 :00	4 :00	4 :00	5 :00	6 :00	2 :00	4 :00	6 :00
TEMPERATURE (° C)	9.66	9.66	9.65	10.26	10.24	10.20	9.88	9.87	9.87
ELECTRICAL CONDUCTANCE at 25° C (ms/cm)	0.730	0.731	0.731	0.597	0.597	0.597	0.529	0.529	0.528
DISSOLVED OXYGEN (ppm)	1.75	1.65	1.56	1.36	1.26	1.20	0.61	0.56	0.52
pH	7.61	7.61	7.61	7.76	7.76	7.75	7.41	7.46	7.51
DISSOLVED OXYGEN (% Sat.)	15.5	14.5	13.8	12.2	11.3	10.7	5.4	5.0	4.6
ORP (mV)	4	4	3	-29	-29	-30	104	101	99
COLOR	clear			clear			light pinkish		
ODOR	none			none			none		
CLARITY	clear			clear			clear		

SAMPLING PARAMETERS	# OF CONTAINERS & VOLUME; CONTAINER TYPE (A=AMBER; G=GLASS; P=PLASTIC); PRESERVATIVE TYPE (L=LAB ADDED; F=FIELD ADDED) OR NEUTRAL; FILTERED (YES or NO)		
VOCs (EPA Method SW 8260B)	3 – 40 ml; G; HCl – L; No	3 – 40 ml; G; HCl – L; No	3 – 40 ml; G; HCl – L; No
Vacu-Vials Iron 2- Wait 1, then wait 5 min	0.960	0.866	0.257
	**TOOK DUP AT 10:40 **		
NAME OF LABORATORY	Pace Analytical	Pace Analytical	Pace Analytical
DATE SENT TO LAB	4-29-13	4-29-13	4-29-13
SAMPLER-S NAME	Ashley A. Welmer	Ashley A. Welmer	Ashley A. Welmer

*Measured from top of well casing.

TETRATECH

TETRA TECH MULTI-LEVEL MONITOR WELL WATER QUALITY SAMPLING AND ANALYSIS FORM

PROJECT INFORMATION		INSTRUMENTS	
PROJECT	FF/NN Landfill	Temp. & pH	MP-20 Flow Cell
PROJECT NO.	117-2202040.19	Conductivity	MP-20 Flow Cell
LOCATION	Ripon, WI	ORP	MP-20 Flow Cell
PERSONNEL	Ashley A. Weimer	DO	MP-20 Flow Cell

MONITOR WELL ID	P-106		
WATER TYPE	Groundwater		
DATE (month/day/year)	4-24-13		
STATIC WATER LEVEL (feet)*	54.70		
WELL DEPTH (feet)*	87.18		
PUMP INLET DEPTH (feet)*	78.5		
START PURGE TIME (Military)	10:10		
END PURGE TIME (Military)	11:25		
PURGE VOLUME (gallons)	5.0		
SAMPLE TIME (Military)	11:25		
STABILIZED INDICATOR PARAMETERS READINGS	1st	2nd	3rd
TIME (minutes since initial reading)	161:00	162:00	163:00
TEMPERATURE (° C)	9.80	9.81	9.82
ELECTRICAL CONDUCTANCE at 25° C (ms/cm)	0.7616	0.765	0.764
DISSOLVED OXYGEN (ppm)	3.17	3.06	3.17
pH	7.30	7.28	7.26
DISSOLVED OXYGEN (% Sat.)	27.8	27.1	28.0
ORP (mV)	-4	-5	-6
COLOR	clear		
ODOR	none		
CLARITY	clear		

SAMPLING PARAMETERS	# OF CONTAINERS & VOLUME; CONTAINER TYPE (A=AMBER; G=GLASS; P=PLASTIC); PRESERVATIVE TYPE (L=LAB ADDED; F=FIELD ADDED) OR NEUTRAL; FILTERED (YES or NO)
VOCs (EPA Method SW 8260B)	3 – 40 ml; G; HCl – L; No
Vacu-Vials Iron 2- Wait 1, then wait 5 min	Not Measured
NAME OF LABORATORY	Pace Analytical
DATE SENT TO LAB	4-29-13
SAMPLER=S NAME	Ashley A. Weimer

*Measured from top of well casing.

TETRA TECH

TETRA TECH FIELD WATER QUALITY SAMPLING AND ANALYSIS FORM

PROJECT INFORMATION		INSTRUMENTS	
PROJECT	FF/NN Landfill	Temp. & pH	MP-20 Flow Cell/Hanna
PROJECT NO.	117-2202040.19	Conductivity	MP-20 Flow Cell/Hanna
LOCATION	Ripon, WI	ORP	MP-20 Flow Cell
PERSONNEL	Ashley A. Weimer	DO	MP-20 Flow Cell

SAMPLE POINT		MW-103	MW-104	MW-107	MW-112	
WATER TYPE		Groundwater	Groundwater	Groundwater	Groundwater	
DATE (month/day/year)		4-24-13	4-24-13	4-24-13	4-24-13	
CLOCK TIME (Military)		13:50	12:25	14:30	13:25	
DEPTH TO WATER (ft)*		50.92	51.39	51.91	54.16	
MEASURED WELL DEPTH (ft)*		53.69	55.90	55.32	60.47	
CASING VOLUME (gallons)		0.45	0.74	0.56	1.03	
PURGE VOLUME (gallons)		2.0	3.0	2.5	4.0	
DEPTH SAMPLE TAKEN (ft)*		53.0	55.0	51.5	53.5	
SAMPLING DEVICE		Dedicated Bailer	Dedicated Bailer	Dedicated Bailer	Dedicated Bailer	
FIELD TEMPERATURE (°C)		11.26	12.2	11.0	12.05	
pH		7.05	6.87	7.34	7.11	
ELEC. COND. (uS/cm)	NM	NM	NM	NM	NM	
	at 25° C	1454	1396	1144	1052	
ORP (mV)		41	NM	NM	45	
DISSOLVED OXYGEN (ppm)		3.29	NM	NM	1.56	
DISSOLVED OXYGEN (% Sat.)		30.2	NM	NM	14.5	
COLOR		clear	clear	tan	clear	
ODOR		none	none	none	none	
CLARITY		clear	clear	slight cloud	clear	
SAMPLING PARAMETERS		# OF CONTAINERS & VOLUME; CONTAINER TYPE (A = AMBER GLASS; G = GLASS; P = PLASTIC); PRESERVATIVE TYPE (L = LAB ADDED; F = FIELD ADDED) OR NEUTRAL; FILTERED (YES or NO)				
VOCs (8260B)		3 – 40 ml; G; HCl-L; No	3 – 40 ml; G; HCl-L; No	3 – 40 ml; G; HCl-L; No	3 – 40 ml; G; HCl-L; No	
Vacu-Vials Iron 2		0.394	Not Measured	Not Measured	over range	Sample Times
		Used MP-20 Flow Cell for parameters			Used MP-20 Flow Cell for parameters	4-24 13
						LC-1 Not sampled
						LC-2 12:45
						LC-3 12:35
NAME OF LABORATORY		Pace Analytical	Pace Analytical	Pace Analytical	Pace Analytical	Pace Analytical
DATE SENT TO LAB		4-29-13	4-29-13	4-29-13	4-29-13	4-29-13
SAMPLER-S NAME		Ashley A. Weimer	Ashley A. Weimer	Ashley A. Weimer	Ashley A. Weimer	Ashley A. Weimer

*Measured from top of well casing.

TETRA TECH

TETRA TECH FIELD WATER QUALITY SAMPLING AND ANALYSIS FORM

PROJECT INFORMATION		INSTRUMENTS	
PROJECT	FF/NN Landfill	Temp. & pH	Hanna
PROJECT NO.	117-2202040.19	Conductivity	Hanna
LOCATION	Ripon, WI	ORP	Not Measured
PERSONNEL	Ashley A. Weimer	DO	Not Measured

SAMPLE POINT		Rohde	Gaastra	Baneck/Perry/Watkins		
WATER TYPE		Groundwater	Groundwater	Groundwater		
DATE (month/day/year)		4-26-13	4-26-13	4-26-13		
CLOCK TIME (Military)		11:50	10:30	09:45		
PURGE RATE (GPM)		10.0	5.0	10.0		
PURGE VOLUME (gallons)		150	150	150		
SAMPLING DEVICE		Outside Pump	Outside Spigot	Outside Spigot		
FIELD TEMPERATURE (°C)		12.7	11.4	11.4		
pH		7.63	7.54	7.47		
ELEC. COND. (uS/cm)	Measured	NM	NM	NM		
	at 25° C	581	585	600		
ORP (mV)		NM	NM	NM		
DISSOLVED OXYGEN (ppm)		NM	NM	NM		
DISSOLVED OXYGEN (% Sat.)		NM	NM	NM		
COLOR		clear	clear	clear		
ODOR		none	none	none		
CLARITY		clear	clear	clear		
SAMPLING PARAMETERS		# OF CONTAINERS & VOLUME; CONTAINER TYPE (A = AMBER GLASS; G = GLASS; P = PLASTIC); PRESERVATIVE TYPE (L = LAB ADDED; F = FIELD ADDED) OR NEUTRAL; FILTERED (YES or NO)				
VOCs (524.2)		3 – 40 ml; G; HCl & Ascorbic Acid-L; No	3 – 40 ml; G; HCl & Ascorbic Acid-L; No	3 – 40 ml; G; HCl & Ascorbic Acid-L; No		
Vacu-Vials Iron 2		Not Measured	Not Measured	Not Measured		
NAME OF LABORATORY		Pace Analytical	Pace Analytical	Pace Analytical		
DATE SENT TO LAB		4-29-13	4-29-13	4-29-13		
SAMPLER=S NAME		Ashley A. Weimer	Ashley A. Weimer	Ashley A. Weimer		

*Measured from top of well casing.

TETRA TECH

TETRA TECH

Water Levels
FF/NN Landfill, Ripon, WI

Date: 4-24-13 **Personnel:** Ashley A. Weimer

Well Name	TOC Elevation	Depth to Water	Comments
MW-101	884.80	60.91	
P-101	885.26	61.38	
MW-102	843.05	18.67	
P-102	842.99	18.54	
MW-103	872.42	50.92	
P-103	872.92	49.04	
P-103D	873.08	49.94	
MW-104	875.15	51.39	
P-104	875.48	51.61	
MW-106	878.90	54.60	
P-106	878.91	54.70	
MW-107	871.78	51.91	
P-107	871.38	51.50	
P-107D	871.98	51.57	
MW-108	845.25	26.51	
P-108	845.61	24.09	
MW-111	856.46	37.94	
P-111	856.13	38.06	
P-111D	855.79	34.72	
MW-112	874.55	54.16	
P-113A	833.09	13.26	
P-113B	833.10	12.21	
P-114 (Ehster)	839.35	19.41	
P-115 (Wiese)	842.71	22.68	
P-116 (Hadel)	845.34	26.48	
MW-3A	850.77	30.70	
MW-3B	851.04	29.55	
LC-1	873.15	29.79	
LC-2	866.05	27.54	
LC-3	877.34	31.82	

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

Pace Analytical®
www.pacelabs.com

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	TetraTech
Branch/Location:	Brookfield, WI
Project Contact:	Mike Noel
Phone:	(262)792-1282
Project Number:	117-2202040.19
Project Name:	Ripon FF/NN Landfill
Project State:	WI
Sampled By (Print):	Ashley A. Weimer
Sampled By (Sign):	Ashley A. Weimer
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Mike Noel
Mail To Company:	TetraTech
Mail To Address:	175 N. Corporate Dr Suite 100 Brookfield, WI 53045
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, SI = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO)	PRESERVATION (CODE)*	VOCs 8260B							CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
	P-106	4-24-2013	1125	GW		N	B	3								
	MW-104		1225					3								
	MW-112		1325					3								
	MW-103		1350					3								
	MW-107		1430					3								
	P-116	4-26	0940					3								
	P-114		1035					3								
	P-114 DUP		1040					3								
	P-115		1125					3								
	P-113A		1235					3								
	P-113B		1255					3								
	MW-3A		1335					3								
	MW-3B		1355					3								

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
Ashley A. Weimer	4-29-13 0800		
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:

PACE Project No.

Receipt Temp = °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal
Present / Not Present
Intact / Not Intact

Version 8.0 06/14/06

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

Pace Analytical
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CHAIN OF CUSTODY

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A=None B=HCL C=H2SO4 D=HNO3 E=DIWater F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	TetraTech
Branch/Location:	Brookfield, WI
Project Contact:	Mike Noel
Phone:	(262) 792-1282
Project Number:	117-2202040.19
Project Name:	Ripon FF/NN Landfill
Project State:	WI
Sampled By (Print):	Ashley H. Weimer
Sampled By (Sign):	Ashley A. Weimer
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Mike Noel
Mail To Company:	TetraTech
Mail To Address:	175 N. Corporate Dr Suite 100 Brookfield, WI 53045
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, SI = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

PACE LAB #	CLIENT FIELD ID 2013	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO)	PRESERVATION (CODE)*	VOCs 8260B								CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
	P-111D	4-26	1425	GW	N	B	3										
	P-111D Dup		1430				3										
	P-107D		1500				3										
	P-107		1525				3										
	P-103D		1550				3										
	P-103	↓	1610	↓			3										
	TB-1	—	—	DI			2										
	LC-3	4-24	1235	GW			3										
	LC-2	↓	1245	↓			3										

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
Ashley A. Weimer	4-29-13 0800		
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:

PACE Project No.

Receipt Temp = °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present Intact / Not Intact

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UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	Tetra Tech
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Project Number:	117-2202040.19
Project Name:	Ripon FF/NN Landfill
Project State:	WI
Sampled By (Print):	Ashley A. Weimer
Sampled By (Sign):	Ashley A. Weimer
PO #:	
Regulatory Program:	

Quote #:	
Mail To Contact:	Mike Noel
Mail To Company:	Tetra Tech
Mail To Address:	175 N. Corporate Dr. Suite 100 Brookfield, WI 53045
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

Data Package Options (billable)
- ☐ EPA Level III
- ☐ EPA Level IV

MS/MSD
- ☐ On your sample (billable)
- ☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, SI = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

PACE LAB #	CLIENT FIELD ID 2013	COLLECTION DATE	COLLECTION TIME	MATRIX	Analyses Requested: Y/M	Pick Letter	VOCS 524.2	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
	Rohde	4-26	1150	GW		N	3			
	Gaastra	↓	10:30	↓		J	3			
	Banech/Perry/Watkins	↓	09:45	↓			3			
	TB-2	—	—	DI			2			

FILTERED? (YES/NO)
PRESERVATION (CODE)*

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed:	Relinquished By: Ashley A. Weimer	Date/Time: 4-29-13 0800	Received By:	Date/Time:	PACE Project No.
Transmit Prelim Rush Results by (complete what you want):	Relinquished By:	Date/Time:	Received By:	Date/Time:	
Email #1:	Relinquished By:	Date/Time:	Received By:	Date/Time:	Receipt Temp = °C
Email #2:	Relinquished By:	Date/Time:	Received By:	Date/Time:	Sample Receipt pH OK / Adjusted
Telephone:	Relinquished By:	Date/Time:	Received By:	Date/Time:	Cooler Custody Seal Present / Not Present Intact / Not Intact
Fax:	Relinquished By:	Date/Time:	Received By:	Date/Time:	

Samples on HOLD are subject to special pricing and release of liability

Version 6.0 06/14/06
C019a(27Jun2006)

TETRATECH

FF/NN Landfill Site Inspection Form

Inspector: Ashley A. Weimer Date: 4-24-13

Type of inspection (circle): monthly quarterly semi-annual (annual) severe weather

	Good	Fair	Poor	Comments
1. Vegetative cover (condition, trees or bushes on cap)	X			
2. Soil stability (erosion control)	X			
3. Cover integrity (no exposed waste or ruts)	X			
4. Surface water drainage (settlement or ponding)	X			
5. Surface seep control	X			
6. Unauthorized access control (fence, gates, locks, signs, vandalism)	X			
7. Groundwater well maintenance (seals, casing, labels)	X			NO SIGNS OF ATV TRAFFIC OR TRESPASSING
8. Gas vents	X			
9. Drainage layer discharge pipes	X			
10. Other activites on or adjacent to landfill	X			
11. Additional comments				
12. Items to be observed in future inspections				
13. Recommended maintenance activities				

APPENDIX D

LANDFILL GAS EXTRACTION SYSTEM MONITORING

TETRA TECH GEO

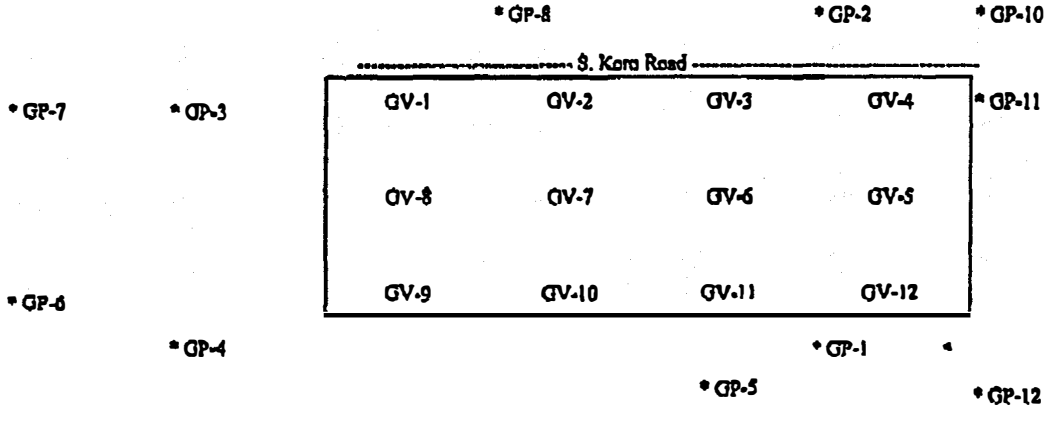
GAS PROBE DATA MONITORING POINTS

Project: FF/NN Landfill
Location: Ripon, Wisconsin
Personnel: Jack Wendler
Water level in buried knockout tank _____"

Barometric Pressure: 28.5 Hg
Temperature (ambient): 38 F
Measuring Device: Eagle
In Trailer Vacuum Gage 5 "Hg

Date	Time	Measurement Point	% CH_4 (* LEL)	% CO_2	% O_2	Comments
2-11-13	1030	Background	0 *	0.0	20.9	
	1055	LC-1	41.0	27.0	0.0	
		LC-2	59.0	35.0	0.6	
	1105	LC-3	27.0	20.2	7.2	
	1045	GV-6	18.5	12.8	9.4	
	1035	GP-1	0 *	1.6	16.2	1st Reading
	1140	GP-1	0 *	5.9	9.2	2nd Reading
		Exhaust				

No exhaust readings - drop tube have to fix



TETRA TECH GEO

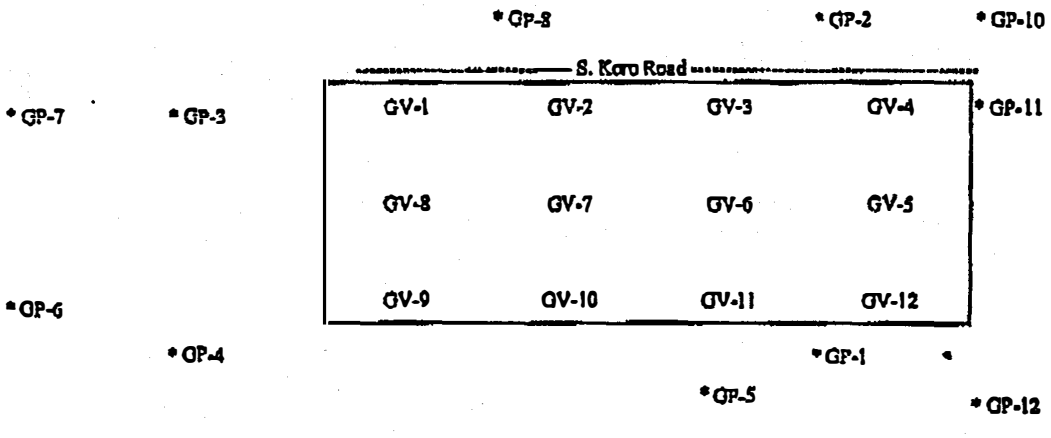
GAS PROBE DATA MONITORING POINTS

Project: FF/NN Landfill
Location: Ripon, Wisconsin
Personnel: Jack Wendler
Water level in buried knockout tank _____"

Barometric Pressure: 29.1 Hg
Temperature (ambient): 28 F
Measuring Device: Eagle
In Trailer Vacuum Gage 4 "Hg

*LEL

Date	Time	Measurement Point	% CH_4	% CO_2	% O_2	Comments
2.25.13	0900	Background	0 *	0.0	20.9	
	0922	LC-1	44.5	26.0	0.0	
	0942	LC-2	53.5	31.0	2.6	
	0930	LC-3	42.0	27.8	3.1	
	0915	GV-6	31.5	21.8	1.7	
	0905	GP-1	0 *	1.4	17.7	1st Reading
	1010	GP-1	0 *	1.2	18.8	2nd Reading
	0910	Exhaust	20 *	0.8	20.1	



C:\Documents and Settings\jwendler\Local Settings\Temporary Internet Files\Content.IE5\S5GLM30H\09122011 Gas Form MON POINT[1]

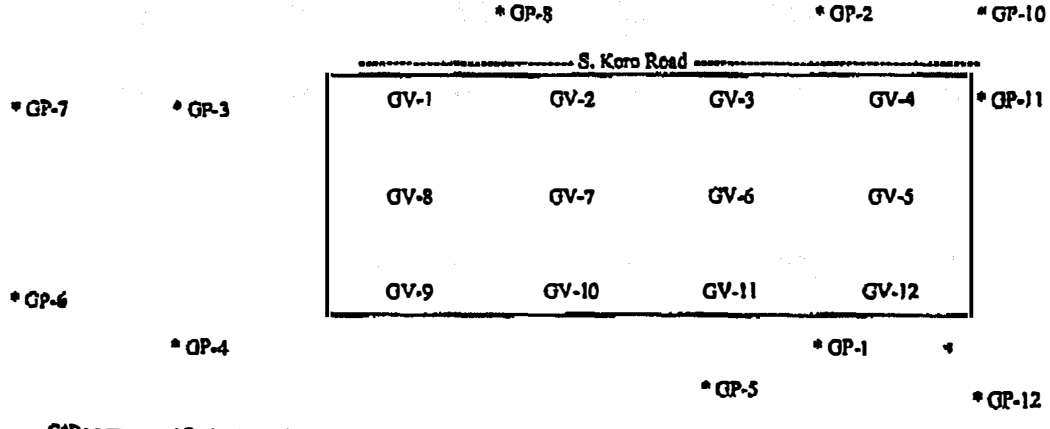
TETRA TECH GEO

GAS PROBE DATA MONITORING POINTS

Project: FF/NN Landfill
Location: Ripon, Wisconsin
Personnel: Jack Wendler
Water level in buried knockout tank _____ "

Barometric Pressure: 29.41 Hg
Temperature (ambient): 8° F
Measuring Device: Eagle
In Trailer Vacuum Gage 4 "Hg

Date	Time	Measurement Point	% CH_4 (*LEL)	% CO_2	% O_2	Comments
3.8.13	0715	Background	0 *	0.0	20.9	
	0740	LC-1	48.0	26.4	0.1	
	0800	LC-2	63.0	35.8	0.1	
	0750	LC-3	53.0	33.0	0.0	
	0730	GV-6	34.5	22.6	0.1	
	0718	GP-1	0 *	0.0	19.0	
	0820	GP-1	0 *	0.0	20.0	2nd Reading.
	0720	Exhaust	–	–	–	no reading



TETRA TECH GEO

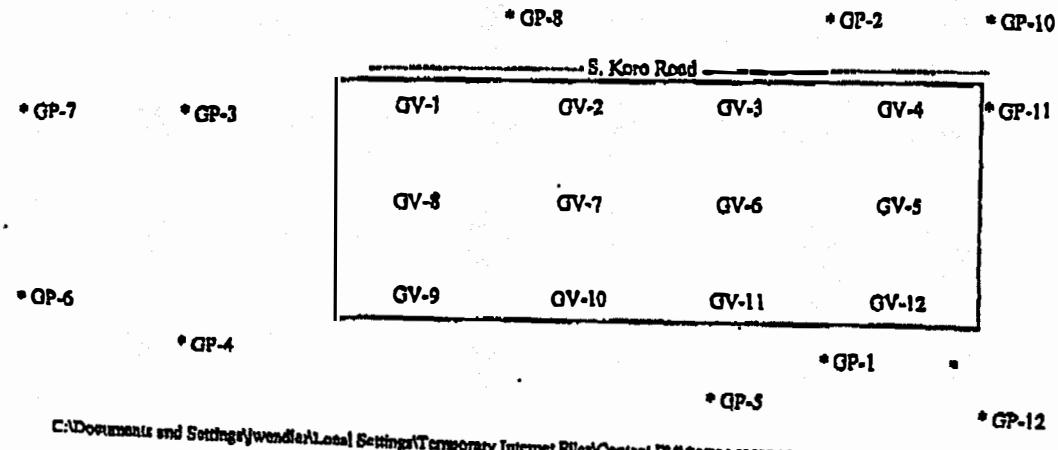
GAS PROBE DATA MONITORING POINTS

Project: FF/NN Landfill
Location: Ripon, Wisconsin
Personnel: Jackie Andrews
Water level in buried knockout tank _____"

Barometric Pressure: 29.1 Hg
Temperature (ambient): 8 F
Measuring Device: Eagle 3
In Trailer Vacuum Gage 3 "Hg

Date	Time	Measurement Point	% CH_4	% CO_2	% O_2	Comments
3-22-13	0830	Background	0*	0.0	20.9	
	0855	LC-1	50.5	26.0	0.1	
	0915	LC-2	56.0	34.4	0.6	
	0908	LC-3	54.5	33.6	0.1	
	0850	GV-6	41.5	22.2	0.0	
	0835	GP-1	0*	1.4	17.8	1st Reading
	0950		0*	~~0.8~~	~~19.3~~	2nd Reading
				0.8	19.3	
	0840	Exhaust	→			
				The readings		

* LEL



TETRA TECH GEO

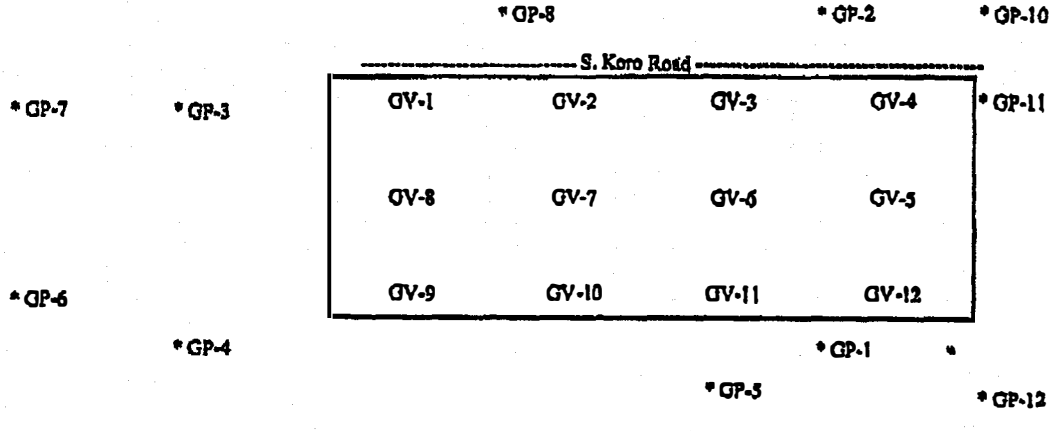
GAS PROBE DATA MONITORING POINTS

Project: FF/NN Landfill
Location: Ripon, Wisconsin
Personnel: Jack Wendler
Water level in buried knockout tank _____"

Barometric Pressure: 28.8 Hg
Temperature (ambient): _____ F
Measuring Device: Eagle
In Trailer Vacuum Gage 0.3 "Hg

% LEL

Date	Time	Measurement Point	% CH_4	% CO_2	% O_2	Comments
4-8-13	1330	Background	0	0.0	20.9	
		~~LC-1~~	~~0~~	~~0.0~~	~~20.9~~	~~No Reading~~
	1410	LC-2	52.0	29.0	0.5	
	1355	LC-3	30.0	23.4	4.1	
	1400	LC-1	32.0	24.8	0.3	
	1350	GV-6	10.5	15.6	4.3	
	1335	GP-1	0	0.2	20.9	1st Reading
	1439	GP-1	0	0.0	19.8	2nd Reading
	1340	Exhaust	6.0	5.8	15.7	



TETRA TECH GEO

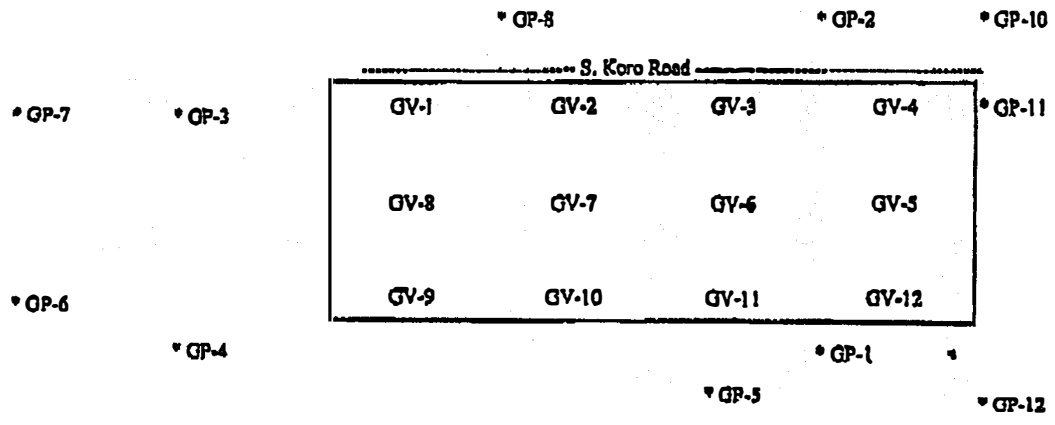
GAS PROBE DATA MONITORING POINTS

Project: FF/NN Landfill
Location: Ripon, Wisconsin
Personnel: Jack Wendler
Water level in buried knockout tank _____"

Barometric Pressure: 29.2 Hg
Temperature (ambient): 62 F
Measuring Device: Eagle 3
In Trailer Vacuum Gage _____ "Hg

LEL #

Date	Time	Measurement Point	% CH_4	% CO_2	% O_2	Comments
4-22-13	1500	Background	0.0 *	0.0	20.9	
	1520	LC-1	12.0	21.6	0.4	
	1530	LC-2	49.5	29.4	0.5	
	1545	LC-3	21.5	4.0	3.9	
	1515	GV-6	14.0	19.0	1.2	
	1505	GP-1	0 *	0.0	20.0	
	1600	GP-1	0 *	0.0	20.0	2nd Reading
	1510	Exhaust	6.5	7.2	14.9	



GeoTrans, Inc.

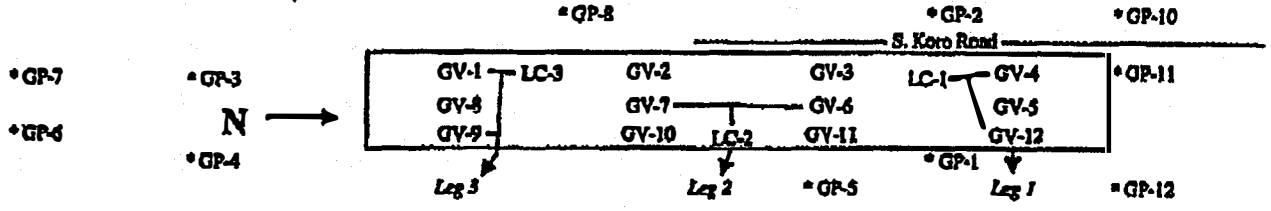
GAS PROBE DATA

Project: FF/NN Landfill
Location: Ripon, Wisconsin
Personnel: Jack Wandler

Barometric Pressure: 28.9 Hg
Temperature (ambient): 64 F
Measuring Device: Sagle

* LEL

Date	Time	Measurement Point	% CH_4	% CO_2	% O_2	Comments
4.29.13	0736	Background	0 *	0.0	20.9	
	0939	LC-1	11.0	20.4	0.1	
	0950	LC-2	43.0	27.6	0.5	
	0944	LC-3	18.5	19.6	4.1	
	0739	MW-101	0 *	0.4	20.9	
	1005	MW-102	0 *	0.6	19.2	
	0803	MW-103	0 *	0.0	20.9	
	1000	MW-104	0 *	9.4	6.8	
		~~GV-1~~				
		~~GV-4~~				
	0935	GV-6	85 *	13.2	5.0	
		~~GV-7~~				
		~~GV-9~~				
	1045	~~GV-12~~ GP-1	0 *	0.2	20.9	2nd Reading
	0930	GP-1	0 *	0.2	20.9	1st Reading
	0745	GP-2	0 *	1.0	20.4	
	1300	GP-3	0	1.2	19.3	
	0806	GP-4	0 *	2.2	18.7	
	1008	GP-5	0 *	7.0	16.4	
	0758	GP-6	0 *	2.4	17.8	
	0755	GP-7	0 *	3.2	16.2	
	0749	GP-8	0 *	3.6	15.3	
	0743	GP-10	0 *	3.0	17.1	
	0735	GP-11	0 *	2.6	17.4	
	0812	GP-12	0 *	3.2	16.0	
	1012	Leg 1	10.5	19.2	1.4	
	1011	Leg 2	12.5	16.2	3.9	
	1010	Leg3	18.5	19.9	4.2	
	0935	Exhaust	69 *	4.0	16.3	



ATTACHMENT E

GROUNDWATER MONITORING PROGRAM APPROVAL, APRIL 18, 2013

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
101 S. Webster Street
Box 7921
Madison WI 53707-7921

Scott Walker, Governor
Cathy Stepp, Secretary
Telephone 608-266-2621
FAX 608-267-3579
TTY Access via relay - 711

April 18, 2013

Nelson Olavarria (Representative for the Ripon FF/NN Landfill Potentially Responsible Party (PRP) Group)
Cooper Industries
600 Travis Street, #5600
Houston, TX. 77210

SUBJECT: Conditional Approval of Revised Groundwater Monitoring Program for the Ripon HWY FF/NN Landfill
Ripon HWY FF/NN Landfill
License #467, Ripon, WI
WDNR BRRTS #02-20-000915

Dear Mr. Olavarria:

The Department and US EPA have completed the review of your request for revisions to the approved groundwater monitoring program, prepared for you by Tetra Tech Inc., received on March 21, 2013 as part of the Status Report and January, 2013 Sampling Event submittal. The Department is approving the revisions subject to the following condition.

The revised monitoring plan shall follow the attached Department revised monitoring schedule table 8 for wells to be sampled, sample parameters and sampling frequency.

The Department appreciates your efforts to restore the environment at this site. Should you have any questions regarding this letter, please call me at (608)267-7563 or email me at gary.edelstein@wisconsin.gov. Thank you for your cooperation.

Sincerely,

Gary A. Edelstein, P.E.
Waste Management Engineer
Remediation & Redevelopment Program

Attach.

cc: Kevin McKnight, DNR - ecopy
Bernard Schorle, EPA – ecopy - schorle.bernard@epa.gov
Mike Noel, Tetra Tech – ecopy – Mike.Noel@tetratech.com
Lori Rich, City of Ripon – ecopy – lrich@cityofripon.com

Table 8. Groundwater Monitoring Schedule
FF/NN Landfill, Ripon, WI

DNR

			Current Plan (4/8/11)				Proposed Plan		
Stratigraphic Layer	Sampling Point	Gradient	Water Level	MNA	VOCs	Results	Water Level	MNA	VOCs
Layer 1	MW-101	U	Q		A	ND	A		Drop
Layer 1	MW-102	S	Q		A	ND	A		Drop
Layer 1	MW-103	D	Q	Q	Q	TCE>PALs<ES	SA	SA	SA
Layer 1	MW-104	Within	Q		SA	chlorobenzene <PALs	A		A
Layer 1	MW-106	S	Q		A	ND	A		Drop
Layer 1	MW-107	D	Q		SA	ND	A		A
Layer 1	MW-108	S	Q		A	ND	A		Drop
Layer 1	MW-111	D	Q		A	ND	A		Drop
Layer 1	MW-112	D	Q	Q	Q	VC ND past 6 events	SA	SA	SA
Layer 2	P-101	U	Q		A	ND	A		Drop
Layer 2	P-102	S	Q		A	ND	A		Drop
Layer 2	P-103	D	Q	Q	Q	VC ND past 3 events	SA	SA	SA
Layer 2	P-104	Beneath	Q		A	ND	A		Drop
Layer 2	P-106	S	Q		A	ND	A		A
Layer 2	P-107	D	Q		SA	VC ND last event	A		A
Layer 2	P-108	S	Q		A	ND	A		Drop
Layer 2	P-111	D	Q		A	ND	A		Drop
Layer 3	MW-3B	D	Q	Q	Q	ND	Q	Q	Q
Layer 3	P-103D	D	Q	Q	Q	VC ND past 3 events	Q	Q	Q
Layer 3	P-111D	D	Q	Q	Q	VC>ES	Q	Q	Q
Layer 3	P-113B	D	Q	Q	Q	ND	Q	Q	Q
Layer 3	P-114	D	Q	Q	Q	VC>ES	Q	Q	Q
Layer 3	P-115	D	Q	Q	Q	VC>ES	Q	Q	Q
Layer 3	P-116	D	Q	Q	Q	ND	Q	Q	Q
Layer 4	MW-3A	D	Q	Q	Q	ND	Q	Q	Q
Layer 4	P-107D	D	Q	Q	Q	VC>ES	Q	Q	Q
Layer 4	P-113A	D	Q	Q	Q	ND	Q	Q	Q
Private Wells	Baneck	D			A				A
Private Wells	Gaastra	D			A				A
Private Wells	Rohde	D			A				A
Landfill	Leachate LH-1	Within	A		A		A		A
Landfill	Leachate LH-2	Within	A		A		A		A
Landfill	Leachate LH-3	Within	A		A		A		A
Landfill	Gas VOCs LH-1	Within			Q				A
Landfill	Gas VOCs LH-2	Within			Q				A
Landfill	Gas VOCs LH-3	Within			Q				A
Landfill	Gas VOCs GV-6	Within			Q				A
Landfill	Gas VOCs GP-3	D			Q				A
Landfill	Cap Inspection On Landfill	On Landfill			A				A

Q = Quarterly (Jan, Jul, Oct); A = Annual (Apr) SA = Semi-Annual