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STATUS REPORT FOR OCTOBER 2010 SAMPLING EVENT
FF/NN LANDFILL
RIPON, WISCONSIN

January 7, 2011

Prepared For:

FF/NN Landfill PRP Group

Prepared By:

GeoTrans, Inc.
175 N. Corporate Drive, Suite 100
Brookfield, Wisconsin 53045

Project No. 117-2202.040

Michael R. Noel, P.G.
Vice-President, Principal Hydrogeologist

Kevin F. Lincicum, P.G.
Senior Project Hydrogeologist

STATUS REPORT FOR OCTOBER 2010 SAMPLING EVENT

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CONTRACT SF-92-01

STATUS REPORT FOR OCTOBER 2010 SAMPLING EVENT

SITE NAME/ACTIVITY:

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

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

PREPARED BY:

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PREPARED FOR:

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Mr. Bernard Schorle
U S Environmental Protection Agency
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DATE:

January 7, 2011

FIELD ACTIVITIES THIS REPORTING PERIOD

- Groundwater elevations were measured at 27 monitoring wells in September 2010. Water levels in Layer 4 wells were measured consecutively to avoid any effects from municipal pumping.

- A total of 18 monitoring wells and three private drinking wells were sampled for VOCs during the October 2010 event. Two duplicate samples were collected for quality control. The revised groundwater monitoring program that was agreed upon in a February 2010 meeting between the WDNR and the FF/NN Landfill PRP Group was followed for this sampling event.

- Landfill gas monitoring in the gas probes and monitoring wells was conducted on September 28 by Jack Wendler from the City of Ripon. Jack Wendler has conducted periodic gas monitoring of the extraction system vents and wells. Gas samples for VOC analysis were taken on October 12, 2010 by Jack Wendler.

RESULTS OF FIELD ACTIVITIES

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 October 2010 sampling event, groundwater elevations were measured in all 27 monitoring wells by Jack Wendler from the City of Ripon in September. These elevations are provided in Table 1 and shown on Figures 1 through 4. Each layer is discussed separately below.

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 previous event in May 2010, the water levels have increased in five wells and decreased in the remaining four. The water table elevation tended to increase in the down gradient wells from 0.11 feet (MW-112) to 0.26 feet (MW-107) and increase in the up gradient wells from 0.11 (MW-102) feet to 0.14 feet (MW-101).

Historically, the groundwater flow direction in this layer has been to the southwest. During the October 2010 event, the groundwater flow was to the southwest.

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 previous event in May 2010, the water levels have increased in five wells and decreased in the remaining three. The water table elevation tended to increase in the down gradient wells from 0.13 feet (P-108) to 0.27 feet (P-111) and increase in the up gradient wells from 0.9 (P-102) feet to 0.15 feet (P-103).

Historically, the groundwater flow direction in this layer has been to the southwest. During the October 2010 event, flow was to the south-southwest.

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. From May 2010 to October 2010, water elevations decreased in all seven wells an average of 0.24 feet. The decreases ranged from 0.08 feet in P-115 to 0.41 feet in MW-3B.

Historically, the groundwater flow direction in this layer has been southwesterly and becomes westerly further downgradient. The October 2010 groundwater flow direction is consistent with the historical results.

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. Water elevations decreased in all three wells. The average decrease was 0.9 feet from May 2010 to October 2010. The decreases ranged from 0.83 feet in P-107D to 1.01 feet in MW-3A.

When pumping at the City of Ripon Municipal Well # 9 was terminated in May 2007, the flow direction shifted from the southeast to the west. The City brought Well # 9 back on line in April 2010 but the groundwater flow direction continues to be toward the west . The decreased water levels are believed to be a result of pumping Municipal Well # 9.

Groundwater Monitoring Event - Monitoring Well Sampling

The revised groundwater monitoring program that was agreed upon in a February 2010 meeting between the WDNR and the FF/NN Landfill PRP Group 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 October 2010 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, nitrate and sulfate were measured in the field using CHEMetrics analyte specific Vacu-vials® for photometric analysis using a CHEMetrics Model V-2000 LED photometer. For dissolved methane, groundwater samples were collected and submitted to Pace Analytical Laboratories for analysis using EPA 8015B Modified method.

Following is a summary of the October 2010 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.

Layer 1 Wells

MW-101 No detection of any VOC.

MW-103 No compounds exceeded NR 140 Enforcement Standards (ES). Vinyl chloride (VC) has not been detected since May 2007. Trichloroethene (TCE) exceeded its preventative action limit (PAL) with a concentration of 2.4 ppb. Cis-1,2-dichloroethene (DCE) was detected below NR 140 standards.

MW-107 No detection of any VOC. The last detection of TCE was October 2007.

MW-111 No detection of any VOC.

Layer 2 Wells

P-101 No detection of any VOC.

P-103 No detection of any VOC. VC was last detected in May 2008.

P-107 No detection of any VOC.

P-111 No detection of any VOC.

Layer 3 Wells

MW-3B No detection of any VOC.

P-103D No detection of any VOC. VC was last detected in October 2008.

P-111D VC exceeded its ES at 4.7 ppb (4.7 ppb dup). The concentrations of VC have been stable since the May 2008 sampling round. DCE and chloroethane were detected at concentrations below NR 140 standards. Methylene chloride was detected at 1.2 ppb in the duplicate sample but is believed to be a lab artifact since it was not detected in the original sample.

P-113B No detection of any VOC.

P-114 VC exceeded its ES at 5.4 ppb (5.4 ppb duplicate). This concentration shows a stable to slightly decreasing trend that has been occurring since the February 2007 round of sampling. DCE was detected at a concentration below NR 140 standards.

P-115 VC exceeded its ES at 1.2 ppb. Vinyl chloride has been detected intermittently at this well since October 2004.

P-116 No detection of any VOC.

Layer 4 Wells

MW-3A No detection of any VOC.

P-107D VC exceeded its ES at 1.6 ppb. This concentration is 60 percent lower than the last sampling round (4.0 ppb) in May 2010 and is similar to recent results.

P-113A No detection of any VOC.

Natural Attenuation Parameters

Because VC is the sole remaining contaminant of concern 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 and methane were taken as indirect evidence of natural attenuation. Sulfate and nitrate were analyzed at the request of the WDNR. The results of the MNA sampling are shown on Table 3 and continue to indicate that the aquifer is marginally aerobic.

Groundwater Monitoring Event - Private Drinking Water 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 (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). In addition to VOC analysis, the samples were also analyzed for natural attenuation parameters including iron II, methane, nitrite and sulfide. Sulfate and nitrate were analyzed at the request of the WDNR. 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 3. No VOCs were detected in the private wells during this sampling event. VC has never been detected in any of these wells since sampling first began in 2001.

Interim Landfill Gas Extraction System Performance Monitoring

Results of the gas monitoring are in presented in Tables 3 and 4 and Charts 1-26.

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 was one modification to the system during this monitoring period. The run time of the gas extraction system was lengthened to 12 hours because methane gas concentrations were above the LEL in gas probe GP-1. The run time was extended from 8 hours to 12 hours on October 6, 2010. After this modification, the methane levels decreased in GP-1.

Gas samples for VOC analysis were collected on October 12, 2010. The results are summarized on Table 6 and the lab report is included in Attachment B. The samples from this period show no detectable vinyl chloride in any well. The historical data shows that VOCs have been significantly reduced since startup of the extraction system. Prior to start-up 13 monitoring wells had detects of VC and now only 4 wells have detections of VC.

Monitoring of the gas probes and wells outside the limits of fill indicates that the gas extraction system has controlled gas migration from the fill area since startup in March 2006. Gas concentrations in all exterior wells and gas probes except at GP-1 have been consistently below

the methane LEL during this period. The methane concentration in GP-1 has been lowered below the LEL with increased operation of the gas extraction system.

UPCOMING ACTIVITIES PLANNED

Quarterly groundwater sampling, private water well sampling, water level measurements and landfill gas extraction point sampling will be conducted in January 2011.

Landfill gas monitoring will be conducted periodically by Jack Wendler from the City of Ripon.

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

A Five-Year Review Report will be prepared and submitted to WDNR.

Finalization of the Institutional Control Plan submitted November 30, 2010 pending receipt of comments from WDNR and EPA.

PERSONNEL

Mr. Michael Noel is the Project Manager and Principal Hydrogeologist. Mr. Kevin Lincicum is the Project Hydrogeologist who oversaw the field activities. The laboratory analyses for May 2010 groundwater samples were completed by Pace Analytical Services, Inc. in Green Bay, Wisconsin. The drinking water well samples were submitted to Pace Analytical Services, Inc. in Green Bay and were analyzed by Northern Lake Service, Inc. located in Crandon, Wisconsin. The laboratory analyses for the air samples was completed by Pace Analytical Services, Inc. located in Minneapolis, Minnesota.

FIGURES

BANECK
GAASTRA
P-116
(HADEL)
CHARLES STREET
BICYCLE PATH
P-113A
P-113B
P-114
(EHSTER)
P-115
(WIESE)
MILLER
(abandoned)
ALTNAU (abandoned)
SOUTH KORO ROAD
ROHDE
MW-3A
MW-3B

LAYER 1
DIRECTION
OF FLOW

818
819
820
821
822
823

P-111
P-111D
MW-111
(818.30)

(818.39)
MW-108
P-108

(820.24)
MW-112

P-104
MW-104
(823.12)

P-107D
P-107
MW-107
(819.85)

P-103D
P-103
MW-103
(821.32)

P-102
MW-102
(823.66)

P-106
MW-106
(823.60)

P-101
MW-101
(823.29)

GP-1
GP-2
GP-3
GP-4
GP-5
GP-6
GP-7
GP-8
GP-10
GP-11
GP-12

GV-1
GV-2
GV-3
GV-4
GV-5
GV-6
GV-7
GV-8
GV-9
GV-10
GV-11
GV-12

LC-1
LC-2
LC-3

CTY HWY FF

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
- (823.29) — 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
SEPTEMBER 2010

DATE:	10/12/10
DESIGNED:	HJW
CHECKED:	MRN
APPROVED:	MRN
DRAWN:	HJW
PROJ.:	117-2202040

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Figure 5

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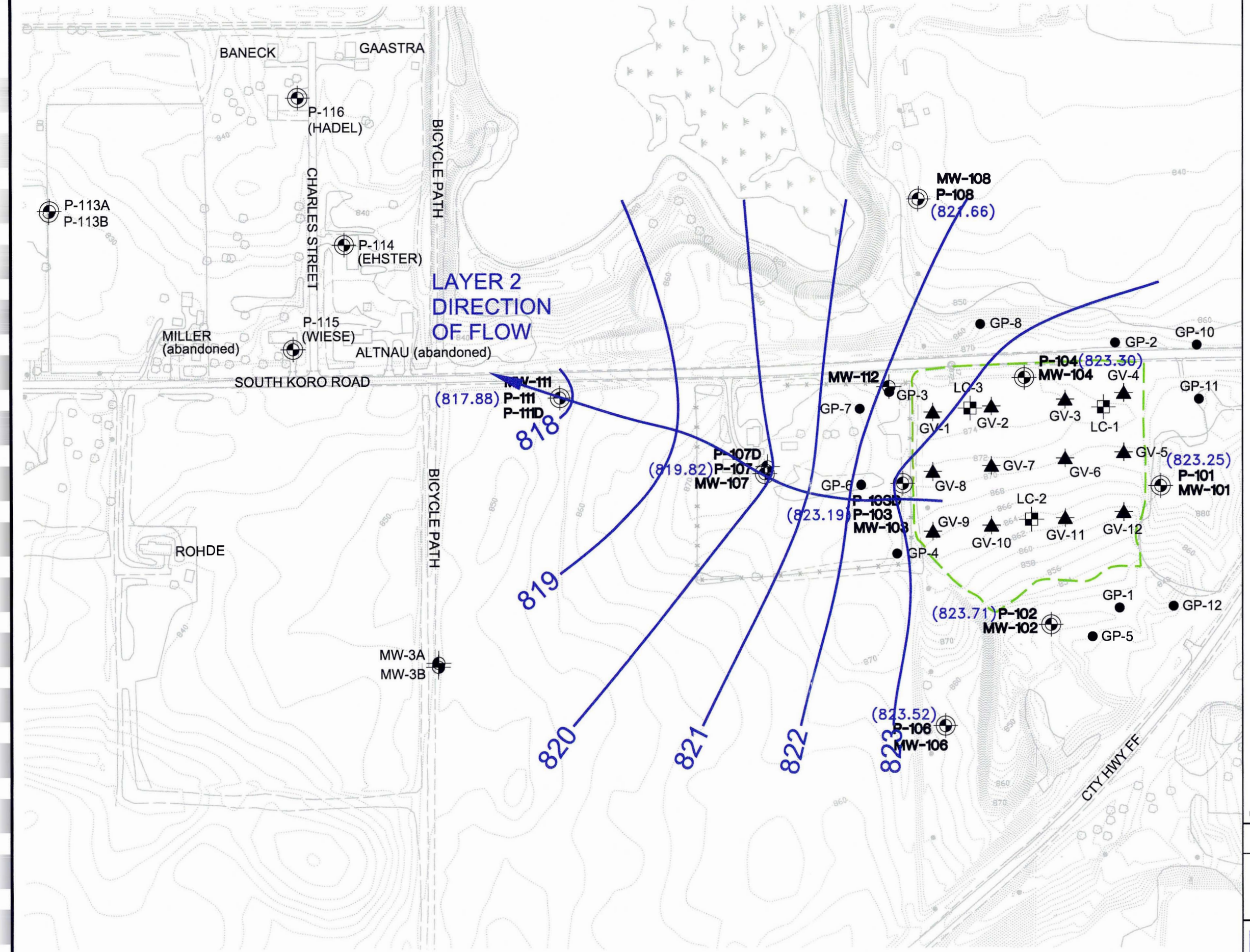

EXPLANATION

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
(823.25)	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 2 WELLS
SEPTEMBER 2010

DATE:	10/12/10
DESIGNED:	HJW
CHECKED:	MRN
APPROVED:	MRN
DRAWN:	HJW
PROJ.:	117-2202040

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Figure 6

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LAYER 3
DIRECTION
OF FLOW

BANECK
GAASTRA
818
(817.85)
P-116
(HADEL)
818.5
P-113A
P-113B
(818.88)
CHARLES STREET
BICYCLE PATH
(819.00)
P-114
(EHSTER)
819
(819.13)
P-115
(WIESE)
MILLER
(abandoned)
ALTNAU (abandoned)
SOUTH KORO ROAD
MW-111
P-111
P-111D
(820.16)
819.5
ROHDE
BICYCLE PATH
820
820.5
MW-3A
MW-3B
(820.59)
821
821.5
822
P-107D
P-107
MW-107
MW-108
P-108
GP-8
GP-2
GP-10
MW-112
GP-3
LC-3
P-104
MW-104
GV-4
GP-11
GP-7
GV-1
GV-2
GV-3
LC-1
GV-5
GV-7
GV-6
P-101
MW-101
GP-6
GV-8
P-103D
(822.35)
P-103
MW-103
LC-2
GV-9
GV-10
GV-11
GV-12
GP-4
GP-1
GP-12
P-102
MW-102
GP-5
P-106
MW-106
CTY HWY FF

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
- (822.35) — 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 3 WELLS
SEPTEMBER 2010

DATE:	10/12/10
DESIGNED:	HJW
CHECKED:	MRN
APPROVED:	MRN
DRAWN:	HJW
PROJ.:	117-2202040

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Figure 7

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BANECK

GAASTRA

P-116
(HADEL)

BICYCLE PATH

LAYER 4
DIRECTION
OF FLOW

(818.24)
P-113A
P-113B

818.3

CHARLES STREET

P-114
(EHSTER)

818.4

MILLER
(abandoned)

P-115
(WIESE)

ALTNAU (abandoned)

818.5

SOUTH KORO ROAD

MW-111
P-111
P-111D

818.6

818.7

ROHDE

BICYCLE PATH

818.8

818.9

(818.91) MW-3A
MW-3B

MW-108
P-108

GP-8

GP-2

GP-10

P-104
MW-104

GP-4

GP-11

MW-112

GP-3

LC-3

GP-7

GV-1

GV-2

GV-3

LC-1

GV-5

(818.85)
P-107D
P-107
MW-107

GP-6

GV-8

GV-7

GV-6

P-101
MW-101

P-103D
P-103
MW-103

LC-2

GV-9

GV-10

GV-11

GV-12

GP-4

GP-1

GP-12

P-102
MW-102

GP-5

P-106
MW-106

CTY HWY FF

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
- (818.85) — GROUNDWATER ELEVATION

N

SCALE

0 500

Feet

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

FF/NN LANDFILL RIPON, WISCONSIN	DATE: 10/12/10 DESIGNED: HJW CHECKED: MRN APPROVED: MRN DRAWN: HJW PROJ.: 117-2202040
GROUNDWATER ELEVATIONS LAYER 4 WELLS SEPTEMBER 2010	
GeoTrans, Inc. A TETRA TECH COMPANY	Figure 8

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CHARTS

Chart 1: Layer 1 Historic Water Level Data

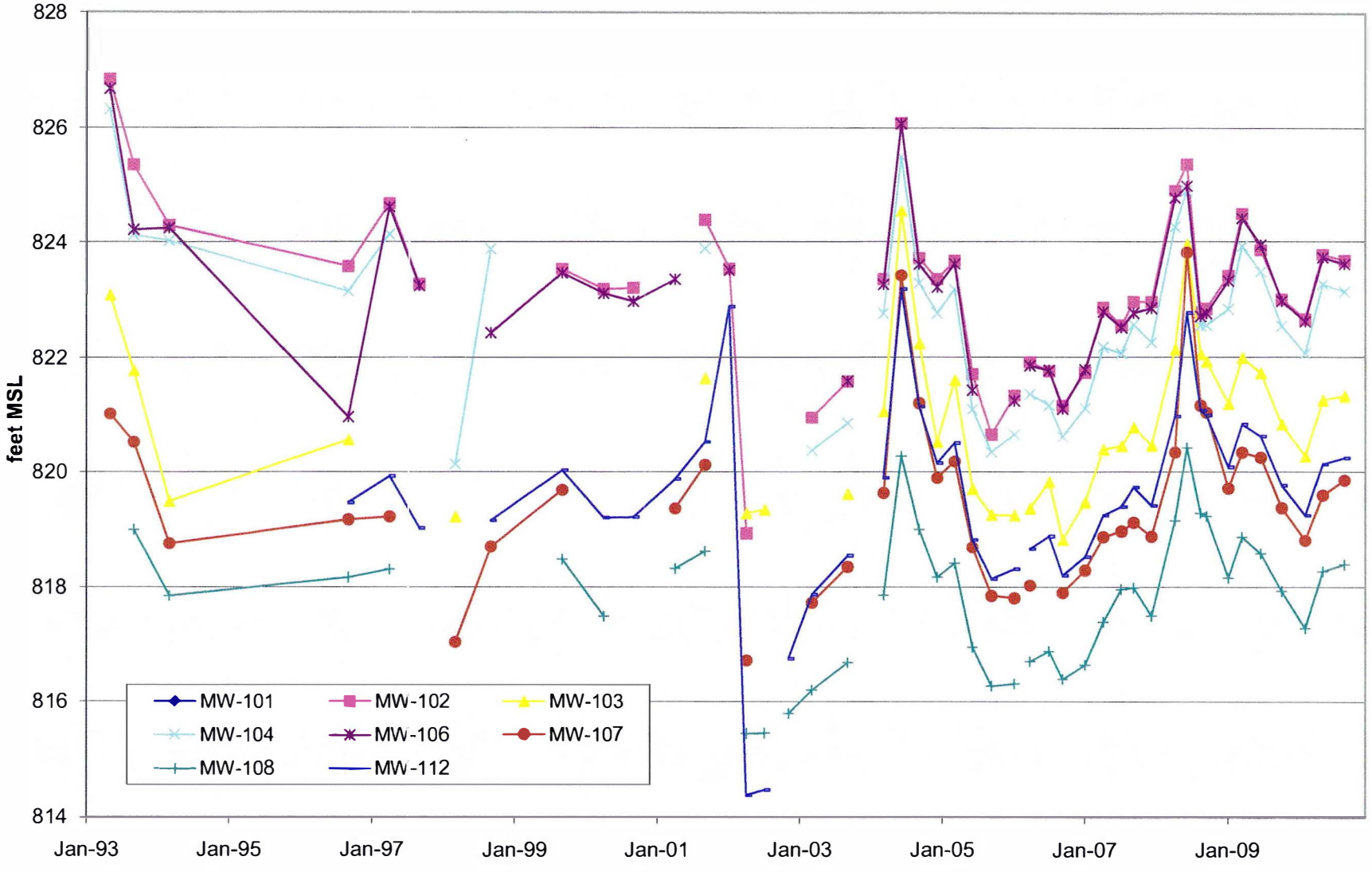

Chart 2: Layer 2 Historic Water Level Data

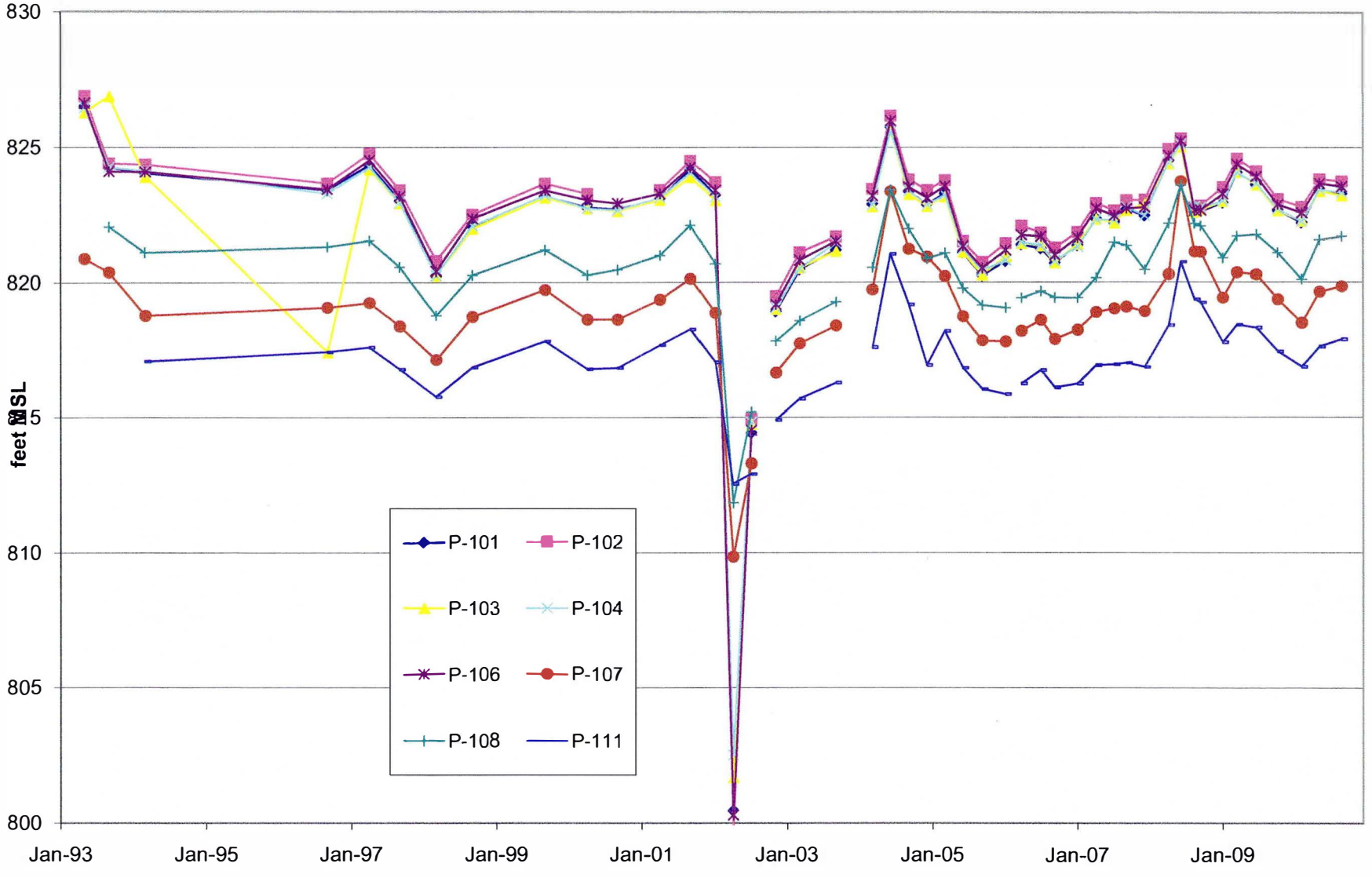

Chart 3: Layer 3 Historic Water Level Data

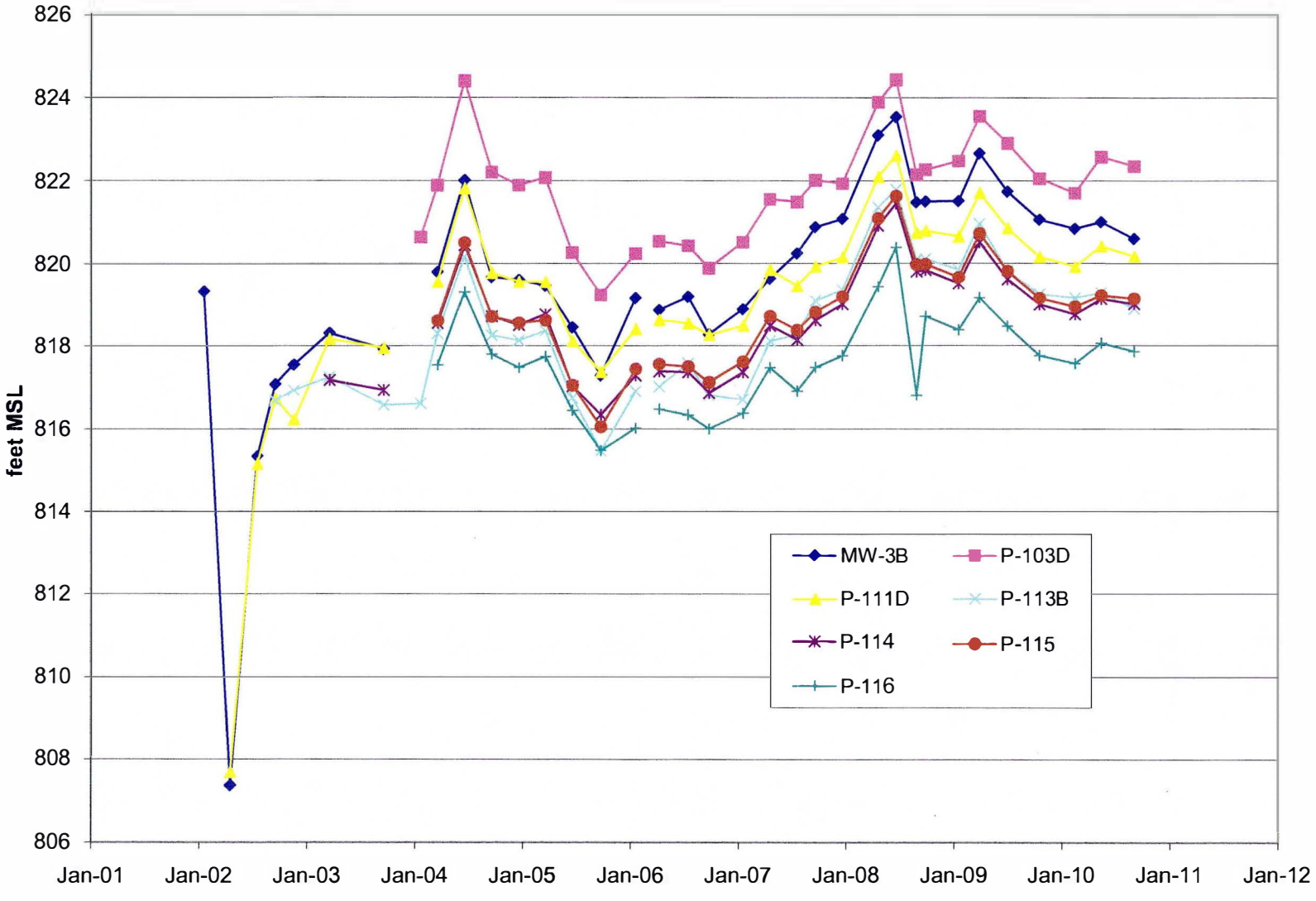

Chart 4: Layer 4 Historic Water Level Data

Chart 5: GV-1 Gas Concentrations

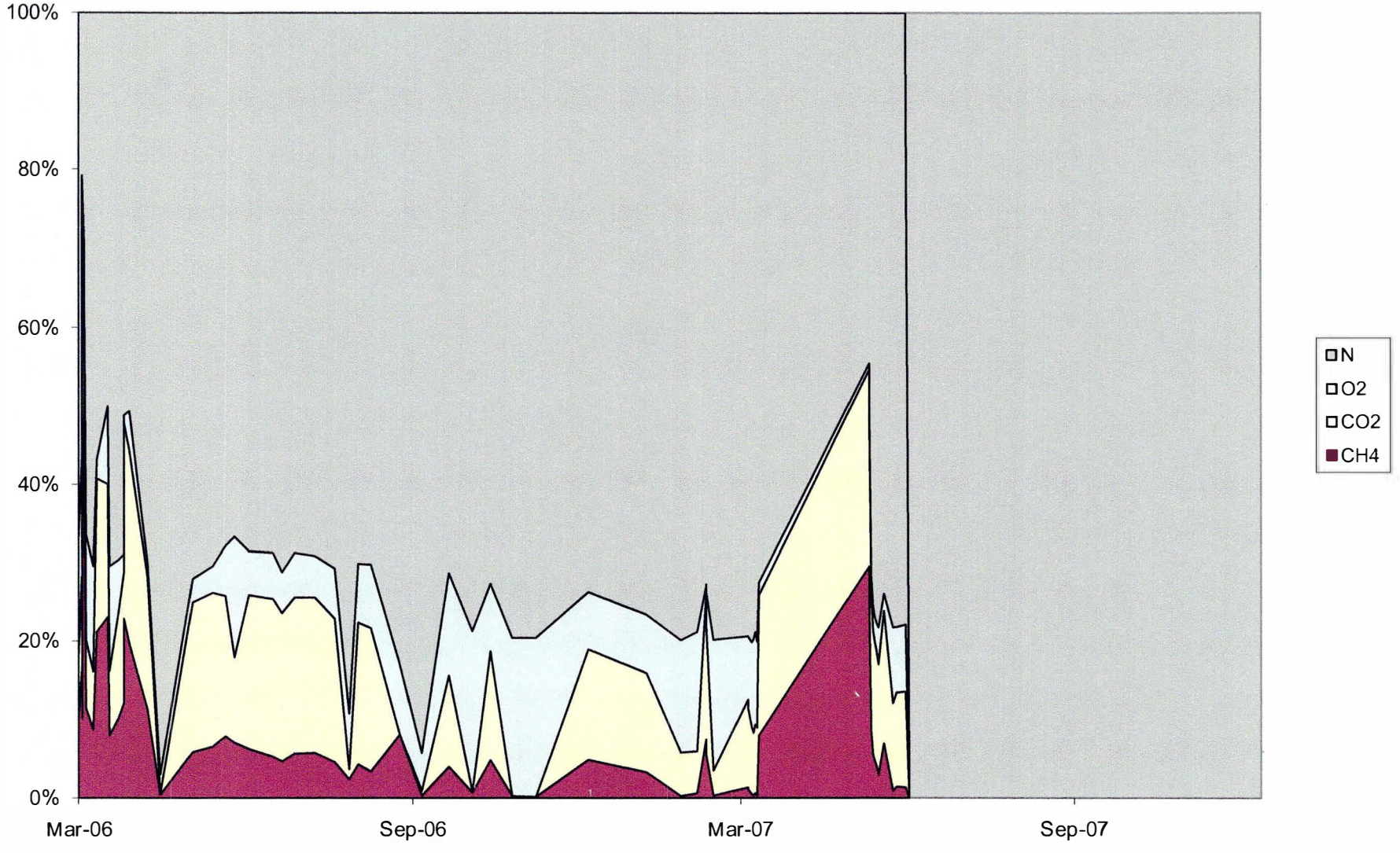

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Chart 6: GV-4 Gas Concentrations

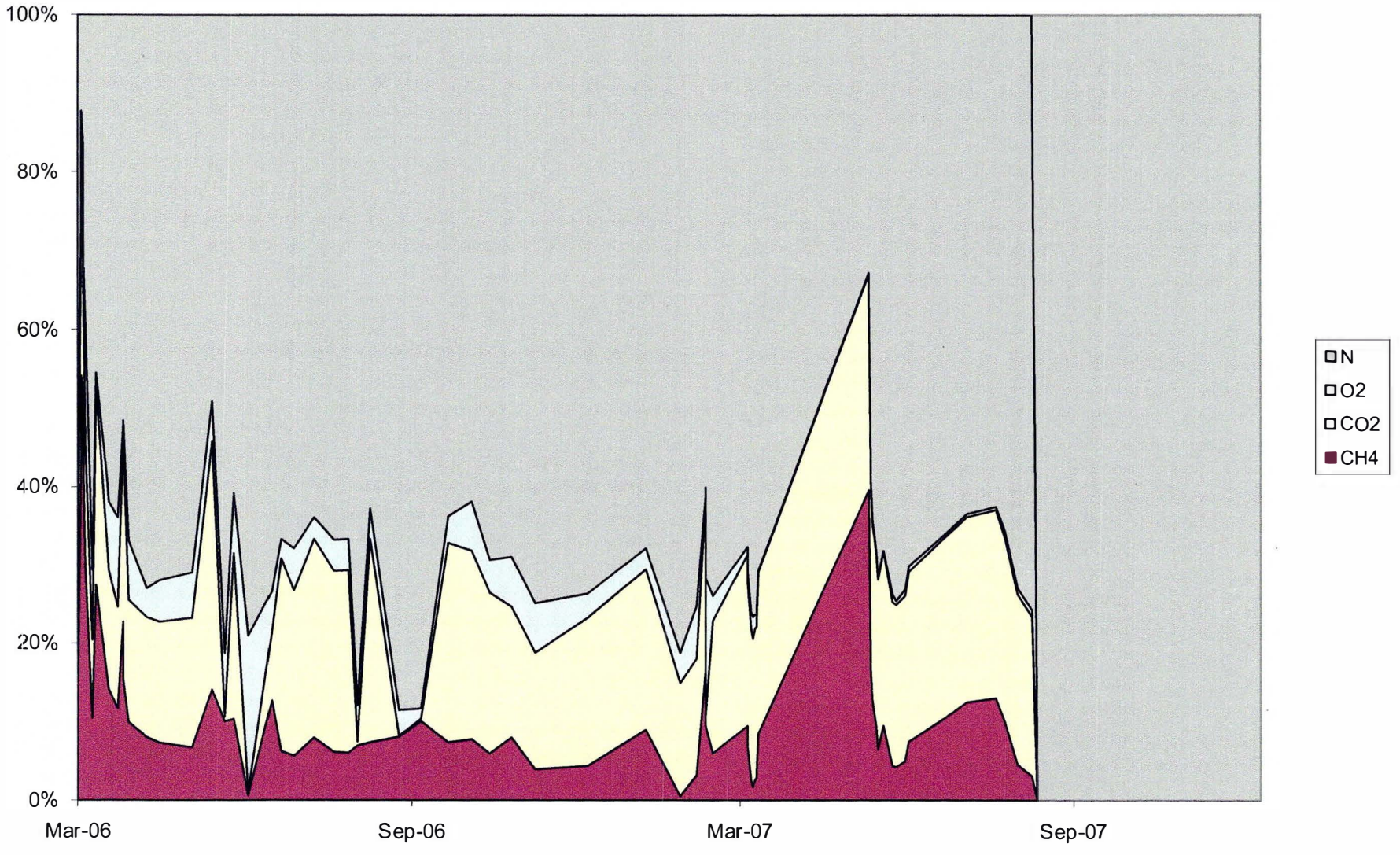

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Chart 7: GV-6 Gas Concentrations

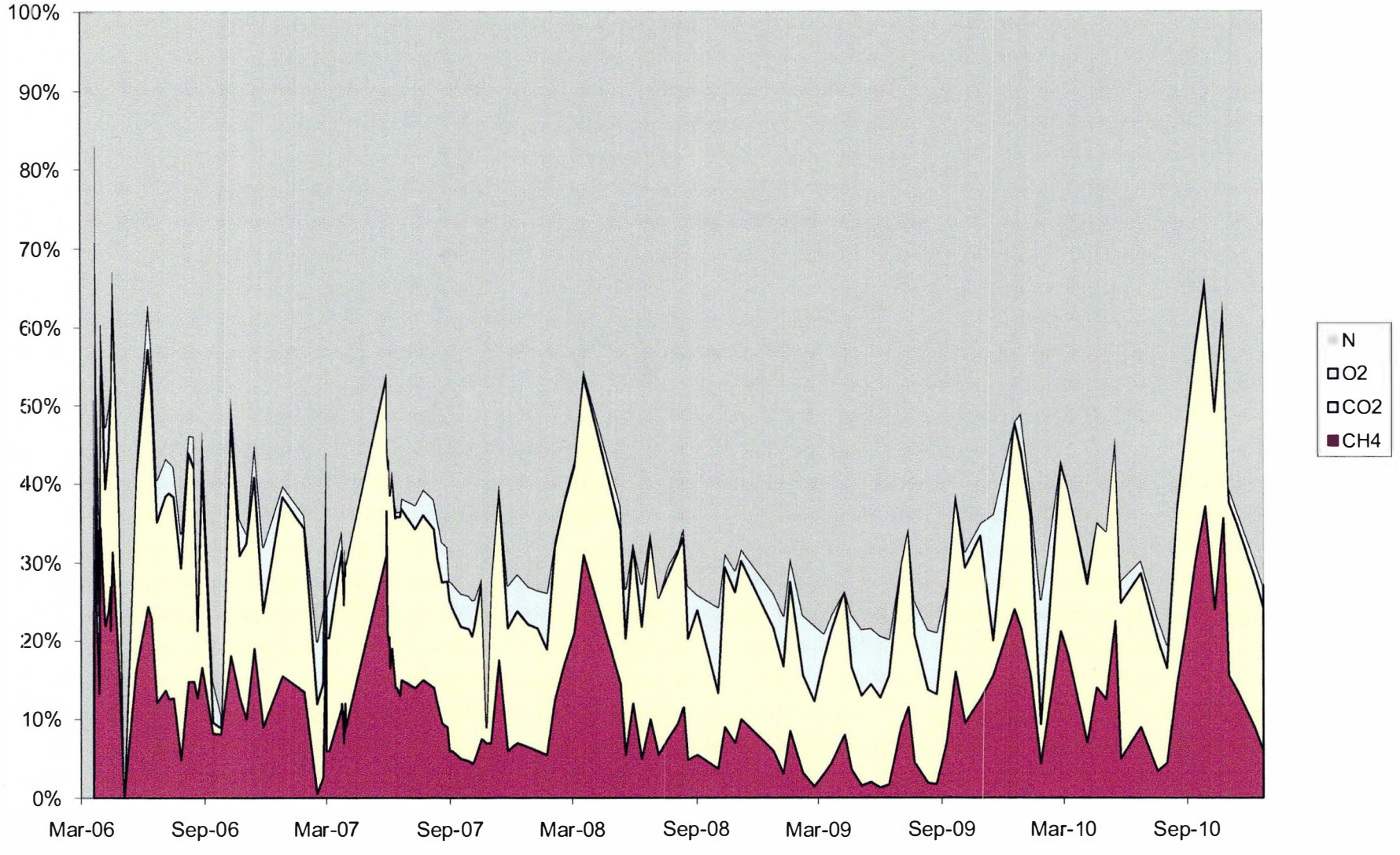

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Chart 8: GV-7 Gas Concentrations

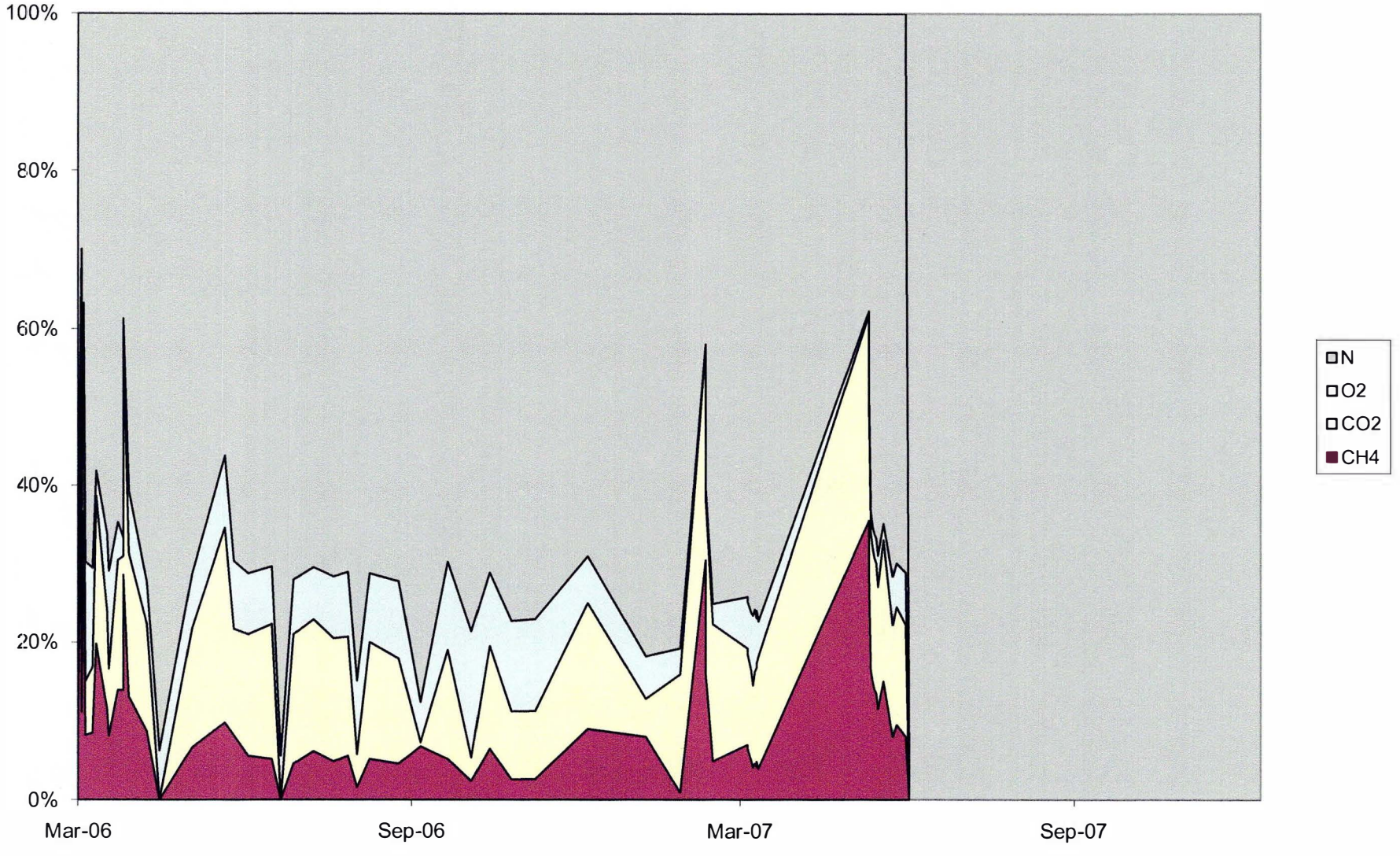

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Chart 9: GV-9 Gas Concentrations

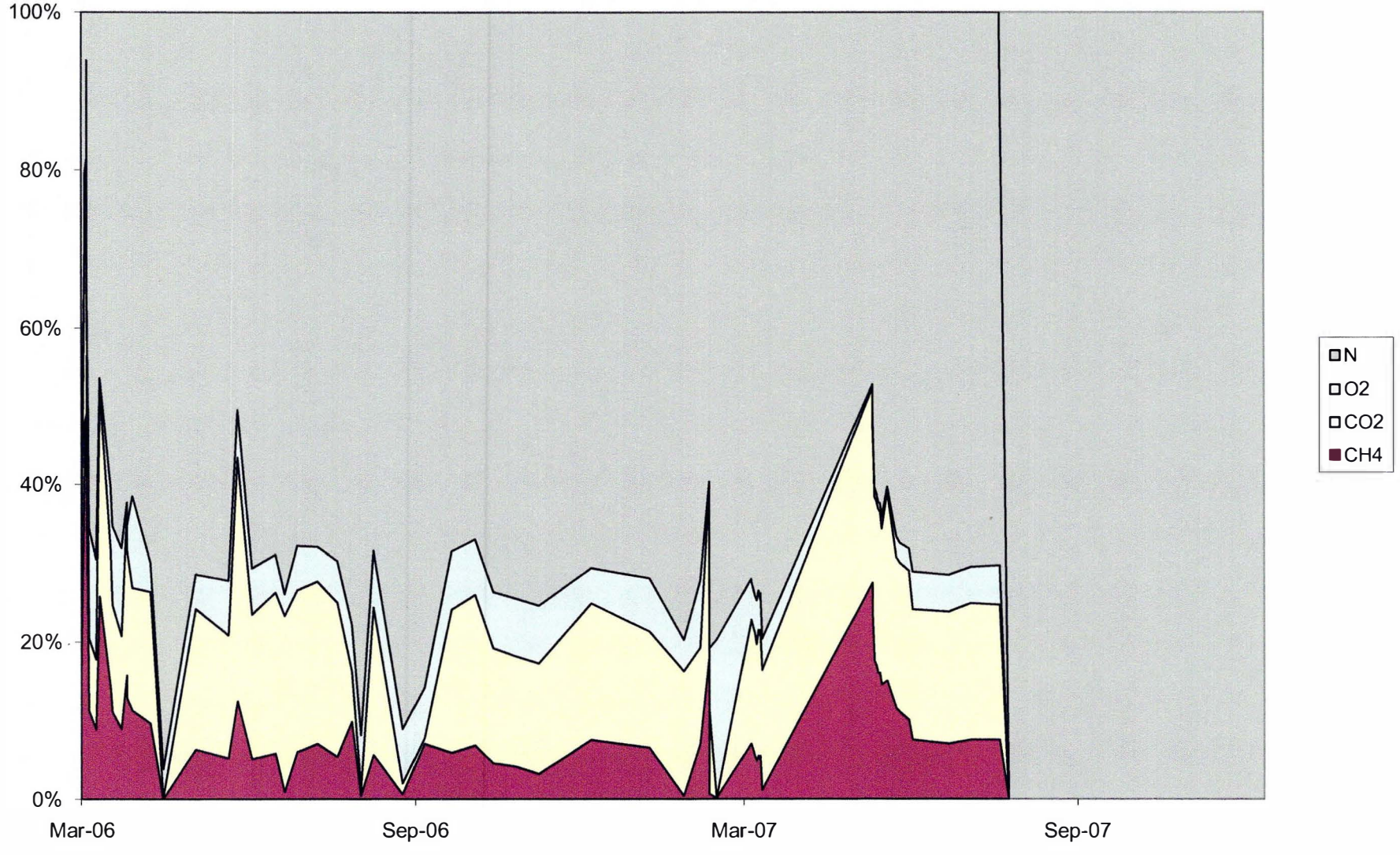

Chart 10: GV-12 Gas Concentrations

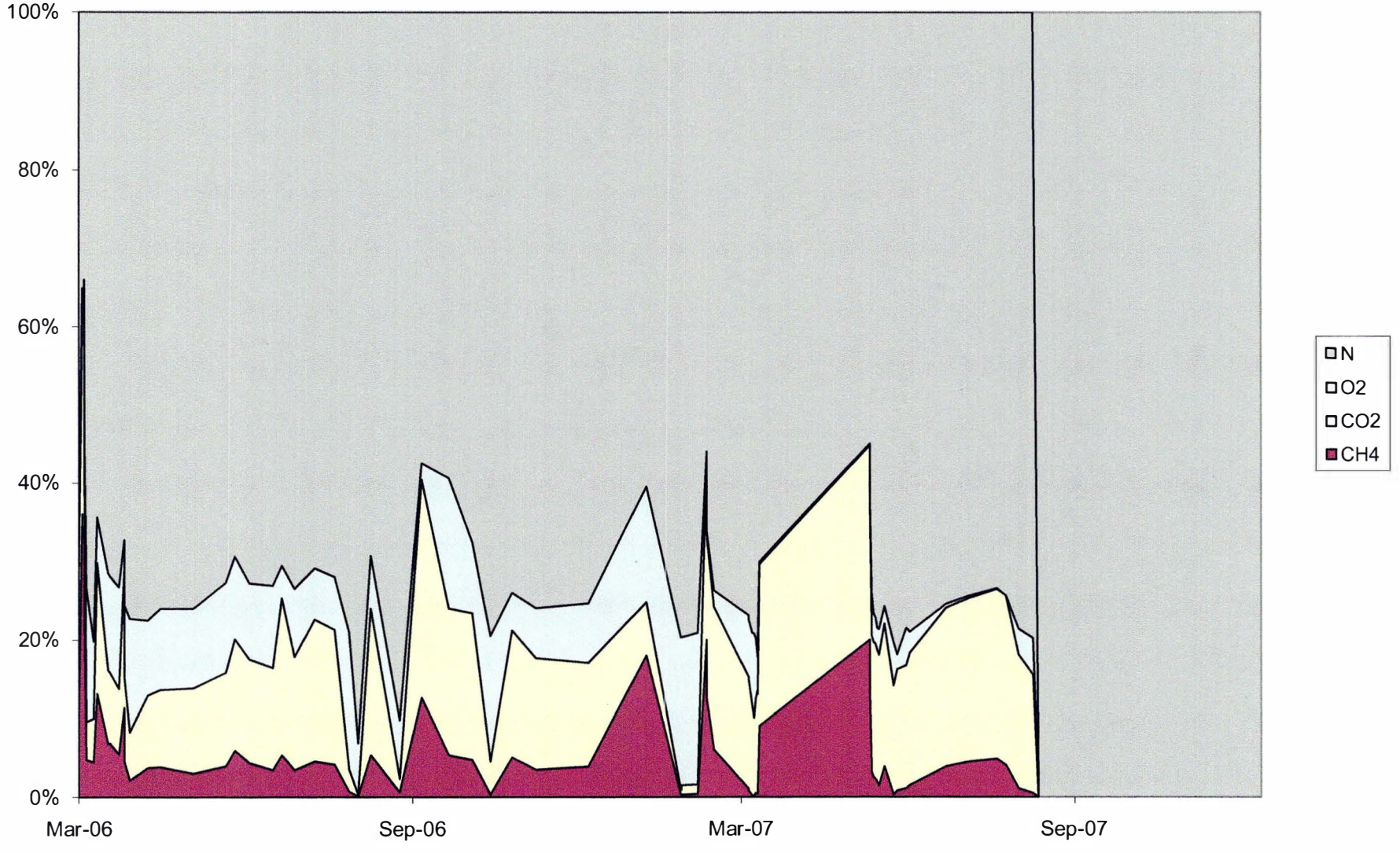

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Chart 11: LC-1 Gas Concentrations

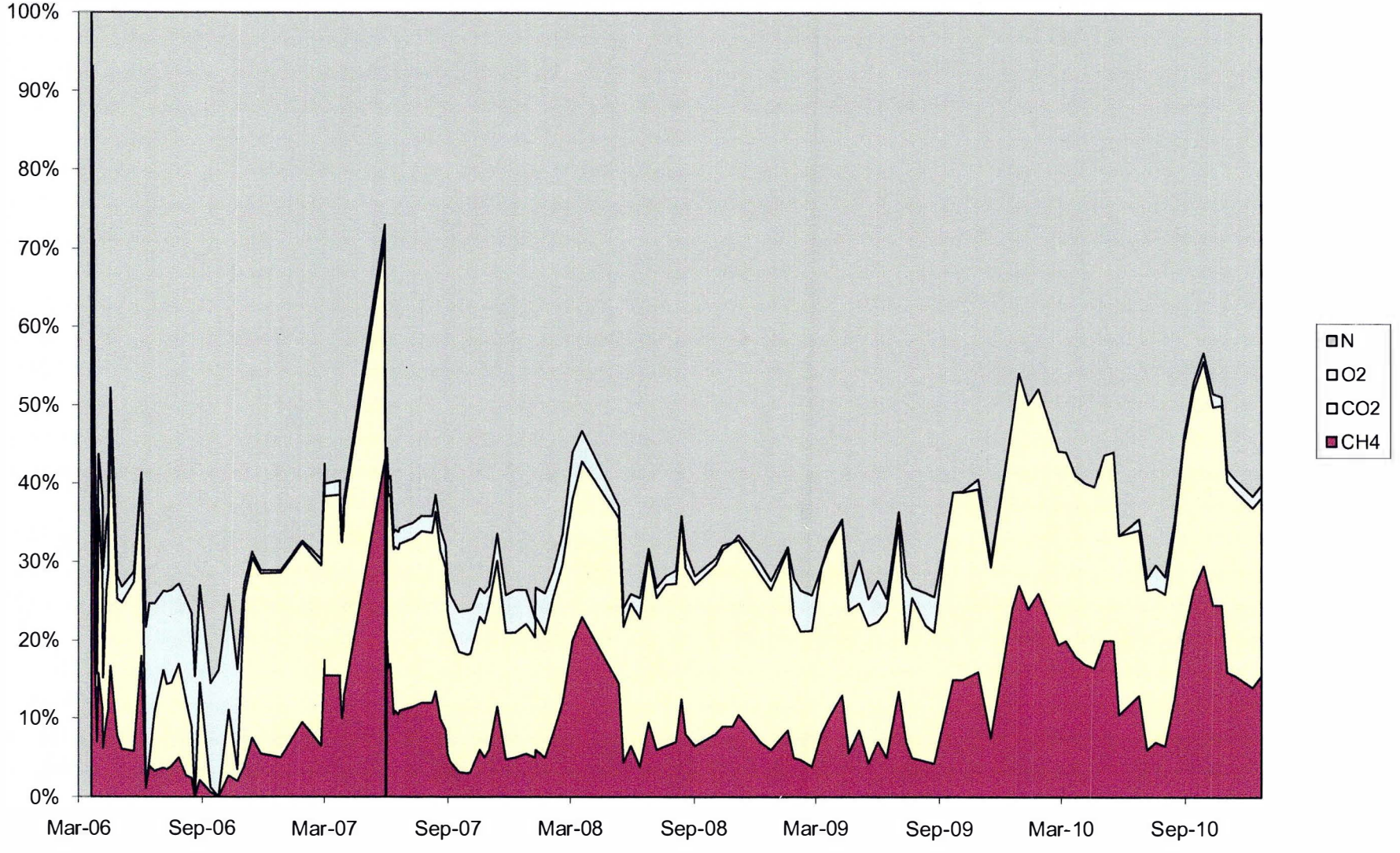

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Chart 12: LC-2 Gas Concentrations

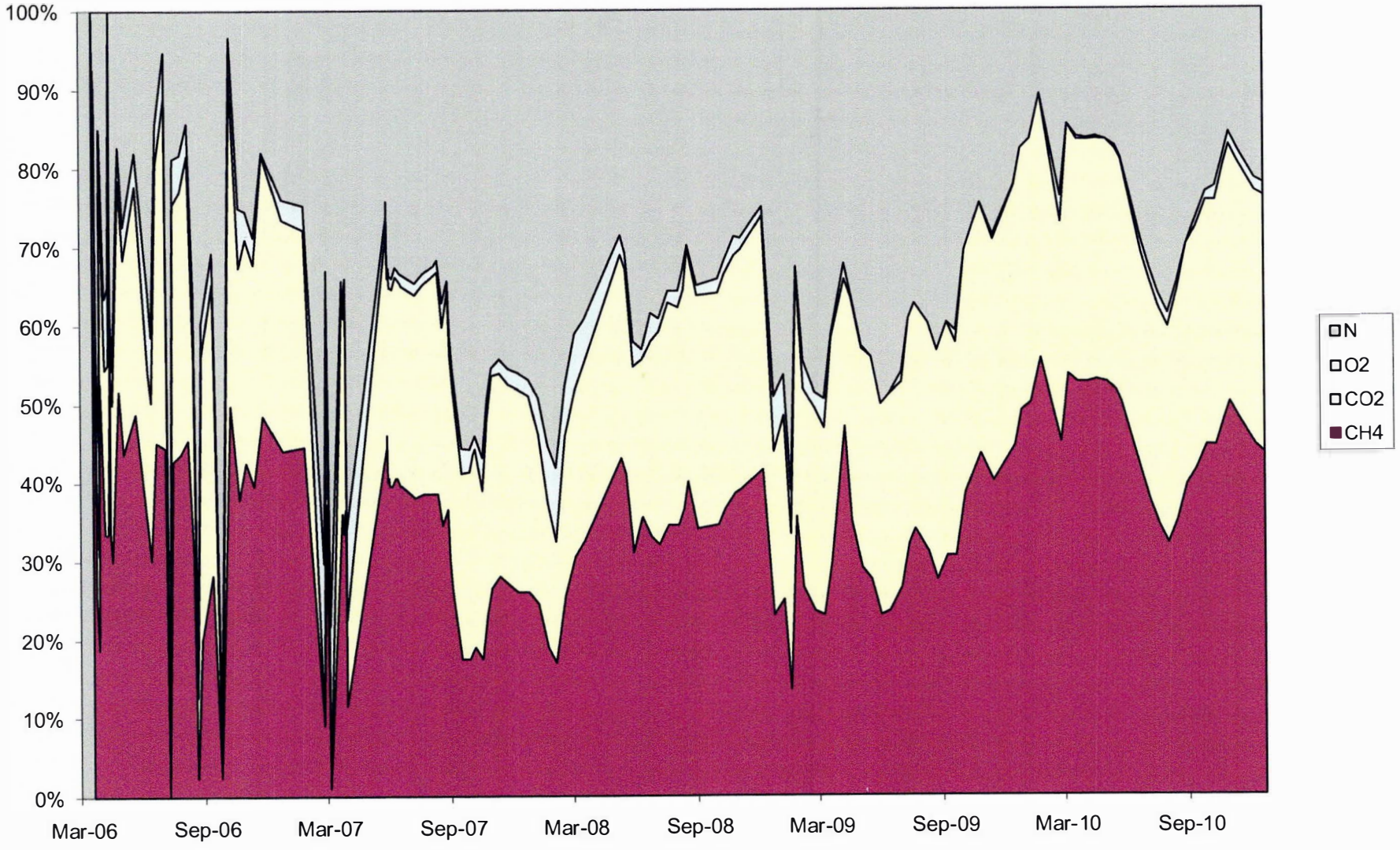

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Chart 13: LC-3 Gas Concentrations

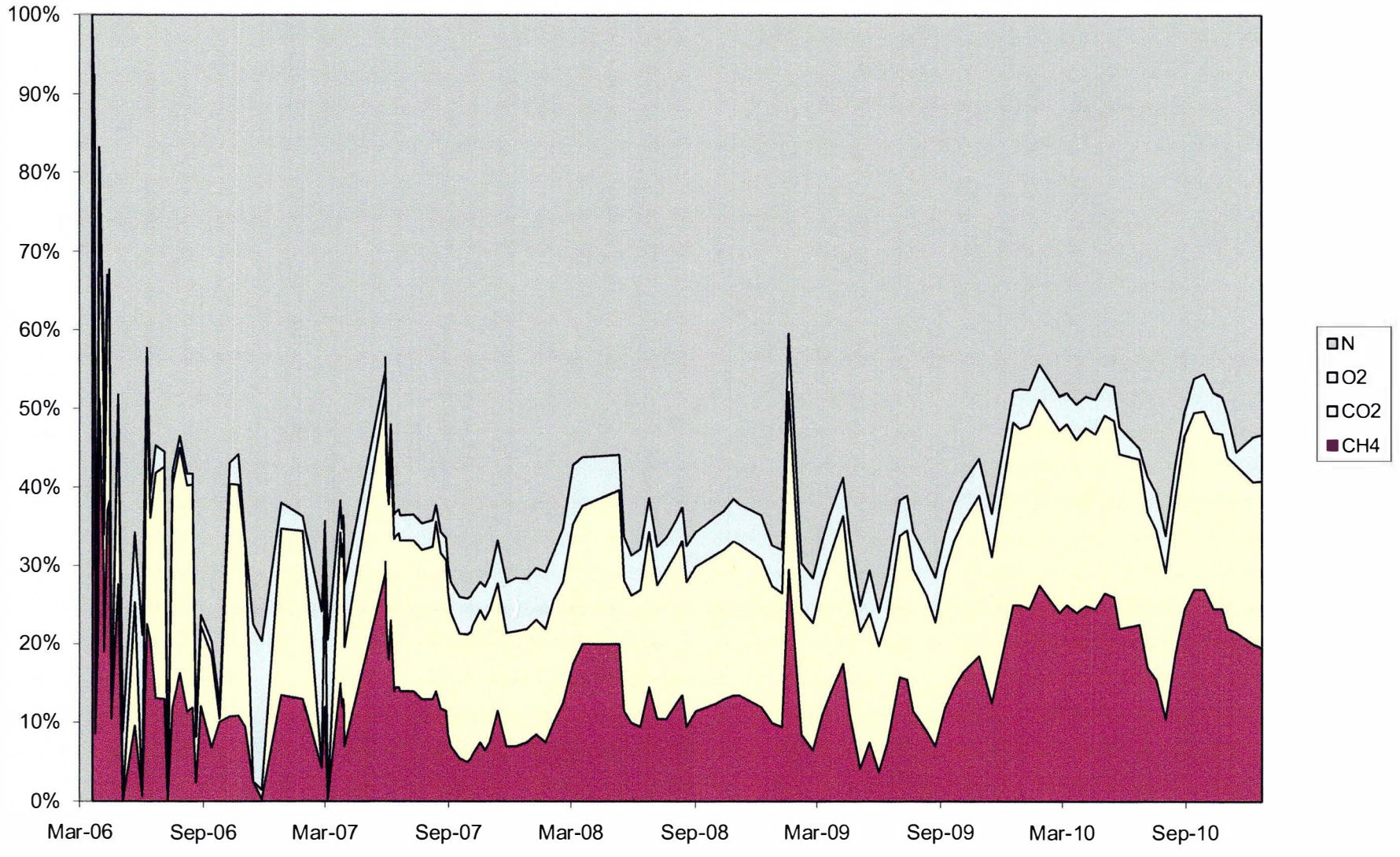

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Chart 14: System Exhaust

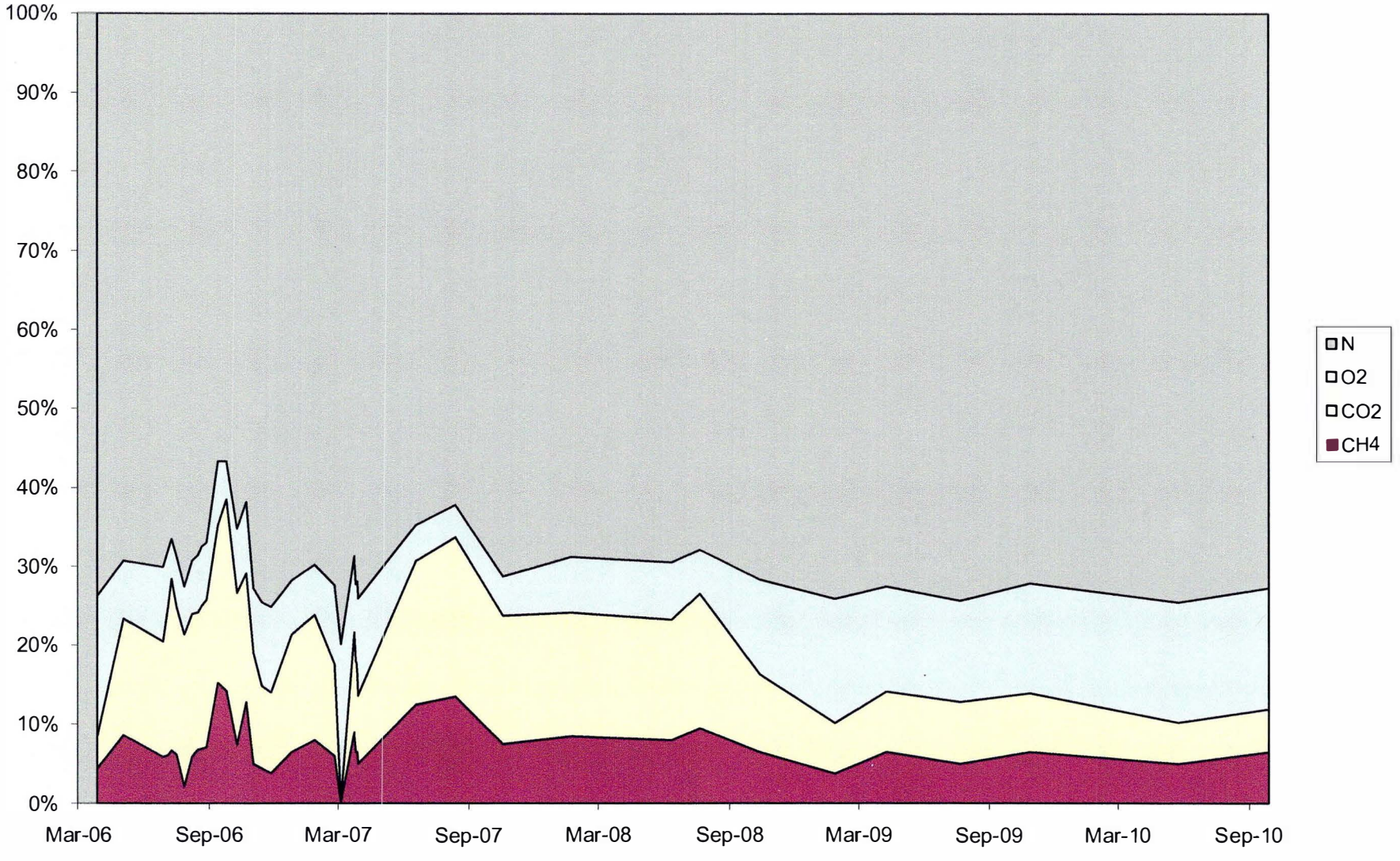

Chart 15: GP-1 Gas Concentrations

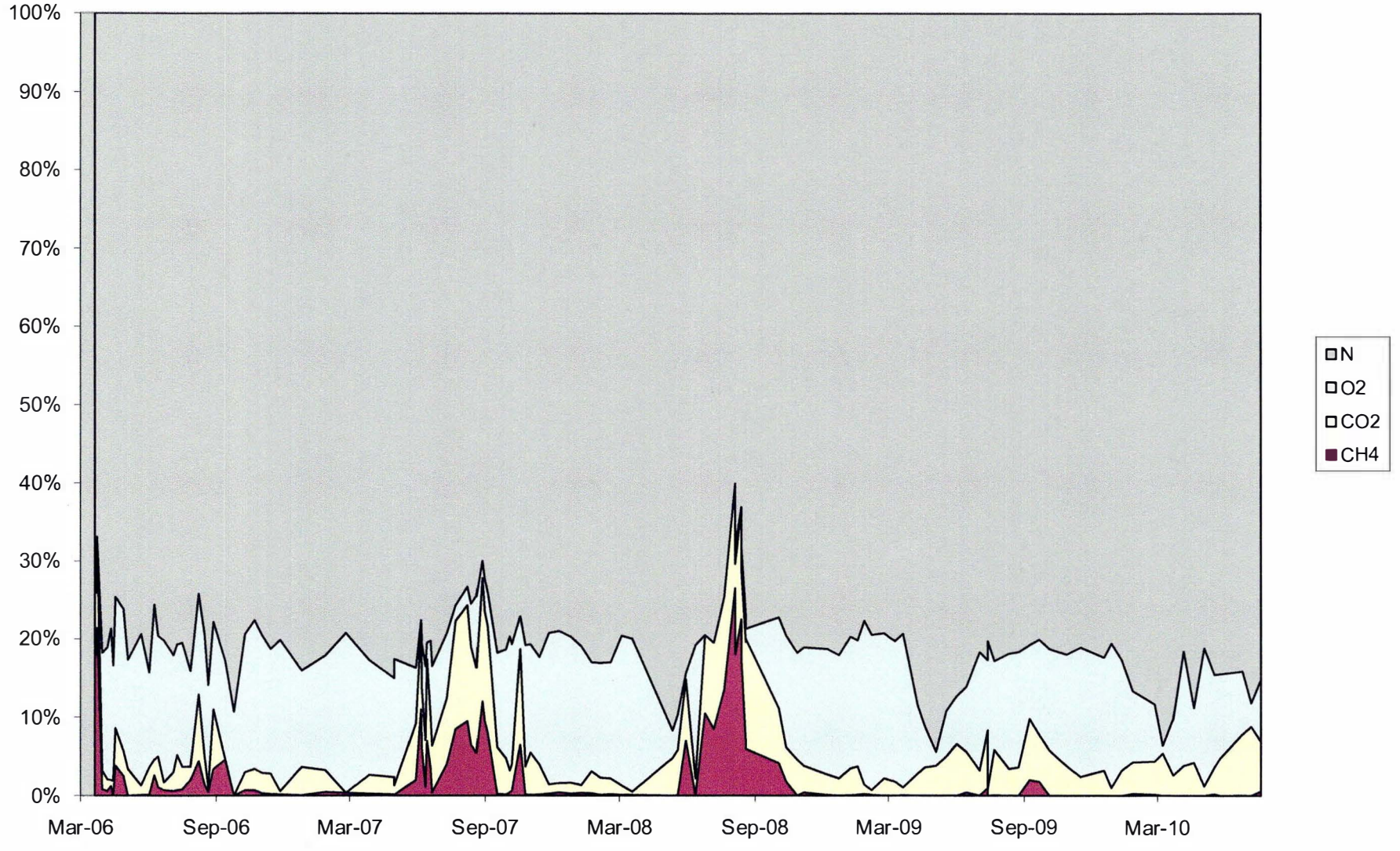

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Chart 16: GP-2 Gas Concentrations

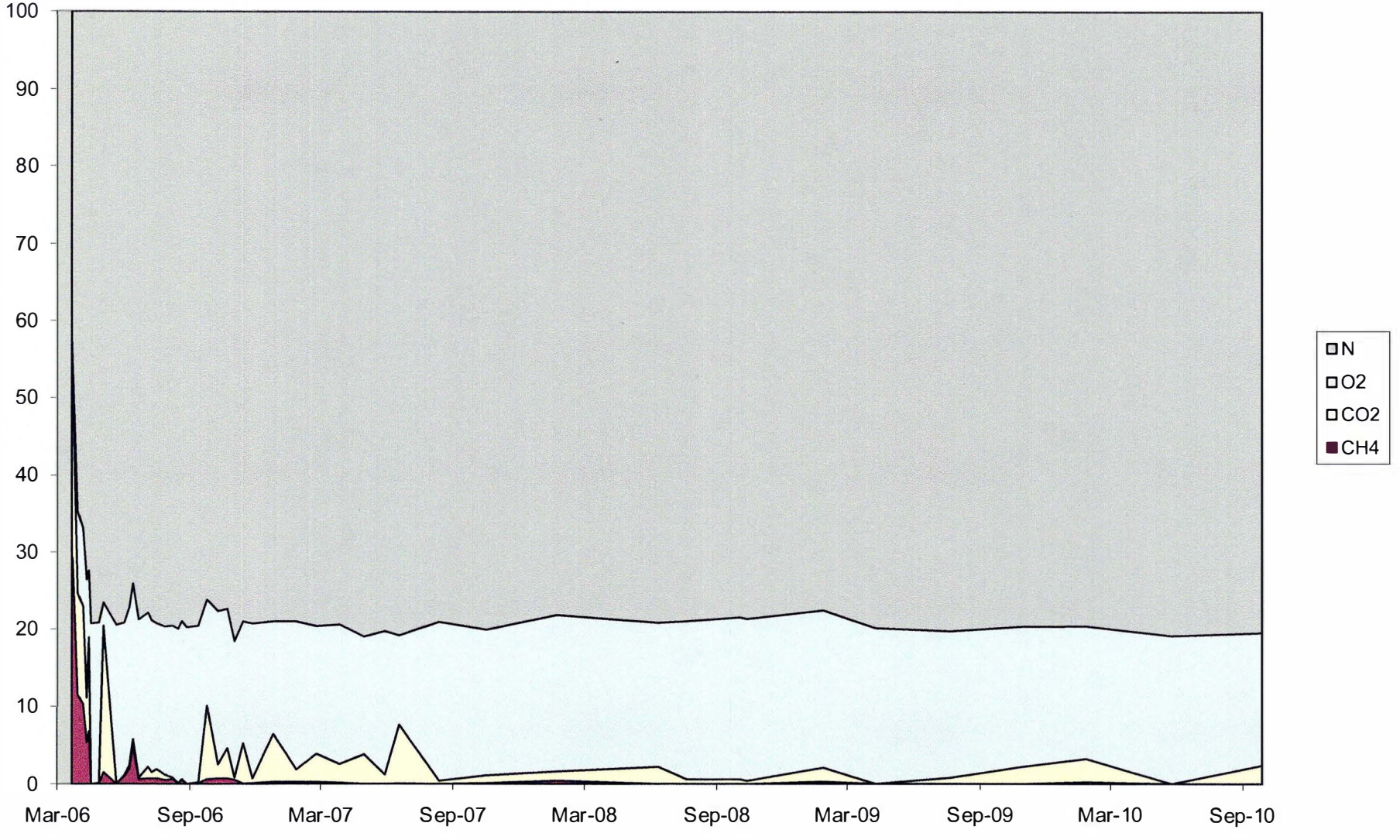

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Chart 17: GP-3 Gas Concentrations

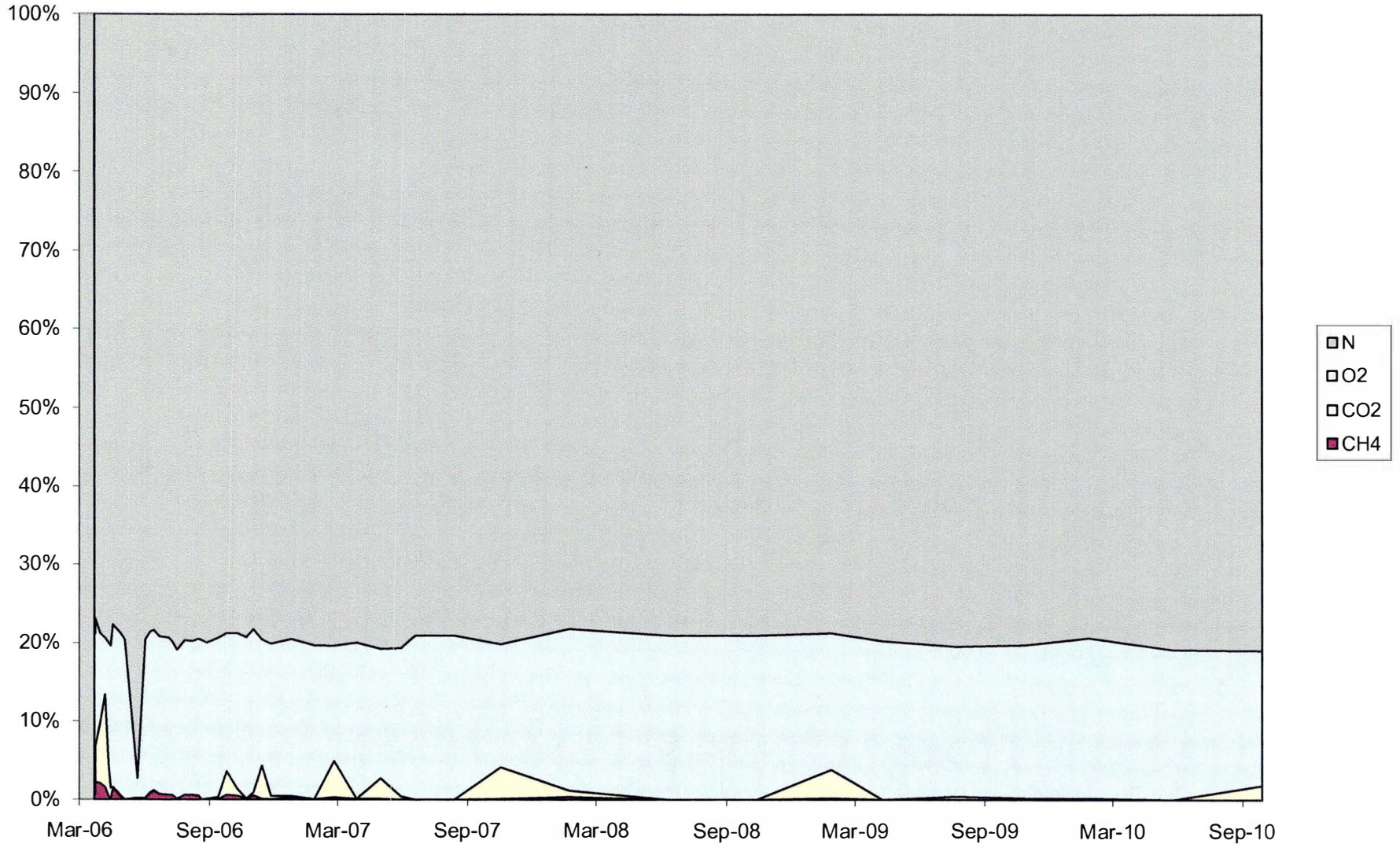

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Chart 18: GP-4 Gas Concentrations

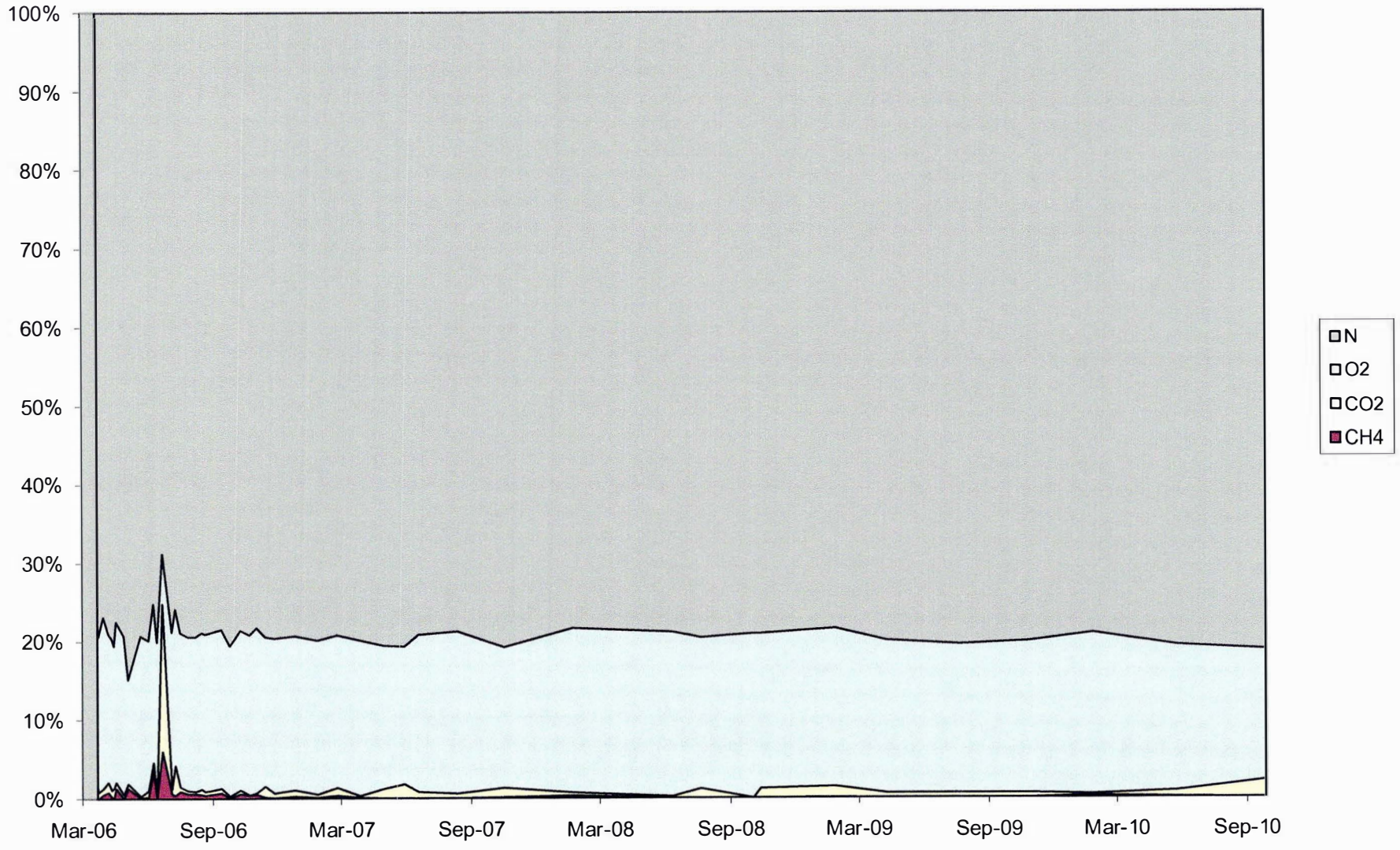

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Chart 19: GP-5 Gas Concentrations

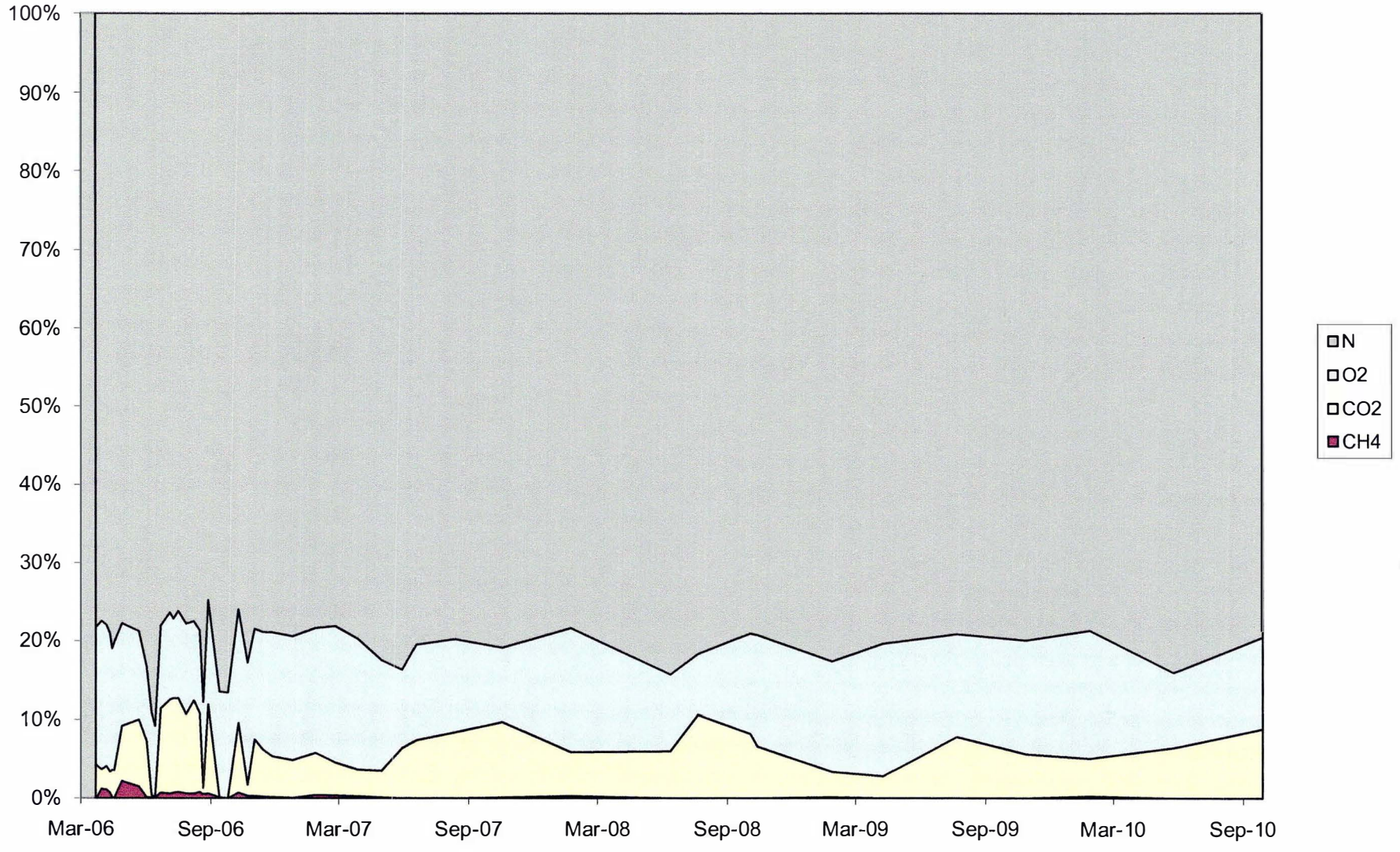

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Chart 20: GP-6 Gas Concentrations

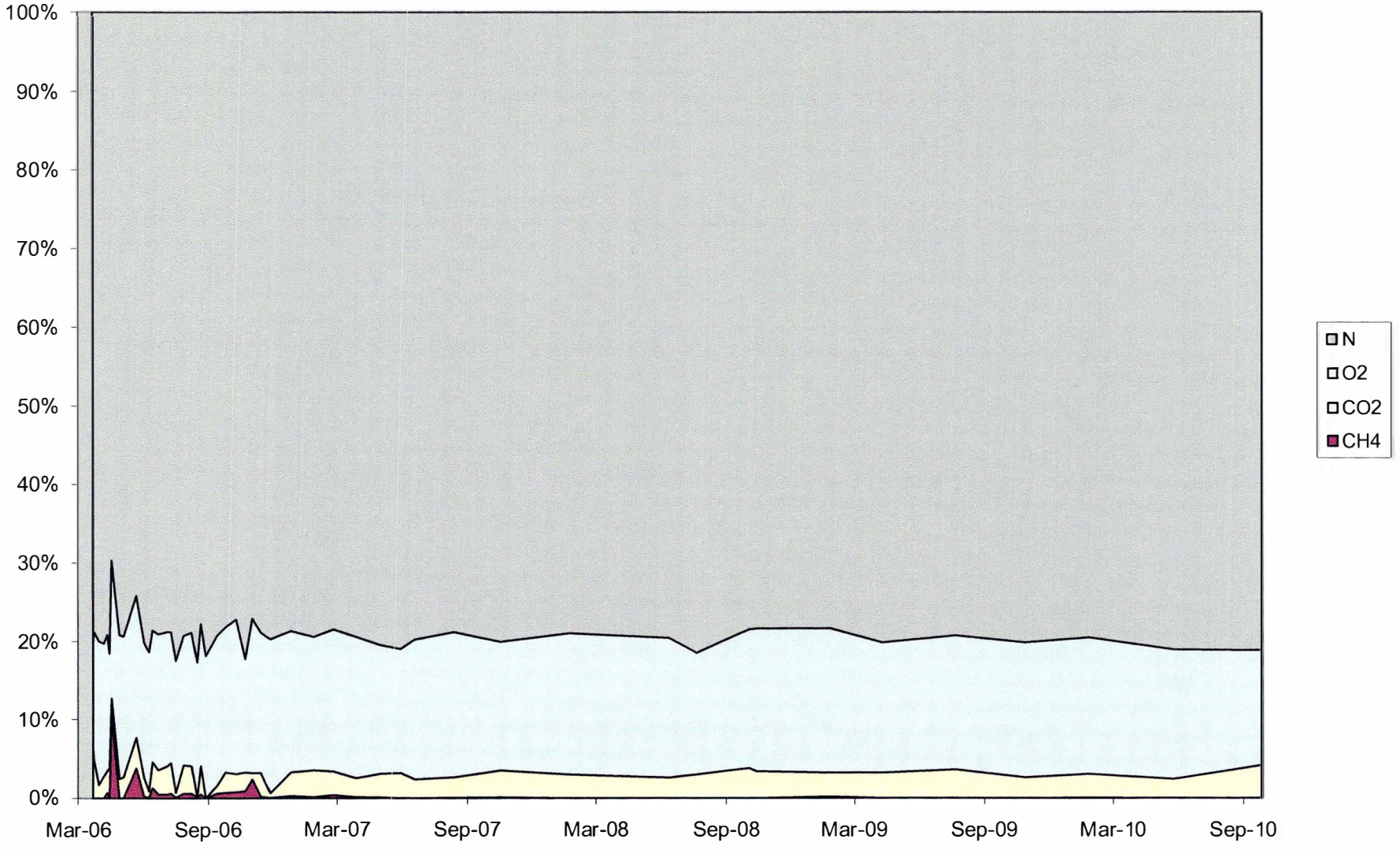

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Chart 21: GP-7 Gas Concentrations

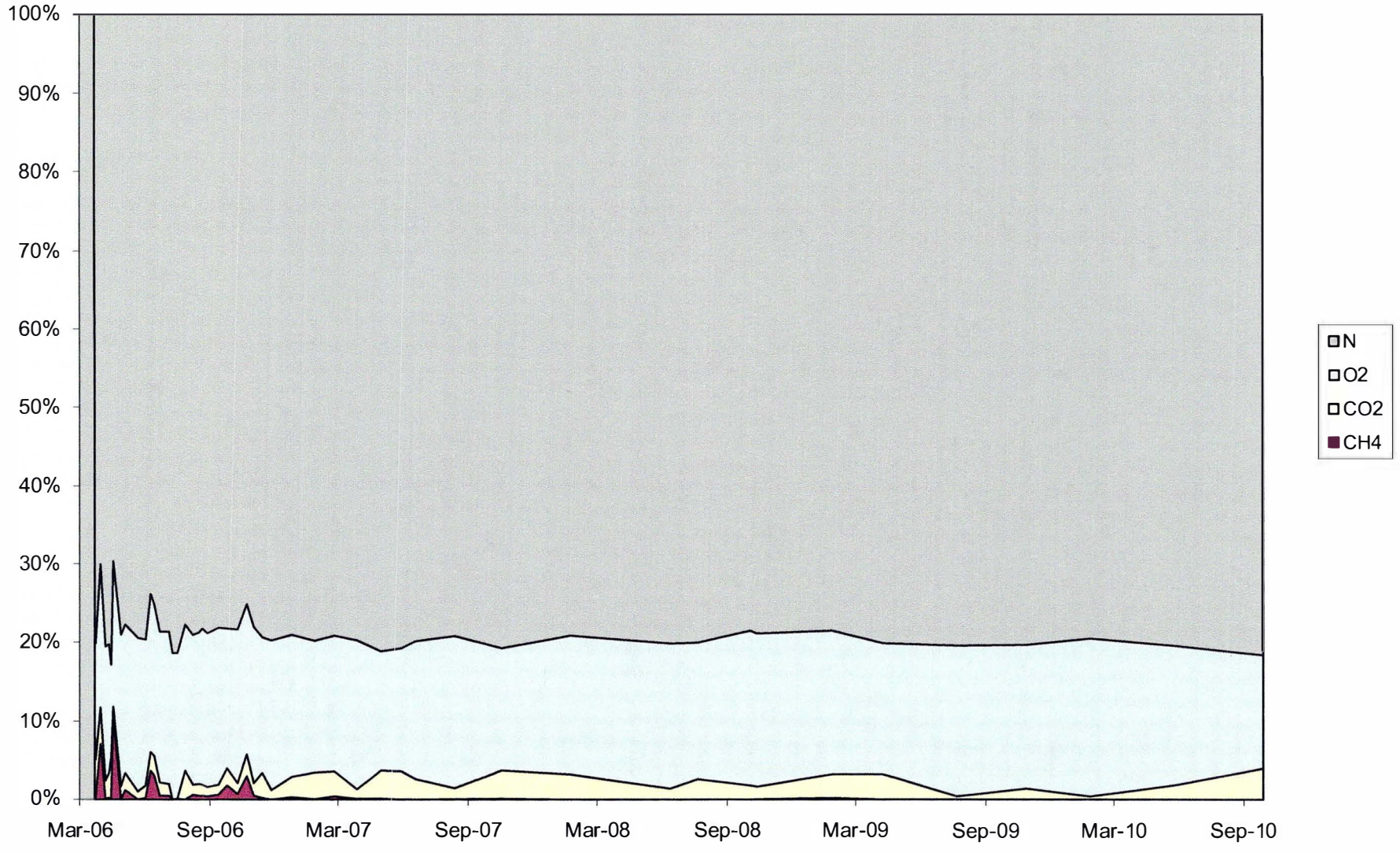

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Chart 22: GP-8 Gas Concentrations

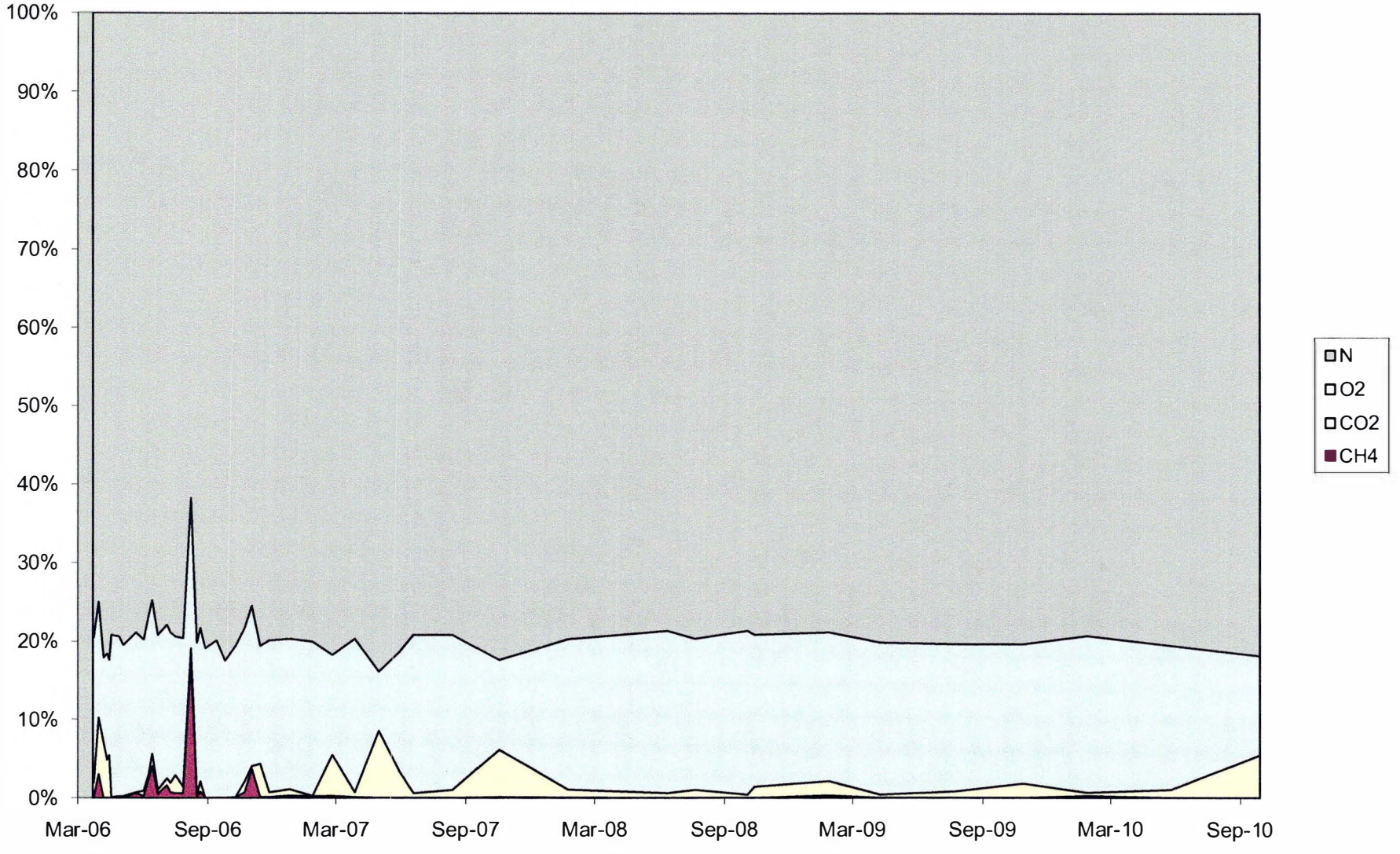

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Chart 23: GP-10 Gas Concentrations

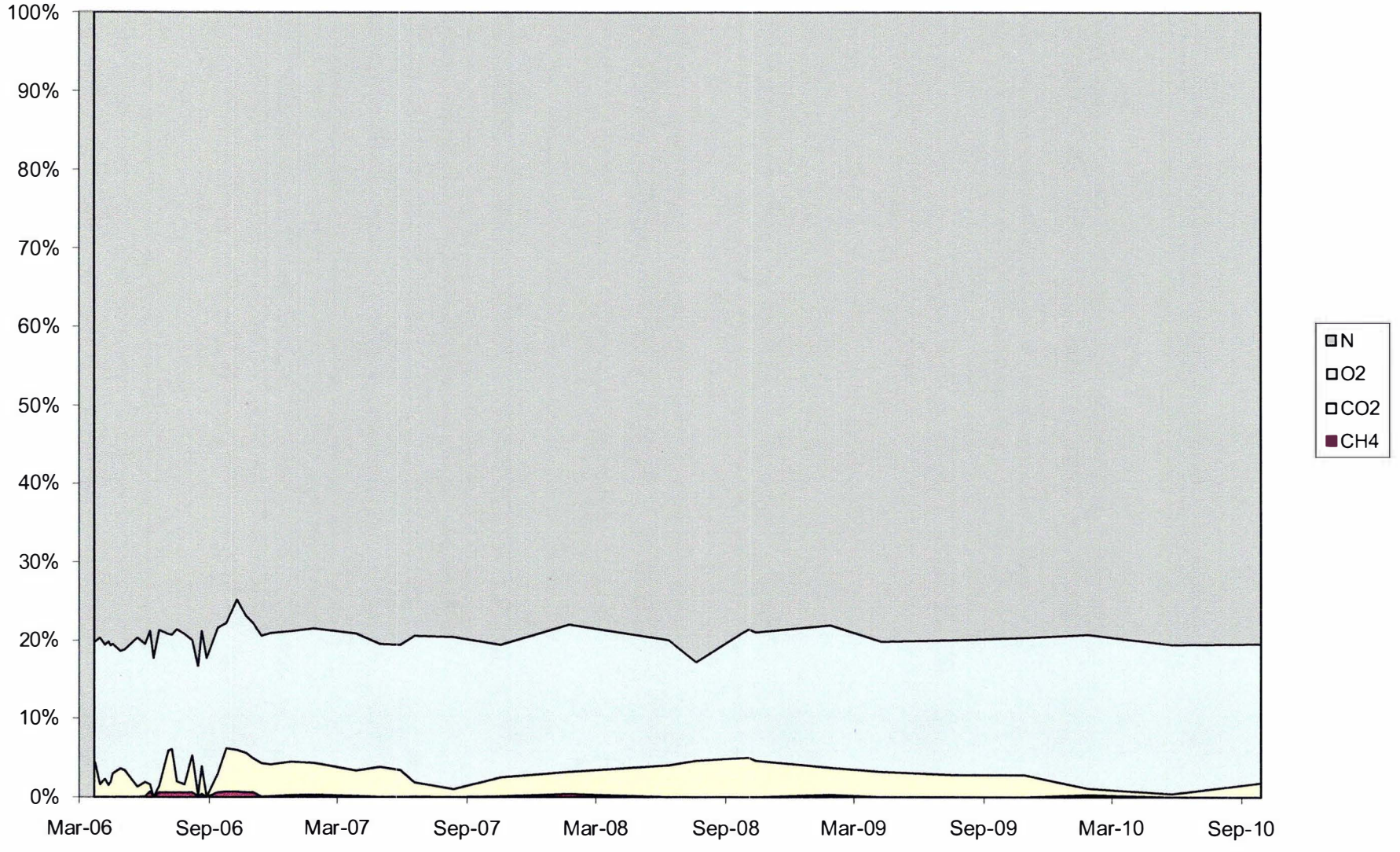

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Chart 24: GP-11 Gas Concentrations

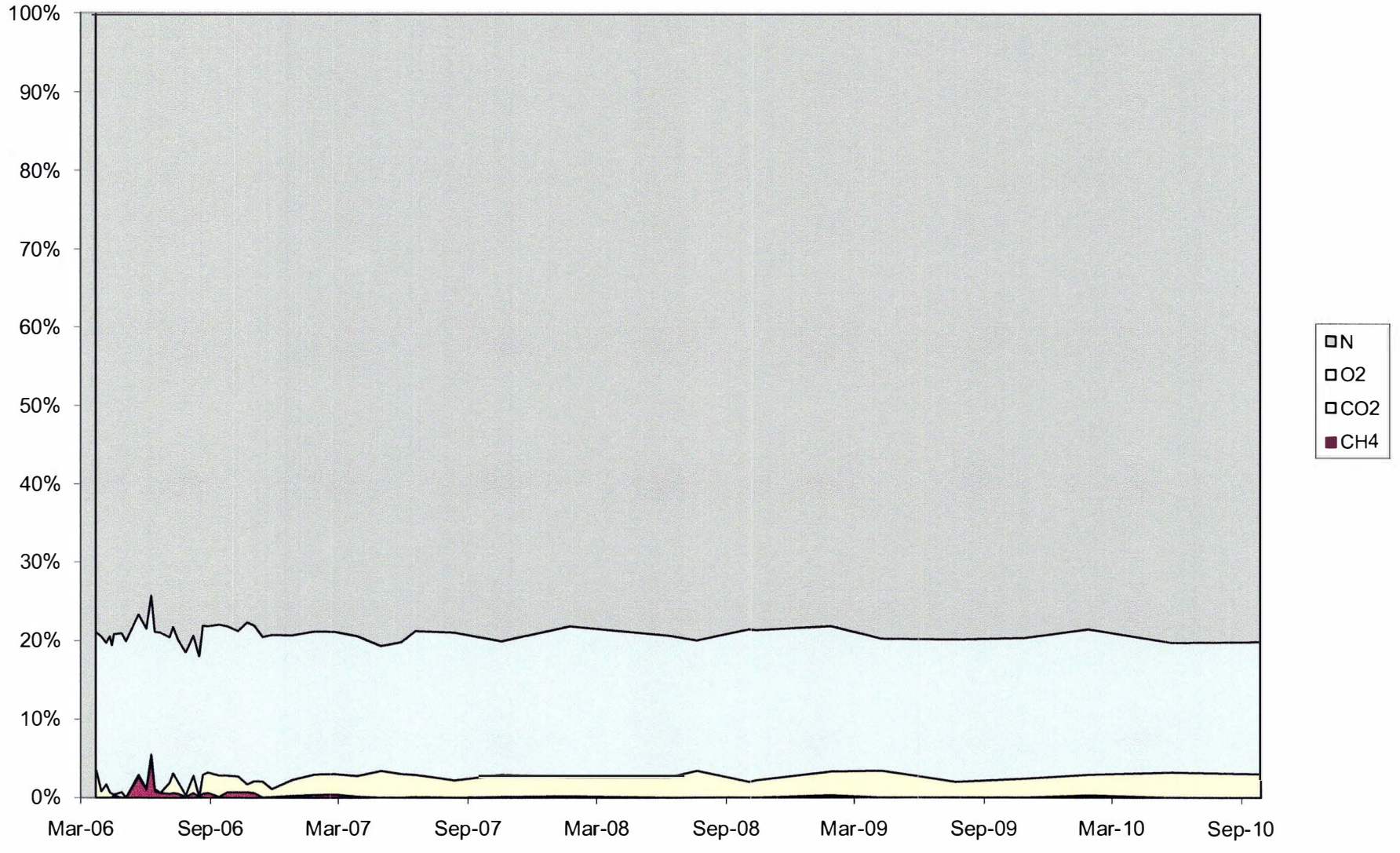

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Chart 25: GP-12 Gas Concentrations

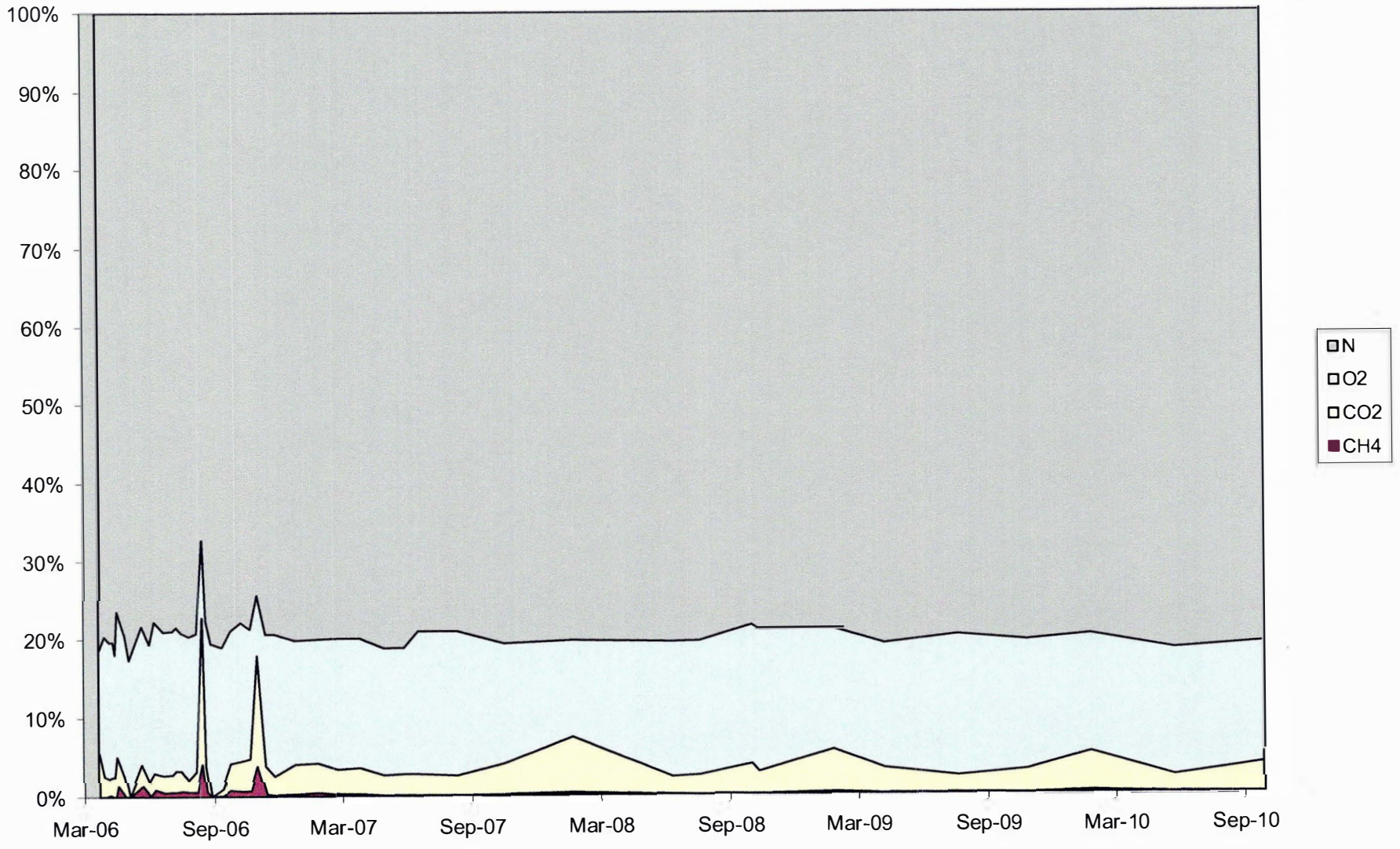

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Chart 26: MW-101 Gas Concentrations

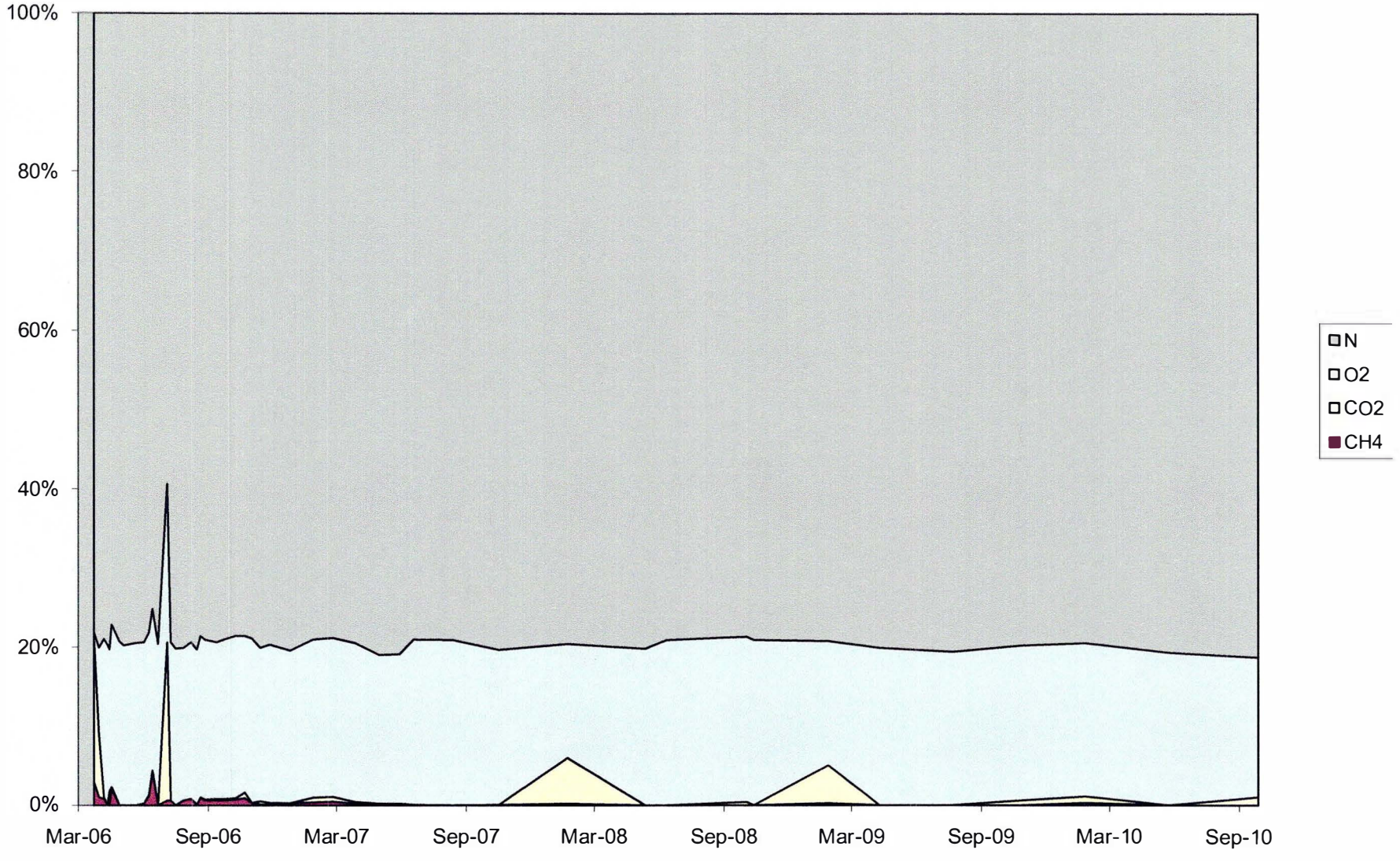

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Chart 27: MW-102 Gas Concentrations

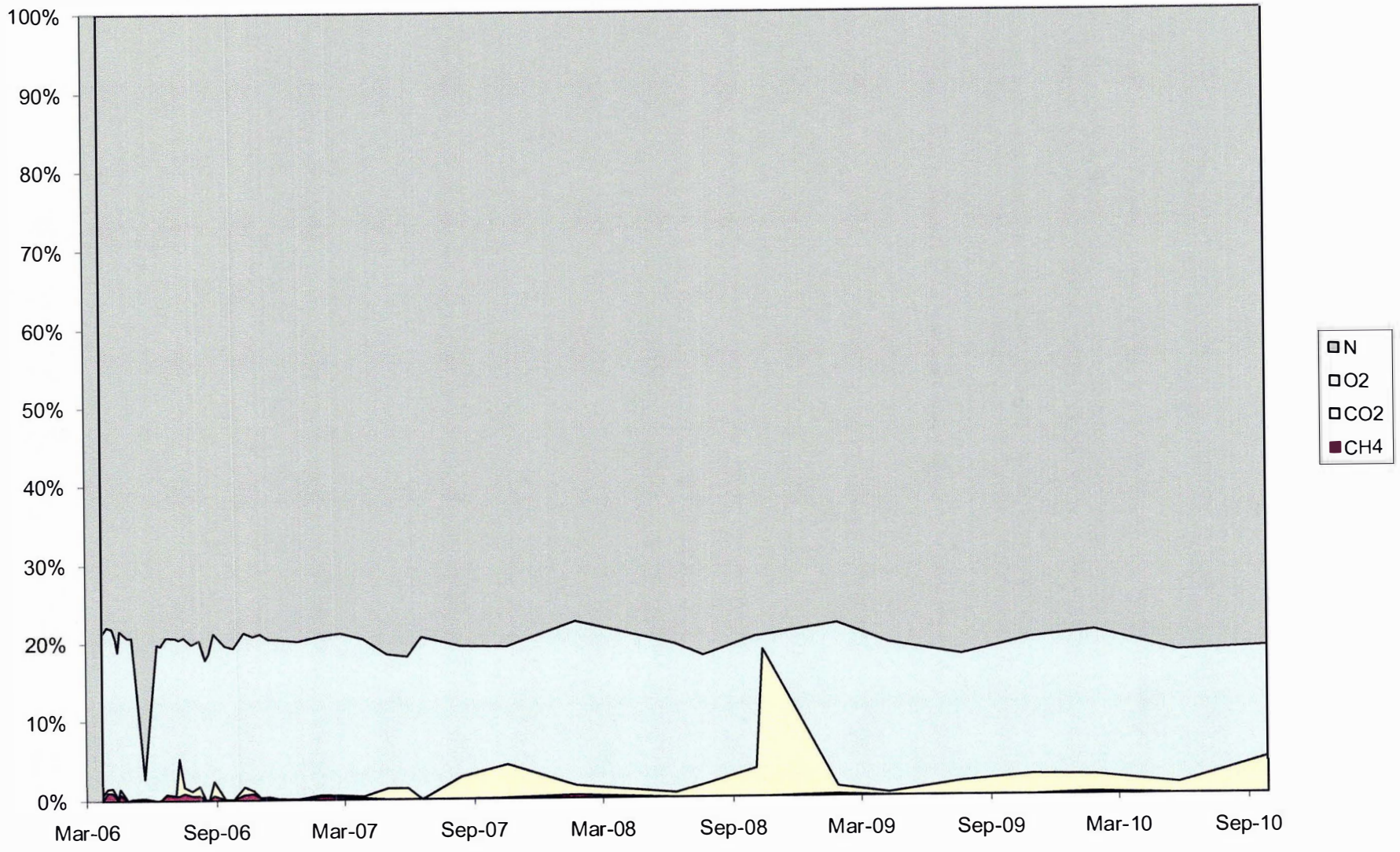

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Chart 28: MW-103 Gas Concentrations

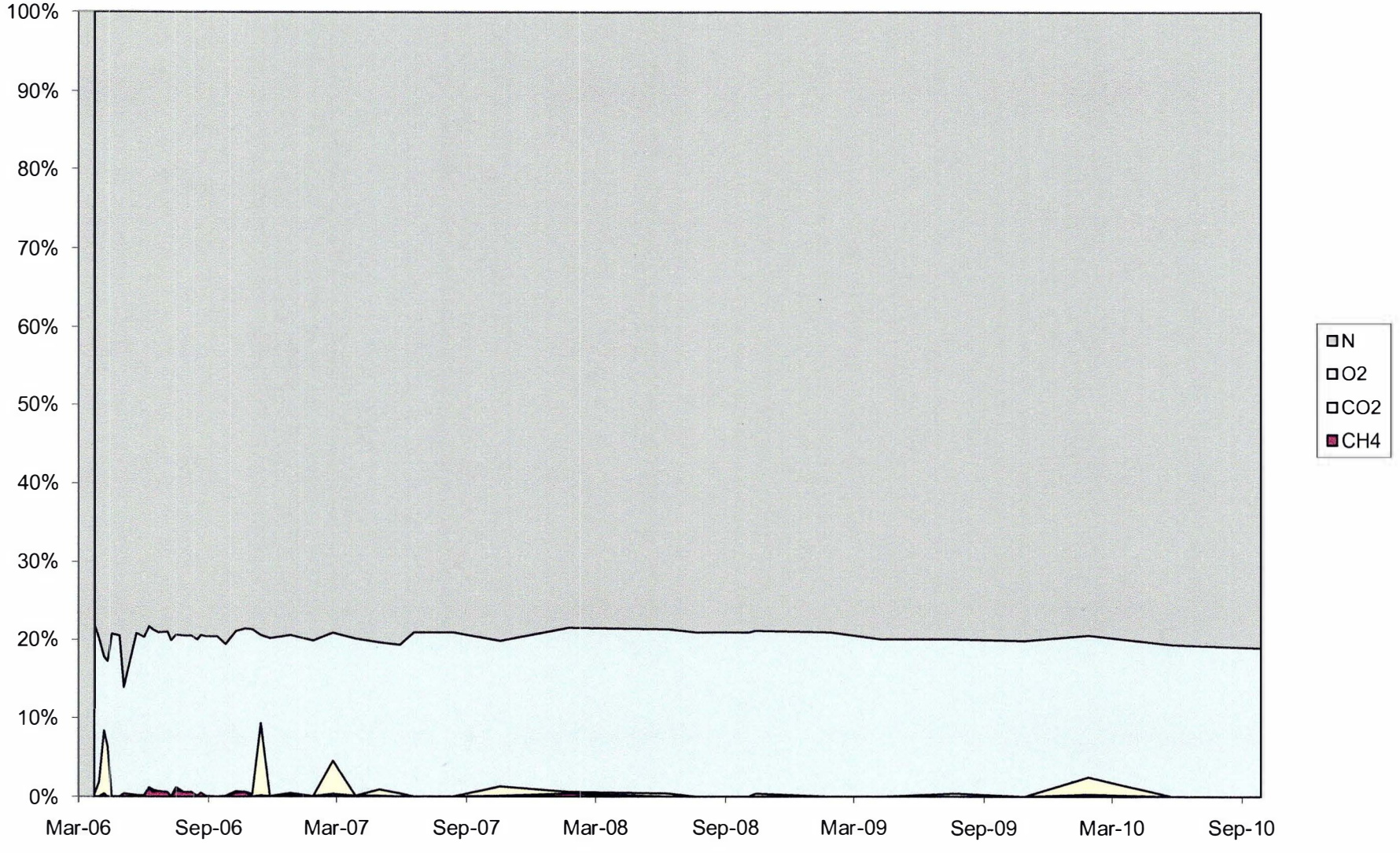

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Chart 29: MW-104 Gas Concentrations

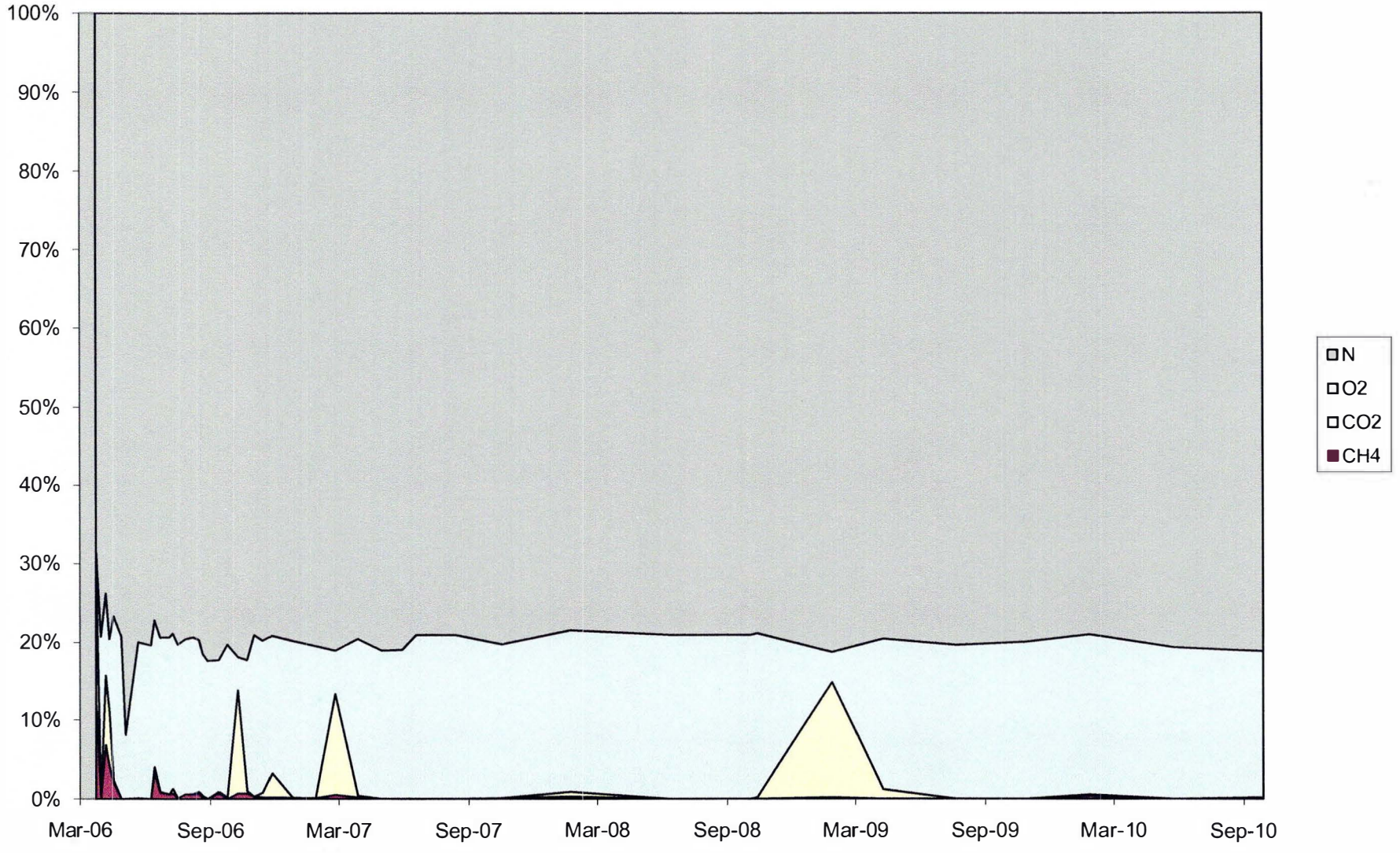

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Chart 30: Barometric Pressure
(Weather Station: Ripon, WI)

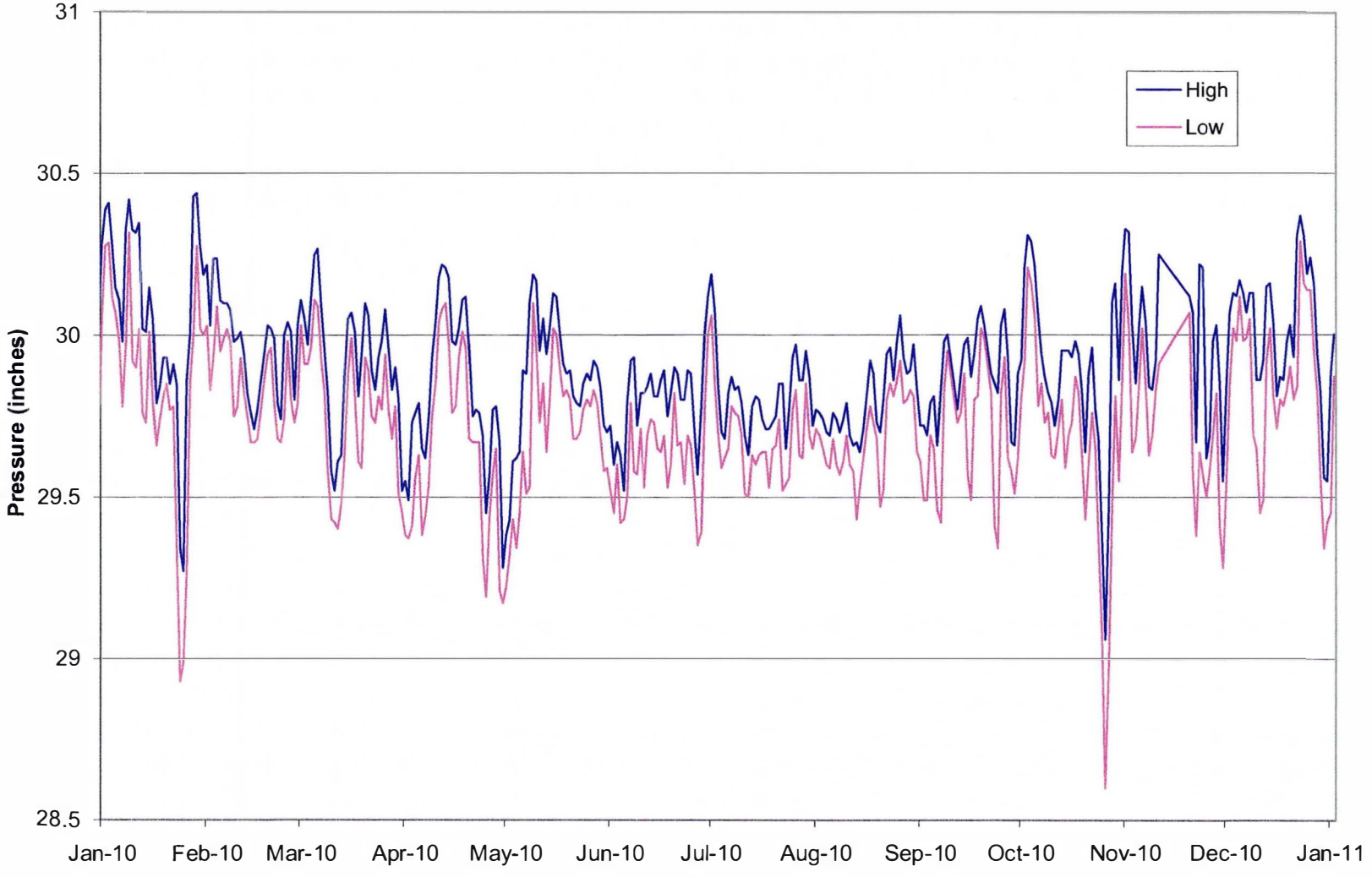


Chart 31: LC-1
Total Gas VOCs

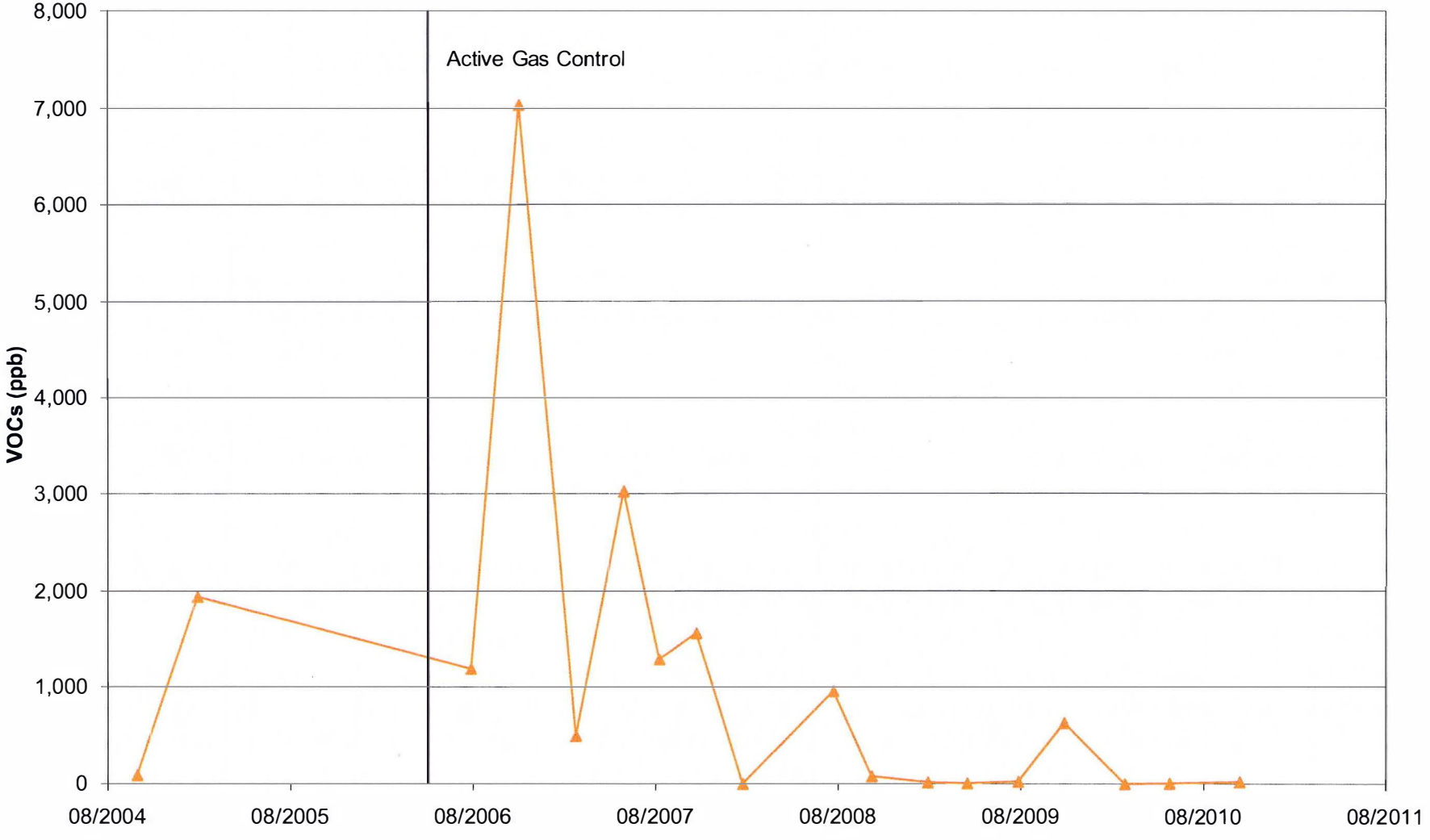


Chart 32: LC-2
Total Gas VOCs

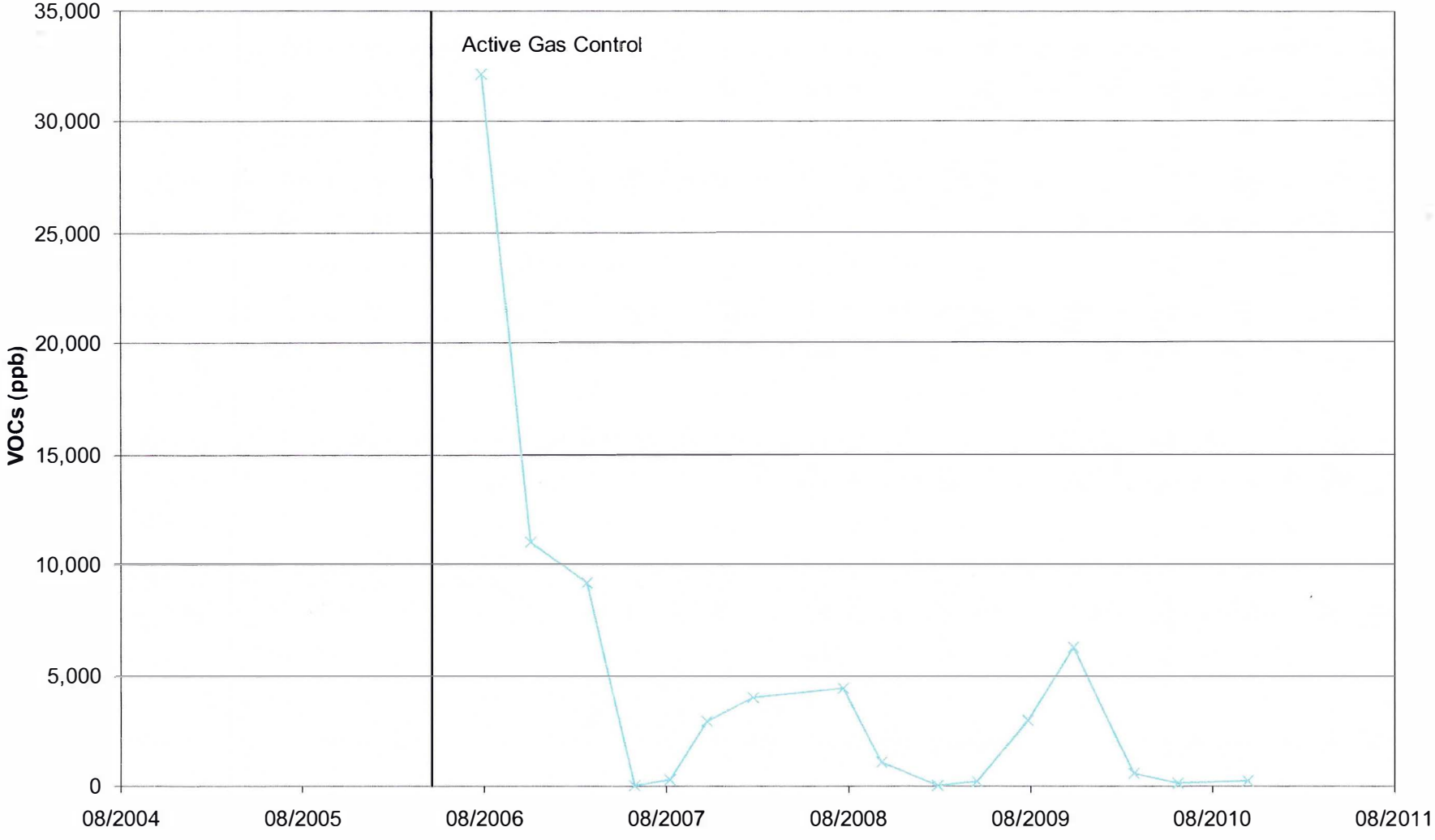


Chart 33: LC-3
Total Gas VOCs

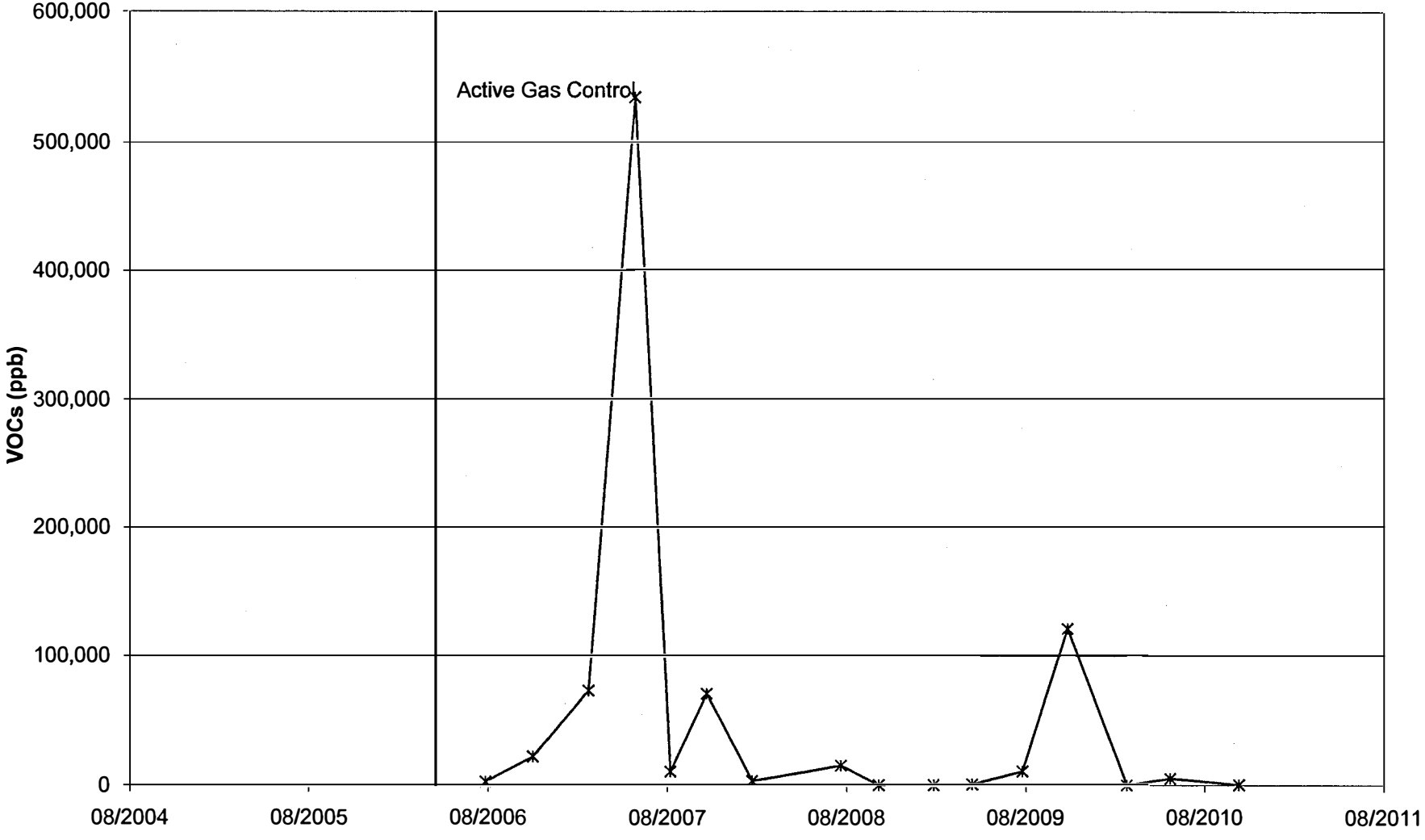


Chart 34: GV-6
Total Gas VOCs

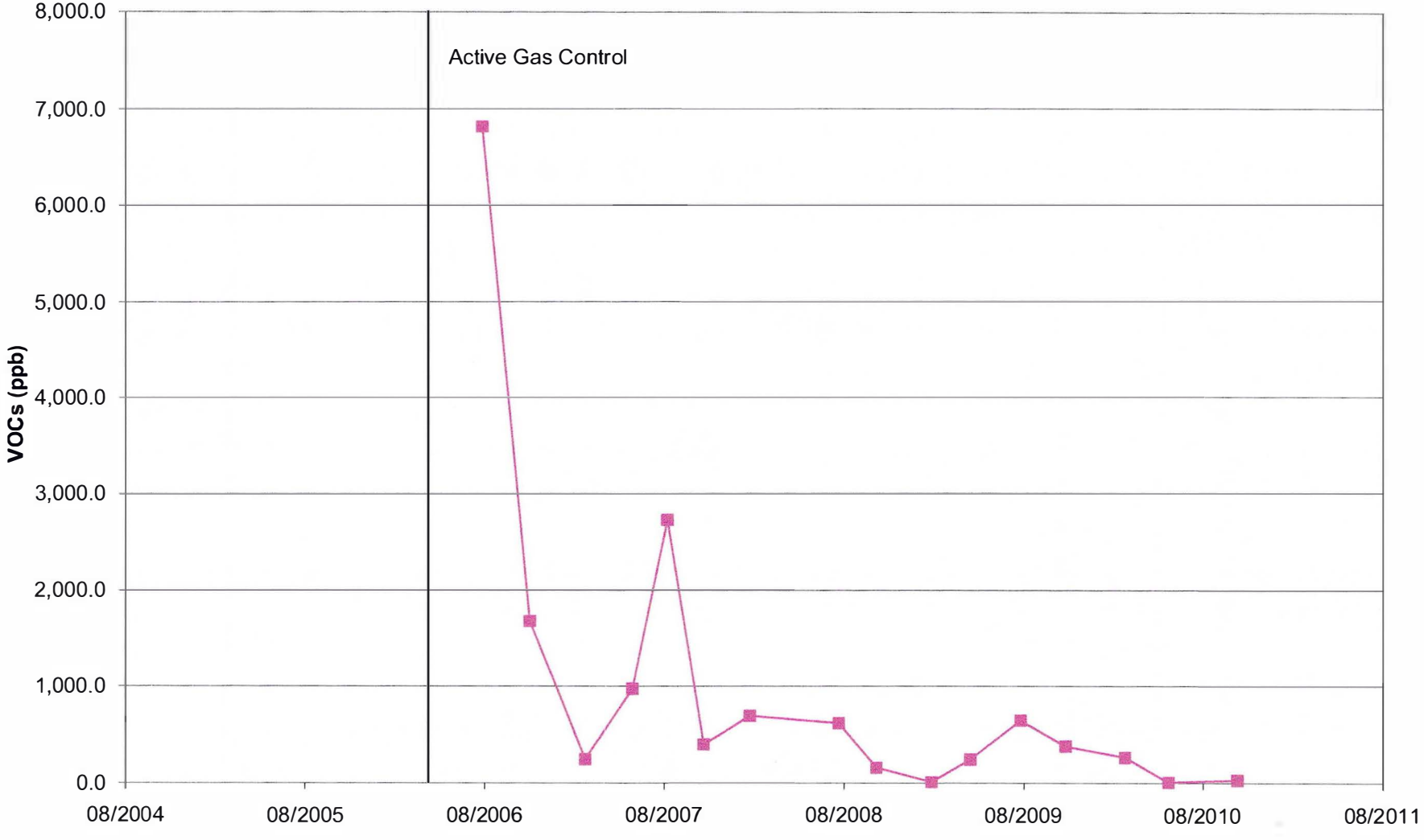


Chart 35: GP-3
Total Gas VOCs

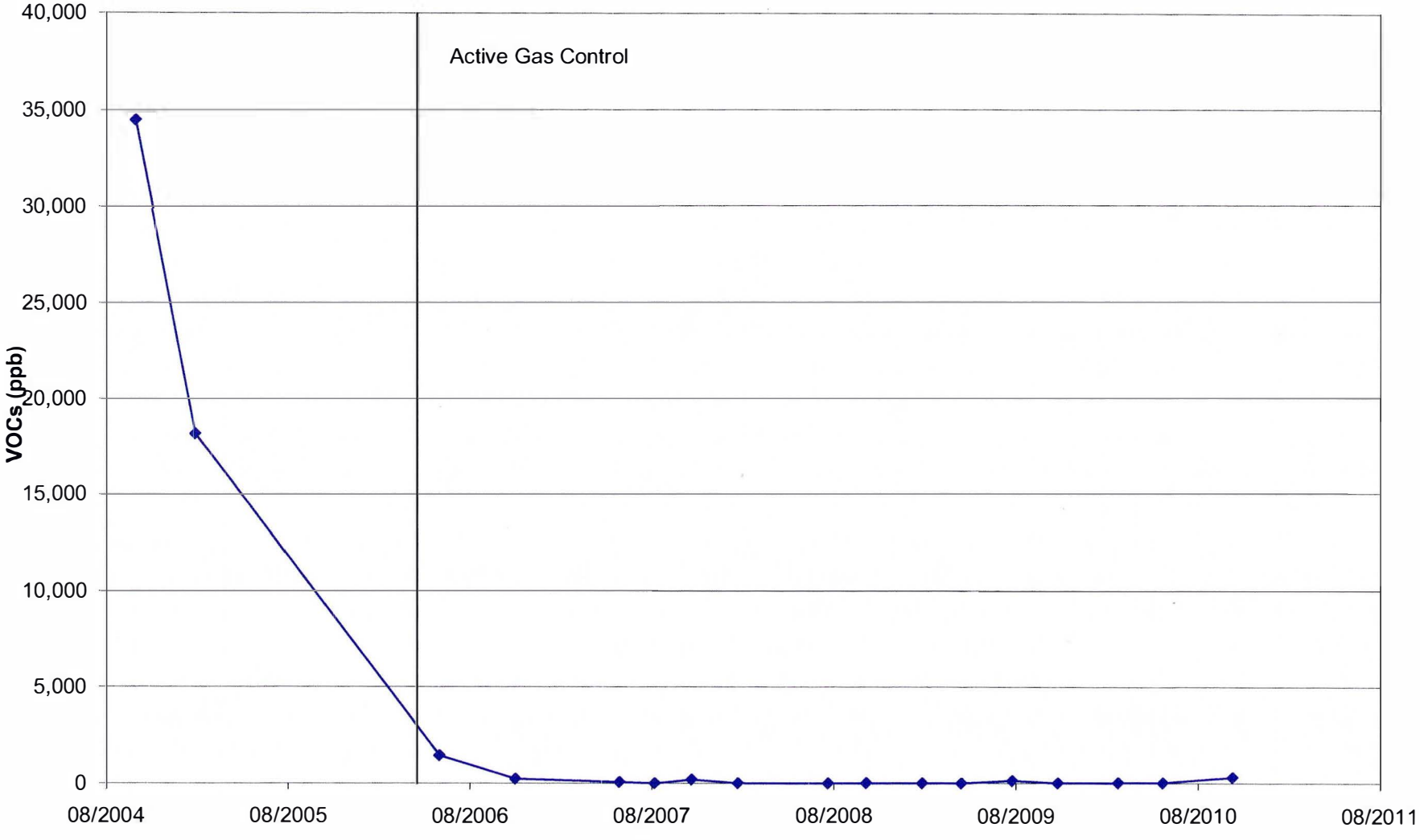
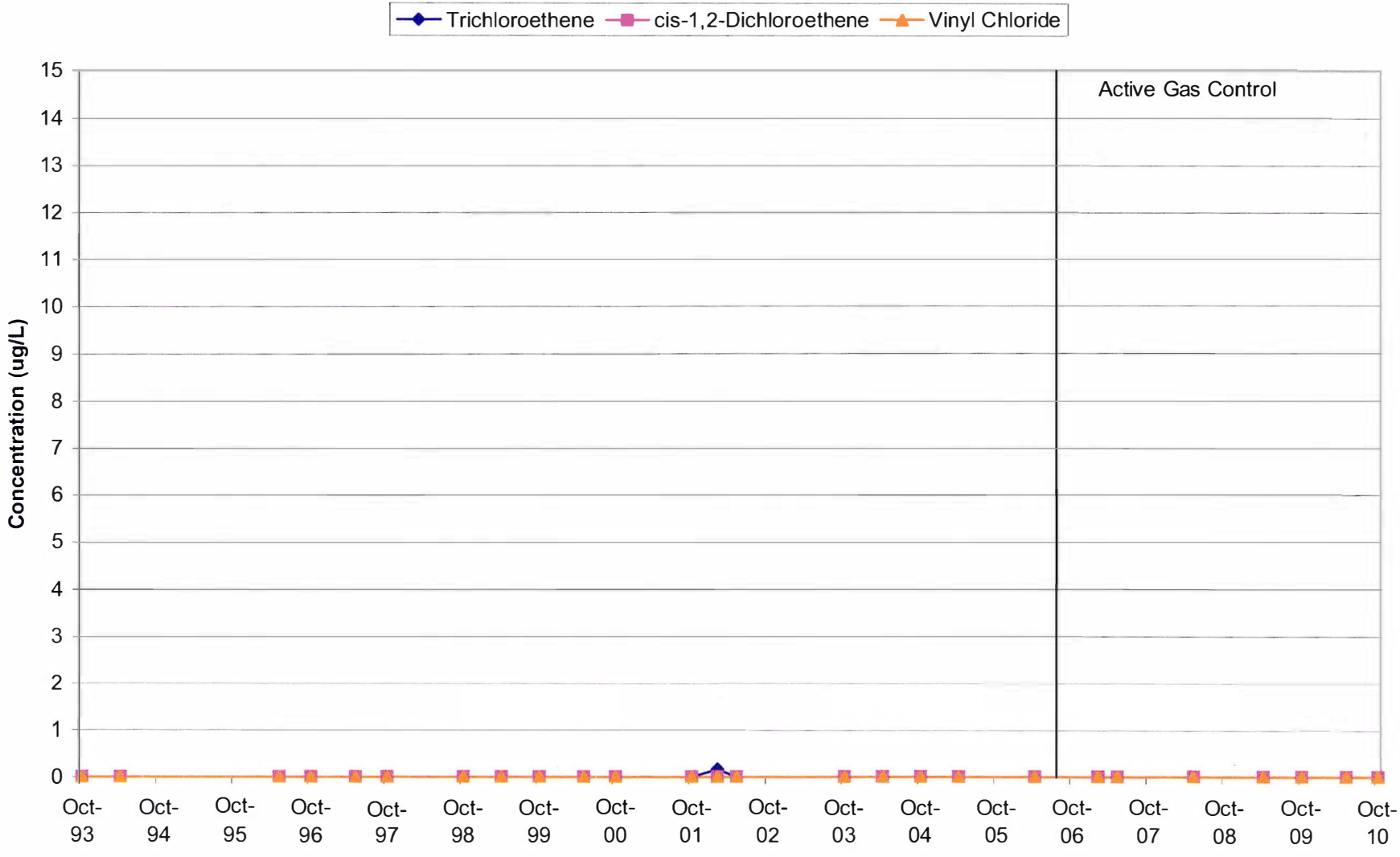


Chart 36: MW-101
Layer 1 Well

Upgradient



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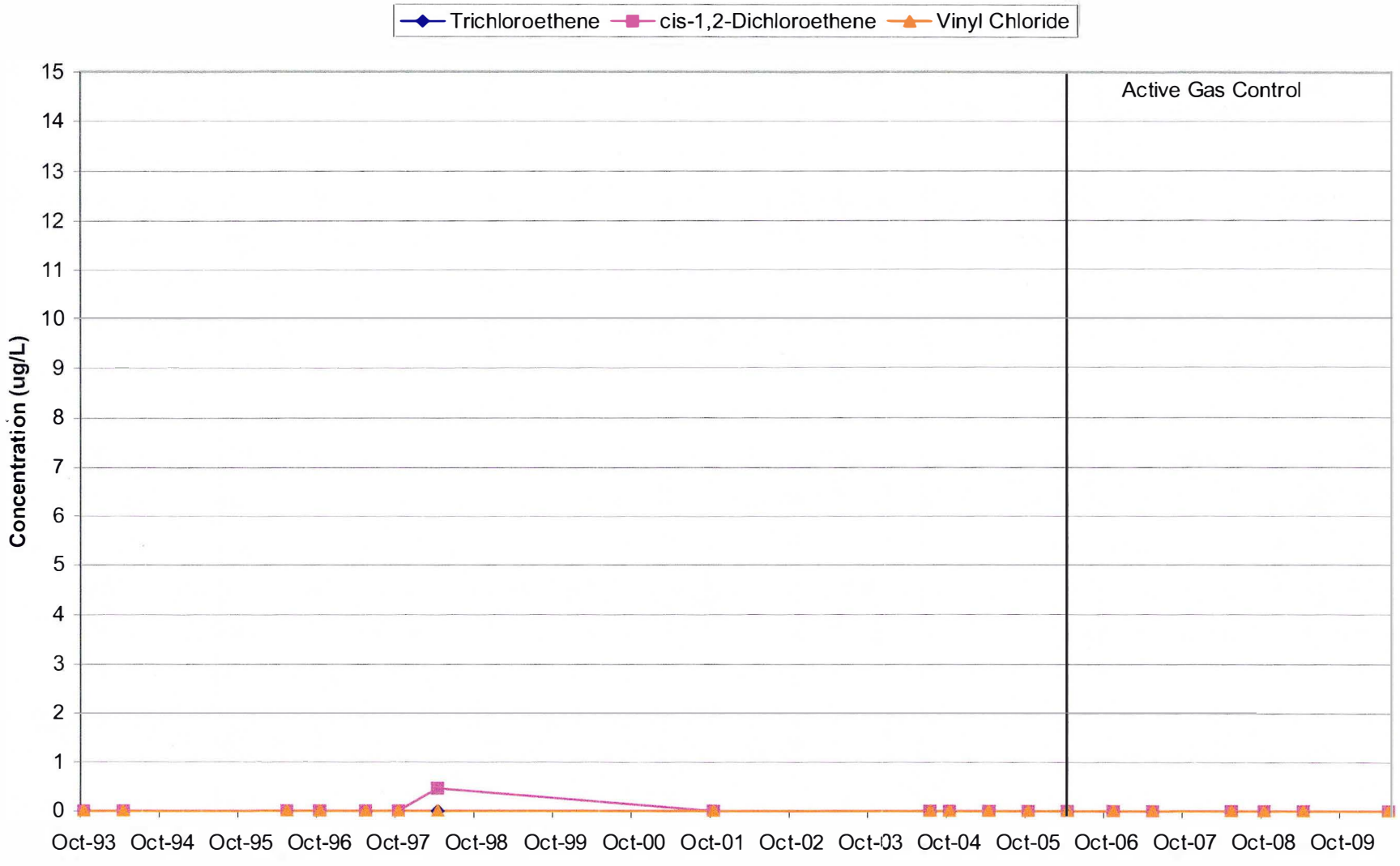
Side gradient

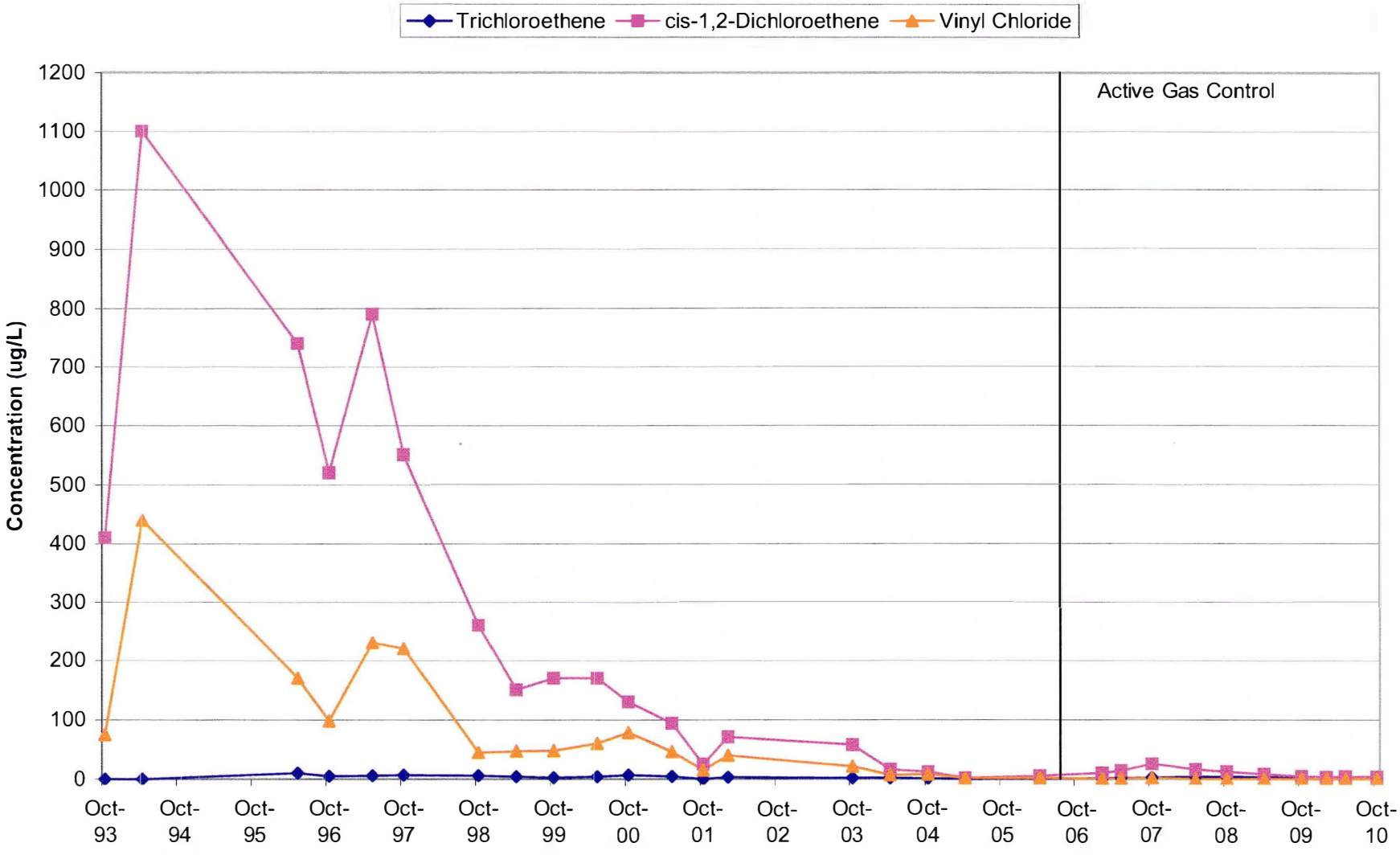
Chart 37: MW-102
Layer 1 Well



[redacted] [redacted] [redacted] [redacted] [redacted]

10' Down gradient

Chart 38: MW-103
Layer 1 Well



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[redacted] [redacted] [redacted] [redacted]

Chart 39: MW-104
Layer 1 Well

Side gradient

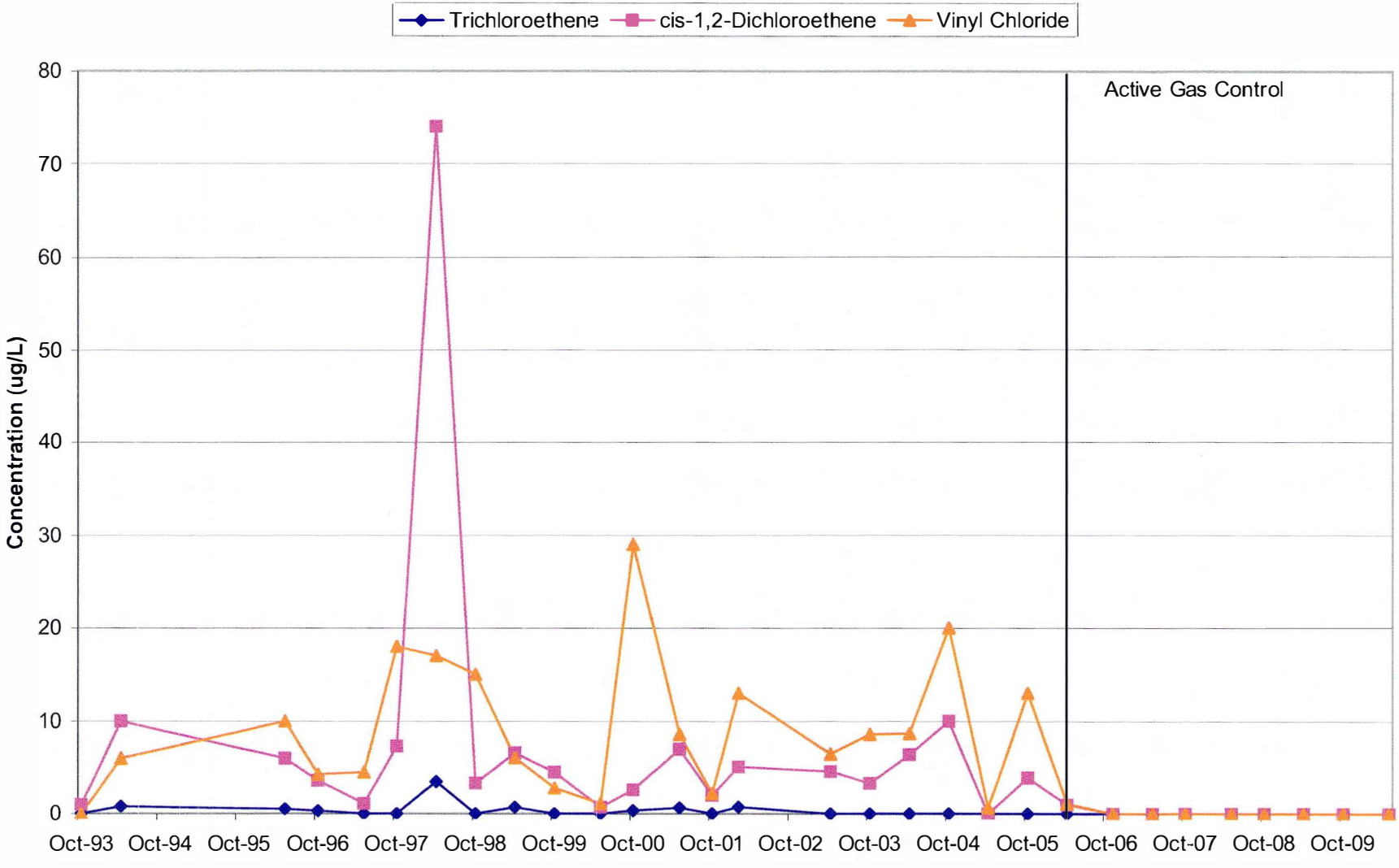

Chart 40: MW-106
Layer 1 Well

Side gradient

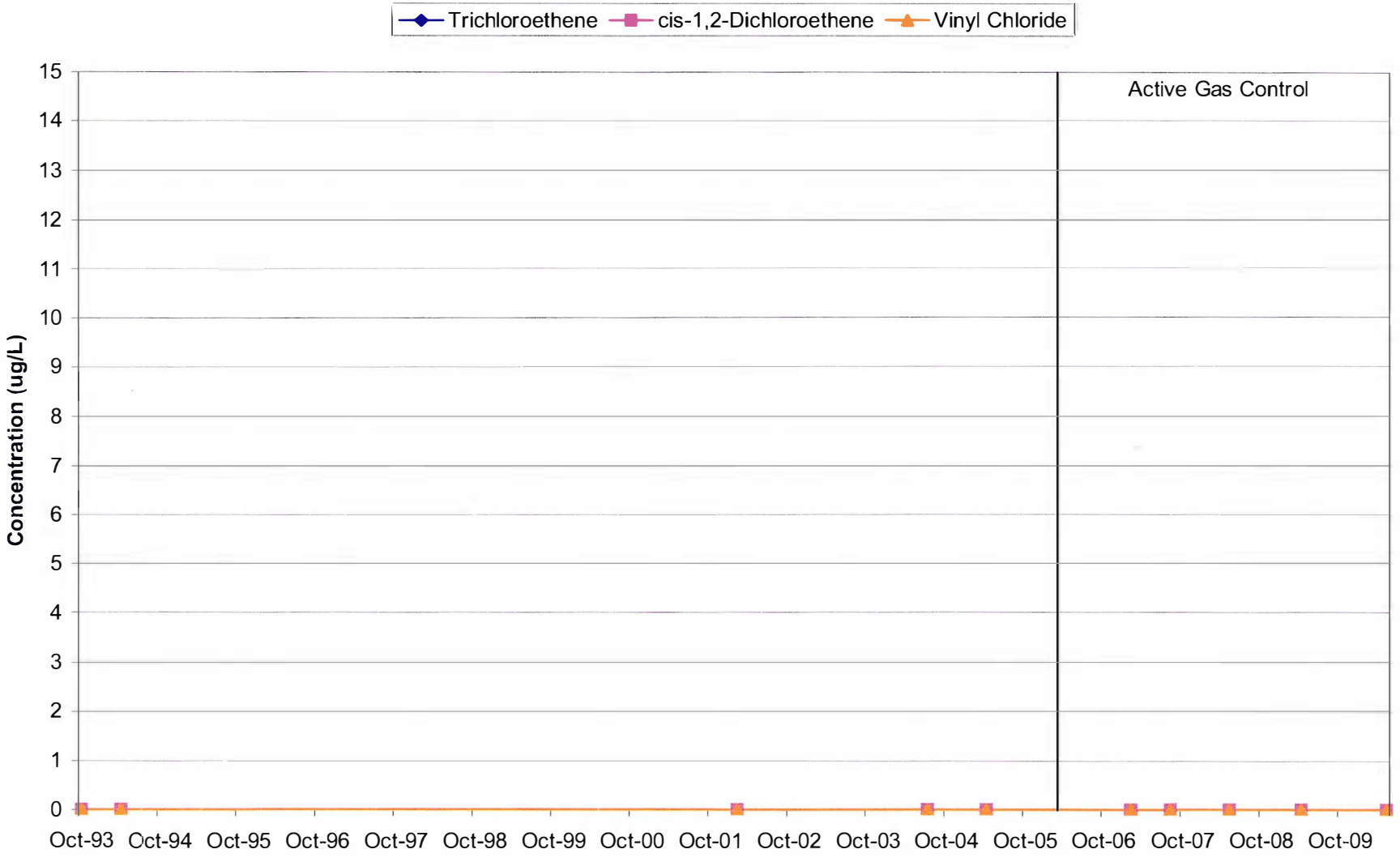

Chart 41: MW-107
Layer 1 Well

370' Down gradient

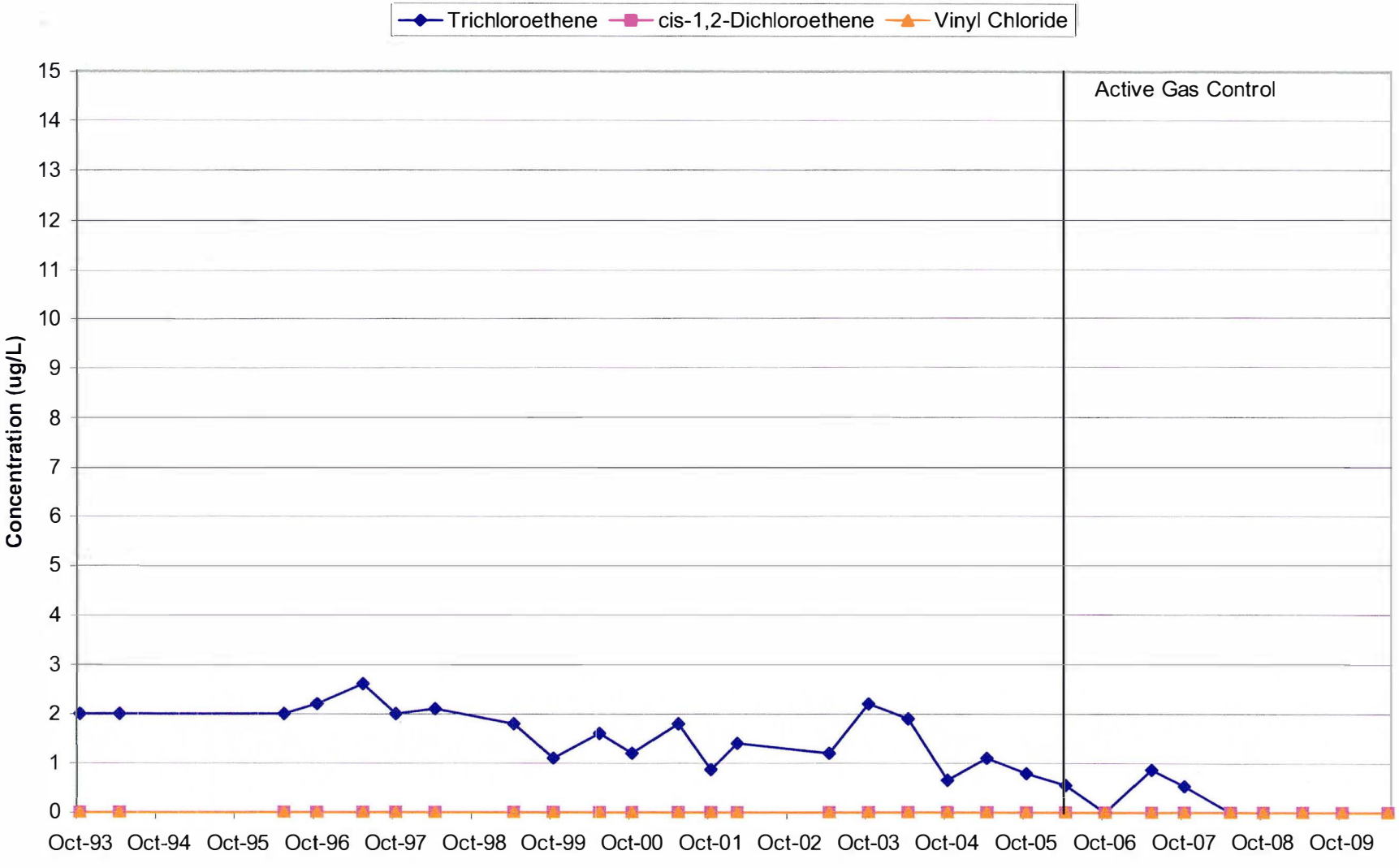

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Chart 42: MW-108
Layer 1 Well

Side gradient

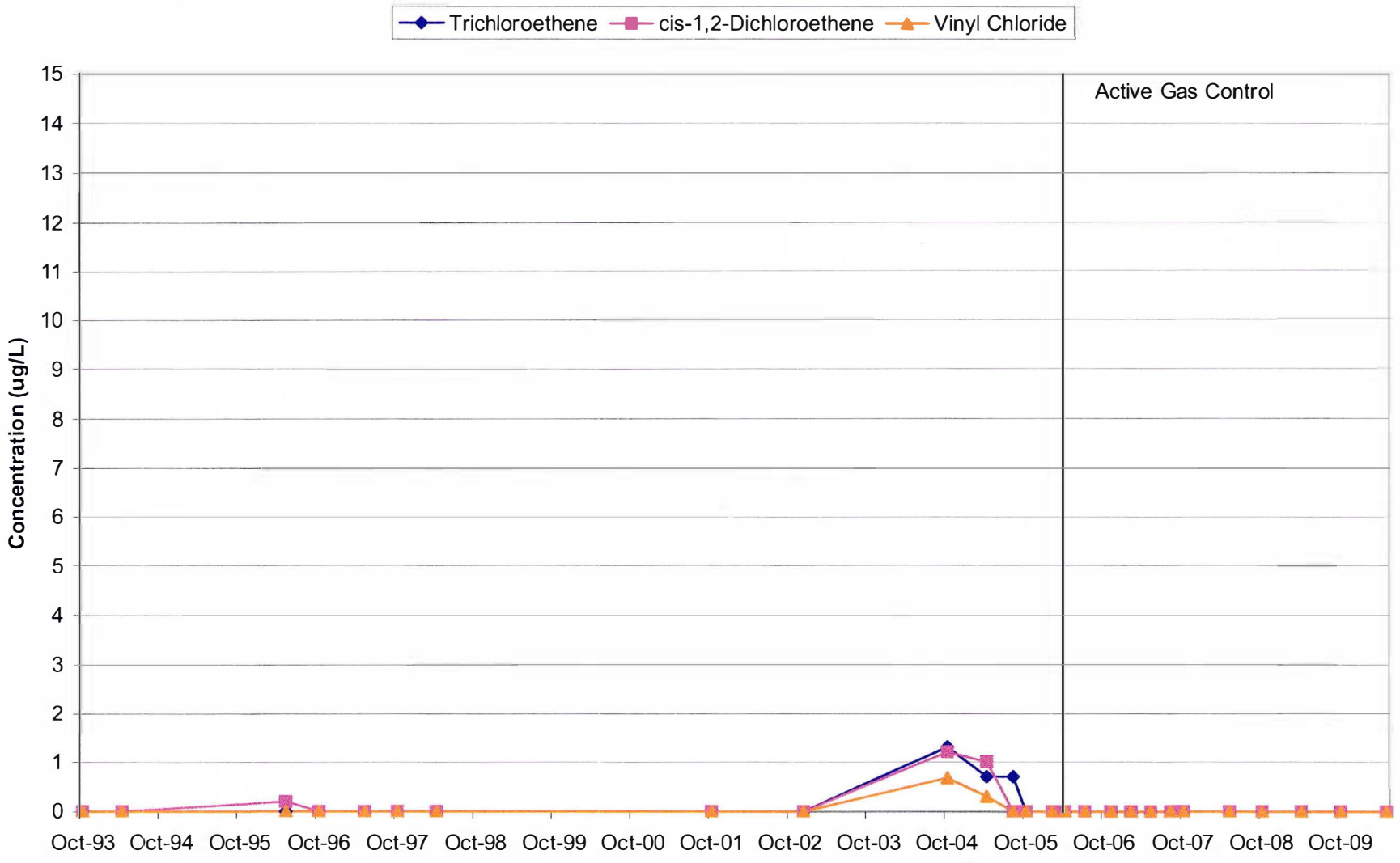

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Chart 43: MW-111
Layer 1 Well

900' Down gradient

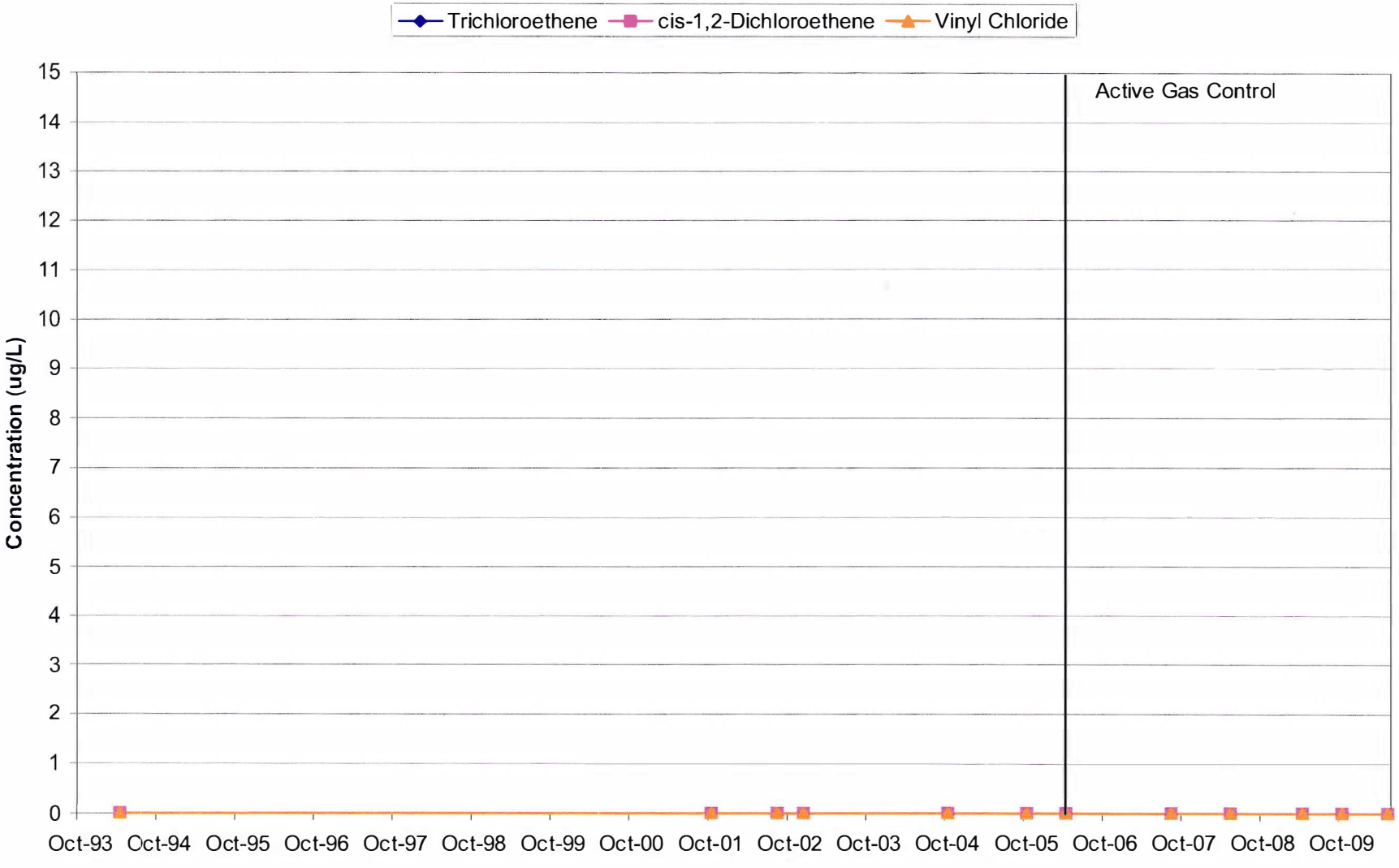

Chart 44: MW-112
Layer 1 Well

50' Down gradient

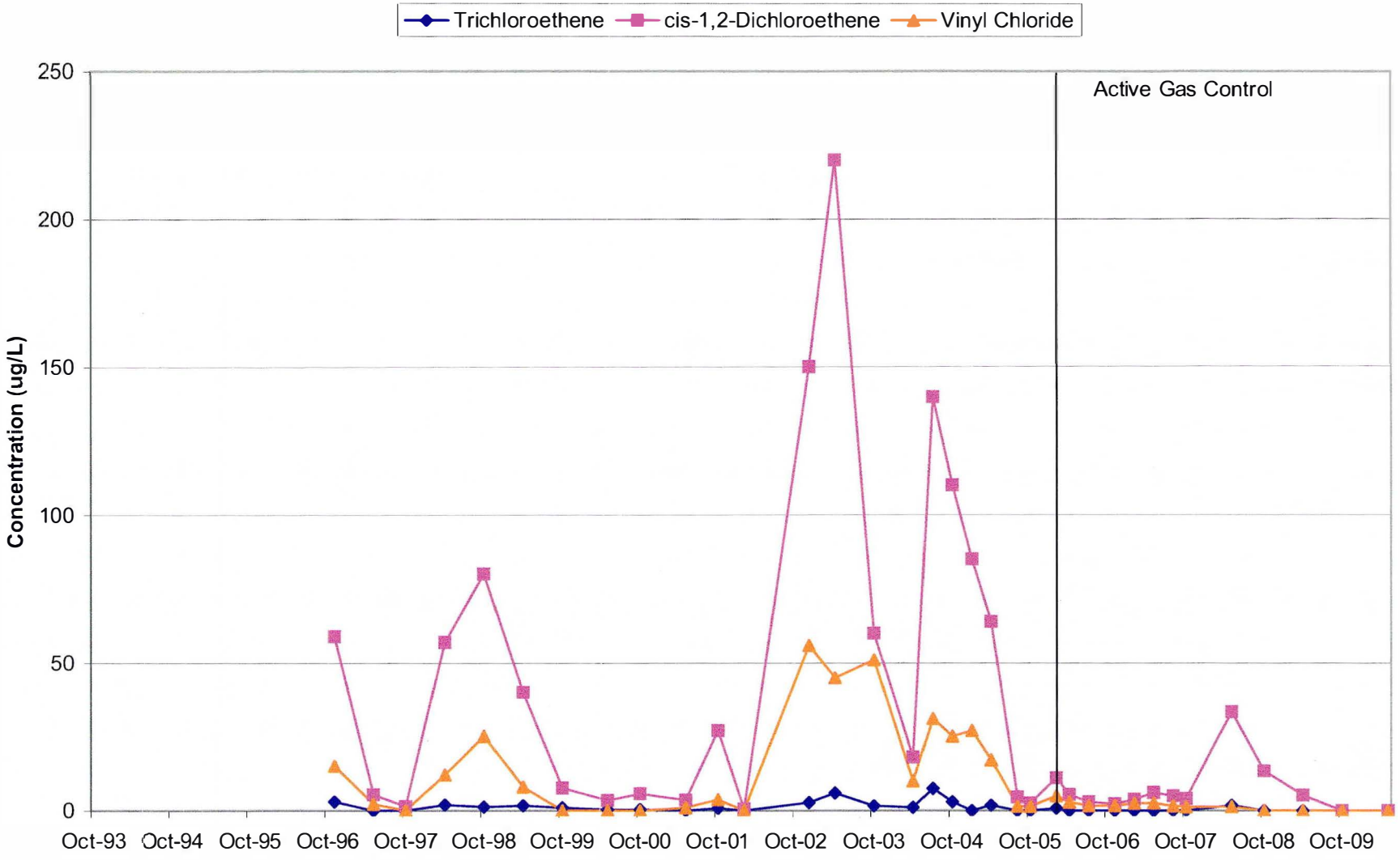

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Chart 45: P-101
Layer 2 Well

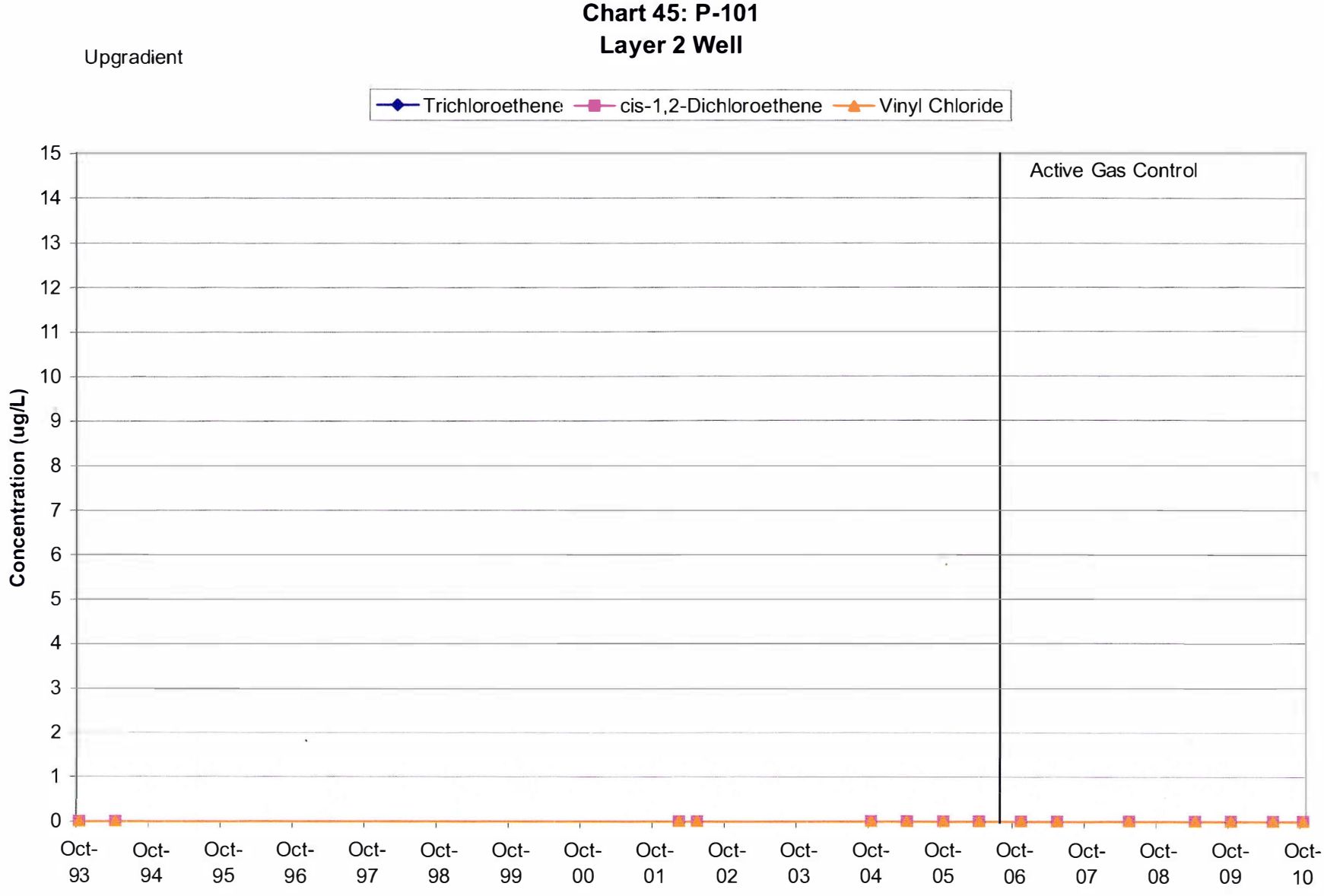

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Chart 46: P-102
Layer 2 Well

Side gradient

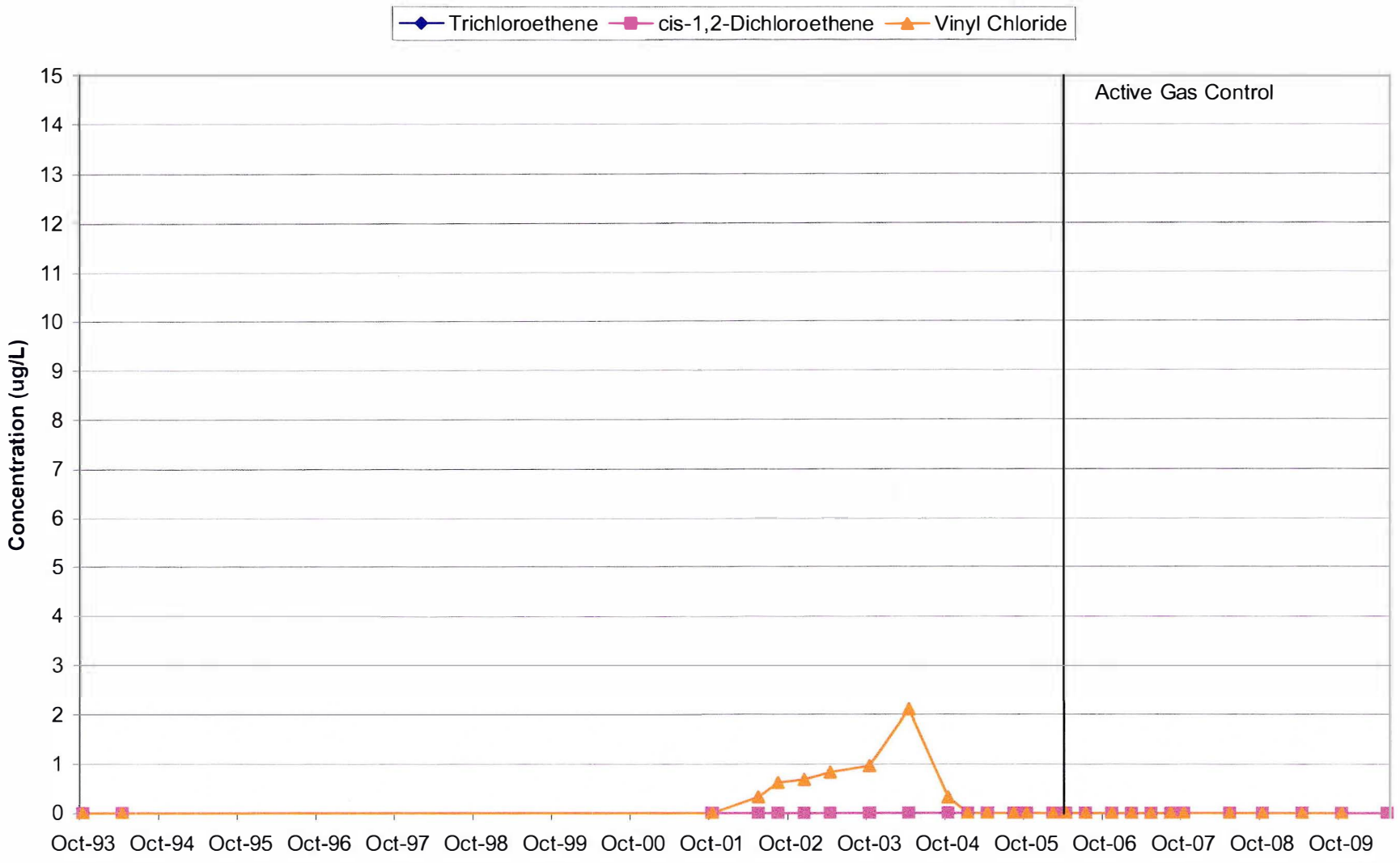

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Chart 47: P-103
Layer 2 Well

10' Down gradient

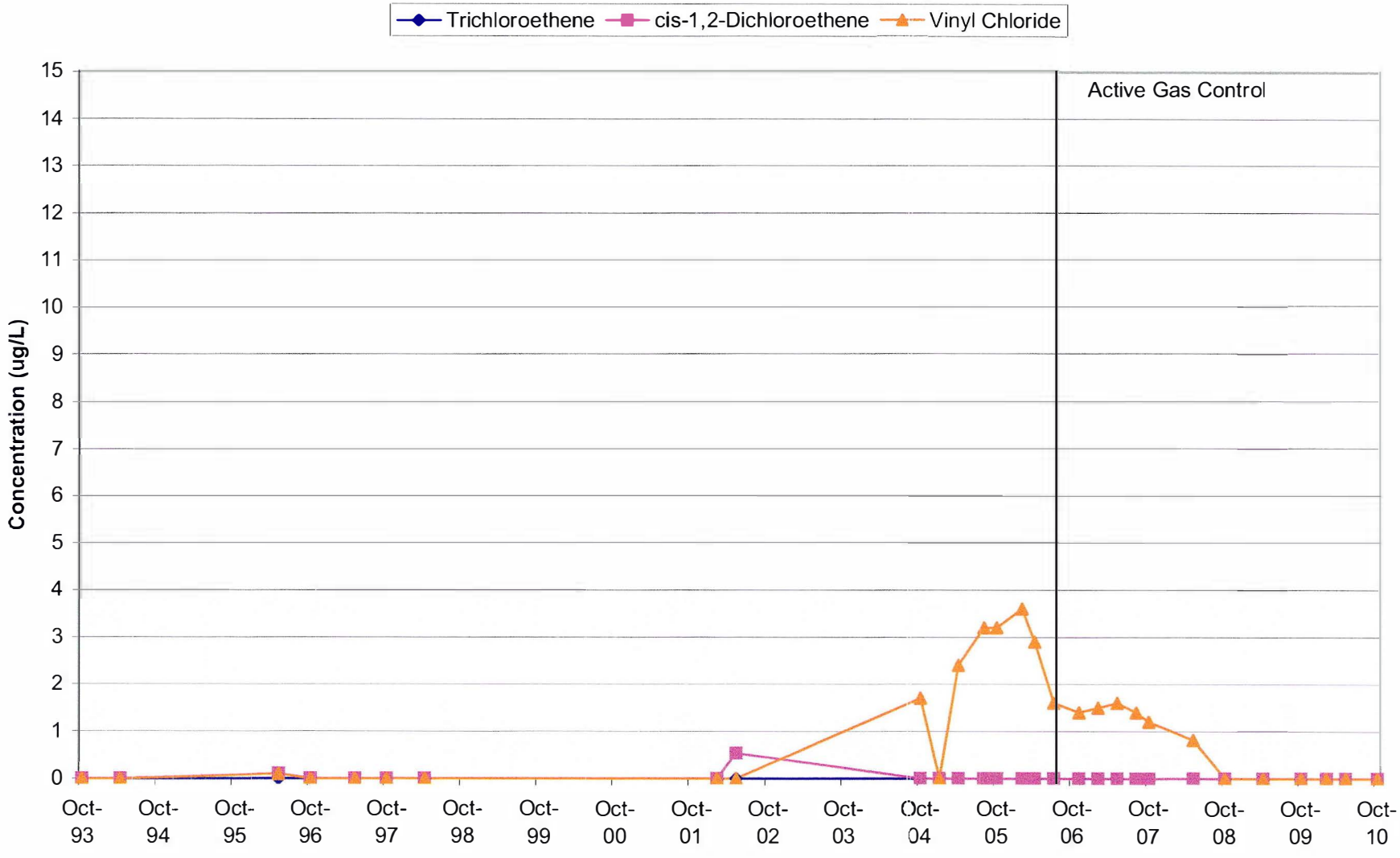

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Chart 48: P-104
Layer 2 Well

Side gradient

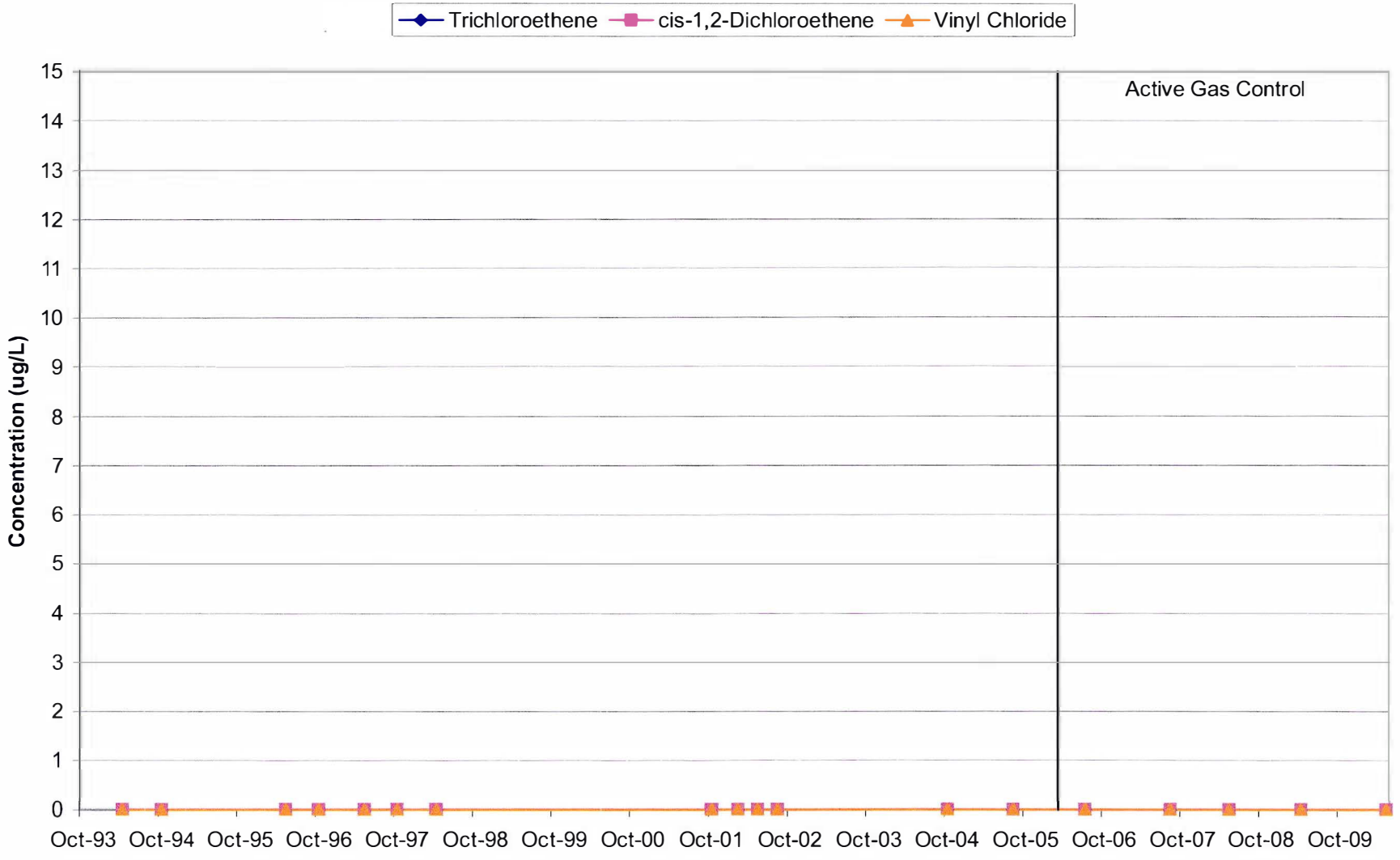

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Chart 49: P-106
Layer 2 Well

Side gradient

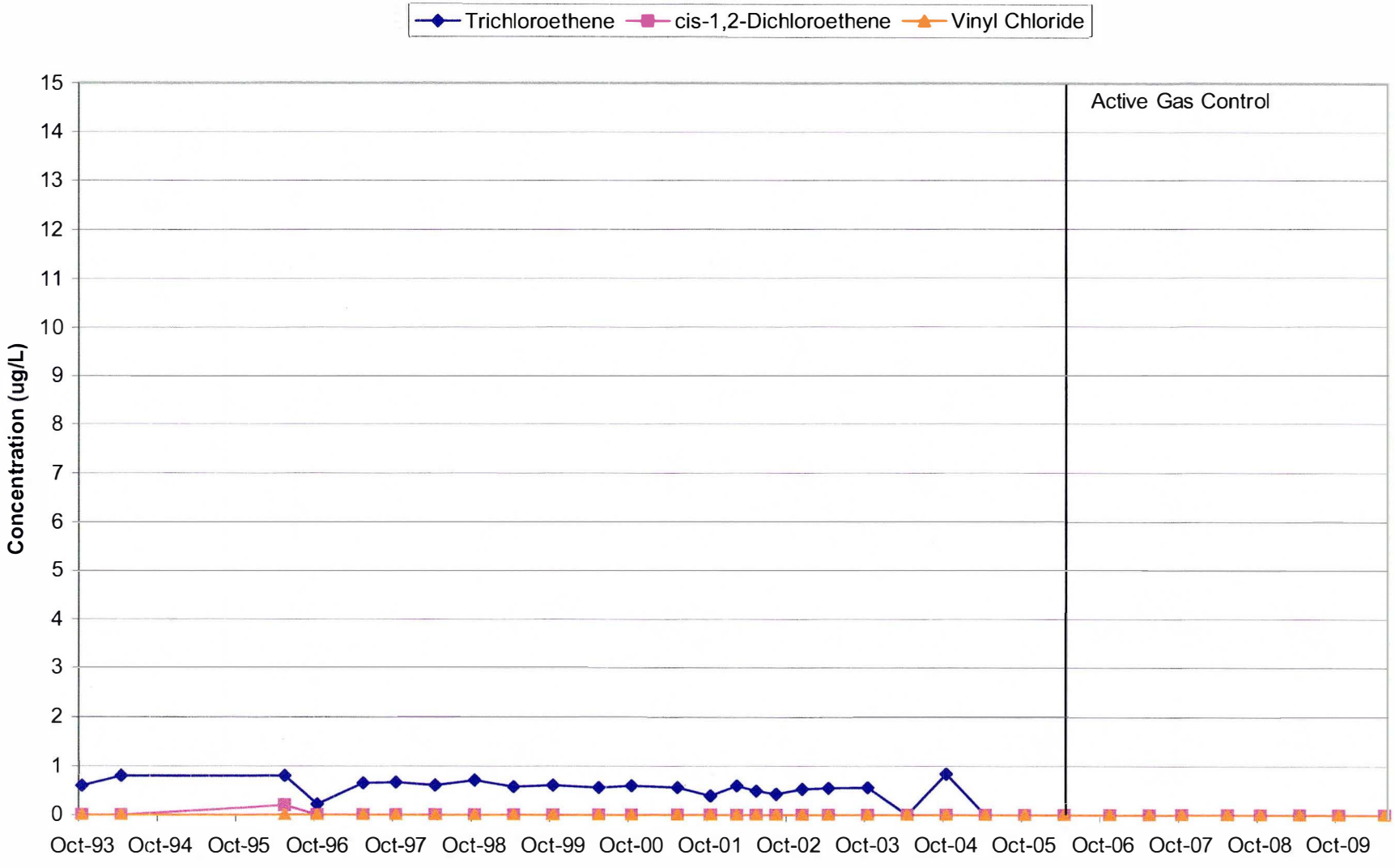

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Chart 50: P-107
Layer 2 Well

370' Down gradient

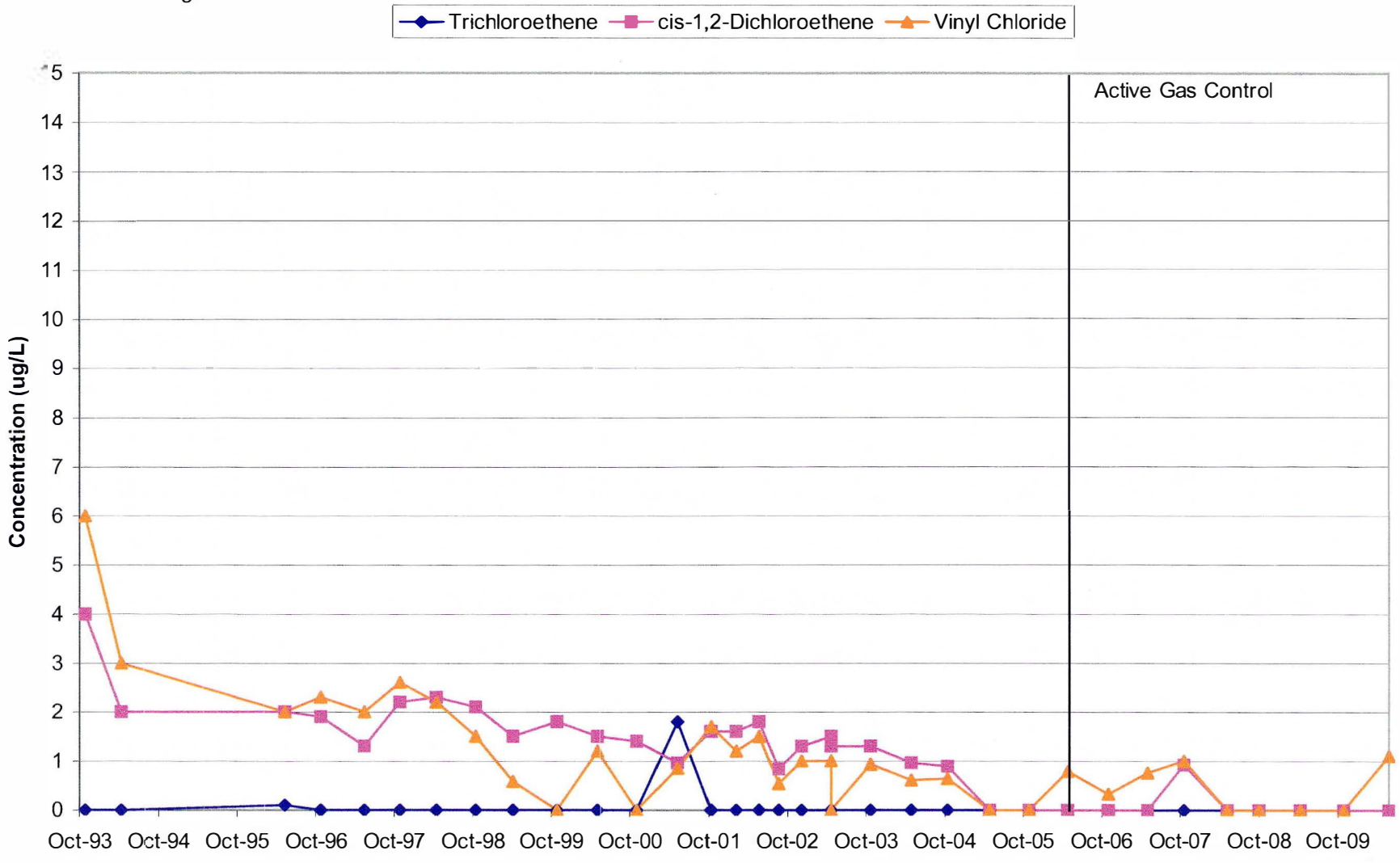

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Chart 51: P-108
Layer 2 Well

Side gradient

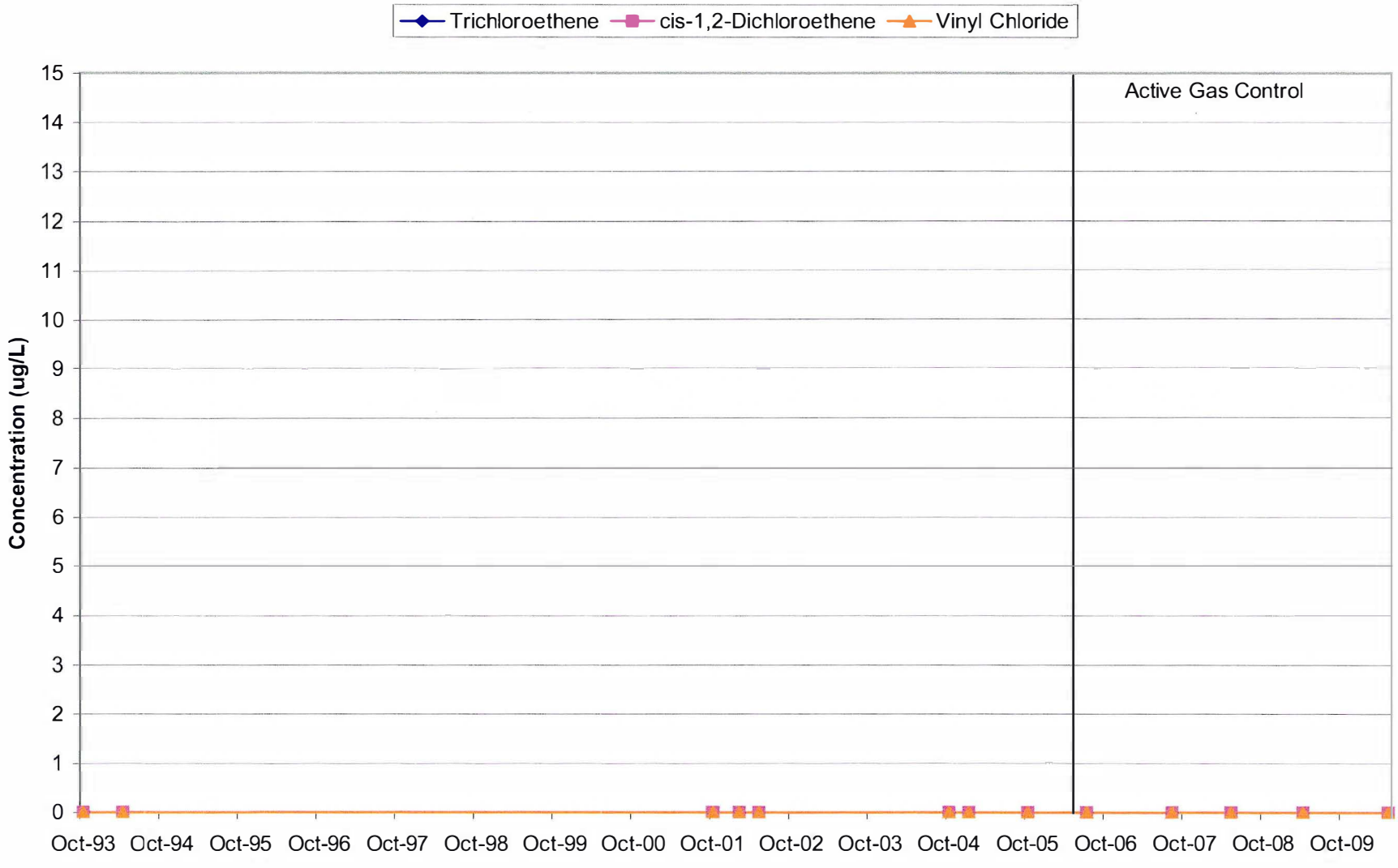

Chart 52: P-111
Layer 2 Well

900' Down gradient

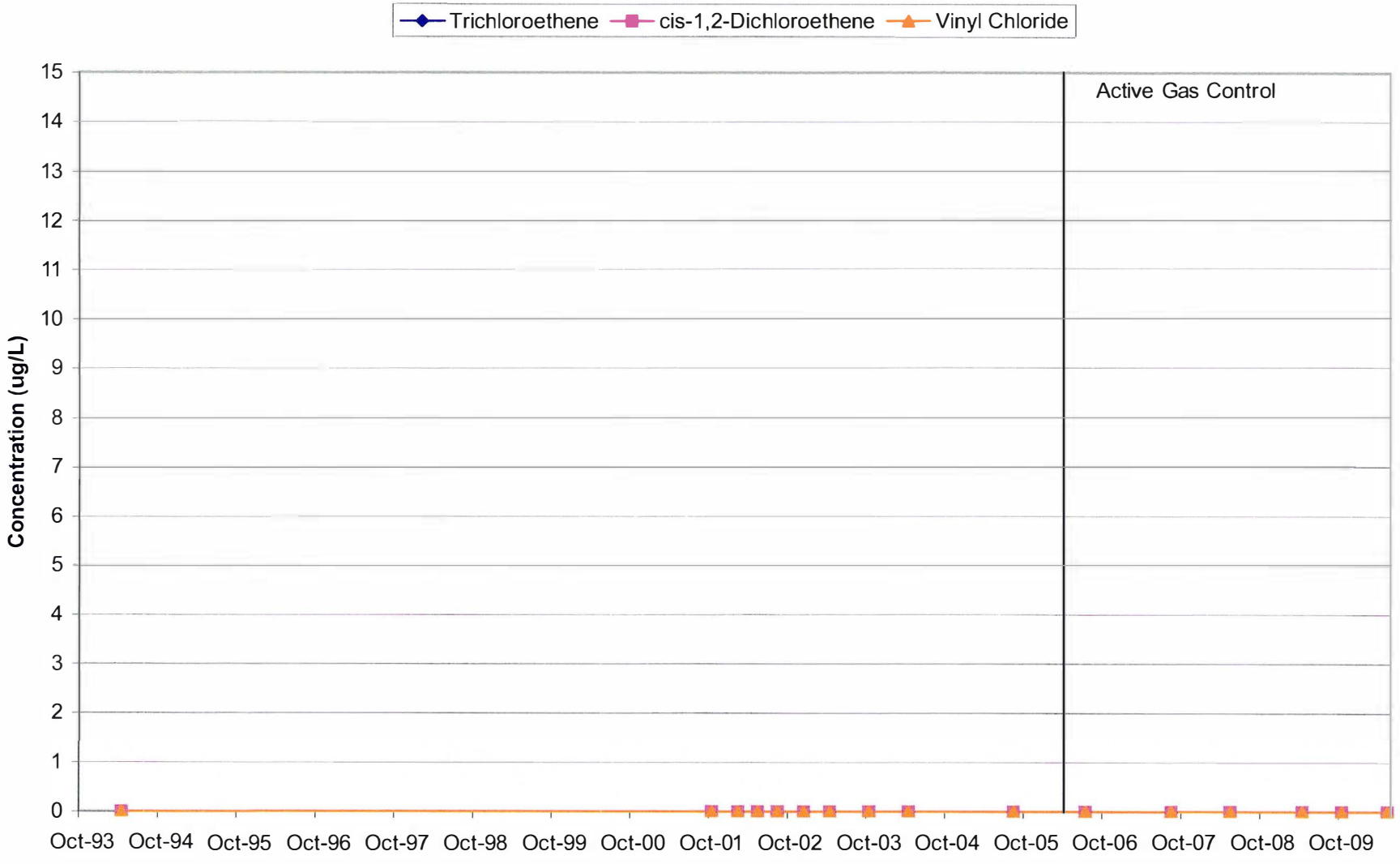

Chart 53: P-103D
Layer 3 Well

10' Down gradient

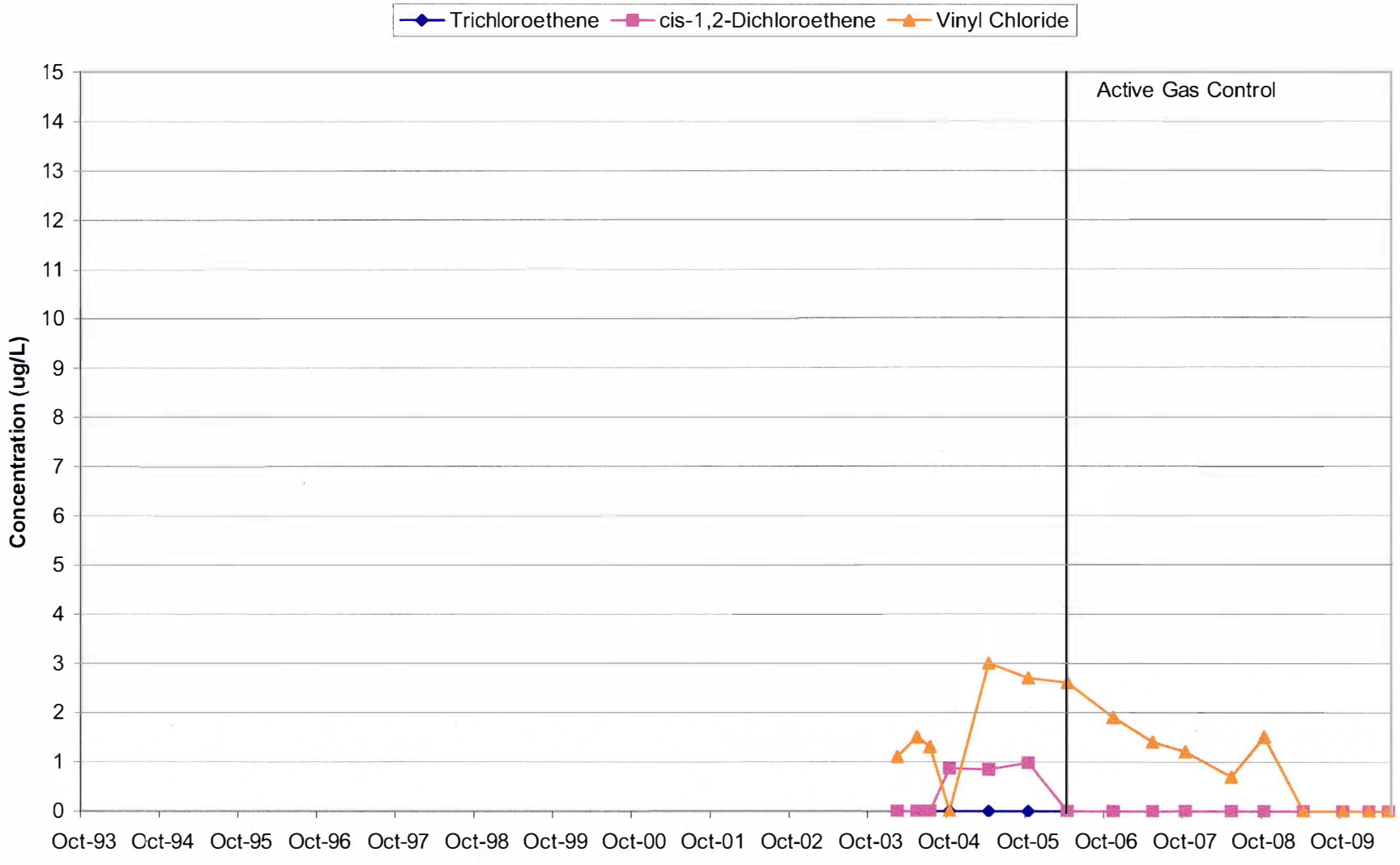

Chart 54: P-111D
Layer 3 Well

900' Down gradient

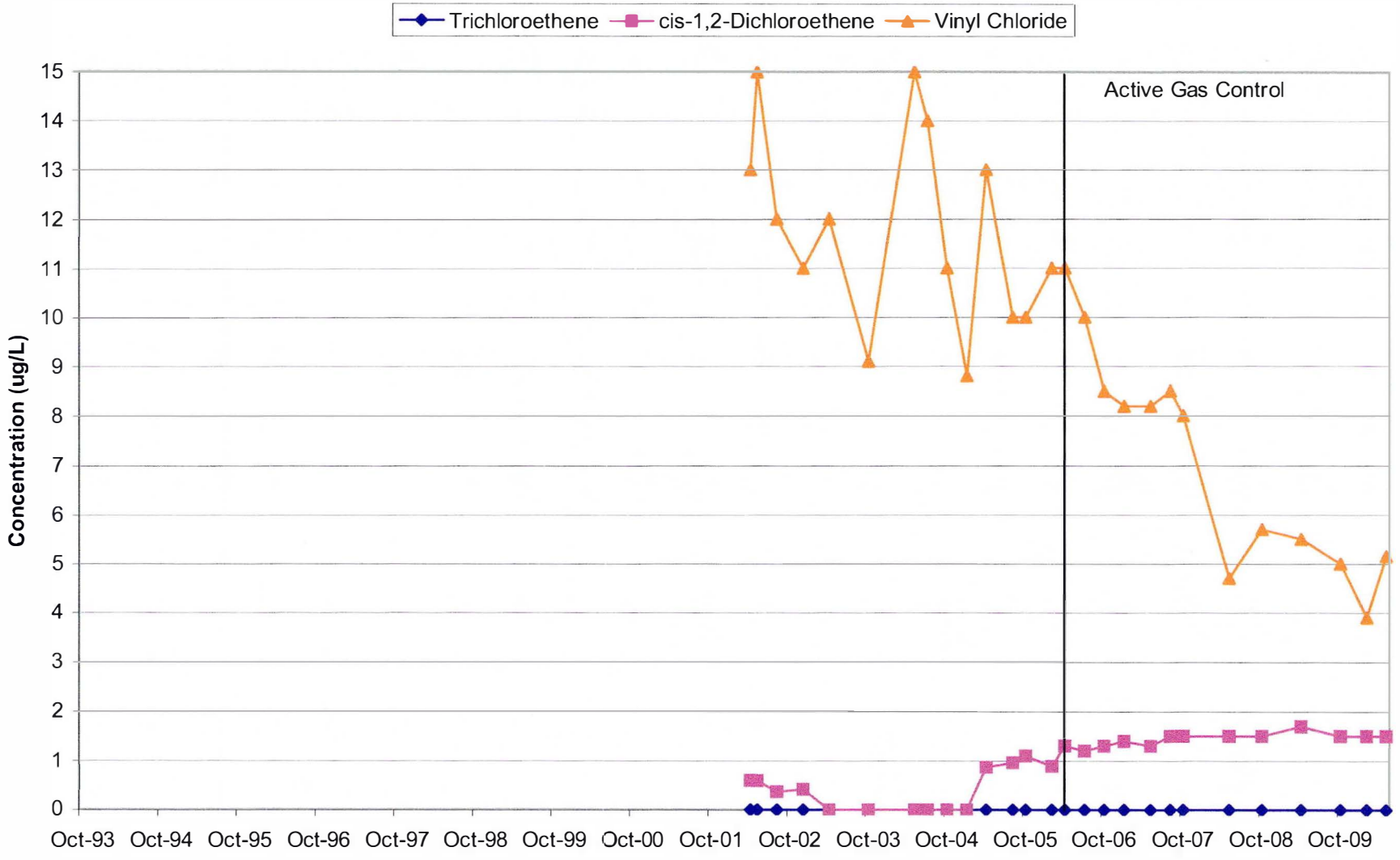

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Chart 55: MW-3B
Layer 3 Well

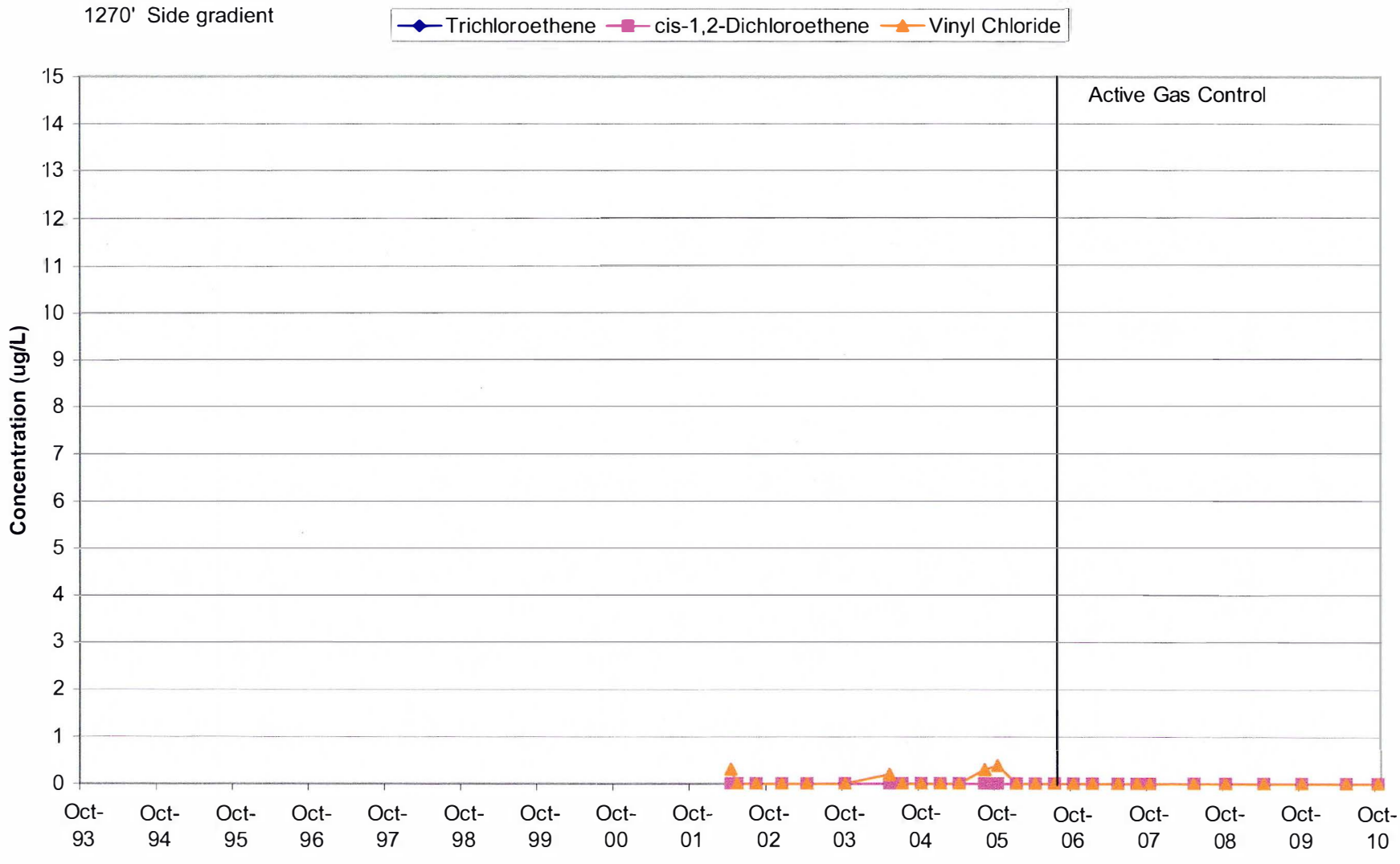

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Chart 56: P-113B
Layer 3 Well

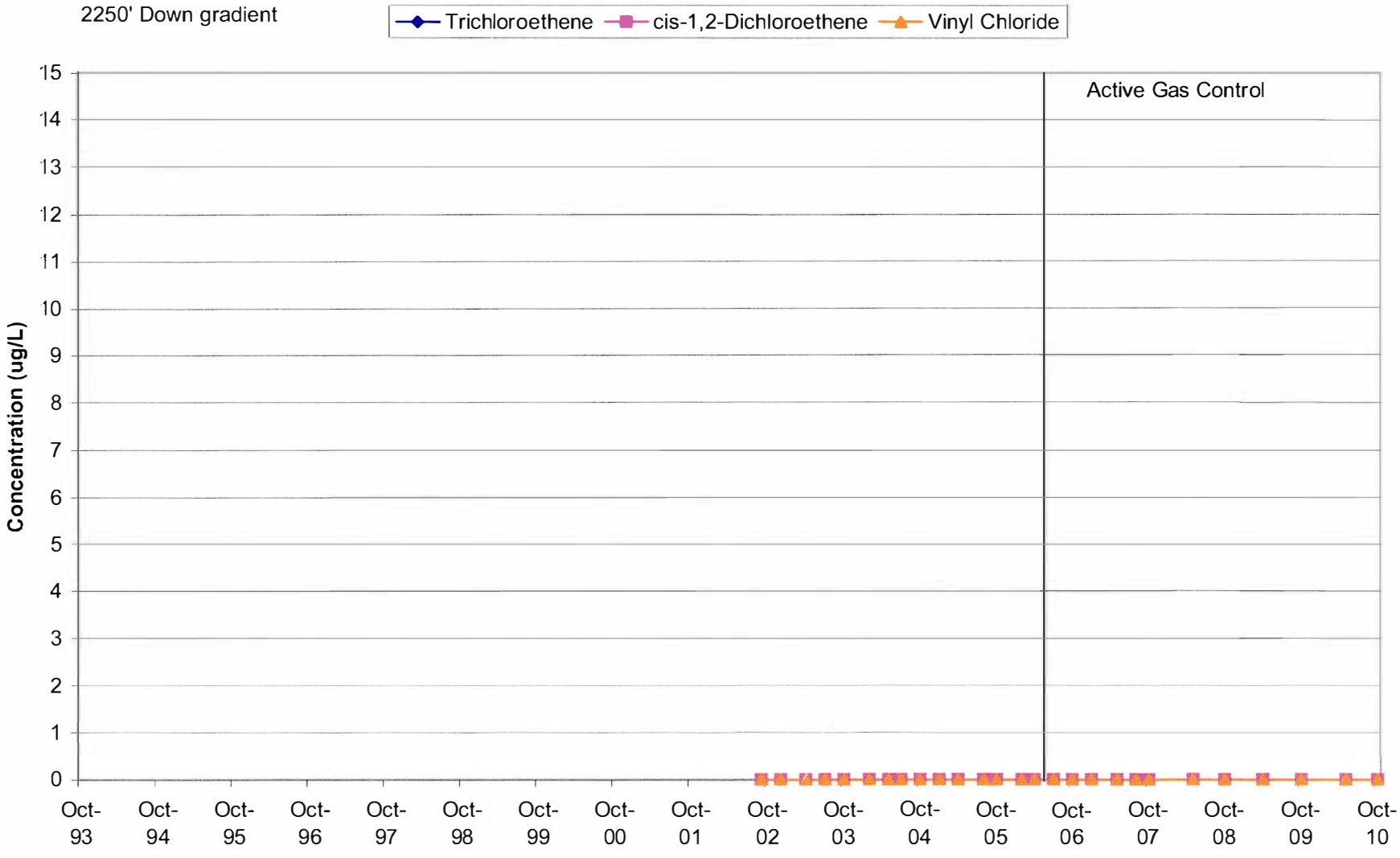

Chart 57: P-114
Layer 3 Well

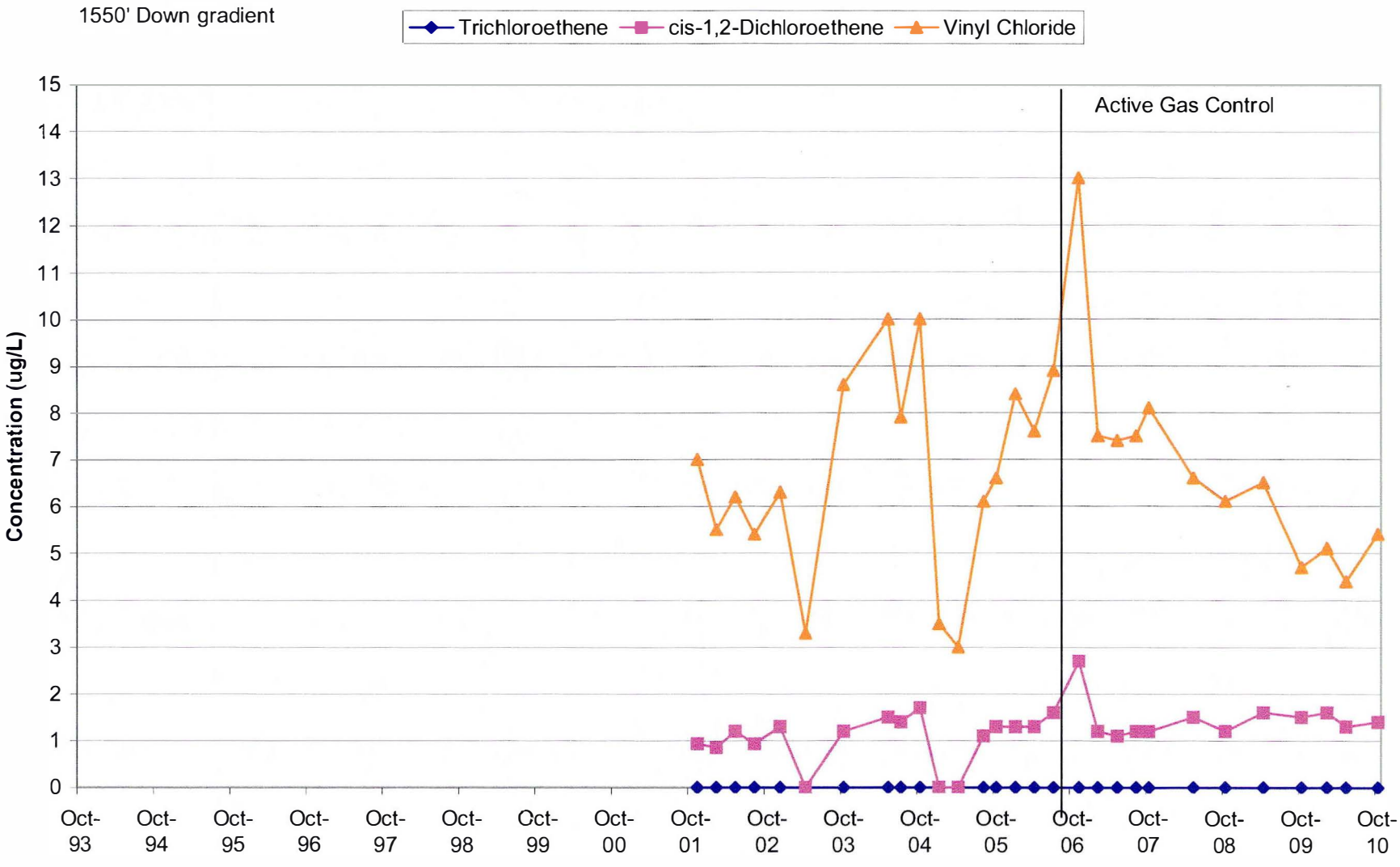

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Chart 58: P-115
Layer 3 Well

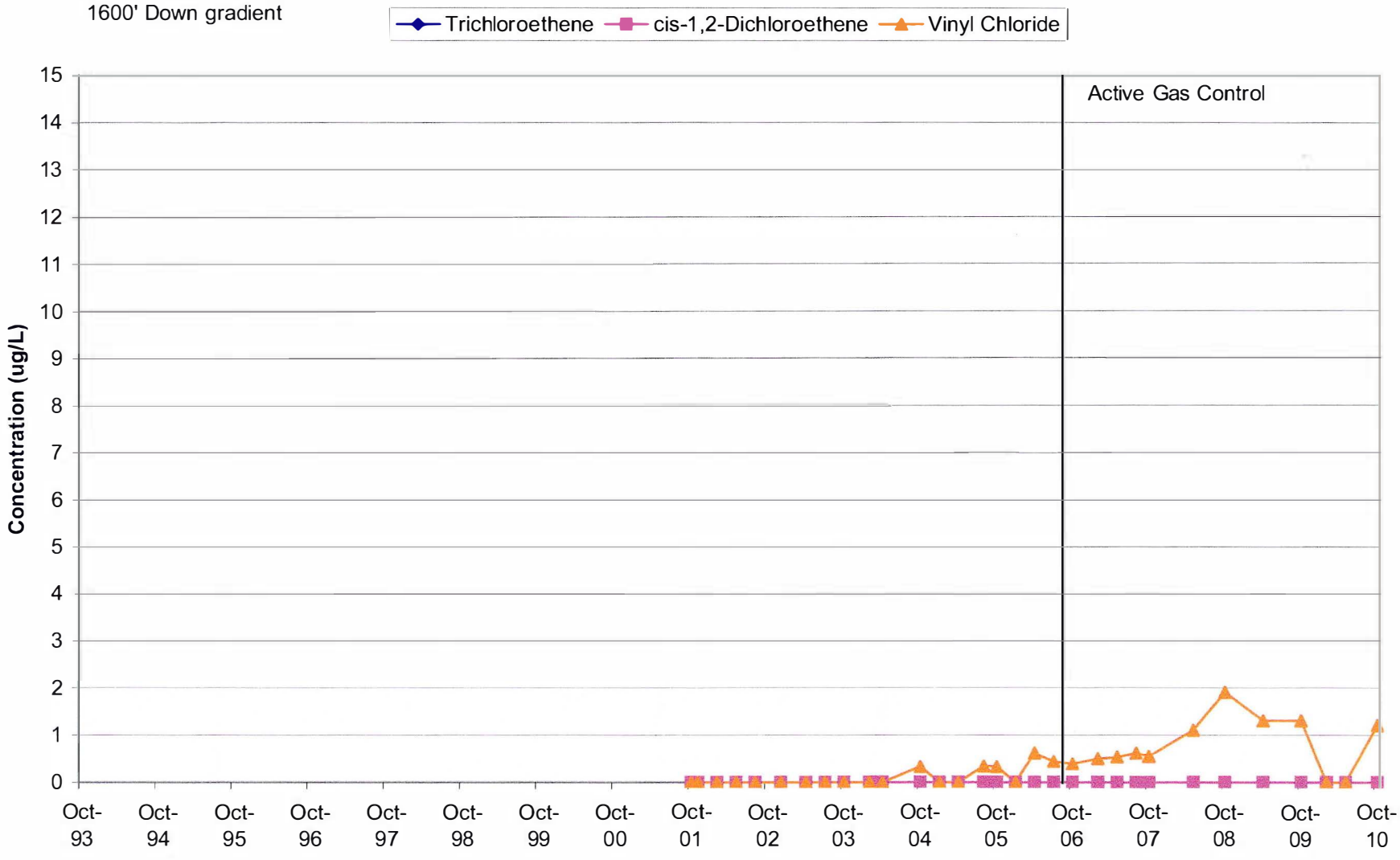

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Chart 59: P-116
Layer 3 Well

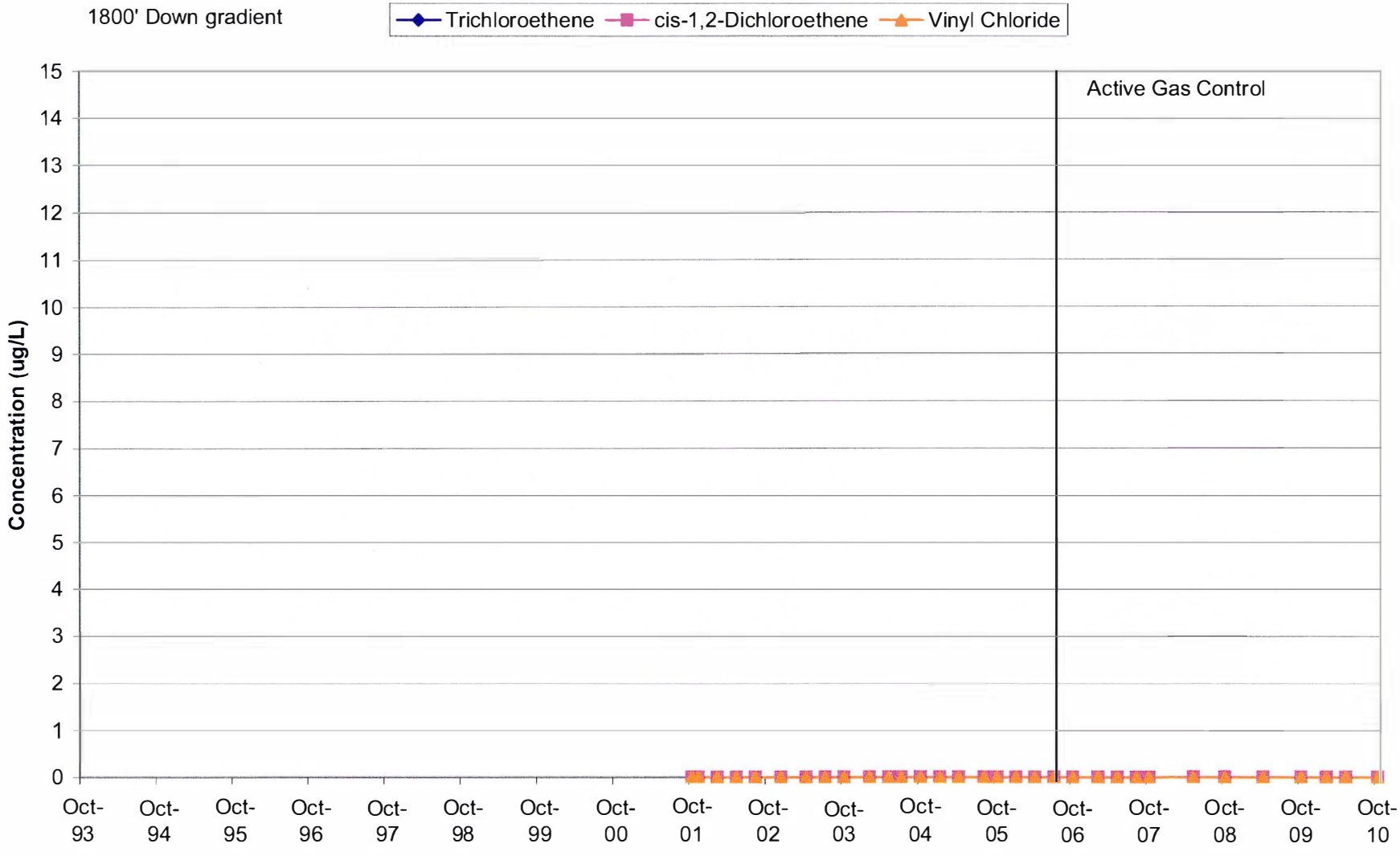

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Chart 60: MW-3A
Layer 4 Well

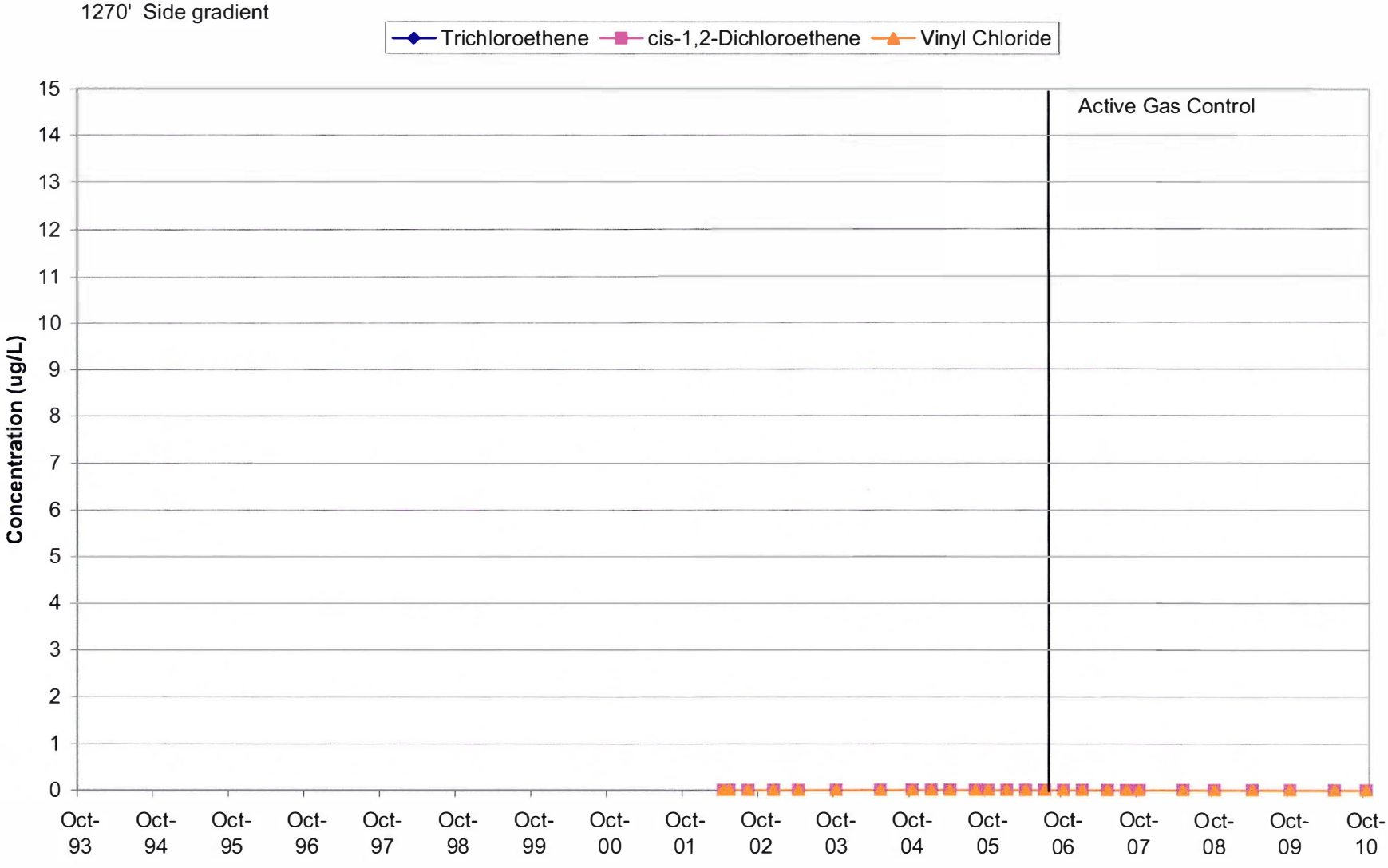

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Chart 61: P-107D
Layer 4 Well

370' Down gradient

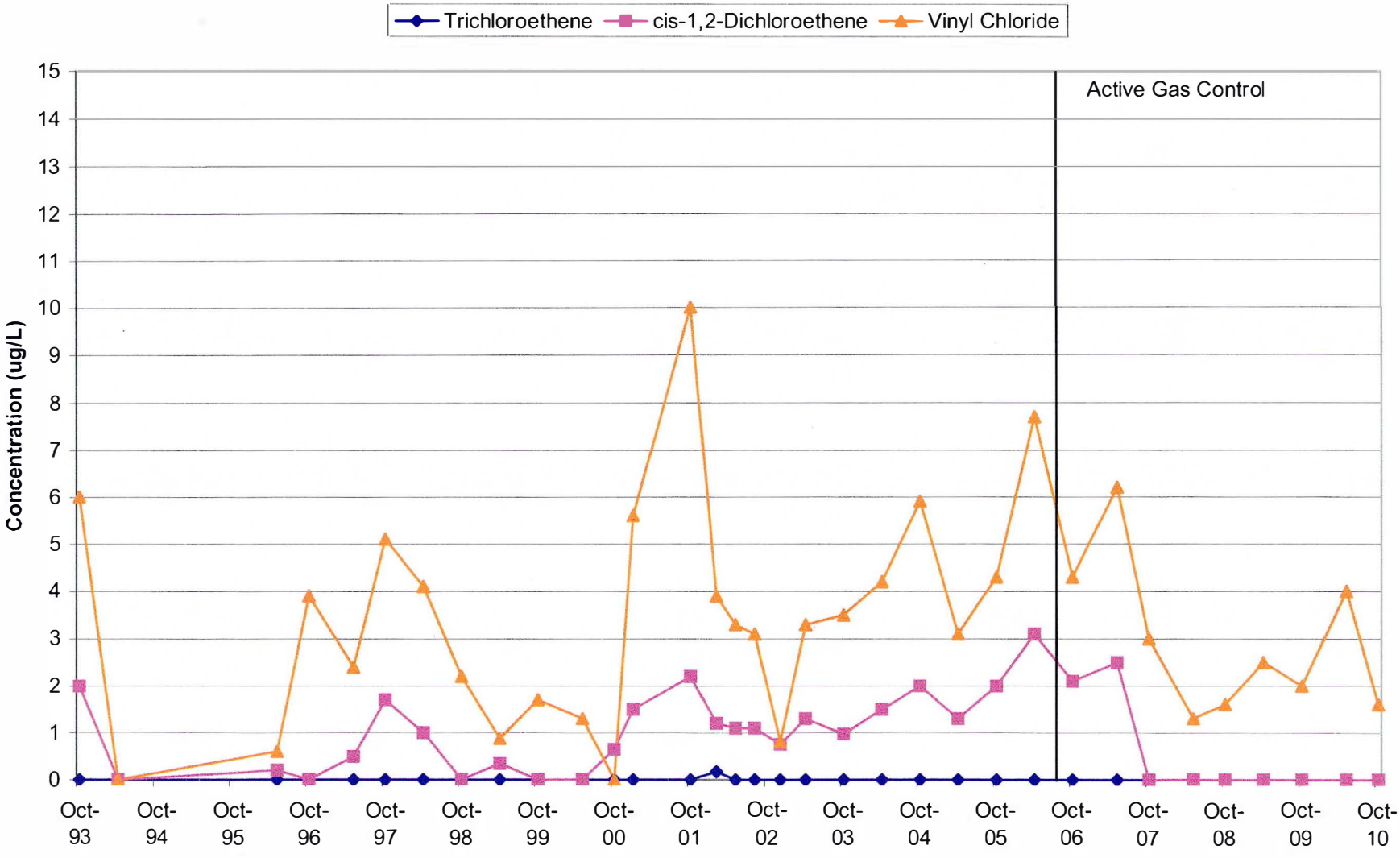

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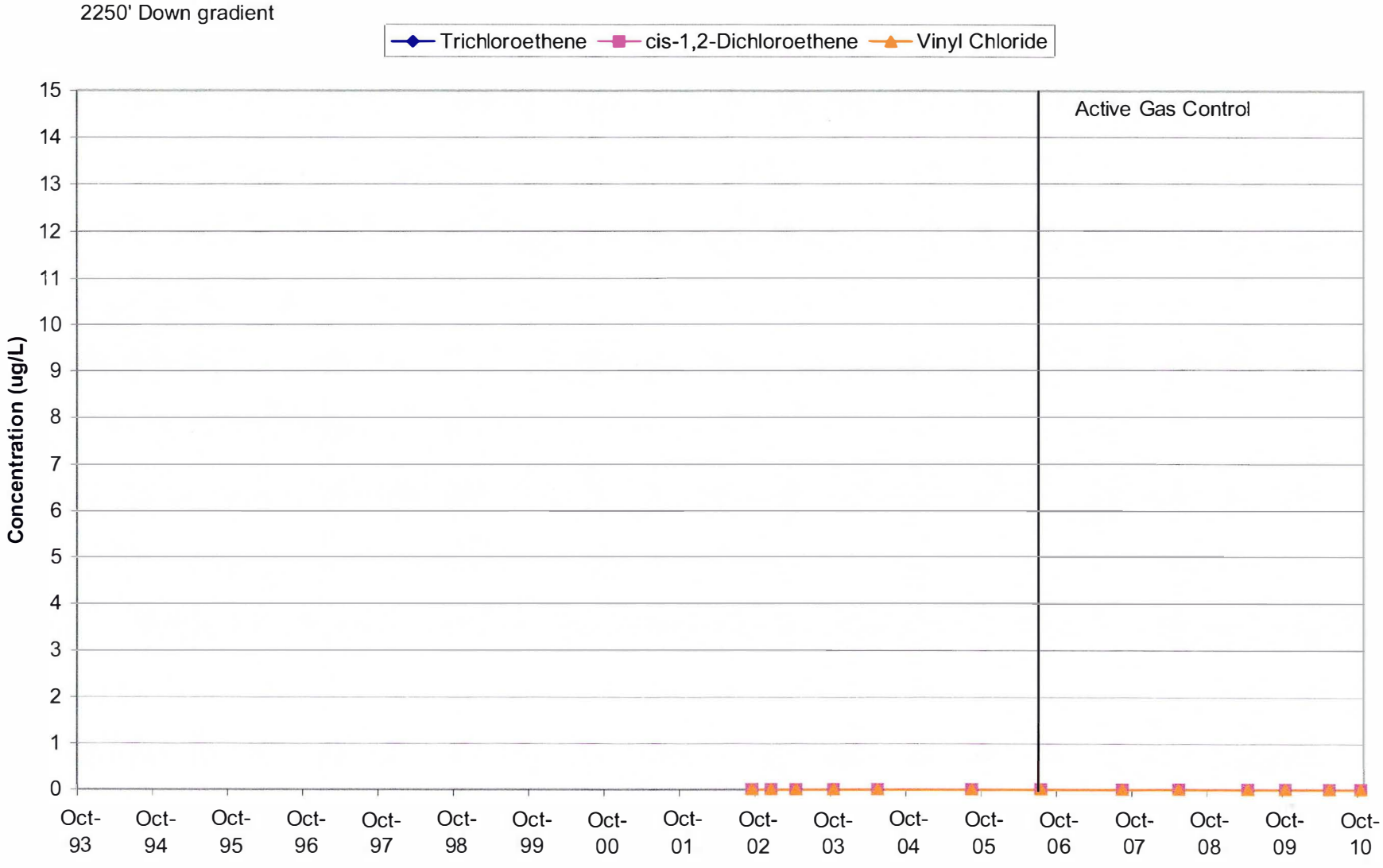
Chart 62: P-113A
Layer 4 Well



P:\Ripon_Landfill\Reports & Corresp\Status Reports to WDNR\2010\Oct 2010\Tables\Groundwater VOC Trends.xls

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

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

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	876.15	NM	845.89
LC2	866.05	839.47	839.52	838.45	NM	838.63	NM	866.05	NM	837.81
LC3	877.34	845.89	845.87	844.68	NM	846.12	NM	877.34	NM	845.28

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

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

Well Name	TOC Elevation	May-10	Sep-10
MW-101	884.80	823.43	823.29
P-101	885.26	823.37	823.25
MW-102	843.05	823.77	823.66
P-102	842.99	823.8	823.71
MW-103	872.42	821.25	821.32
P-103	872.92	823.34	823.19
P-103D	873.08	822.575	822.35
MW-104	875.15	823.25	823.12
P-104	875.48	823.41	823.3
MW-106	878.90	823.72	823.6
P-106	878.91	823.64	823.52
MW-107	871.78	819.59	819.85
P-107	871.38	819.62	819.82
P-107D	871.98	819.68	818.85
MW-108	845.25	818.27	818.39
P-108	845.61	821.53	821.66
MW-111	856.46	818.07	818.3
P-111	856.13	817.61	817.88
P-111D	855.79	820.41	820.16
MW-112	874.55	820.13	820.24
P-113A	833.09	819.09	818.24
P-113B	833.10	819.27	818.88
P-114	839.35	819.12	819
P-115	842.71	819.205	819.13
P-116	845.34	818.055	817.85
MW-3A	850.77	819.92	818.91
MW-3B	851.04	821	820.59
LC1	876.15	843.73	NM
LC2	866.05	838.96	NM
LC3	877.34	845.67	NM

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)	sec-Butylbenzene	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	Isopropylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	1,2,4-Trichlorobenzene	Trichloroethene	Trichlorofluoromethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	NE	0.5	12	0.5	10	200	14	0.5	NE	96		0.02	1000
	ES	1000	5	10	460	NE	NE	400	6	3	75	1000	850	5	7	70	100	5	700	NE	5	60	5	50	1000	70	5	NE	480		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 Q																					
	10/31/06																														
	01/31/07																														
	5/1/2007																														
	8/8/2007																														
	10/19/2007																														
	5/6/2008																														
	10/1/2008																														
	4/7/2009																														
	10/28/2009																														
	5/24/2010																														
	10/5/2010																														

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)	sec-Butylbenzene	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	1,4-dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-dichloroethane	1,1-Dichloroethene	cis-1,2-dichloroetheine	trans-1,2-Dichloroethene	1,2-dichloropropane	Ethylbenzene	Isopropylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	1,2,4-Trichlorobenzene	Trichloroethene	Trichlorofluoromethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	NE	0.5	12	0.5	10	200	14	0.5	NE	96		0.02	1000
	ES	1000	5	10	460	NE	NE	400	6	3	75	1000	850	5	7	70	100	5	700	NE	5	60	5	50	1000	70	5	NE	480		0.2	10000
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 Q**	
	07/22/2004																															
	10/14/2004																															
	1/27/2005																															
	4/26/2005																															
	8/2/2005																														**0.30 Q**	
	10/26/2005																														**0.39 Q**	
	01/31/2006																															
	4/24/2006																															
	7/27/2006									0.45 Q																						
	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																															
	5/24/2010																															
	10/5/2010																															

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)	sec-Butylbenzene	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	Isopropylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	1,2,4-Trichlorobenzene	Trichloroethene	Trichlorofluoromethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	NE	0.5	12	0.5	10	200	.14	0.5	NE	96		0.02	1000
	ES	1000	5	10	460	NE	NE	400	6	3	75	1000	850	5	7	70	100	5	700	NE	5	60	5	50	1000	70	5	NE	480		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	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	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	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	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	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																															

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)	sec-Butylbenzene	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	Isopropylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	1,2,4-Trichlorobenzene	Trichloroethene	Trichlorofluoromethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	NE	0.5	12	0.5	10	200	14	0.5	NE	96		0.02	1000
	ES	1000	5	10	460	NE	NE	400	6	3	75	1000	850	5	7	70	100	5	700	NE	5	60	5	50	1000	70	5	NE	480		0.2	10000
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																															
	5/25/2010																															
	10/4/2010																															
MW-102	10/26/1993	NR																														
	04/11/1994	NR																							3							
	05/08/1996	NR																							0.4J							
	10/30/1996	NR								0.99 J													0.30 J									
	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	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	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	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																															

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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)	sec-Butylbenzene	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	Isopropylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	1,2,4-Trichlorobenzene	Trichloroethene	Trichlorofluoromethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	NE	0.5	12	0.5	10	200	14	0.5	NE	96		0.02	1000
	ES	1000	5	10	460	NE	NE	400	6	3	75	1000	850	5	7	70	100	5	700	NE	5	60	5	50	1000	70	5	NE	480		0.2	10000
P-102	10/26/1993	NR																														
	04/11/1994	NR																														
	10/11/2001	NR																														
	05/21/2002	NR			NA																			NA							**0.33Q**	
	08/20/2002	NR																						NA							**0.62**	
	12/04/2002	NR																													**0.68**	
	04/21/2003																				0.48 Q&										**0.83**	
	10/22/2003																														**0.96**	
	04/27/2004																														**2.1**	
	10/14/2004									0.5 ●																					**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 Q																						
	11/1/2006																															
	2/15/2007																															
	5/2/2007																															
	8/14/2007																															
	10/16/2007	2.9 Q																														
	5/6/2008																															
	10/2/2008																															
	4/8/2009																															
	11/4/2009																															
	11/4/2009 Dup																															
	5/20/2010																															

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)	sec-Butylbenzene	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	Isopropylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	1,2,4-Trichlorobenzene	Trichloroethene	Trichlorofluoromethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	NE	0.5	12	0.5	10	200	14	0.5	NE	96		0.02	1000
	ES	1000	5	10	460	NE	NE	400	6	3	75	1000	850	5	7	70	100	5	700	NE	5	60	5	50	1000	70	5	NE	480		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	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	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	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	NA	NA	NA	NA	NA
	10/21/2003		0.8				1.3									58	1.9										1.7				**21**	
	04/28/2004		0.61 Q		26		0.53 Q									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 Q		0.62 Q									5.2											0.48 Q				**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	NA	NA	NA	NA	NA
	2/1/2007				6.1Q											10											0.82Q				**0.34**	
	5/2/2007						1.7									14											1.7				**0.75**	
	10/18/2007															26											2.8				**2.2**	
	5/5/2008															15.7											3.4					
	10/2/2008															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											2.4					

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)	sec-Butylbenzene	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	1,4-dichlorobenzene	Dichlorodifluoroethane	1,1-Dichloroethane	1,2-dichloroethane	1,1-Dichloroethene	cis-1,2-dichloroethene	trans-1,2-Dichloroethene	1,2-dichloropropane	Ethylbenzene	Isopropylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	1,2,4-Trichlorobenzene	Trichloroethene	Trichlorofluoromethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	NE	0.5	12	0.5	10	200	14	0.5	NE	96		0.02	1000
	ES	1000	5	10	460	NE	NE	400	6	3	75	1000	850	5	7	70	100	5	700	NE	5	60	5	50	1000	70	5	NE	480		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 Q																					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 Q																					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																															
	10/2/2008 Dup																															
	4/7/2009																															
	10/28/2009																															
	2/25/2010																															
	5/24/2010																															
	10/5/2010																															

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)	sec-Butylbenzene	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	Isopropylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	1,2,4-Trichlorobenzene	Trichloroethene	Trichlorofluoromethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	NE	0.5	12	0.5	10	200	14	0.5	NE	96		0.02	1000
	ES	1000	5	10	460	NE	NE	400	6	3	75	1000	850	5	7	70	100	5	700	NE	5	60	5	50	1000	70	5	NE	480		0.2	10000
P-103D	02/4/2004				NA																0.55Q			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 Q						0.86Q																
	04/26/2005															0.84 Q															3.0	
	10/26/2005															0.98 Q															2.7	
	10/26/2005 dup															0.95 Q															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																															
	4/7/2009 Dup																															
	10/28/2009									1.1																						
	2/25/2010																															
	5/24/2010																															
	10/5/2010																															

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)	sec-Butylbenzene	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	Isopropylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	1,2,4-Trichlorobenzene	Trichloroethene	Trichlorofluoromethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	NE	0.5	12	0.5	10	200	14	0.5	NE	96		0.02	1000
	ES	1000	5	10	460	NE	NE	400	6	3	75	1000	850	5	7	70	100	5	700	NE	5	60	5	50	1000	70	5	NE	480		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						0.2 J		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				0.26	0.51L			0.8I	0.13		0.66				8.6	
	10/11/2001	NR	3.1				9.5				2.3				0.85	2					0.39L				0.1				0.14		2.2	
	02/5/2002	NR	2.7		NA	0.16	8				2	0.19				5.1				0.23				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	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	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	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	NA	NA	NA	NA	NA
	04/22/2003		1.8		6.9Q		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				2.2 Q					6.4															8.7	
	10/13/2004		2.5				6.5				2.2 Q					10															20	
	4/27/2005		1.7				5.4				2.1 Q																				0.64	
	10/25/2005		1.4				6.9				2.5 Q					3.9															13	
	4/25/2006		1.4		4.6 Q		4.9				2.2 Q					1.0 Q															1.1	
	11/2/2006		1.2 Q				4.8				1.7 Q																					
	11/2/2006 dup		1.3 Q				5																									
	5/2/2007		0.8Q				4				2.0Q																					
	10/18/2007		0.75 Q				6				2.0 Q																					
	5/6/2008						3.3				1.8																					
	10/1/2008						3.7				1.9																					
	4/7/2009						3.5				2.3																					
	11/4/2009						3.9				1.9																					
	5/20/2010						3.5				2.4																					

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)	sec-Butylbenzene	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	Isopropylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	1,2,4-Trichlorobenzene	Trichloroethene	Trichlorofluoromethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	NE	0.5	12	0.5	10	200	14	0.5	NE	96		0.02	1000
	ES	1000	5	10	460	NE	NE	400	6	3	75	1000	850	5	7	70	100	5	700	NE	5	60	5	50	1000	70	5	NE	480		0.2	10000
P-104	10/27/1994	NR																														
	04/19/1994	NR																														
	05/09/1996	NR																														
	10/30/1996	NR								0.20 J																						
	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 Q																						
	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																															
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	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	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	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	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	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	NA	NA	NA	NA	NA
	2/15/2007																															
	8/14/2007																															
	4/30/2008																															
	4/8/2009																															
	5/20/2010																															

[redacted] [redacted]

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)	sec-Butylbenzene	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	Isopropylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	1,2,4-Trichlorobenzene	Trichloroethene	Trichlorofluoromethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	NE	0.5	12	0.5	10	200	14	0.5	NE	96		0.02	1000
	ES	1000	5	10	460	NE	NE	400	6	3	75	1000	850	5	7	70	100	5	700	NE	5	60	5	50	1000	70	5	NE	480		0.2	10000
P-106	10/01/1993	NR																									0.6J					
	04/01/1994	NR																									0.8J					
	05/01/1996	NR														0.2 J											0.8J					
	10/01/1996	NR								0.62J																	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 Q					
	08/20/2002	NR																						NA			0.43 Q					
	12/4/2002	NR																									0.53					
	04/22/2003																										0.55 Q					
	10/21/2003																										0.56					
	10/21/03 Dup																															
	4/27/2004																															
	10/13/2004									0.9																	0.84 Q					
	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																															

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

Sampling Point	Collection Date	Acetone[1]	Benzene	Bromomethane	2-Butanone (MEK)	sec-Butylbenzene	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	Isopropylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	1,2,4-Trichlorobenzene	Trichloroethene	Trichlorofluoromethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	Total Xylenes
		Parameters																														
WDNR NR140	PAL	200	0.5	1	90	NE	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	NE	0.5	12	0.5	10	200	14	0.5	NE	96		0.02	1000
	ES	1000	5	10	460	NE	NE	400	6	3	75	1000	850	5	7	70	100	5	700	NE	5	60	5	50	1000	70	5	NE	480		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	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	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	NA	NA	NA	NA	NA
	4/21/2003																				0.52Q						1.2					
	10/21/2003																										2.2					
	4/27/2004																										1.9					
	10/13/2004									0.63 Q																	0.65 Q					
	4/27/2005																										1.1					
	10/27/2005																										0.79 Q					
	4/25/2006																				0.49 Q						0.55 Q					
	10/31/2006																															
	5/1/2007																										0.86					
	10/17/2007																										0.53 Q					
	5/5/2008																															
	10/1/2008																															
	4/7/2009																															
	10/28/2009									1.6																						
	5/24/2010																															
	10/4/2010																															

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)	sec-Butylbenzene	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	Isopropylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	1,2,4-Trichlorobenzene	Trichloroethene	Trichlorofluoromethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	NE	0.5	12	0.5	10	200	14	0.5	NE	96		0.02	1000
	ES	1000	5	10	460	NE	NE	400	6	3	75	1000	850	5	7	70	100	5	700	NE	5	60	5	50	1000	70	5	NE	480		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	
	5/0/1996	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										0.2					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																
	10/31/00 Dup	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							0.54Q	
	12/4/2002	NR														1.3															1	
	4/21/2003															1.5 Q															1	
	04/21/2003 Dup															1.3 Q																
	10/21/2003															1.3															0.93	
	4/27/2004															0.96 Q															0.61	
	10/13/2004															0.89 Q															0.64	
	10/13/04 Dup															1.1 Q																
	4/27/2005																															
	10/27/2005																															
	4/25/2006																														0.79	
	10/31/2006																														0.33Q	
	5/1/2007																														0.76	
	10/19/2007															0.92 Q															1	
	5/5/2008																															
	10/1/2008																															
	4/7/2009																															
	10/28/2009									1.6																						
	5/24/2010																														1.1	
	10/5/2010																															

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)	sec-Butylbenzene	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	Isopropylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	1,2,4-Trichlorobenzene	Trichloroethene	Trichlorofluoromethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	NE	0.5	12	0.5	10	200	14	0.5	NE	96	0.02	1000
	ES	1000	5	10	460	NE	NE	400	6	3	75	1000	850	5	7	70	100	5	700	NE	5	60	5	50	1000	70	5	NE	480	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														1														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 Q														3.3	
	10/21/2003															0.97														3.5	
	4/27/2004															1.5 Q														4.2	
	10/13/2004							1.2 Q		0.93						2.0 Q														5.9	
	4/27/2005															1.3 Q														3.1	
	4/27/05 Dup							1.9 Q								2.5														6.2	
	10/27/2005							1.2 Q								2.0 Q														4.3	
	4/25/2006							2.3 Q								3.1					0.68 L									7.7	
	10/31/2006							2.0 Q								2.1 Q														4.3	
	5/1/2007							1.6Q								2.5Q														6.2	
	5/1/2007 Dup							1.6Q								2.9														6.7	
	10/19/2007																													3	
	5/5/2008																													1.3	
	10/1/2008																													1.6	
	4/7/2009																													2.5	
	10/28/2009																													2	
	2/25/2010																													1.8	
	5/24/2010																													4	
	10/5/2010																													1.6	

[redacted] [redacted]

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)	sec-Butylbenzene	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	Isopropylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	1,2,4-Trichlorobenzene	Trichloroethene	Trichlorofluoromethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	NE	0.5	12	0.5	10	200	14	0.5	NE	96		0.02	1000
	ES	1000	5	10	460	NE	NE	400	6	3	75	1000	850	5	7	70	100	5	700	NE	5	60	5	50	1000	70	5	NE	480		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	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	NA	NA	NA	NA	NA
	12/5/2002	NR																														
	10/14/2004															1.2 Q											1.3 Q				0.67	
	4/27/2005															1.0											0.7				0.3	
	8/3/2005																										0.70 Q					
	10/25/2005																															
	02/01/2006																															
	4/28/2006																															
	7/27/2006									0.36 Q																						
	11/2/2006																															
	2/1/2007																															
	5/2/2007																															
	8/14/2007																															
	10/16/2007																															
	5/6/2008																															
	10/2/2008																															
	4/8/2009																															
	11/4/2009																															
	11/4/2009 Dup																															
	5/20/2010																															
	5/20/2010 Dup																															

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)	sec-Butylbenzene	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	Isopropylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	1,2,4-Trichlorobenzene	Trichloroethene	Trichlorofluoromethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	NE	0.5	12	0.5	10	200	14	0.5	NE	96		0.02	1000
	ES	1000	5	10	460	NE	NE	400	6	3	75	1000	850	5	7	70	100	5	700	NE	5	60	5	50	1000	70	5	NE	480		0.2	10000
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 Q																						
	1/28/2005																															
	10/25/2005																															
	7/27/2006									0.75 Q																						
	8/14/2007											2.7 Q																				
	5/6/2008																															
	4/8/2009																															
	5/20/2010																															
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	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																															
	10/28/2009																															
	5/24/2010																															
	10/4/2010																															

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)	sec-Butylbenzene	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	Isopropylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	1,2,4-Trichlorobenzene	Trichloroethene	Trichlorofluoromethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	NE	0.5	12	0.5	10	200	14	0.5	NE	96		0.02	1000
	ES	1000	5	10	460	NE	NE	400	6	3	75	1000	850	5	7	70	100	5	700	NE	5	60	5	50	1000	70	5	NE	480		0.2	10000
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																															

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)	sec-Butylbenzene	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	Isopropylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	1,2,4-Trichlorobenzene	Trichloroethene	Trichlorofluoromethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	NE	0.5	12	0.5	10	200	14	0.5	NE	96		0.02	1000
	ES	1000	5	10	460	NE	NE	400	6	3	75	1000	850	5	7	70	100	5	700	NE	5	60	5	50	1000	70	5	NE	480		0.2	10000
P-111D	4/4/2002	NR														0.6									0.3						13	
	5/22/2002	NR			NA											0.59 Q								NA							15	
	8/19/2002	NR														0.37 Q								NA							12	
	12/5/2002	NR														0.42 Q															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 Q																	1.6 Q						11	
	1/27/2005																														8.8	
	4/26/2005							3.7								0.87 Q															13	
	4/26/05 Dup							3.5																							13	
	8/3/2005									2.9 Q						0.96 Q															10	
	10/26/2005							3.1 Q								1.1 Q															10	
	10/26/2005 dup							2.7 Q								0.93 Q															10	
	02/01/2006							4.2								0.89 Q															11	
	4/24/2006							2.8 Q								1.3 Q															11	
	7/27/2006									0.30 Q						1.2 Q															10	
	10/31/2006							1.4 Q								1.3 Q															8.5	
	1/31/2007							3.0Q								1.4Q															8.2	
	5/1/2007							3.1Q								1.3Q															8.2	
	8/8/2007							2.9 Q								1.5 Q															8.5	
	10/17/2007							2.7 Q								1.5 Q															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															4.7	
	10/5/10 Dup							1.6								1.3					1.2										4.7	

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)	sec-Butylbenzene	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	Isopropylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	1,2,4-Trichlorobenzene	Trichloroethene	Trichlorofluoromethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	NE	0.5	12	0.5	10	200	14	0.5	NE	96		0.02	1000
	ES	1000	5	10	460	NE	NE	400	6	3	75	1000	850	5	7	70	100	5	700	NE	5	60	5	50	1000	70	5	NE	480		0.2	10000
MW-112	11/27/1996	NR	0.61					2 J								59	1 J										3J				15	
	11/27/96 Dup	NR	0.71					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	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	NA	NA	NA	NA	NA
	12/4/2002															150											2.7 Q				56	
	4/22/2003		1.2 Q					7.4 &								220	4.5 Q										5.9				45	
	10/22/2003	2.5	0.88					5.9								60	1.4										1.6				51	
	4/28/2004		0.53 Q				0.45 Q	4								18											1.1 Q				9.9	
	4/28/04 dup	6.5	0.61 Q				0.48 Q	4.7								22											1.1 Q				9.3	
	07/23/2004	110	1.1					23								140	2.6	0.58					1				7.4				31	
	10/13/2004		1.0 Q				0.42	14								110	2.4 Q										2.9				25	
	10/13/04 Dup		0.87 Q					15		0.56 Q						94	2.1 Q						0.60 Q				2.9				29	
	1/26/2005		0.76 Q					20								85	2.3 Q														27	
	4/26/2005		0.6 Q					13								64	1.2 Q										1.8				17	
	8/3/2005						0.48 Q									4.6															1.5	
	10/25/2005															2.5 Q															1.4	
	02/01/2006		0.41 Q				0.45 Q	3.2 Q								11											0.76 Q				4.9	
	4/25/2006						0.48 Q	0.97 Q								5.4															2.8	
	7/27/2006						0.43 Q			0.24 Q						2.9															1.7	
	7/27/2006 dup									0.52 Q																					1.5	
	11/2/2006															2.3 Q															1.7	
	2/1/2007						0.46Q	1.4Q								3.8															2.5	
	5/2/2007						0.53Q	1.3Q								6.1															2.6	
	8/14/2007						0.51 Q									4.4															1.8	
	8/14/2007 dup						0.51 Q									4.9															1.6	
	10/18/2007						0.49 Q									4															1.2	
	5/5/2008															33.3											1.8				1.3	
	10/2/2008															13.3																
	4/7/2009															5.1																
	11/4/2009																															
	5/20/2010															2.7																

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)	sec-Butylbenzene	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	Isopropylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	1,2,4-Trichlorobenzene	Trichloroethene	Trichlorofluoromethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	NE	0.5	12	0.5	10	200	14	0.5	NE	96		0.02	1000
	ES	1000	5	10	460	NE	NE	400	6	3	75	1000	850	5	7	70	100	5	700	NE	5	60	5	50	1000	70	5	NE	480		0.2	10000
P-113A	9/12/2002	NR							0.37Q																1.0Q							
	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																															
	5/25/2010																															
	10/6/2010																															
P-113B	09/11/2002 [3]	NR							1										0.41Q						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 Q																						
	1/27/2005																															
	4/27/2005																															
	8/2/2005																															
	10/26/2005									0.42 Q																						
	02/01/2006																															
	4/24/2006																															
	7/27/2006									0.49 Q																						
	10/31/2006																															
	1/31/2007																															
	5/1/2007																															
	8/8/2007																															
	10/19/2007																															
	5/6/2008																															
	10/1/2008																															
	4/6/2009																															
	4/6/2009 Dup																															
	10/29/2009																															
	5/25/2010																															
	10/6/2010																															

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)	sec-Butylbenzene	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	Isopropylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	1,2,4-Trichlorobenzene	Trichloroethene	Trichlorofluoromethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	NE	0.5	12	0.5	10	200	14	0.5	NE	96		0.02	1000
	ES	1000	5	10	460	NE	NE	400	6	3	75	1000	850	5	7	70	100	5	700	NE	5	60	5	50	1000	70	5	NE	480		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									0.40Q						**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 Q															**10**	
	07/22/2004															1.4 Q															**7.9**	
	10/13/2004									0.39 Q						1.7 Q															**10**	
	1/27/2005																														**3.5**	
	4/26/2005																														**3.0**	
	8/2/2005															1.1 Q															**6.1**	
	10/26/2005									0.84						1.3 Q															**6.6**	
	10/26/2005 dup									0.49						1.4 Q															**6.9**	
	01/31/2006															1.3 Q															**8.4**	
	4/24/2006															1.3 Q															**7.6**	
	4/24/2006 dup															1.3 Q															**7.9**	
	7/27/2006									0.48 Q						1.6 Q															**8.9**	
	7/27/2006 dup									0.38 Q						1.6 Q															**8.7**	
	11/2/2006															2.7 Q															**13**	
	11/02/2006 dup															2.7 Q															**13**	
	2/1/2007															1.2Q					0.46Q										**7.5**	
	2/1/2007 dup															1.4Q															**8.5**	
	5/1/2007															1.1Q															**7.4**	
	5/1/2007 dup															1.2Q															**7.8**	
	8/8/2007															1.1 Q															**6.7**	
	8/8/2007 dup															1.2 Q															**7.5**	
	10/22/2007															0.95 Q															**7.8**	
	10/22/2007 Dup															1.2 Q															**8.1**	
	5/6/2008															1.5															**6.6**	
	10/2/2008															1.2															**6.1**	
	4/6/2009															1.6															**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**	

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)	sec-Butylbenzene	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	Isopropylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	1,2,4-Trichlorobenzene	Trichloroethene	Trichlorofluoromethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	NE	0.5	12	0.5	10	200	14	0.5	NE	96		0.02	1000
	ES	1000	5	10	460	NE	NE	400	6	3	75	1000	850	5	7	70	100	5	700	NE	5	60	5	50	1000	70	5	NE	480		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								0.20Q																						
	12/3/2002	NR																														
	4/22/2003																															
	7/30/2003																															
	10/22/2003																															
	2/4/2004																															
	4/27/2004																															
	10/14/2004																														0.33 Q	
	1/27/2005																															
	4/26/2005																															
	8/2/2005																														0.34 Q	
	10/26/2005									0.24 Q																					0.33 Q	
	1/31/2006																															
	4/24/2006																														0.62	
	7/27/2006																														0.44 Q	
	10/31/2006																														0.39Q	
	2/1/2007																														0.50Q	
	5/1/2007																														0.54Q	
	8/14/2007																														0.62	
	10/22/2007																														0.49 Q	
	10/22/2007																														0.55 Q	
	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																															
	5/26/2010																															
	10/6/2010																														1.2	

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)	sec-Butylbenzene	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	Isopropylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	1,2,4-Trichlorobenzene	Trichloroethene	Trichlorofluoromethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	NE	0.5	12	0.5	10	200	14	0.5	NE	96		0.02	1000
	ES	1000	5	10	460	NE	NE	400	6	3	75	1000	850	5	7	70	100	5	700	NE	5	60	5	50	1000	70	5	NE	480		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 Q																						
	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																															

Results in µg/L

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

PAL = Preventive Action Limit
ES = Enforcement Standard
Underline indicates exceeds NR 140 PAL
Bolding indicates exceeds NR 140 ES
Blank = Sample Collected but No VOCs detected
Historical data for abandoned wells MW-105, P-105, P-109 and MW-110 can be found in reports prior to October 204

* Not sampled due to insufficient water for sample collection

[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 2003.

[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 2.2Q ppb was detected in January 2007

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

[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
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
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
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
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
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
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

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	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

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

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

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

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

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	Isopropylbenzene	P-isopropyl toluene	4-Methyl-2 Pentanone	Naphthalene	n-Propylbenzene	Tetrachloroethene	Tetrahydrofuran	Toluene	1,2,4-Trichlorobenzene	Trichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	Xylenes (Total)	Methyl-t-butyl ether	Di-isopropyl ether
LC-1	1993	5/12	<25	<120	<25	<25	<25	<25	NA	25	25	<25	<25	410	92	NA	NA	<120	NA	NA	<25	NA	170	NA	18J	NA	NA	76	320	NA	NA
		5/12 Dup	<36	<180	<36	<36	<36	<36	NA	36	36	43	<36	550	110	NA	NA	<180	NA	NA	<36	NA	290	NA	<36	NA	NA	71	410	NA	NA
		6/24	1J	<7	<1	<1	5	<1	NA	1	1	0.8J	<1	13	12	NA	NA	<7	NA	NA	<1	NA	20	NA	<1	NA	NA	6	85	NA	NA
		6/24 Dup	<25	<8	<2	<2	6D	<2	NA	2	2	1DJ	<2	13D	11D	NA	NA	<8	NA	NA	<2	NA	23D	NA	<2	NA	NA	7D	82D	NA	NA
	1996	5/10	2.2	<120	<25	<25	<25	4J	ND	ND	ND	<25	<25	0.46J	4J	ND	NA	<120	NA	ND	<25	NA	<25	ND	<25	NA	NA	<25	86	NA	NA
		10/31	<16	<5	<1	0.58J	1.5	<1	ND	ND	ND	<1	<1	<12	8.3	ND	NA	23	NA	ND	<1	NA	4.7	ND	<1	NA	NA	<1	280	NA	NA
	1997	5/13	1.7	<100	90	<11	<60	<19	ND	ND	ND	<18	<12	<0.23	<19	ND	<18	<18	<18	ND	<32	<95	<20	ND	<24	<16	<16	<23	<55	<7.0	<6.5
		10/28	3.6	5.9	<1.0	0.23	9.4	<0.38	ND	ND	ND	0.87	<0.25	<2.3	3.6	ND	1.7	0.80	6.8	ND	<0.63	97	1.2	ND	<0.49	9.6	8.7	<0.46	29	1.1	0.49
	1998	4/14	3.8	<20	<10	<2.2	35	<3.8	ND	ND	ND	<3.5	<2.5	<2.3	<3.8	ND	<3.5	<3.7	13	ND	<6.3	110	<3.9	ND	<4.9	14	12	<4.6	50	<1.4	<1.3
		10/14	NA	NA	NA	<2.2	<12	<3.8	ND	ND	ND	<3.5	<2.5	NA	19	ND	6.3	NA	18	ND	<6.3	NA	<3.9	ND	<4.9	37	22	<4.6	100	<1.4	<1.3
	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	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	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	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	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	NA	NA	NA	NA	NA	NA
		10/9	Leachate wells not sampled																												
	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	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	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	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	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	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	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	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	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	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	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	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	Isopropylbenzene	P-isopropyl toluene	4-Methyl-2 Pentanone	Naphthalene	n-Propylbenzene	Tetrachloroethene	Tetrahydrofuran	Toluene	1,2,4-Trichlorobenzene	Trichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	Xylenes (Total)	Methyl-t-butyl ether	Di-isopropyl ether
LC-2	1993	5/12	5	<18	<4	18	<4	<4	<1.0	<4	<4	380D	<4	<4	49	NA	NA	<18	NA	NA	<4	NA	71	NA	<4	NA	NA	<4	160D	NA	NA
		6/24	10	<16	<3	20	<3	<3	<1.0	<3	<3	170D	<3	<3	54	NA	NA	<16	NA	NA	<3	NA	27	NA	<3	NA	NA	<3	180	NA	NA
	1996	5/10	4.0	<12	<2	10	5	<2	<1.0	NA	NA	<2	0.2J	<2	<2	NA	NA	<12	NA	NA	<2	NA	0.6J	NA	<2	NA	NA	<2	20	NA	NA
		10/31	6.6	<5	<1	24	8.1	<1.0	<1.0	<5	<5	11	0.22J	3.1	42	NA	NA	<5.0	NA	NA	2.7	NA	6.8	NA	0.56J	NA	NA	<1.0	140	NA	NA
	1997	5/13	5.8	<20	<10	17	<12	<3.8	<1.0	<2	<2.2	8.3	<2.5	<2.3	<3.8	<3.6	<3.5	<3.7	4.4	<4.6	<6.3	<19	<3.9	<1.8	<4.9	6.9	5.5	<4.6	34	<1.4	<1.3
		10/28	7.0	2.3	<1.0	25	6.4	<0.38	<1.0	0.59	0.23	8.2	<0.20	<0.23	18	0.64	1.1	<0.37	8.9	<0.46	<0.63	240J	1.4	0.18	<0.49	17	6.5	<0.46	40	1.6	1.2
	1998	4/14	<16	<100	<50	25	<60	<19	<1.0	<10	<11	<18	<12	<12	<19	<18	<18	<18	<18	<23	<32	200	<20	<9.0	<24	<16	<16	<23	<55	<7	<6.5
		10/14	4.0	NA	NA	91	<2.4	<0.76	<1.0	<0.44	<0.44	18	<0.50	<0.46	45	1.4	<0.70	NA	7.1	<0.92	<1.3	NA	<0.78	<0.36	<0.98	17	3.5	<0.92	39	1.3	0.94
	1999	4/7	6.2	NA	NA	44	<1.0	<1.0	<1.0	<1.0	<1.0	28	<1.0	<1.0	150	3.9	<1.0	NA	7.1	2.8	<1.0	NA	<0.40	<1.0	<1.0	26	9.0	<1.0	380	<1.0	<1.0
		10/28	8.0	<2.5	NA	45	<2.5	<2.5	<1.0	<2.5	<2.5	30	<2.5	<2.5	280	6.7	<2.5	<2.5	12	<2.5	<2.5	240	<1.0	<2.5	<2.5	42	11	<2.5	750	<2.5	<2.5
	2000	5/02	8.1	<2.5	<2.5	45	<2.5	<2.5	<1.0	<2.5	<2.5	30	<2.5	<2.5	190	<2.5	<2.5	<2.5	3.6	<2.5	<2.5	190	<1.0	<2.5	<2.5	42	15	<2.5	670	<2.5	<2.5
		10/30	10	<1.0	NA	47	<1.0	<1.0	<1.0	<1.0	<1.0	33	<1.0	<1.0	130	2.0	<1.0	<1.0	<1.0	<1.0	<1.0	200	0.68	<1.0	<1.0	18	13	<1.0	430	2.0	<1.0
	2001	5/09	<0.40	<1.0	NA	<1.0	<1.0	<1.0	1.0	<1.0	<1.0	19	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	200	<0.40	<1.0	<1.0	<0.40	<0.40	<1.0	<1.0	<1.0	<1.0
		10/9	Leachate wells not sampled																												
	2002	2/5	13	NA	NA	67	<13	<4.8	<3.2	<3.3	<3.1	39	<4.6	<4.9	180	9	<4.1	NA	13	7	<2.5	NA	<2.6	<3.1	<2.7	45	12	<3.5	720	<5.7	<5.9
		5/22	14	NA	NA	51	ND	ND	ND	ND	ND	33	ND		96	3.3 Q	ND	NA	ND	ND	ND	ND	ND	ND	ND	23	9.5	ND	570	NA	NA
	2003	4/22	12	ND	ND	43	ND	ND	ND	ND	ND	30	ND	ND	210	NA	NA	NA	10	NA	ND	170	ND	NA	ND	NA	NA	ND	980	ND	NA
	2004	4/28	9	ND	ND	30	1.8 Q	ND	ND	ND	ND	23	ND	ND	88	NA	NA	NA	4.4	NA	ND	130	1.5 Q	NA	ND	NA	NA	ND	470 D	0.87 Q	NA
	2005	8/3	11	ND	ND	43	ND	ND	ND	ND	ND	25	ND	ND	92	NA	NA	NA	3.7	NA	ND	180	ND	NA	ND	NA	NA	ND	770	ND	NA
	2006	4/28[1]	13	ND	ND	45	ND	ND	ND	ND	ND	33	ND	ND	85	NA	NA	NA	17	NA	ND	220	ND	NA	ND	NA	NA	ND	1100	ND	NA
	2007	5/02	12	<22	<3.3	50	<4.8	<1.2	<5.0	<4.1	<4.4	22	<3.8	<4.1	52	NA	NA	NA	6.3	NA	<2.2	170	<3.4	NA	<2.4	NA	NA	<0.9	780	<3	NA
	2008	5/6	7.6	<4.3	<0.66	58.2	<0.97	<0.24	<0.99	<0.83	<0.87	13.1	<0.75	<0.83	43.3	NA	NA	NA	11.3	NA	<0.45	128	2.1	NA	<0.48	NA	NA	<0.18	337	<0.61	NA
	2009	4/9	10.9	<22	<3	45.9	<5	<1	<5	<4	<4	16.3	<4	<4	91.3	NA	NA	NA	<4	NA	<2	138	<3	NA	<2	NA	NA	<1	618	<3	NA
	2010	5/26	13.7	ND	ND	45.2	ND	ND	ND	ND	ND	18.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	187	ND	ND	ND	ND	ND	ND	953	ND	ND

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

			Paramcter																												
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	Isopropylbenzene	P-isopropyl toluene	4-Methyl-2 Pentanone	Naphthalene	n-Propylbenzene	Tetrachloroethene	Tetrahydrofuran	Toluene	1,2,4-Trichlorobenzene	Trichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	Xylenes (Total)	Methyl-t-butyl ether	Di-isopropyl 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	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	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	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	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	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	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	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	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	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	NA	NA	NA	NA	NA	NA
	2000	5/02	<10	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	5800	<25	<25	<25	<25	25	<25	<25	<25	65	<25	<25	<10	<10	330	<25	<25	<25
		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	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	NA	NA	NA	NA	NA	NA
		10/9	Leachate wells not sampled																												
	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	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	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	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	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	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	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	NA	NA	NA	NA	NA	NA
	2007	5/02	<4.1	<43	<6.6	<4.1	<9.7	<2.4	<9.9	<8.3	<8.7	<9.5	<7.5	170	13	NA	NA	NA	<7.4	NA	<4.5	290	35	NA	<4.8	NA	NA	13	65	<6.1	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	NA	NA	NA	NA	NA	NA
	2009	4/9[1]	<1	<9	<1	<1	<2	<1	<2	<2	<2	<2	<2	296	2.2	NA	NA	NA	<2	NA	<1	22	13.6	NA	22	NA	NA	11.3	17.3	<6.1	NA
	2010	5/26	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1180	ND	ND	ND	ND	ND	ND	ND	ND	29.8	ND	23.8	ND	ND	14.5	47.5	ND	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	Isopropylbenzene	P-isopropyl toluene	4-Methyl-2 Pentanone	Naphthalene	n-Propylbenzene	Tetrachloroethene	Tetrahydrofuran	Toluene	1,2,4-Trichlorobenzene	Trichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	Xylenes (Total)	Methyl-t-butyl ether	Di-isopropyl ether

Notes:
* = Insufficient water for sample collection
D = Analyte was identified in an analysis at a secondary dilution factor
J = Estimated Values; Below the Quantitation Limit
NA = Not analyzed
ND = Not detected
Q = Between LOD and LOQ
4/28[1] Acetone detected at 29 ug/l
4/9[1] Acetone detected at 56.9 ug/l
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 6. Landfill Gas Field Parameter Monitoring Results

Active Extraction Points	Time	Date	CH_4 (%)	CO_2 (%)	O_2 (%)	N (%)	Comments
			variable	variable	<5	<40	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	
	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

Table 6. Landfill Gas Field Parameter Monitoring Results

Active Extraction	Time	Date	CH_4 (%)	CO_2 (%)	O_2 (%)	N (%)	Comments
LC-1	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	
	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

Active Extraction	Time	Date	CH_4 (%)	CO_2 (%)	O_2 (%)	N (%)	Comments
	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	
LC-1	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	
	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	

Active Extraction	Time	Date	CH_4 (%)	CO_2 (%)	O_2 (%)	N (%)	Comments
	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	
LC-2	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
	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

Active Extraction	Time	Date	CH_4 (%)	CO_2 (%)	O_2 (%)	N (%)	Comments
	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	
LC-2	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	
	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	

Active Extraction	Time	Date	CH_4 (%)	CO_2 (%)	O_2 (%)	N (%)	Comments
	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	
LC-2	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	
	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	

Active Extraction	Time	Date	CH_4 (%)	CO_2 (%)	O_2 (%)	N (%)	Comments
	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	
LC-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
	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

Active Extraction	Time	Date	CH_4 (%)	CO_2 (%)	O_2 (%)	N (%)	Comments
	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	
LC-3	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	
	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	

Active Extraction	Time	Date	CH_4 (%)	CO_2 (%)	O_2 (%)	N (%)	Comments
LC-3	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	
	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	

Active Extraction	Time	Date	CH_4 (%)	CO_2 (%)	O_2 (%)	N (%)	Comments
	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	
GV-6	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	
	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	

Active Extraction	Time	Date	CH_4 (%)	CO_2 (%)	O_2 (%)	N (%)	Comments
	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	
GV-6	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	
	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	

Active Extraction	Time	Date	CH_4 (%)	CO_2 (%)	O_2 (%)	N (%)	Comments
	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	
	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	
GV-6	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	
	8:35	1/26/2010	4.4	5.0	15.9	74.8	
	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	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	
	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	

Table 6. Landfill Gas Field Parameter Monitoring Results

Closed Extraction Points	Time	Date	CH_4 (%)	CO_2 (%)	O_2 (%)	N (%)	Comments
			variable	variable	<5	<40	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	
	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	

Table 6. Landfill Gas Field Parameter Monitoring Results

Closed Extraction	Time	Date	CH_4 (%)	CO_2 (%)	O_2 (%)	N (%)	Comments
	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
GV-1	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 6. Landfill Gas Field Parameter Monitoring Results

Closed Extraction	Time	Date	CH_4 (%)	CO_2 (%)	O_2 (%)	N (%)	Comments
	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	
GV-4	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	
	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	

Table 6. Landfill Gas Field Parameter Monitoring Results

Closed Extraction	Time	Date	CH_4 (%)	CO_2 (%)	O_2 (%)	N (%)	Comments
GV-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	
	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	Time	Date	CH_4 (%)	CO_2 (%)	O_2 (%)	N (%)	Comments
	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	
GV-7	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	
	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

Closed Extraction	Time	Date	CH_4 (%)	CO_2 (%)	O_2 (%)	N (%)	Comments
GV-7	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 6. Landfill Gas Field Parameter Monitoring Results

Closed Extraction	Time	Date	CH_4 (%)	CO_2 (%)	O_2 (%)	N (%)	Comments
	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	
GV-9	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	8/26/2006	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	
	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	

Table 6. Landfill Gas Field Parameter Monitoring Results

Closed Extraction	Time	Date	CH_4 (%)	CO_2 (%)	O_2 (%)	N (%)	Comments
GV-9	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

Closed Extraction	Time	Date	CH_4 (%)	CO_2 (%)	O_2 (%)	N (%)	Comments
	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	
	9:40	8/8/2006	4.1	17.2	6.7	72.0	
GV-12	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	
	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	

Closed Extraction	Time	Date	CH_4 (%)	CO_2 (%)	O_2 (%)	N (%)	Comments
	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	
	14:20	6/4/2007	1.5	16.6	3.3	78.7	reduce to 6 on 18 off
GV-12	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 6. Landfill Gas Field Parameter Monitoring Results

Monitoring Points	Time	Date	CH_4 (%)	CO_2 (%)	O_2 (%)	N (%)	Comments
			variable	variable	<5	<40	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	
	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	

Monitoring Points	Time	Date	CH_4 (%)	CO_2 (%)	O_2 (%)	N (%)	Comments
	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
GP-1	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	
	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	

Monitoring Points	Time	Date	CH_4 (%)	CO_2 (%)	O_2 (%)	N (%)	Comments
GP-1	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	

Monitoring Points	Time	Date	CH_4 (%)	CO_2 (%)	O_2 (%)	N (%)	Comments
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	

Monitoring Points	Time	Date	CH_4 (%)	CO_2 (%)	O_2 (%)	N (%)	Comments
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	
	8:50	9/28/2010	0.0	1.8	17.2	81.0	

Monitoring Points	Time	Date	CH_4 (%)	CO_2 (%)	O_2 (%)	N (%)	Comments
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 (%)	CO_2 (%)	O_2 (%)	N (%)	Comments
	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	
GP-5	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	

Monitoring Points	Time	Date	CH_4 (%)	CO_2 (%)	O_2 (%)	N (%)	Comments
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	

Monitoring Points	Time	Date	CH_4 (%)	CO_2 (%)	O_2 (%)	N (%)	Comments
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	

Table 6. Landfill Gas Field Parameter Monitoring Results

Monitoring Points	Time	Date	CH_4 (%)	CO_2 (%)	O_2 (%)	N (%)	Comments
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	

Monitoring Points	Time	Date	CH_4 (%)	CO_2 (%)	O_2 (%)	N (%)	Comments
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 (%)	CO_2 (%)	O_2 (%)	N (%)	Comments
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	

Table 6. Landfill Gas Field Parameter Monitoring Results

Monitoring Points	Time	Date	CH_4 (%)	CO_2 (%)	O_2 (%)	N (%)	Comments
	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	
	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	
GP-12	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 (%)	CO_2 (%)	O_2 (%)	N (%)	Comments
	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	
MW-101	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	
	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	

Monitoring Points	Time	Date	CH_4 (%)	CO_2 (%)	O_2 (%)	N (%)	Comments
MW-102	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	
	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	

Monitoring Points	Time	Date	CH_4 (%)	CO_2 (%)	O_2 (%)	N (%)	Comments
MW-103	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	
	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	

Monitoring Points	Time	Date	CH_4 (%)	CO_2 (%)	O_2 (%)	N (%)	Comments
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	

Monitoring Points	Time	Date	CH_4 (%)	CO_2 (%)	O_2 (%)	N (%)	Comments
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	11.6	71.9	
	8:16	3/29/2007	5.5	8.8	12.3	73.4	
	17:15	3/29/2007	5	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	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	7.8	12.8	74.4	
	10:35	10/28/2009	6.5	7.4	13.9	72.2	
	7:20	1/27/2009	3.75	6.4	15.7	74.15	
	13:15	5/25/2010	5	5.2	15.2	74.6	
	10:45	9/28/2010	6.5	5.4	15.3	72.8	

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-Trichlorofluoroethane	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								
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												

Values in ppbv (parts per billion by volume)
Analyzed using EPA Method TO-14A
P:\Ripon_Landfill\Reports & Corresp\Status Reports to WDNR\2010\Oct 2010\Tables\Table 7 Gas VOCs.xls

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
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		7089
	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
	1/23/2008	282	54.7	426					956	19.1					274	200					80			82		77.7	24.1	18.4	1550
	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												

Values in ppbv (parts per billion by volume)
Analyzed using EPA Method TO-14A
P:\Ripon_Landfill\Reports & Corresp\Status Reports to WDNR\2010\Oct 2010\Tables\Table 7 Gas VOCs.xls

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-Dichloroethene	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-Trichlorotrifluoromethane	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	1E+05		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

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

ATTACHMENT 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

ATTACHMENT B

LABORATORY ANALYTICAL RESULTS

[redacted]

(Please Print Clearly)

Company Name:	GeoTrans, Inc
Branch/Location:	Brookfield, WI
Project Contact:	Mike Noel
Phone:	(262) 792-1282
Project Number:	117-2202040.05
Project Name:	Ripon FF/NN Landfill
Project State:	WI
Sampled By (Print):	Ashley A. Weimer
Sampled By (Sign):	Ashley A. Weimer
PO #:	
Regulatory Program:	

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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

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

Page 1 of

3035331

Quote #:	
Mail To Contact:	Mike Noel
Mail To Company:	GeoTrans, Inc
Mail To Address:	175 N. Corporate DR Suite 100 Brookfield, WI 53045
Invoice To Contact:	Same as above
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, Sl = Sludge
W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

FILTERED? (YES/NO): Y/N — N, N
PRESERVATION (CODE)*: Pick Letter — B, B

Analyses Requested: VOCs 8260 | methane

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	VOCs 8260	methane	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
014	P-107 D	10-5	13:40	GW	✓	✓		6-40ml B	001
015	~~P-113A~~ P-113 A	10-6	10:00	↓	✓	✓		↓	002
016	P-113 B	↓	10:30	↓	✓	✓		↓	003
017	P-116	↓	12:30	↓	✓	✓		↓	004
018	P-114	↓	13:05	↓	✓	✓		↓	005
019	P-114 Dup	↓	13:10	↓	✓	✓		↓	006
020	P-115	↓	11:25	↓	✓	✓		↓	007
021	TB-1	—	—	DI	✓		Lab prepared	4-40ml B	008

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	10-7-10 1800	D. Farrell	10/7/10 0925
D. Farrell	10/7/10 1700		
CS Logistics	10/8/10 0915	[signature]	10/8/10 0915

PACE Project No. 4038049

Receipt Temp = R01 °C

Sample Receipt pH OK / Adjusted NA

Cooler Custody Seal
Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

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

Page 1 of

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CHAIN OF CUSTODY

*Preservation Codes
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:	GeoTrans, Inc
Branch/Location:	Brookfield, WI
Project Contact:	Mike Noel
Phone:	(262)798-1282
Project Number:	117-2202040.05
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:	GeoTrans, Inc
Mail To Address:	175 N. Corporate Dr. Suite 100 Brookfield, WI 53045
Invoice To Contact:	Same as Above
Invoice To Company:	
Invoice To Address:	3035331
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 W = Water
B = Biota DW = Drinking Water
C = Charcoal GW = Ground Water
O = Oil SW = Surface Water
S = Soil WW = Waste Water
SI = Sludge WP = Wipe

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

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Analyses Requested: # of Containers	VOCs 8260	Methane	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
					N	N				
					B	B				
001	MW-107	10-4	18:15	GW	✓	✓			6-40ml B	009
002	MW-111		18:45		✓	✓				010
003	MW-103		17:45		✓	✓				011
004	MW-101		16:30		✓	✓				012
005	P-101	↓	16:45		✓	✓				013
006	P-111D	10-5	10:25		✓	✓				014
007	P-111D Dup		10:30		✓	✓				015
008	P-111		10:50		✓	✓				016
009	P-107		14:10		✓	✓				017
010	MW-3A		15:30		✓	✓				018
011	MW-3B		15:00		✓	✓				019
012	P-103		12:45		✓	✓				020
013	P-103D	↓	12:30	↓	✓	✓			↓	021

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	10-7-10 0800	D. Fennil	10/7/10 0925
D Fennil	10/7/10 1700		
C.S. Logistics	10/8/10 0915		

PACE Project No.: 40380419

Receipt Temp = 2.01 °C

Sample Receipt pH OK / Adjusted N/A

Cooler Custody Seal Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

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

Pace Analytical

Sample Condition Upon Receipt

Client Name: GeoTrans Project # 4035049

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☒ Commercial ☐ Pace Other _____

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 N/A **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature 2.1

Biological Tissue is Frozen: ☐ yes ☐ no

Temp Blank Present: ☒ yes ☐ no

Optional
Proj. Due Date:
Proj. Name:

Person examining contents:
Date: 10/8/10
Initials: AE

Temp should be above freezing to 6°C for all sample except Biota.
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 Arrived within Hold Time:	☒Yes	☐No	☐N/A	5.
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 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.	☐Yes	☐No	☒N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☐No	☒N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☐No		Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes	☐No	☒N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☒No	☐N/A	15.
Trip Blank Present:	☒Yes	☐No	☐N/A	16.
Trip Blank Custody Seals Present	☒Yes	☐No	☐N/A	
Pace Trip Blank Lot # (if purchased): _____				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** _____

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)

Pace Analytical®
www.pacelabs.com

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

October 27, 2010

Mr. Nelson Olavarria
Cooper Industries
600 Travis Street
Suite 5600
Houston, TX 77002

RE: Project: Ripon FF/NN Landfill
Pace Project No.: 3035331

Dear Mr. Olavarria:
Enclosed are the analytical results for sample(s) received by the laboratory on October 08, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Timothy Reed

timothy.reed@pacelabs.com
Project Manager

Enclosures

cc: Mr. Michael Noel, Geotrans, Inc.

Pace Analytical®
www.pacelabs.com

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

CERTIFICATIONS

Project: Ripon FF/NN Landfill
Pace Project No.: 3035331

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
California Certification #: 09268CA
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11888
New York Certification #: 11888
North Carolina Certification #: 503
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444

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SAMPLE ANALYTE COUNT

Project: Ripon FF/NN Landfill
Pace Project No.: 3035331

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3035331001	P-107 D	EPA 8015B Modified	SES	1	PASI-G
		EPA 8260	SMT	45	PASI-G
3035331002	P-113 A	EPA 8015B Modified	SES	1	PASI-G
		EPA 8260	SMT	45	PASI-G
3035331003	P-113 B	EPA 8015B Modified	SES	1	PASI-G
		EPA 8260	SMT	45	PASI-G
3035331004	P-116	EPA 8015B Modified	SES	1	PASI-G
		EPA 8260	SMT	45	PASI-G
3035331005	P-114	EPA 8015B Modified	SES	1	PASI-G
		EPA 8260	SMT	45	PASI-G
3035331006	P-114 DUP	EPA 8015B Modified	SES	1	PASI-G
		EPA 8260	SMT	45	PASI-G
3035331007	P-115	EPA 8015B Modified	SES	1	PASI-G
		EPA 8260	SMT	45	PASI-G
3035331008	TB-1	EPA 8260	SMT	45	PASI-G
3035331009	MW-107	EPA 8015B Modified	SES	1	PASI-G
		EPA 8260	SMT	45	PASI-G
3035331010	MW-111	EPA 8015B Modified	SES	1	PASI-G
		EPA 8260	SMT	45	PASI-G
3035331011	MW-103	EPA 8015B Modified	SES	1	PASI-G
		EPA 8260	SMT	45	PASI-G
3035331012	MW-101	EPA 8015B Modified	SES	1	PASI-G
		EPA 8260	SMT	45	PASI-G
3035331013	P-101	EPA 8015B Modified	SES	1	PASI-G
		EPA 8260	SMT	45	PASI-G
3035331014	P-111 D	EPA 8015B Modified	SES	1	PASI-G
		EPA 8260	SMT	45	PASI-G
3035331015	P-111 D DUP	EPA 8015B Modified	SES	1	PASI-G
		EPA 8260	SMT	45	PASI-G
3035331016	P-111	EPA 8015B Modified	SES	1	PASI-G
		EPA 8260	SMT	45	PASI-G
3035331017	P-107	EPA 8015B Modified	SES	1	PASI-G
		EPA 8260	SMT	45	PASI-G
3035331018	MW-3 A	EPA 8015B Modified	SES	1	PASI-G
		EPA 8260	SMT	45	PASI-G
3035331019	MW-3 B	EPA 8015B Modified	SES	1	PASI-G
		EPA 8260	SMT	45	PASI-G

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SAMPLE ANALYTE COUNT

Project: Ripon FF/NN Landfill
Pace Project No.: 3035331

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3035331020	**P-103**	EPA 8015B Modified	SES	1	PASI-G
		EPA 8260	SMT	45	PASI-G
3035331021	**P-103 D**	EPA 8015B Modified	SES	1	PASI-G
		EPA 8260	SMT	45	PASI-G

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3035331

Sample: P-107 D **Lab ID: 3035331001** Collected: 10/05/10 13:40 Received: 10/08/10 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified							
Methane	**73.7**	ug/L	2.8	1		10/13/10 09:00	74-82-8	
8260 MSV	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/12/10 16:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/12/10 16:09	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/12/10 16:09	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/12/10 16:09	75-35-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/12/10 16:09	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/12/10 16:09	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 16:09	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/12/10 16:09	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/12/10 16:09	78-87-5	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 16:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 16:09	106-46-7	
2-Butanone (MEK)	ND	ug/L	20.0	1		10/12/10 16:09	78-93-3	
Acetone	ND	ug/L	20.0	1		10/12/10 16:09	67-64-1	L3
Benzene	ND	ug/L	1.0	1		10/12/10 16:09	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		10/12/10 16:09	75-27-4	
Bromoform	ND	ug/L	1.0	1		10/12/10 16:09	75-25-2	
Bromomethane	ND	ug/L	1.0	1		10/12/10 16:09	74-83-9	
Carbon disulfide	ND	ug/L	1.0	1		10/12/10 16:09	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		10/12/10 16:09	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/12/10 16:09	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/12/10 16:09	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/12/10 16:09	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/12/10 16:09	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		10/12/10 16:09	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		10/12/10 16:09	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/12/10 16:09	75-71-8	
Ethylbenzene	ND	ug/L	1.0	1		10/12/10 16:09	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/12/10 16:09	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		10/12/10 16:09	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/12/10 16:09	91-20-3	
Styrene	ND	ug/L	1.0	1		10/12/10 16:09	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/12/10 16:09	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1		10/12/10 16:09	109-99-9	
Toluene	ND	ug/L	1.0	1		10/12/10 16:09	108-88-3	
Trichloroethene	ND	ug/L	1.0	1		10/12/10 16:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/12/10 16:09	75-69-4	
Vinyl chloride	**1.6**	ug/L	1.0	1		10/12/10 16:09	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/12/10 16:09	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/12/10 16:09	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/12/10 16:09	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/12/10 16:09	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/12/10 16:09	10061-02-6	
4-Bromofluorobenzene (S)	96	%	69-130	1		10/12/10 16:09	460-00-4	
Dibromofluoromethane (S)	95	%	70-134	1		10/12/10 16:09	1868-53-7	

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3035331

Sample: P-107 D **Lab ID: 3035331001** Collected: 10/05/10 13:40 Received: 10/08/10 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Toluene-d8 (S)	99	%	70-130	1		10/12/10 16:09	2037-26-5	

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3035331

Sample: P-113 A **Lab ID: 3035331002** Collected: 10/06/10 10:00 Received: 10/08/10 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified							
Methane	**239**	ug/L	2.8	1		10/13/10 09:08	74-82-8	
8260 MSV	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/12/10 10:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/12/10 10:57	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/12/10 10:57	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/12/10 10:57	75-35-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/12/10 10:57	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/12/10 10:57	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 10:57	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/12/10 10:57	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/12/10 10:57	78-87-5	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 10:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 10:57	106-46-7	
2-Butanone (MEK)	ND	ug/L	20.0	1		10/12/10 10:57	78-93-3	
Acetone	ND	ug/L	20.0	1		10/12/10 10:57	67-64-1	L3
Benzene	ND	ug/L	1.0	1		10/12/10 10:57	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		10/12/10 10:57	75-27-4	
Bromoform	ND	ug/L	1.0	1		10/12/10 10:57	75-25-2	
Bromomethane	ND	ug/L	1.0	1		10/12/10 10:57	74-83-9	
Carbon disulfide	ND	ug/L	1.0	1		10/12/10 10:57	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		10/12/10 10:57	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/12/10 10:57	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/12/10 10:57	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/12/10 10:57	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/12/10 10:57	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		10/12/10 10:57	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		10/12/10 10:57	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/12/10 10:57	75-71-8	
Ethylbenzene	ND	ug/L	1.0	1		10/12/10 10:57	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/12/10 10:57	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		10/12/10 10:57	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/12/10 10:57	91-20-3	
Styrene	ND	ug/L	1.0	1		10/12/10 10:57	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/12/10 10:57	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1		10/12/10 10:57	109-99-9	
Toluene	ND	ug/L	1.0	1		10/12/10 10:57	108-88-3	
Trichloroethene	ND	ug/L	1.0	1		10/12/10 10:57	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/12/10 10:57	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		10/12/10 10:57	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/12/10 10:57	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/12/10 10:57	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/12/10 10:57	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/12/10 10:57	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/12/10 10:57	10061-02-6	
4-Bromofluorobenzene (S)	94	%	69-130	1		10/12/10 10:57	460-00-4	
Dibromofluoromethane (S)	97	%	70-134	1		10/12/10 10:57	1868-53-7	

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3035331

Sample: P-113 A **Lab ID: 3035331002** Collected: 10/06/10 10:00 Received: 10/08/10 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Toluene-d8 (S)	99	%	70-130	1		10/12/10 10:57	2037-26-5	

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3035331

Sample: P-113 B **Lab ID: 3035331003** Collected: 10/06/10 10:30 Received: 10/08/10 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified							
Methane	ND	ug/L	2.8	1		10/13/10 09:17	74-82-8	
8260 MSV	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/12/10 16:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/12/10 16:32	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/12/10 16:32	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/12/10 16:32	75-35-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/12/10 16:32	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/12/10 16:32	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 16:32	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/12/10 16:32	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/12/10 16:32	78-87-5	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 16:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 16:32	106-46-7	
2-Butanone (MEK)	ND	ug/L	20.0	1		10/12/10 16:32	78-93-3	
Acetone	ND	ug/L	20.0	1		10/12/10 16:32	67-64-1	L3
Benzene	ND	ug/L	1.0	1		10/12/10 16:32	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		10/12/10 16:32	75-27-4	
Bromoform	ND	ug/L	1.0	1		10/12/10 16:32	75-25-2	
Bromomethane	ND	ug/L	1.0	1		10/12/10 16:32	74-83-9	
Carbon disulfide	ND	ug/L	1.0	1		10/12/10 16:32	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		10/12/10 16:32	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/12/10 16:32	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/12/10 16:32	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/12/10 16:32	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/12/10 16:32	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		10/12/10 16:32	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		10/12/10 16:32	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/12/10 16:32	75-71-8	
Ethylbenzene	ND	ug/L	1.0	1		10/12/10 16:32	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/12/10 16:32	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		10/12/10 16:32	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/12/10 16:32	91-20-3	
Styrene	ND	ug/L	1.0	1		10/12/10 16:32	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/12/10 16:32	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1		10/12/10 16:32	109-99-9	
Toluene	ND	ug/L	1.0	1		10/12/10 16:32	108-88-3	
Trichloroethene	ND	ug/L	1.0	1		10/12/10 16:32	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/12/10 16:32	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		10/12/10 16:32	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/12/10 16:32	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/12/10 16:32	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/12/10 16:32	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/12/10 16:32	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/12/10 16:32	10061-02-6	
4-Bromofluorobenzene (S)	95	%	69-130	1		10/12/10 16:32	460-00-4	
Dibromofluoromethane (S)	97	%	70-134	1		10/12/10 16:32	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3035331

Sample: P-113 B **Lab ID: 3035331003** Collected: 10/06/10 10:30 Received: 10/08/10 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Toluene-d8 (S)	99	%	70-130	1		10/12/10 16:32	2037-26-5	

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3035331

Sample: P-116 **Lab ID: 3035331004** Collected: 10/06/10 12:30 Received: 10/08/10 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified							
Methane	**5.1**	ug/L	2.8	1		10/13/10 09:26	74-82-8	
8260 MSV	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/12/10 11:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/12/10 11:20	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/12/10 11:20	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/12/10 11:20	75-35-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/12/10 11:20	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/12/10 11:20	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 11:20	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/12/10 11:20	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/12/10 11:20	78-87-5	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 11:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 11:20	106-46-7	
2-Butanone (MEK)	ND	ug/L	20.0	1		10/12/10 11:20	78-93-3	
Acetone	ND	ug/L	20.0	1		10/12/10 11:20	67-64-1	L3
Benzene	ND	ug/L	1.0	1		10/12/10 11:20	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		10/12/10 11:20	75-27-4	
Bromoform	ND	ug/L	1.0	1		10/12/10 11:20	75-25-2	
Bromomethane	ND	ug/L	1.0	1		10/12/10 11:20	74-83-9	
Carbon disulfide	ND	ug/L	1.0	1		10/12/10 11:20	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		10/12/10 11:20	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/12/10 11:20	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/12/10 11:20	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/12/10 11:20	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/12/10 11:20	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		10/12/10 11:20	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		10/12/10 11:20	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/12/10 11:20	75-71-8	
Ethylbenzene	ND	ug/L	1.0	1		10/12/10 11:20	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/12/10 11:20	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		10/12/10 11:20	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/12/10 11:20	91-20-3	
Styrene	ND	ug/L	1.0	1		10/12/10 11:20	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/12/10 11:20	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1		10/12/10 11:20	109-99-9	
Toluene	ND	ug/L	1.0	1		10/12/10 11:20	108-88-3	
Trichloroethene	ND	ug/L	1.0	1		10/12/10 11:20	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/12/10 11:20	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		10/12/10 11:20	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/12/10 11:20	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/12/10 11:20	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/12/10 11:20	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/12/10 11:20	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/12/10 11:20	10061-02-6	
4-Bromofluorobenzene (S)	95	%	69-130	1		10/12/10 11:20	460-00-4	
Dibromofluoromethane (S)	98	%	70-134	1		10/12/10 11:20	1868-53-7	

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3035331

Sample: P-116 **Lab ID: 3035331004** Collected: 10/06/10 12:30 Received: 10/08/10 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Toluene-d8 (S)	98	%	70-130	1		10/12/10 11:20	2037-26-5	

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3035331

Sample: P-114 **Lab ID: 3035331005** Collected: 10/06/10 13:05 Received: 10/08/10 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified							
Methane	**186**	ug/L	5.6	2		10/13/10 10:40	74-82-8	
8260 MSV	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/12/10 16:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/12/10 16:55	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/12/10 16:55	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/12/10 16:55	75-35-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/12/10 16:55	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/12/10 16:55	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 16:55	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/12/10 16:55	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/12/10 16:55	78-87-5	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 16:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 16:55	106-46-7	
2-Butanone (MEK)	ND	ug/L	20.0	1		10/12/10 16:55	78-93-3	
Acetone	ND	ug/L	20.0	1		10/12/10 16:55	67-64-1	L3
Benzene	ND	ug/L	1.0	1		10/12/10 16:55	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		10/12/10 16:55	75-27-4	
Bromoform	ND	ug/L	1.0	1		10/12/10 16:55	75-25-2	
Bromomethane	ND	ug/L	1.0	1		10/12/10 16:55	74-83-9	
Carbon disulfide	ND	ug/L	1.0	1		10/12/10 16:55	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		10/12/10 16:55	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/12/10 16:55	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/12/10 16:55	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/12/10 16:55	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/12/10 16:55	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		10/12/10 16:55	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		10/12/10 16:55	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/12/10 16:55	75-71-8	
Ethylbenzene	ND	ug/L	1.0	1		10/12/10 16:55	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/12/10 16:55	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		10/12/10 16:55	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/12/10 16:55	91-20-3	
Styrene	ND	ug/L	1.0	1		10/12/10 16:55	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/12/10 16:55	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1		10/12/10 16:55	109-99-9	
Toluene	ND	ug/L	1.0	1		10/12/10 16:55	108-88-3	
Trichloroethene	ND	ug/L	1.0	1		10/12/10 16:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/12/10 16:55	75-69-4	
Vinyl chloride	**5.4**	ug/L	1.0	1		10/12/10 16:55	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/12/10 16:55	1330-20-7	
cis-1,2-Dichloroethene	**1.4**	ug/L	1.0	1		10/12/10 16:55	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/12/10 16:55	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/12/10 16:55	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/12/10 16:55	10061-02-6	
4-Bromofluorobenzene (S)	94	%	69-130	1		10/12/10 16:55	460-00-4	
Dibromofluoromethane (S)	94	%	70-134	1		10/12/10 16:55	1868-53-7	

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3035331

Sample: P-114 **Lab ID: 3035331005** Collected: 10/06/10 13:05 Received: 10/08/10 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Toluene-d8 (S)	99	%	70-130	1		10/12/10 16:55	2037-26-5	

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3035331

Sample: P-114 DUP **Lab ID: 3035331006** Collected: 10/06/10 13:10 Received: 10/08/10 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified							
Methane	**224**	ug/L	5.6	2		10/13/10 10:49	74-82-8	
8260 MSV	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/12/10 11:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/12/10 11:43	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/12/10 11:43	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/12/10 11:43	75-35-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/12/10 11:43	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/12/10 11:43	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 11:43	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/12/10 11:43	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/12/10 11:43	78-87-5	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 11:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 11:43	106-46-7	
2-Butanone (MEK)	ND	ug/L	20.0	1		10/12/10 11:43	78-93-3	
Acetone	ND	ug/L	20.0	1		10/12/10 11:43	67-64-1	L3
Benzene	ND	ug/L	1.0	1		10/12/10 11:43	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		10/12/10 11:43	75-27-4	
Bromoform	ND	ug/L	1.0	1		10/12/10 11:43	75-25-2	
Bromomethane	ND	ug/L	1.0	1		10/12/10 11:43	74-83-9	
Carbon disulfide	ND	ug/L	1.0	1		10/12/10 11:43	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		10/12/10 11:43	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/12/10 11:43	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/12/10 11:43	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/12/10 11:43	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/12/10 11:43	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		10/12/10 11:43	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		10/12/10 11:43	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/12/10 11:43	75-71-8	
Ethylbenzene	ND	ug/L	1.0	1		10/12/10 11:43	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/12/10 11:43	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		10/12/10 11:43	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/12/10 11:43	91-20-3	
Styrene	ND	ug/L	1.0	1		10/12/10 11:43	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/12/10 11:43	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1		10/12/10 11:43	109-99-9	
Toluene	ND	ug/L	1.0	1		10/12/10 11:43	108-88-3	
Trichloroethene	ND	ug/L	1.0	1		10/12/10 11:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/12/10 11:43	75-69-4	
Vinyl chloride	**5.4**	ug/L	1.0	1		10/12/10 11:43	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/12/10 11:43	1330-20-7	
cis-1,2-Dichloroethene	**1.3**	ug/L	1.0	1		10/12/10 11:43	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/12/10 11:43	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/12/10 11:43	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/12/10 11:43	10061-02-6	
4-Bromofluorobenzene (S)	94	%	69-130	1		10/12/10 11:43	460-00-4	
Dibromofluoromethane (S)	96	%	70-134	1		10/12/10 11:43	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3035331

Sample: P-114 DUP **Lab ID: 3035331006** Collected: 10/06/10 13:10 Received: 10/08/10 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Toluene-d8 (S)	98	%	70-130	1		10/12/10 11:43	2037-26-5	

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3035331

Sample: P-115 **Lab ID: 3035331007** Collected: 10/06/10 11:25 Received: 10/08/10 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified							
Methane	**56.2**	ug/L	2.8	1		10/13/10 09:53	74-82-8	
8260 MSV	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/12/10 17:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/12/10 17:18	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/12/10 17:18	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/12/10 17:18	75-35-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/12/10 17:18	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/12/10 17:18	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 17:18	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/12/10 17:18	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/12/10 17:18	78-87-5	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 17:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 17:18	106-46-7	
2-Butanone (MEK)	ND	ug/L	20.0	1		10/12/10 17:18	78-93-3	
Acetone	ND	ug/L	20.0	1		10/12/10 17:18	67-64-1	L3
Benzene	ND	ug/L	1.0	1		10/12/10 17:18	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		10/12/10 17:18	75-27-4	
Bromoform	ND	ug/L	1.0	1		10/12/10 17:18	75-25-2	
Bromomethane	ND	ug/L	1.0	1		10/12/10 17:18	74-83-9	
Carbon disulfide	ND	ug/L	1.0	1		10/12/10 17:18	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		10/12/10 17:18	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/12/10 17:18	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/12/10 17:18	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/12/10 17:18	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/12/10 17:18	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		10/12/10 17:18	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		10/12/10 17:18	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/12/10 17:18	75-71-8	
Ethylbenzene	ND	ug/L	1.0	1		10/12/10 17:18	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/12/10 17:18	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		10/12/10 17:18	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/12/10 17:18	91-20-3	
Styrene	ND	ug/L	1.0	1		10/12/10 17:18	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/12/10 17:18	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1		10/12/10 17:18	109-99-9	
Toluene	ND	ug/L	1.0	1		10/12/10 17:18	108-88-3	
Trichloroethene	ND	ug/L	1.0	1		10/12/10 17:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/12/10 17:18	75-69-4	
Vinyl chloride	**1.2**	ug/L	1.0	1		10/12/10 17:18	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/12/10 17:18	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/12/10 17:18	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/12/10 17:18	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/12/10 17:18	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/12/10 17:18	10061-02-6	
4-Bromofluorobenzene (S)	95	%	69-130	1		10/12/10 17:18	460-00-4	
Dibromofluoromethane (S)	97	%	70-134	1		10/12/10 17:18	1868-53-7	

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3035331

Sample: P-115 **Lab ID: 3035331007** Collected: 10/06/10 11:25 Received: 10/08/10 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Toluene-d8 (S)	98	%	70-130	1		10/12/10 17:18	2037-26-5	

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3035331

Sample: TB-1 **Lab ID: 3035331008** Collected: Received: 10/08/10 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/12/10 09:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/12/10 09:04	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/12/10 09:04	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/12/10 09:04	75-35-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/12/10 09:04	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/12/10 09:04	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 09:04	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/12/10 09:04	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/12/10 09:04	78-87-5	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 09:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 09:04	106-46-7	
2-Butanone (MEK)	ND	ug/L	20.0	1		10/12/10 09:04	78-93-3	
Acetone	ND	ug/L	20.0	1		10/12/10 09:04	67-64-1	L3
Benzene	ND	ug/L	1.0	1		10/12/10 09:04	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		10/12/10 09:04	75-27-4	
Bromoform	ND	ug/L	1.0	1		10/12/10 09:04	75-25-2	
Bromomethane	ND	ug/L	1.0	1		10/12/10 09:04	74-83-9	
Carbon disulfide	ND	ug/L	1.0	1		10/12/10 09:04	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		10/12/10 09:04	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/12/10 09:04	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/12/10 09:04	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/12/10 09:04	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/12/10 09:04	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		10/12/10 09:04	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		10/12/10 09:04	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/12/10 09:04	75-71-8	
Ethylbenzene	ND	ug/L	1.0	1		10/12/10 09:04	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/12/10 09:04	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		10/12/10 09:04	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/12/10 09:04	91-20-3	
Styrene	ND	ug/L	1.0	1		10/12/10 09:04	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/12/10 09:04	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1		10/12/10 09:04	109-99-9	
Toluene	ND	ug/L	1.0	1		10/12/10 09:04	108-88-3	
Trichloroethene	ND	ug/L	1.0	1		10/12/10 09:04	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/12/10 09:04	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		10/12/10 09:04	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/12/10 09:04	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/12/10 09:04	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/12/10 09:04	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/12/10 09:04	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/12/10 09:04	10061-02-6	
4-Bromofluorobenzene (S)	93	%	69-130	1		10/12/10 09:04	460-00-4	
Dibromofluoromethane (S)	93	%	70-134	1		10/12/10 09:04	1868-53-7	
Toluene-d8 (S)	98	%	70-130	1		10/12/10 09:04	2037-26-5	

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3035331

Sample: MW-107 **Lab ID: 3035331009** Collected: 10/04/10 18:15 Received: 10/08/10 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified							
Methane	ND	ug/L	2.8	1		10/13/10 06:51	74-82-8	
8260 MSV	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/13/10 13:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/13/10 13:23	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/13/10 13:23	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/13/10 13:23	75-35-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/13/10 13:23	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/13/10 13:23	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/13/10 13:23	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/13/10 13:23	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/13/10 13:23	78-87-5	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/13/10 13:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/13/10 13:23	106-46-7	
2-Butanone (MEK)	ND	ug/L	20.0	1		10/13/10 13:23	78-93-3	
Acetone	ND	ug/L	20.0	1		10/13/10 13:23	67-64-1	L3
Benzene	ND	ug/L	1.0	1		10/13/10 13:23	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		10/13/10 13:23	75-27-4	
Bromoform	ND	ug/L	1.0	1		10/13/10 13:23	75-25-2	
Bromomethane	ND	ug/L	1.0	1		10/13/10 13:23	74-83-9	
Carbon disulfide	ND	ug/L	1.0	1		10/13/10 13:23	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		10/13/10 13:23	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/13/10 13:23	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/13/10 13:23	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/13/10 13:23	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/13/10 13:23	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		10/13/10 13:23	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		10/13/10 13:23	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/13/10 13:23	75-71-8	
Ethylbenzene	ND	ug/L	1.0	1		10/13/10 13:23	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/13/10 13:23	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		10/13/10 13:23	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/13/10 13:23	91-20-3	
Styrene	ND	ug/L	1.0	1		10/13/10 13:23	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/13/10 13:23	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1		10/13/10 13:23	109-99-9	
Toluene	ND	ug/L	1.0	1		10/13/10 13:23	108-88-3	
Trichloroethene	ND	ug/L	1.0	1		10/13/10 13:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/13/10 13:23	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		10/13/10 13:23	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/13/10 13:23	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/13/10 13:23	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/13/10 13:23	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/13/10 13:23	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/13/10 13:23	10061-02-6	
4-Bromofluorobenzene (S)	97	%	69-130	1		10/13/10 13:23	460-00-4	
Dibromofluoromethane (S)	104	%	70-134	1		10/13/10 13:23	1868-53-7	

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3035331

Sample: MW-107 **Lab ID: 3035331009** Collected: 10/04/10 18:15 Received: 10/08/10 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Toluene-d8 (S)	102	%	70-130	1		10/13/10 13:23	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3035331

Sample: MW-111 **Lab ID: 3035331010** Collected: 10/04/10 18:45 Received: 10/08/10 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified							
Methane	ND	ug/L	2.8	1		10/13/10 07:00	74-82-8	
8260 MSV	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/12/10 12:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/12/10 12:05	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/12/10 12:05	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/12/10 12:05	75-35-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/12/10 12:05	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/12/10 12:05	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 12:05	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/12/10 12:05	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/12/10 12:05	78-87-5	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 12:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 12:05	106-46-7	
2-Butanone (MEK)	ND	ug/L	20.0	1		10/12/10 12:05	78-93-3	
Acetone	ND	ug/L	20.0	1		10/12/10 12:05	67-64-1	L3
Benzene	ND	ug/L	1.0	1		10/12/10 12:05	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		10/12/10 12:05	75-27-4	
Bromoform	ND	ug/L	1.0	1		10/12/10 12:05	75-25-2	
Bromomethane	ND	ug/L	1.0	1		10/12/10 12:05	74-83-9	
Carbon disulfide	ND	ug/L	1.0	1		10/12/10 12:05	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		10/12/10 12:05	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/12/10 12:05	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/12/10 12:05	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/12/10 12:05	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/12/10 12:05	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		10/12/10 12:05	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		10/12/10 12:05	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/12/10 12:05	75-71-8	
Ethylbenzene	ND	ug/L	1.0	1		10/12/10 12:05	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/12/10 12:05	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		10/12/10 12:05	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/12/10 12:05	91-20-3	
Styrene	ND	ug/L	1.0	1		10/12/10 12:05	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/12/10 12:05	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1		10/12/10 12:05	109-99-9	
Toluene	ND	ug/L	1.0	1		10/12/10 12:05	108-88-3	
Trichloroethene	ND	ug/L	1.0	1		10/12/10 12:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/12/10 12:05	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		10/12/10 12:05	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/12/10 12:05	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/12/10 12:05	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/12/10 12:05	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/12/10 12:05	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/12/10 12:05	10061-02-6	
4-Bromofluorobenzene (S)	93	%	69-130	1		10/12/10 12:05	460-00-4	
Dibromofluoromethane (S)	97	%	70-134	1		10/12/10 12:05	1868-53-7	

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3035331

Sample: MW-111 **Lab ID: 3035331010** Collected: 10/04/10 18:45 Received: 10/08/10 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Toluene-d8 (S)	99	%	70-130	1		10/12/10 12:05	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3035331

Sample: MW-103 **Lab ID: 3035331011** Collected: 10/04/10 17:45 Received: 10/08/10 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified							
Methane	ND	ug/L	2.8	1		10/13/10 07:09	74-82-8	
8260 MSV	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/12/10 12:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/12/10 12:28	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/12/10 12:28	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/12/10 12:28	75-35-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/12/10 12:28	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/12/10 12:28	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 12:28	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/12/10 12:28	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/12/10 12:28	78-87-5	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 12:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 12:28	106-46-7	
2-Butanone (MEK)	ND	ug/L	20.0	1		10/12/10 12:28	78-93-3	
Acetone	ND	ug/L	20.0	1		10/12/10 12:28	67-64-1	L3
Benzene	ND	ug/L	1.0	1		10/12/10 12:28	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		10/12/10 12:28	75-27-4	
Bromoform	ND	ug/L	1.0	1		10/12/10 12:28	75-25-2	
Bromomethane	ND	ug/L	1.0	1		10/12/10 12:28	74-83-9	
Carbon disulfide	ND	ug/L	1.0	1		10/12/10 12:28	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		10/12/10 12:28	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/12/10 12:28	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/12/10 12:28	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/12/10 12:28	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/12/10 12:28	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		10/12/10 12:28	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		10/12/10 12:28	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/12/10 12:28	75-71-8	
Ethylbenzene	ND	ug/L	1.0	1		10/12/10 12:28	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/12/10 12:28	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		10/12/10 12:28	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/12/10 12:28	91-20-3	
Styrene	ND	ug/L	1.0	1		10/12/10 12:28	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/12/10 12:28	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1		10/12/10 12:28	109-99-9	
Toluene	ND	ug/L	1.0	1		10/12/10 12:28	108-88-3	
Trichloroethene	2.4	ug/L	1.0	1		10/12/10 12:28	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/12/10 12:28	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		10/12/10 12:28	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/12/10 12:28	1330-20-7	
cis-1,2-Dichloroethene	3.5	ug/L	1.0	1		10/12/10 12:28	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/12/10 12:28	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/12/10 12:28	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/12/10 12:28	10061-02-6	
4-Bromofluorobenzene (S)	93	%	69-130	1		10/12/10 12:28	460-00-4	
Dibromofluoromethane (S)	98	%	70-134	1		10/12/10 12:28	1868-53-7	

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3035331

Sample: MW-103 **Lab ID: 3035331011** Collected: 10/04/10 17:45 Received: 10/08/10 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Toluene-d8 (S)	98	%	70-130	1		10/12/10 12:28	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3035331

Sample: MW-101 **Lab ID: 3035331012** Collected: 10/04/10 16:30 Received: 10/08/10 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified							
Methane	**13.6**	ug/L	2.8	1		10/13/10 07:18	74-82-8	
8260 MSV	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/12/10 12:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/12/10 12:51	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/12/10 12:51	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/12/10 12:51	75-35-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/12/10 12:51	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/12/10 12:51	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 12:51	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/12/10 12:51	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/12/10 12:51	78-87-5	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 12:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 12:51	106-46-7	
2-Butanone (MEK)	ND	ug/L	20.0	1		10/12/10 12:51	78-93-3	
Acetone	ND	ug/L	20.0	1		10/12/10 12:51	67-64-1	L3
Benzene	ND	ug/L	1.0	1		10/12/10 12:51	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		10/12/10 12:51	75-27-4	
Bromoform	ND	ug/L	1.0	1		10/12/10 12:51	75-25-2	
Bromomethane	ND	ug/L	1.0	1		10/12/10 12:51	74-83-9	
Carbon disulfide	ND	ug/L	1.0	1		10/12/10 12:51	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		10/12/10 12:51	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/12/10 12:51	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/12/10 12:51	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/12/10 12:51	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/12/10 12:51	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		10/12/10 12:51	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		10/12/10 12:51	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/12/10 12:51	75-71-8	
Ethylbenzene	ND	ug/L	1.0	1		10/12/10 12:51	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/12/10 12:51	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		10/12/10 12:51	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/12/10 12:51	91-20-3	
Styrene	ND	ug/L	1.0	1		10/12/10 12:51	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/12/10 12:51	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1		10/12/10 12:51	109-99-9	
Toluene	ND	ug/L	1.0	1		10/12/10 12:51	108-88-3	
Trichloroethene	ND	ug/L	1.0	1		10/12/10 12:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/12/10 12:51	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		10/12/10 12:51	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/12/10 12:51	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/12/10 12:51	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/12/10 12:51	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/12/10 12:51	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/12/10 12:51	10061-02-6	
4-Bromofluorobenzene (S)	94	%	69-130	1		10/12/10 12:51	460-00-4	
Dibromofluoromethane (S)	97	%	70-134	1		10/12/10 12:51	1868-53-7	

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3035331

Sample: MW-101 **Lab ID: 3035331012** Collected: 10/04/10 16:30 Received: 10/08/10 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Toluene-d8 (S)	99	%	70-130	1		10/12/10 12:51	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3035331

Sample: P-101 **Lab ID: 3035331013** Collected: 10/04/10 16:45 Received: 10/08/10 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified							
Methane	ND	ug/L	2.8	1		10/13/10 07:27	74-82-8	
8260 MSV	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/12/10 08:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/12/10 08:41	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/12/10 08:41	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/12/10 08:41	75-35-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/12/10 08:41	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/12/10 08:41	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 08:41	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/12/10 08:41	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/12/10 08:41	78-87-5	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 08:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 08:41	106-46-7	
2-Butanone (MEK)	ND	ug/L	20.0	1		10/12/10 08:41	78-93-3	
Acetone	ND	ug/L	20.0	1		10/12/10 08:41	67-64-1	L3
Benzene	ND	ug/L	1.0	1		10/12/10 08:41	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		10/12/10 08:41	75-27-4	
Bromoform	ND	ug/L	1.0	1		10/12/10 08:41	75-25-2	
Bromomethane	ND	ug/L	1.0	1		10/12/10 08:41	74-83-9	
Carbon disulfide	ND	ug/L	1.0	1		10/12/10 08:41	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		10/12/10 08:41	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/12/10 08:41	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/12/10 08:41	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/12/10 08:41	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/12/10 08:41	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		10/12/10 08:41	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		10/12/10 08:41	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/12/10 08:41	75-71-8	
Ethylbenzene	ND	ug/L	1.0	1		10/12/10 08:41	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/12/10 08:41	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		10/12/10 08:41	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/12/10 08:41	91-20-3	
Styrene	ND	ug/L	1.0	1		10/12/10 08:41	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/12/10 08:41	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1		10/12/10 08:41	109-99-9	
Toluene	ND	ug/L	1.0	1		10/12/10 08:41	108-88-3	
Trichloroethene	ND	ug/L	1.0	1		10/12/10 08:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/12/10 08:41	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		10/12/10 08:41	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/12/10 08:41	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/12/10 08:41	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/12/10 08:41	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/12/10 08:41	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/12/10 08:41	10061-02-6	
4-Bromofluorobenzene (S)	95	%	69-130	1		10/12/10 08:41	460-00-4	
Dibromofluoromethane (S)	98	%	70-134	1		10/12/10 08:41	1868-53-7	

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3035331

Sample: P-101 **Lab ID: 3035331013** Collected: 10/04/10 16:45 Received: 10/08/10 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Toluene-d8 (S)	98	%	70-130	1		10/12/10 08:41	2037-26-5	

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3035331

Sample: P-111 D **Lab ID: 3035331014** Collected: 10/05/10 10:25 Received: 10/08/10 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified							
Methane	**269**	ug/L	2.8	1		10/13/10 07:36	74-82-8	
8260 MSV	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/12/10 09:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/12/10 09:26	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/12/10 09:26	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/12/10 09:26	75-35-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/12/10 09:26	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/12/10 09:26	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 09:26	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/12/10 09:26	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/12/10 09:26	78-87-5	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 09:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 09:26	106-46-7	
2-Butanone (MEK)	ND	ug/L	20.0	1		10/12/10 09:26	78-93-3	
Acetone	ND	ug/L	20.0	1		10/12/10 09:26	67-64-1	L3
Benzene	ND	ug/L	1.0	1		10/12/10 09:26	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		10/12/10 09:26	75-27-4	
Bromoform	ND	ug/L	1.0	1		10/12/10 09:26	75-25-2	
Bromomethane	ND	ug/L	1.0	1		10/12/10 09:26	74-83-9	
Carbon disulfide	ND	ug/L	1.0	1		10/12/10 09:26	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		10/12/10 09:26	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/12/10 09:26	108-90-7	
Chloroethane	**1.5**	ug/L	1.0	1		10/12/10 09:26	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/12/10 09:26	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/12/10 09:26	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		10/12/10 09:26	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		10/12/10 09:26	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/12/10 09:26	75-71-8	
Ethylbenzene	ND	ug/L	1.0	1		10/12/10 09:26	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/12/10 09:26	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		10/12/10 09:26	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/12/10 09:26	91-20-3	
Styrene	ND	ug/L	1.0	1		10/12/10 09:26	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/12/10 09:26	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1		10/12/10 09:26	109-99-9	
Toluene	ND	ug/L	1.0	1		10/12/10 09:26	108-88-3	
Trichloroethene	ND	ug/L	1.0	1		10/12/10 09:26	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/12/10 09:26	75-69-4	
Vinyl chloride	**4.7**	ug/L	1.0	1		10/12/10 09:26	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/12/10 09:26	1330-20-7	
cis-1,2-Dichloroethene	**1.3**	ug/L	1.0	1		10/12/10 09:26	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/12/10 09:26	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/12/10 09:26	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/12/10 09:26	10061-02-6	
4-Bromofluorobenzene (S)	97	%	69-130	1		10/12/10 09:26	460-00-4	
Dibromofluoromethane (S)	98	%	70-134	1		10/12/10 09:26	1868-53-7	

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3035331

Sample: P-111 D **Lab ID: 3035331014** Collected: 10/05/10 10:25 Received: 10/08/10 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Toluene-d8 (S)	98	%	70-130	1		10/12/10 09:26	2037-26-5	

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3035331

Sample: P-111 D DUP **Lab ID: 3035331015** Collected: 10/05/10 10:30 Received: 10/08/10 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified							
Methane	**222**	ug/L	2.8	1		10/13/10 07:45	74-82-8	
8260 MSV	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/12/10 13:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/12/10 13:14	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/12/10 13:14	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/12/10 13:14	75-35-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/12/10 13:14	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/12/10 13:14	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 13:14	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/12/10 13:14	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/12/10 13:14	78-87-5	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 13:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 13:14	106-46-7	
2-Butanone (MEK)	ND	ug/L	20.0	1		10/12/10 13:14	78-93-3	
Acetone	ND	ug/L	20.0	1		10/12/10 13:14	67-64-1	L3
Benzene	ND	ug/L	1.0	1		10/12/10 13:14	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		10/12/10 13:14	75-27-4	
Bromoform	ND	ug/L	1.0	1		10/12/10 13:14	75-25-2	
Bromomethane	ND	ug/L	1.0	1		10/12/10 13:14	74-83-9	
Carbon disulfide	ND	ug/L	1.0	1		10/12/10 13:14	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		10/12/10 13:14	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/12/10 13:14	108-90-7	
Chloroethane	**1.6**	ug/L	1.0	1		10/12/10 13:14	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/12/10 13:14	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/12/10 13:14	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		10/12/10 13:14	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		10/12/10 13:14	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/12/10 13:14	75-71-8	
Ethylbenzene	ND	ug/L	1.0	1		10/12/10 13:14	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/12/10 13:14	1634-04-4	
Methylene Chloride	**1.2**	ug/L	1.0	1		10/12/10 13:14	75-09-2	Z3
Naphthalene	ND	ug/L	5.0	1		10/12/10 13:14	91-20-3	
Styrene	ND	ug/L	1.0	1		10/12/10 13:14	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/12/10 13:14	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1		10/12/10 13:14	109-99-9	
Toluene	ND	ug/L	1.0	1		10/12/10 13:14	108-88-3	
Trichloroethene	ND	ug/L	1.0	1		10/12/10 13:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/12/10 13:14	75-69-4	
Vinyl chloride	**4.7**	ug/L	1.0	1		10/12/10 13:14	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/12/10 13:14	1330-20-7	
cis-1,2-Dichloroethene	**1.3**	ug/L	1.0	1		10/12/10 13:14	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/12/10 13:14	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/12/10 13:14	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/12/10 13:14	10061-02-6	
4-Bromofluorobenzene (S)	95	%	69-130	1		10/12/10 13:14	460-00-4	
Dibromofluoromethane (S)	99	%	70-134	1		10/12/10 13:14	1868-53-7	

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3035331

Sample: P-111 D DUP **Lab ID: 3035331015** Collected: 10/05/10 10:30 Received: 10/08/10 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Toluene-d8 (S)	98	%	70-130	1		10/12/10 13:14	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3035331

Sample: P-111 **Lab ID: 3035331016** Collected: 10/05/10 10:50 Received: 10/08/10 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified							
Methane	**6.5**	ug/L	2.8	1		10/13/10 07:54	74-82-8	
8260 MSV	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/12/10 09:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/12/10 09:49	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/12/10 09:49	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/12/10 09:49	75-35-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/12/10 09:49	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/12/10 09:49	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 09:49	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/12/10 09:49	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/12/10 09:49	78-87-5	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 09:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 09:49	106-46-7	
2-Butanone (MEK)	ND	ug/L	20.0	1		10/12/10 09:49	78-93-3	
Acetone	ND	ug/L	20.0	1		10/12/10 09:49	67-64-1	L3
Benzene	ND	ug/L	1.0	1		10/12/10 09:49	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		10/12/10 09:49	75-27-4	
Bromoform	ND	ug/L	1.0	1		10/12/10 09:49	75-25-2	
Bromomethane	ND	ug/L	1.0	1		10/12/10 09:49	74-83-9	
Carbon disulfide	ND	ug/L	1.0	1		10/12/10 09:49	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		10/12/10 09:49	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/12/10 09:49	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/12/10 09:49	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/12/10 09:49	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/12/10 09:49	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		10/12/10 09:49	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		10/12/10 09:49	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/12/10 09:49	75-71-8	
Ethylbenzene	ND	ug/L	1.0	1		10/12/10 09:49	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/12/10 09:49	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		10/12/10 09:49	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/12/10 09:49	91-20-3	
Styrene	ND	ug/L	1.0	1		10/12/10 09:49	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/12/10 09:49	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1		10/12/10 09:49	109-99-9	
Toluene	ND	ug/L	1.0	1		10/12/10 09:49	108-88-3	
Trichloroethene	ND	ug/L	1.0	1		10/12/10 09:49	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/12/10 09:49	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		10/12/10 09:49	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/12/10 09:49	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/12/10 09:49	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/12/10 09:49	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/12/10 09:49	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/12/10 09:49	10061-02-6	
4-Bromofluorobenzene (S)	94	%	69-130	1		10/12/10 09:49	460-00-4	
Dibromofluoromethane (S)	96	%	70-134	1		10/12/10 09:49	1868-53-7	

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3035331

Sample: P-111 **Lab ID: 3035331016** Collected: 10/05/10 10:50 Received: 10/08/10 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Toluene-d8 (S)	96	%	70-130	1		10/12/10 09:49	2037-26-5	

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3035331

Sample: P-107 **Lab ID: 3035331017** Collected: 10/05/10 14:10 Received: 10/08/10 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified							
Methane	**345**	ug/L	11.2	4		10/13/10 10:31	74-82-8	
8260 MSV	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/12/10 13:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/12/10 13:36	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/12/10 13:36	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/12/10 13:36	75-35-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/12/10 13:36	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/12/10 13:36	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 13:36	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/12/10 13:36	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/12/10 13:36	78-87-5	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 13:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 13:36	106-46-7	
2-Butanone (MEK)	ND	ug/L	20.0	1		10/12/10 13:36	78-93-3	
Acetone	ND	ug/L	20.0	1		10/12/10 13:36	67-64-1	L3
Benzene	ND	ug/L	1.0	1		10/12/10 13:36	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		10/12/10 13:36	75-27-4	
Bromoform	ND	ug/L	1.0	1		10/12/10 13:36	75-25-2	
Bromomethane	ND	ug/L	1.0	1		10/12/10 13:36	74-83-9	
Carbon disulfide	ND	ug/L	1.0	1		10/12/10 13:36	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		10/12/10 13:36	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/12/10 13:36	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/12/10 13:36	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/12/10 13:36	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/12/10 13:36	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		10/12/10 13:36	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		10/12/10 13:36	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/12/10 13:36	75-71-8	
Ethylbenzene	ND	ug/L	1.0	1		10/12/10 13:36	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/12/10 13:36	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		10/12/10 13:36	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/12/10 13:36	91-20-3	
Styrene	ND	ug/L	1.0	1		10/12/10 13:36	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/12/10 13:36	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1		10/12/10 13:36	109-99-9	
Toluene	ND	ug/L	1.0	1		10/12/10 13:36	108-88-3	
Trichloroethene	ND	ug/L	1.0	1		10/12/10 13:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/12/10 13:36	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		10/12/10 13:36	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/12/10 13:36	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/12/10 13:36	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/12/10 13:36	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/12/10 13:36	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/12/10 13:36	10061-02-6	
4-Bromofluorobenzene (S)	97	%	69-130	1		10/12/10 13:36	460-00-4	
Dibromofluoromethane (S)	98	%	70-134	1		10/12/10 13:36	1868-53-7	

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3035331

Sample: P-107 **Lab ID: 3035331017** Collected: 10/05/10 14:10 Received: 10/08/10 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Toluene-d8 (S)	99	%	70-130	1		10/12/10 13:36	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3035331

Sample: MW-3 A **Lab ID: 3035331018** Collected: 10/05/10 15:30 Received: 10/08/10 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified							
Methane	**39.7**	ug/L	2.8	1		10/13/10 08:12	74-82-8	
8260 MSV	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/12/10 10:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/12/10 10:12	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/12/10 10:12	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/12/10 10:12	75-35-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/12/10 10:12	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/12/10 10:12	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 10:12	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/12/10 10:12	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/12/10 10:12	78-87-5	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 10:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 10:12	106-46-7	
2-Butanone (MEK)	ND	ug/L	20.0	1		10/12/10 10:12	78-93-3	
Acetone	ND	ug/L	20.0	1		10/12/10 10:12	67-64-1	L3
Benzene	ND	ug/L	1.0	1		10/12/10 10:12	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		10/12/10 10:12	75-27-4	
Bromoform	ND	ug/L	1.0	1		10/12/10 10:12	75-25-2	
Bromomethane	ND	ug/L	1.0	1		10/12/10 10:12	74-83-9	
Carbon disulfide	ND	ug/L	1.0	1		10/12/10 10:12	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		10/12/10 10:12	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/12/10 10:12	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/12/10 10:12	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/12/10 10:12	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/12/10 10:12	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		10/12/10 10:12	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		10/12/10 10:12	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/12/10 10:12	75-71-8	
Ethylbenzene	ND	ug/L	1.0	1		10/12/10 10:12	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/12/10 10:12	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		10/12/10 10:12	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/12/10 10:12	91-20-3	
Styrene	ND	ug/L	1.0	1		10/12/10 10:12	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/12/10 10:12	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1		10/12/10 10:12	109-99-9	
Toluene	ND	ug/L	1.0	1		10/12/10 10:12	108-88-3	
Trichloroethene	ND	ug/L	1.0	1		10/12/10 10:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/12/10 10:12	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		10/12/10 10:12	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/12/10 10:12	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/12/10 10:12	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/12/10 10:12	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/12/10 10:12	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/12/10 10:12	10061-02-6	
4-Bromofluorobenzene (S)	96	%	69-130	1		10/12/10 10:12	460-00-4	
Dibromofluoromethane (S)	96	%	70-134	1		10/12/10 10:12	1868-53-7	

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3035331

Sample: MW-3 A **Lab ID: 3035331018** Collected: 10/05/10 15:30 Received: 10/08/10 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Toluene-d8 (S)	100	%	70-130	1		10/12/10 10:12	2037-26-5	

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3035331

Sample: MW-3 B **Lab ID: 3035331019** Collected: 10/05/10 15:00 Received: 10/08/10 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified							
Methane	**15.9**	ug/L	2.8	1		10/13/10 08:33	74-82-8	
8260 MSV	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/12/10 13:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/12/10 13:59	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/12/10 13:59	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/12/10 13:59	75-35-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/12/10 13:59	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/12/10 13:59	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 13:59	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/12/10 13:59	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/12/10 13:59	78-87-5	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 13:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 13:59	106-46-7	
2-Butanone (MEK)	ND	ug/L	20.0	1		10/12/10 13:59	78-93-3	
Acetone	ND	ug/L	20.0	1		10/12/10 13:59	67-64-1	L3
Benzene	ND	ug/L	1.0	1		10/12/10 13:59	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		10/12/10 13:59	75-27-4	
Bromoform	ND	ug/L	1.0	1		10/12/10 13:59	75-25-2	
Bromomethane	ND	ug/L	1.0	1		10/12/10 13:59	74-83-9	
Carbon disulfide	ND	ug/L	1.0	1		10/12/10 13:59	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		10/12/10 13:59	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/12/10 13:59	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/12/10 13:59	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/12/10 13:59	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/12/10 13:59	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		10/12/10 13:59	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		10/12/10 13:59	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/12/10 13:59	75-71-8	
Ethylbenzene	ND	ug/L	1.0	1		10/12/10 13:59	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/12/10 13:59	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		10/12/10 13:59	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/12/10 13:59	91-20-3	
Styrene	ND	ug/L	1.0	1		10/12/10 13:59	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/12/10 13:59	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1		10/12/10 13:59	109-99-9	
Toluene	ND	ug/L	1.0	1		10/12/10 13:59	108-88-3	
Trichloroethene	ND	ug/L	1.0	1		10/12/10 13:59	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/12/10 13:59	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		10/12/10 13:59	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/12/10 13:59	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/12/10 13:59	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/12/10 13:59	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/12/10 13:59	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/12/10 13:59	10061-02-6	
4-Bromofluorobenzene (S)	93	%	69-130	1		10/12/10 13:59	460-00-4	
Dibromofluoromethane (S)	98	%	70-134	1		10/12/10 13:59	1868-53-7	

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3035331

Sample: MW-3 B **Lab ID: 3035331019** Collected: 10/05/10 15:00 Received: 10/08/10 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Toluene-d8 (S)	98	%	70-130	1		10/12/10 13:59	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3035331

Sample: P-103 **Lab ID: 3035331020** Collected: 10/05/10 12:45 Received: 10/08/10 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified							
Methane	**23.5**	ug/L	2.8	1		10/13/10 08:42	74-82-8	
8260 MSV	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/12/10 14:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/12/10 14:22	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/12/10 14:22	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/12/10 14:22	75-35-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/12/10 14:22	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/12/10 14:22	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 14:22	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/12/10 14:22	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/12/10 14:22	78-87-5	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 14:22	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 14:22	106-46-7	
2-Butanone (MEK)	ND	ug/L	20.0	1		10/12/10 14:22	78-93-3	
Acetone	ND	ug/L	20.0	1		10/12/10 14:22	67-64-1	L3
Benzene	ND	ug/L	1.0	1		10/12/10 14:22	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		10/12/10 14:22	75-27-4	
Bromoform	ND	ug/L	1.0	1		10/12/10 14:22	75-25-2	
Bromomethane	ND	ug/L	1.0	1		10/12/10 14:22	74-83-9	
Carbon disulfide	ND	ug/L	1.0	1		10/12/10 14:22	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		10/12/10 14:22	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/12/10 14:22	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/12/10 14:22	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/12/10 14:22	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/12/10 14:22	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		10/12/10 14:22	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		10/12/10 14:22	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/12/10 14:22	75-71-8	
Ethylbenzene	ND	ug/L	1.0	1		10/12/10 14:22	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/12/10 14:22	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		10/12/10 14:22	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/12/10 14:22	91-20-3	
Styrene	ND	ug/L	1.0	1		10/12/10 14:22	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/12/10 14:22	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1		10/12/10 14:22	109-99-9	
Toluene	ND	ug/L	1.0	1		10/12/10 14:22	108-88-3	
Trichloroethene	ND	ug/L	1.0	1		10/12/10 14:22	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/12/10 14:22	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		10/12/10 14:22	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/12/10 14:22	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/12/10 14:22	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/12/10 14:22	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/12/10 14:22	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/12/10 14:22	10061-02-6	
4-Bromofluorobenzene (S)	93	%	69-130	1		10/12/10 14:22	460-00-4	
Dibromofluoromethane (S)	96	%	70-134	1		10/12/10 14:22	1868-53-7	

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3035331

Sample: P-103 **Lab ID: 3035331020** Collected: 10/05/10 12:45 Received: 10/08/10 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Toluene-d8 (S)	97	%	70-130	1		10/12/10 14:22	2037-26-5	

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3035331

Sample: P-103 D **Lab ID: 3035331021** Collected: 10/05/10 12:20 Received: 10/08/10 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified							
Methane	**65.9**	ug/L	2.8	1		10/13/10 08:51	74-82-8	
8260 MSV	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/12/10 10:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/12/10 10:35	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		10/12/10 10:35	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		10/12/10 10:35	75-35-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		10/12/10 10:35	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/12/10 10:35	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 10:35	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/12/10 10:35	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/12/10 10:35	78-87-5	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 10:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/12/10 10:35	106-46-7	
2-Butanone (MEK)	ND	ug/L	20.0	1		10/12/10 10:35	78-93-3	
Acetone	ND	ug/L	20.0	1		10/12/10 10:35	67-64-1	L3
Benzene	ND	ug/L	1.0	1		10/12/10 10:35	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		10/12/10 10:35	75-27-4	
Bromoform	ND	ug/L	1.0	1		10/12/10 10:35	75-25-2	
Bromomethane	ND	ug/L	1.0	1		10/12/10 10:35	74-83-9	
Carbon disulfide	ND	ug/L	1.0	1		10/12/10 10:35	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		10/12/10 10:35	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		10/12/10 10:35	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/12/10 10:35	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/12/10 10:35	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/12/10 10:35	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		10/12/10 10:35	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		10/12/10 10:35	74-95-3	
Dichlorodifluoromethane	ND	ug/L	1.0	1		10/12/10 10:35	75-71-8	
Ethylbenzene	ND	ug/L	1.0	1		10/12/10 10:35	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/12/10 10:35	1634-04-4	
Methylene Chloride	ND	ug/L	1.0	1		10/12/10 10:35	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/12/10 10:35	91-20-3	
Styrene	ND	ug/L	1.0	1		10/12/10 10:35	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/12/10 10:35	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1		10/12/10 10:35	109-99-9	
Toluene	ND	ug/L	1.0	1		10/12/10 10:35	108-88-3	
Trichloroethene	ND	ug/L	1.0	1		10/12/10 10:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/12/10 10:35	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		10/12/10 10:35	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		10/12/10 10:35	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		10/12/10 10:35	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/12/10 10:35	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		10/12/10 10:35	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/12/10 10:35	10061-02-6	
4-Bromofluorobenzene (S)	93	%	69-130	1		10/12/10 10:35	460-00-4	
Dibromofluoromethane (S)	95	%	70-134	1		10/12/10 10:35	1868-53-7	

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3035331

Sample: P-103 D **Lab ID: 3035331021** Collected: 10/05/10 12:20 Received: 10/08/10 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Toluene-d8 (S)	98	%	70-130	1		10/12/10 10:35	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Ripon FF/NN Landfill
Pace Project No.: 3035331

QC Batch: GCV/5711 Analysis Method: EPA 8015B Modified
QC Batch Method: EPA 8015B Modified Analysis Description: Methane, Ethane, Ethene GCV
Associated Lab Samples: 3035331001, 3035331002, 3035331003, 3035331004, 3035331005, 3035331006, 3035331007, 3035331009, 3035331010, 3035331011, 3035331012, 3035331013, 3035331014, 3035331015, 3035331016, 3035331017, 3035331018, 3035331019, 3035331020, 3035331021

METHOD BLANK: 368998 Matrix: Water
Associated Lab Samples: 3035331001, 3035331002, 3035331003, 3035331004, 3035331005, 3035331006, 3035331007, 3035331009, 3035331010, 3035331011, 3035331012, 3035331013, 3035331014, 3035331015, 3035331016, 3035331017, 3035331018, 3035331019, 3035331020, 3035331021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methane	ug/L	ND	2.8	10/13/10 06:33	

LABORATORY CONTROL SAMPLE & LCSD: 368999 369000

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	ug/L	28.4	26.2	26.5	92	93	80-120	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 369065 369066

Parameter	Units	3035331010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Methane	ug/L	ND	28.4	28.4	26.2	25.8	92	91	74-125	2	

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QUALITY CONTROL DATA

Project: Ripon FF/NN Landfill
Pace Project No.: 3035331

QC Batch: MSV/9290 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3035331001, 3035331002, 3035331003, 3035331004, 3035331005, 3035331006, 3035331007, 3035331008, 3035331010, 3035331011, 3035331012, 3035331013, 3035331014, 3035331015, 3035331016, 3035331017, 3035331018, 3035331019, 3035331020, 3035331021

METHOD BLANK: 368528 Matrix: Water
Associated Lab Samples: 3035331001, 3035331002, 3035331003, 3035331004, 3035331005, 3035331006, 3035331007, 3035331008, 3035331010, 3035331011, 3035331012, 3035331013, 3035331014, 3035331015, 3035331016, 3035331017, 3035331018, 3035331019, 3035331020, 3035331021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	10/12/10 06:44	
1,1,2-Trichloroethane	ug/L	ND	1.0	10/12/10 06:44	
1,1-Dichloroethane	ug/L	ND	1.0	10/12/10 06:44	
1,1-Dichloroethene	ug/L	ND	1.0	10/12/10 06:44	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	10/12/10 06:44	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	10/12/10 06:44	
1,2-Dichlorobenzene	ug/L	ND	1.0	10/12/10 06:44	
1,2-Dichloroethane	ug/L	ND	1.0	10/12/10 06:44	
1,2-Dichloropropane	ug/L	ND	1.0	10/12/10 06:44	
1,3-Dichlorobenzene	ug/L	ND	1.0	10/12/10 06:44	
1,4-Dichlorobenzene	ug/L	ND	1.0	10/12/10 06:44	
2-Butanone (MEK)	ug/L	ND	20.0	10/12/10 06:44	
Acetone	ug/L	ND	20.0	10/12/10 06:44	
Benzene	ug/L	ND	1.0	10/12/10 06:44	
Bromodichloromethane	ug/L	ND	1.0	10/12/10 06:44	
Bromoform	ug/L	ND	1.0	10/12/10 06:44	
Bromomethane	ug/L	ND	1.0	10/12/10 06:44	
Carbon disulfide	ug/L	ND	1.0	10/12/10 06:44	
Carbon tetrachloride	ug/L	ND	1.0	10/12/10 06:44	
Chlorobenzene	ug/L	ND	1.0	10/12/10 06:44	
Chloroethane	ug/L	ND	1.0	10/12/10 06:44	
Chloroform	ug/L	ND	5.0	10/12/10 06:44	
Chloromethane	ug/L	ND	1.0	10/12/10 06:44	
cis-1,2-Dichloroethene	ug/L	ND	1.0	10/12/10 06:44	
cis-1,3-Dichloropropene	ug/L	ND	1.0	10/12/10 06:44	
Dibromochloromethane	ug/L	ND	1.0	10/12/10 06:44	
Dibromomethane	ug/L	ND	1.0	10/12/10 06:44	
Dichlorodifluoromethane	ug/L	ND	1.0	10/12/10 06:44	
Ethylbenzene	ug/L	ND	1.0	10/12/10 06:44	
Methyl-tert-butyl ether	ug/L	ND	1.0	10/12/10 06:44	
Methylene Chloride	ug/L	ND	1.0	10/12/10 06:44	
Naphthalene	ug/L	ND	5.0	10/12/10 06:44	
Styrene	ug/L	ND	1.0	10/12/10 06:44	
Tetrachloroethene	ug/L	ND	1.0	10/12/10 06:44	
Tetrahydrofuran	ug/L	ND	5.0	10/12/10 06:44	
Toluene	ug/L	ND	1.0	10/12/10 06:44	
trans-1,2-Dichloroethene	ug/L	ND	1.0	10/12/10 06:44	
trans-1,3-Dichloropropene	ug/L	ND	1.0	10/12/10 06:44	
Trichloroethene	ug/L	ND	1.0	10/12/10 06:44	

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QUALITY CONTROL DATA

Project: Ripon FF/NN Landfill
Pace Project No.: 3035331

METHOD BLANK: 368528 Matrix: Water

Associated Lab Samples: 3035331001, 3035331002, 3035331003, 3035331004, 3035331005, 3035331006, 3035331007, 3035331008, 3035331010, 3035331011, 3035331012, 3035331013, 3035331014, 3035331015, 3035331016, 3035331017, 3035331018, 3035331019, 3035331020, 3035331021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichlorofluoromethane	ug/L	ND	1.0	10/12/10 06:44	
Vinyl chloride	ug/L	ND	1.0	10/12/10 06:44	
Xylene (Total)	ug/L	ND	3.0	10/12/10 06:44	
4-Bromofluorobenzene (S)	%	94	69-130	10/12/10 06:44	
Dibromofluoromethane (S)	%	95	70-134	10/12/10 06:44	
Toluene-d8 (S)	%	100	70-130	10/12/10 06:44	

LABORATORY CONTROL SAMPLE & LCSD: 368529 368530

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	49.5	49.8	99	100	70-132	.5	20	
1,1,2-Trichloroethane	ug/L	50	51.1	50.7	102	101	70-130	.9	20	
1,1-Dichloroethane	ug/L	50	49.1	48.7	98	97	70-132	.8	20	
1,1-Dichloroethene	ug/L	50	50.6	50.2	101	100	70-137	.8	20	
1,2-Dichloroethane	ug/L	50	48.0	48.8	96	98	70-130	2	20	
1,2-Dichloropropane	ug/L	50	50.2	49.5	100	99	70-130	1	20	
2-Butanone (MEK)	ug/L	50	61.9	53.3	124	107	50-150	15	20	
Acetone	ug/L	50	88.5	66.9	177	134	50-150	28	20	D6,L3
Benzene	ug/L	50	51.7	50.8	103	102	70-130	2	20	
Bromodichloromethane	ug/L	50	50.0	49.7	100	99	70-131	.6	20	
Bromoform	ug/L	50	51.2	50.5	102	101	70-130	1	20	
Bromomethane	ug/L	50	43.5	47.0	87	94	53-160	8	20	
Carbon disulfide	ug/L	50	45.2	45.3	90	91	70-130	.2	20	
Carbon tetrachloride	ug/L	50	54.6	54.2	109	108	70-130	.7	20	
Chlorobenzene	ug/L	50	51.4	50.9	103	102	70-130	1	20	
Chloroethane	ug/L	50	51.4	48.6	103	97	70-147	6	20	
Chloroform	ug/L	50	49.4	49.5	99	99	70-130	.2	20	
Chloromethane	ug/L	50	38.8	37.8	78	76	41-137	3	20	
cis-1,2-Dichloroethene	ug/L	50	49.9	49.1	100	98	70-130	2	20	
cis-1,3-Dichloropropene	ug/L	50	47.6	47.1	95	94	70-130	1	20	
Dibromochloromethane	ug/L	50	56.4	56.2	113	112	70-130	.4	20	
Ethylbenzene	ug/L	50	51.3	50.5	103	101	70-130	1	20	
Methylene Chloride	ug/L	50	46.4	45.2	93	90	70-130	3	20	
Styrene	ug/L	50	50.9	49.5	102	99	70-130	3	20	
Tetrachloroethene	ug/L	50	53.2	51.7	106	103	70-130	3	20	
Toluene	ug/L	50	50.9	49.3	102	99	70-130	3	20	
trans-1,2-Dichloroethene	ug/L	50	59.1	57.7	118	115	70-130	2	20	
trans-1,3-Dichloropropene	ug/L	50	43.3	43.1	87	86	70-130	.4	20	
Trichloroethene	ug/L	50	54.3	52.7	109	105	70-130	3	20	
Vinyl chloride	ug/L	50	43.0	42.4	86	85	47-131	1	20	
Xylene (Total)	ug/L	150	158	155	105	103	70-130	2	20	
4-Bromofluorobenzene (S)	%				98	95	69-130			
Dibromofluoromethane (S)	%				97	99	70-134			
Toluene-d8 (S)	%				100	99	70-130			

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QUALITY CONTROL DATA

Project: Ripon FF/NN Landfill
Pace Project No.: 3035331

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 368558 368559

Parameter	Units	3035331013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	50	50	48.6	48.9	97	98	70-132	.5	
1,1,2-Trichloroethane	ug/L	ND	50	50	50.5	50.1	101	100	70-130	.7	
1,1-Dichloroethane	ug/L	ND	50	50	48.8	48.9	98	98	70-132	.2	
1,1-Dichloroethene	ug/L	ND	50	50	50.6	50.7	101	101	70-137	.3	
1,2-Dichloroethane	ug/L	ND	50	50	48.1	48.1	96	96	70-133	.1	
1,2-Dichloropropane	ug/L	ND	50	50	49.8	49.4	100	99	70-130	.7	
2-Butanone (MEK)	ug/L	ND	50	50	38.6	46.1	77	92	50-150	18	
Acetone	ug/L	ND	50	50	48.1	48.8	96	98	50-150	1	
Benzene	ug/L	ND	50	50	49.9	50.6	100	101	70-130	1	
Bromodichloromethane	ug/L	ND	50	50	49.5	49.9	99	100	70-131	.7	
Bromoform	ug/L	ND	50	50	50.0	51.4	100	103	68-130	3	
Bromomethane	ug/L	ND	50	50	46.2	47.3	92	95	47-177	2	
Carbon disulfide	ug/L	ND	50	50	43.9	44.6	88	89	60-130	2	
Carbon tetrachloride	ug/L	ND	50	50	54.2	55.2	108	110	70-149	2	
Chlorobenzene	ug/L	ND	50	50	50.7	50.4	101	101	70-130	.7	
Chloroethane	ug/L	ND	50	50	48.5	48.3	97	97	66-147	.2	
Chloroform	ug/L	ND	50	50	49.4	49.6	99	99	70-130	.4	
Chloromethane	ug/L	ND	50	50	34.3	35.9	69	72	41-137	5	
cis-1,2-Dichloroethene	ug/L	ND	50	50	48.7	48.7	97	97	70-130	.1	
cis-1,3-Dichloropropene	ug/L	ND	50	50	47.3	47.6	95	95	70-130	.6	
Dibromochloromethane	ug/L	ND	50	50	55.2	56.0	110	112	70-130	1	
Ethylbenzene	ug/L	ND	50	50	50.7	50.6	101	101	70-130	.3	
Methylene Chloride	ug/L	ND	50	50	43.9	45.0	87	89	70-130	2	
Styrene	ug/L	ND	50	50	49.4	49.2	99	98	13-149	.3	
Tetrachloroethene	ug/L	ND	50	50	51.7	52.2	103	104	70-130	1	
Toluene	ug/L	ND	50	50	49.6	49.5	99	99	70-130	.2	
trans-1,2-Dichloroethene	ug/L	ND	50	50	57.1	57.3	114	115	70-130	.5	
trans-1,3-Dichloropropene	ug/L	ND	50	50	43.4	43.6	87	87	70-130	.4	
Trichloroethene	ug/L	ND	50	50	53.3	53.4	107	107	70-130	.1	
Vinyl chloride	ug/L	ND	50	50	39.2	40.1	78	80	46-131	2	
Xylene (Total)	ug/L	ND	150	150	153	154	102	103	70-130	.6	
4-Bromofluorobenzene (S)	%						97	97	69-130		
Dibromofluoromethane (S)	%						97	96	70-134		
Toluene-d8 (S)	%						99	99	70-130		

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QUALITY CONTROL DATA

Project: Ripon FF/NN Landfill
Pace Project No.: 3035331

QC Batch: MSV/9296 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3035331009

METHOD BLANK: 368874 Matrix: Water
Associated Lab Samples: 3035331009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	10/13/10 07:18	
1,1,2-Trichloroethane	ug/L	ND	1.0	10/13/10 07:18	
1,1-Dichloroethane	ug/L	ND	1.0	10/13/10 07:18	
1,1-Dichloroethene	ug/L	ND	1.0	10/13/10 07:18	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	10/13/10 07:18	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	10/13/10 07:18	
1,2-Dichlorobenzene	ug/L	ND	1.0	10/13/10 07:18	
1,2-Dichloroethane	ug/L	ND	1.0	10/13/10 07:18	
1,2-Dichloropropane	ug/L	ND	1.0	10/13/10 07:18	
1,3-Dichlorobenzene	ug/L	ND	1.0	10/13/10 07:18	
1,4-Dichlorobenzene	ug/L	ND	1.0	10/13/10 07:18	
2-Butanone (MEK)	ug/L	ND	20.0	10/13/10 07:18	
Acetone	ug/L	ND	20.0	10/13/10 07:18	
Benzene	ug/L	ND	1.0	10/13/10 07:18	
Bromodichloromethane	ug/L	ND	1.0	10/13/10 07:18	
Bromoform	ug/L	ND	1.0	10/13/10 07:18	
Bromomethane	ug/L	ND	1.0	10/13/10 07:18	
Carbon disulfide	ug/L	ND	1.0	10/13/10 07:18	
Carbon tetrachloride	ug/L	ND	1.0	10/13/10 07:18	
Chlorobenzene	ug/L	ND	1.0	10/13/10 07:18	
Chloroethane	ug/L	ND	1.0	10/13/10 07:18	
Chloroform	ug/L	ND	5.0	10/13/10 07:18	
Chloromethane	ug/L	ND	1.0	10/13/10 07:18	
cis-1,2-Dichloroethene	ug/L	ND	1.0	10/13/10 07:18	
cis-1,3-Dichloropropene	ug/L	ND	1.0	10/13/10 07:18	
Dibromochloromethane	ug/L	ND	1.0	10/13/10 07:18	
Dibromomethane	ug/L	ND	1.0	10/13/10 07:18	
Dichlorodifluoromethane	ug/L	ND	1.0	10/13/10 07:18	
Ethylbenzene	ug/L	ND	1.0	10/13/10 07:18	
Methyl-tert-butyl ether	ug/L	ND	1.0	10/13/10 07:18	
Methylene Chloride	ug/L	ND	1.0	10/13/10 07:18	
Naphthalene	ug/L	ND	5.0	10/13/10 07:18	
Styrene	ug/L	ND	1.0	10/13/10 07:18	
Tetrachloroethene	ug/L	ND	1.0	10/13/10 07:18	
Tetrahydrofuran	ug/L	ND	5.0	10/13/10 07:18	
Toluene	ug/L	ND	1.0	10/13/10 07:18	
trans-1,2-Dichloroethene	ug/L	ND	1.0	10/13/10 07:18	
trans-1,3-Dichloropropene	ug/L	ND	1.0	10/13/10 07:18	
Trichloroethene	ug/L	ND	1.0	10/13/10 07:18	
Trichlorofluoromethane	ug/L	ND	1.0	10/13/10 07:18	
Vinyl chloride	ug/L	ND	1.0	10/13/10 07:18	
Xylene (Total)	ug/L	ND	3.0	10/13/10 07:18	
4-Bromofluorobenzene (S)	%	99	69-130	10/13/10 07:18	

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QUALITY CONTROL DATA

Project: Ripon FF/NN Landfill
Pace Project No.: 3035331

METHOD BLANK: 368874 Matrix: Water

Associated Lab Samples: 3035331009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromofluoromethane (S)	%	102	70-134	10/13/10 07:18	
Toluene-d8 (S)	%	108	70-130	10/13/10 07:18	

LABORATORY CONTROL SAMPLE & LCSD: 368875 368876

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	58.0	59.6	116	119	70-132	3	20	
1,1,2-Trichloroethane	ug/L	50	54.9	55.2	110	110	70-130	.5	20	
1,1-Dichloroethane	ug/L	50	56.2	55.2	112	110	70-132	2	20	
1,1-Dichloroethene	ug/L	50	60.2	60.5	120	121	70-137	.5	20	
1,2-Dichloroethane	ug/L	50	57.7	58.2	115	116	70-130	.7	20	
1,2-Dichloropropane	ug/L	50	55.3	55.4	111	111	70-130	.2	20	
2-Butanone (MEK)	ug/L	50	65.9	56.0	132	112	50-150	16	20	
Acetone	ug/L	50	89.7	75.3	179	151	50-150	17	20	L3
Benzene	ug/L	50	55.1	55.8	110	112	70-130	1	20	
Bromodichloromethane	ug/L	50	55.0	55.0	110	110	70-131	.02	20	
Bromoform	ug/L	50	47.7	47.3	95	95	70-130	.8	20	
Bromomethane	ug/L	50	56.1	60.2	112	120	53-160	7	20	
Carbon disulfide	ug/L	50	60.4	60.8	121	122	70-130	.7	20	
Carbon tetrachloride	ug/L	50	60.2	61.3	120	123	70-130	2	20	
Chlorobenzene	ug/L	50	55.8	54.7	112	109	70-130	2	20	
Chloroethane	ug/L	50	60.8	65.1	122	130	70-147	7	20	
Chloroform	ug/L	50	55.3	56.9	111	114	70-130	3	20	
Chloromethane	ug/L	50	57.3	58.1	115	116	41-137	1	20	
cis-1,2-Dichloroethene	ug/L	50	52.7	53.3	105	107	70-130	1	20	
cis-1,3-Dichloropropene	ug/L	50	49.8	50.4	100	101	70-130	1	20	
Dibromochloromethane	ug/L	50	57.6	57.9	115	116	70-130	.4	20	
Ethylbenzene	ug/L	50	59.7	59.2	119	118	70-130	.9	20	
Methylene Chloride	ug/L	50	56.5	56.9	113	114	70-130	.8	20	
Styrene	ug/L	50	55.1	55.0	110	110	70-130	.1	20	
Tetrachloroethene	ug/L	50	58.1	56.4	116	113	70-130	3	20	
Toluene	ug/L	50	59.2	57.6	118	115	70-130	3	20	
trans-1,2-Dichloroethene	ug/L	50	57.5	57.3	115	115	70-130	.3	20	
trans-1,3-Dichloropropene	ug/L	50	48.5	47.8	97	96	70-130	1	20	
Trichloroethene	ug/L	50	57.2	58.1	114	116	70-130	2	20	
Vinyl chloride	ug/L	50	57.5	58.4	115	117	47-131	2	20	
Xylene (Total)	ug/L	150	179	176	119	117	70-130	2	20	
4-Bromofluorobenzene (S)	%				105	102	69-130			
Dibromofluoromethane (S)	%				105	105	70-134			
Toluene-d8 (S)	%				112	110	70-130			

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QUALITY CONTROL DATA

Project: Ripon FF/NN Landfill
Pace Project No.: 3035331

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 369096 369097

Parameter	Units	4038142008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.90	50	50	60.2	60.2	120	120	70-132	.04	
1,1,2-Trichloroethane	ug/L	<0.42	50	50	54.6	53.3	109	107	70-130	2	
1,1-Dichloroethane	ug/L	<0.75	50	50	57.2	56.4	114	113	70-132	1	
1,1-Dichloroethene	ug/L	<0.57	50	50	59.7	59.7	119	119	70-137	.06	
1,2-Dichloroethane	ug/L	<0.36	50	50	58.1	57.1	116	114	70-133	2	
1,2-Dichloropropane	ug/L	<0.49	50	50	54.7	55.3	109	111	70-130	1	
2-Butanone (MEK)	ug/L	<4.3	50	50	48.2	47.5	96	95	50-150	1	
Acetone	ug/L	<5.0	50	50	55.7	52.1	111	104	50-150	7	
Benzene	ug/L	<0.41	50	50	55.2	54.9	110	110	70-130	.6	
Bromodichloromethane	ug/L	<0.56	50	50	54.3	55.4	109	111	70-131	2	
Bromoform	ug/L	<0.94	50	50	46.5	44.5	93	89	68-130	4	
Bromomethane	ug/L	<0.91	50	50	59.4	60.1	119	120	47-177	1	
Carbon disulfide	ug/L	<0.66	50	50	60.7	53.3	121	107	60-130	13	
Carbon tetrachloride	ug/L	<0.49	50	50	62.4	61.8	125	124	70-149	1	
Chlorobenzene	ug/L	<0.41	50	50	55.0	56.1	110	112	70-130	2	
Chloroethane	ug/L	<0.97	50	50	64.0	64.2	128	128	66-147	.4	
Chloroform	ug/L	<1.3	50	50	55.4	56.4	111	113	70-130	2	
Chloromethane	ug/L	<0.24	50	50	56.9	57.2	114	114	41-137	.6	
cis-1,2-Dichloroethene	ug/L	<0.83	50	50	54.6	54.7	109	109	70-130	.07	
cis-1,3-Dichloropropene	ug/L	<0.20	50	50	50.5	49.5	101	99	70-130	2	
Dibromochloromethane	ug/L	<0.81	50	50	55.3	56.2	111	112	70-130	2	
Ethylbenzene	ug/L	<0.54	50	50	55.9	56.7	112	113	70-130	1	
Methylene Chloride	ug/L	<0.43	50	50	57.9	57.3	116	115	70-130	1	
Styrene	ug/L	<0.86	50	50	18.7	17.7	37	35	13-149	6	
Tetrachloroethene	ug/L	<0.45	50	50	57.9	58.5	116	117	70-130	1	
Toluene	ug/L	<0.67	50	50	56.4	57.2	113	114	70-130	1	
trans-1,2-Dichloroethene	ug/L	<0.89	50	50	57.5	56.7	115	113	70-130	1	
trans-1,3-Dichloropropene	ug/L	<0.19	50	50	48.2	47.1	96	94	70-130	2	
Trichloroethene	ug/L	<0.48	50	50	57.7	56.9	115	113	70-130	1	
Vinyl chloride	ug/L	<0.18	50	50	56.8	57.1	114	114	46-131	.5	
Xylene (Total)	ug/L	<2.6	150	150	149	149	99	99	70-130	.1	
4-Bromofluorobenzene (S)	%						103	103	69-130		
Dibromofluoromethane (S)	%						104	105	70-134		
Toluene-d8 (S)	%						107	108	70-130		

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QUALIFIERS

Project: Ripon FF/NN Landfill
Pace Project No.: 3035331

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.

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.

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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LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

WORKORDER QUALIFIERS

WO: 3035331

[1]	This project was revised on 10/27/10 in order to correct the sumbcontracting labs sample IDs.

ANALYTE QUALIFIERS

D6	The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
Z3	Methylene chloride is a common laboratory contaminant. Results for this analyte should be considered estimated unless the amount found in the sample is 3 to 5 times higher than that found in the method blank.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Ripon FF/NN Landfill
Pace Project No.: 3035331

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3035331001	P-107 D	EPA 8015B Modified	GCV/5711		
3035331002	P-113 A	EPA 8015B Modified	GCV/5711		
3035331003	P-113 B	EPA 8015B Modified	GCV/5711		
3035331004	P-116	EPA 8015B Modified	GCV/5711		
3035331005	P-114	EPA 8015B Modified	GCV/5711		
3035331006	P-114 DUP	EPA 8015B Modified	GCV/5711		
3035331007	P-115	EPA 8015B Modified	GCV/5711		
3035331009	MW-107	EPA 8015B Modified	GCV/5711		
3035331010	MW-111	EPA 8015B Modified	GCV/5711		
3035331011	MW-103	EPA 8015B Modified	GCV/5711		
3035331012	MW-101	EPA 8015B Modified	GCV/5711		
3035331013	P-101	EPA 8015B Modified	GCV/5711		
3035331014	P-111 D	EPA 8015B Modified	GCV/5711		
3035331015	P-111 D DUP	EPA 8015B Modified	GCV/5711		
3035331016	P-111	EPA 8015B Modified	GCV/5711		
3035331017	P-107	EPA 8015B Modified	GCV/5711		
3035331018	MW-3 A	EPA 8015B Modified	GCV/5711		
3035331019	MW-3 B	EPA 8015B Modified	GCV/5711		
3035331020	P-103	EPA 8015B Modified	GCV/5711		
3035331021	P-103 D	EPA 8015B Modified	GCV/5711		
3035331001	P-107 D	EPA 8260	MSV/9290		
3035331002	P-113 A	EPA 8260	MSV/9290		
3035331003	P-113 B	EPA 8260	MSV/9290		
3035331004	P-116	EPA 8260	MSV/9290		
3035331005	P-114	EPA 8260	MSV/9290		
3035331006	P-114 DUP	EPA 8260	MSV/9290		
3035331007	P-115	EPA 8260	MSV/9290		
3035331008	TB-1	EPA 8260	MSV/9290		
3035331009	MW-107	EPA 8260	MSV/9296		
3035331010	MW-111	EPA 8260	MSV/9290		
3035331011	MW-103	EPA 8260	MSV/9290		
3035331012	MW-101	EPA 8260	MSV/9290		
3035331013	P-101	EPA 8260	MSV/9290		
3035331014	P-111 D	EPA 8260	MSV/9290		
3035331015	P-111 D DUP	EPA 8260	MSV/9290		
3035331016	P-111	EPA 8260	MSV/9290		
3035331017	P-107	EPA 8260	MSV/9290		
3035331018	MW-3 A	EPA 8260	MSV/9290		
3035331019	MW-3 B	EPA 8260	MSV/9290		
3035331020	P-103	EPA 8260	MSV/9290		
3035331021	P-103 D	EPA 8260	MSV/9290		

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SAMPLE ACKNOWLEDGMENT

Samples Submitted By: Cooper Industries
Client Project ID: Ripon FF/NN Landfill
Client PO#:

Pace Project Manager: Timothy Reed
Phone 724-850-5600
timothy.reed@pacelabs.com
Pace Analytical Project ID: 3035331
Samples Received: October 8, 2010 09:15 AM
Estimated Completion: October 22, 2010

CC: Mr. Kevin Lincicum,Mr. Michael Noel,Mr. Nelson Olavarria

Customer Sample ID	Pace Analytical Lab ID	Matrix	Date/Time Collected	Method
P-107 D	3035331001	Water	10/05/10 13:40	Subbed work within PASI GCSV Subbed work within PASI MSV Subcontracted Outside Pace
P-113 A	3035331002	Water	10/06/10 10:00	Subbed work within PASI GCSV Subbed work within PASI MSV Subcontracted Outside Pace
P-113 B	3035331003	Water	10/06/10 10:30	Subbed work within PASI GCSV Subbed work within PASI MSV Subcontracted Outside Pace
P-116	3035331004	Water	10/06/10 12:30	Subbed work within PASI GCSV Subbed work within PASI MSV Subcontracted Outside Pace
P-114	3035331005	Water	10/06/10 13:05	Subbed work within PASI GCSV Subbed work within PASI MSV Subcontracted Outside Pace
P-114 DUP	3035331006	Water	10/06/10 13:10	Subbed work within PASI GCSV Subbed work within PASI MSV Subcontracted Outside Pace
P-115	3035331007	Water	10/06/10 11:25	Subbed work within PASI GCSV Subbed work within PASI MSV Subcontracted Outside Pace
TB-1	3035331008	Water		Subbed work within PASI MSV

Please contact your project manager if you recognize any discrepancy in this form or have any questions about your project.

Thank you for choosing Pace Analytical Services, Inc.

[redacted] [redacted] [redacted] [redacted]

(Please Print Clearly)

Company Name:	GeoTrans, Inc
Branch/Location:	Brookfield, WI
Project Contact:	Mike Noel
Phone:	(262) 792-1282
Project Number:	17-2202040.05
Project Name:	Ripon FF/NN Landfill
Project State:	WI
Sampled By (Print):	Ashley A. Weimer
Sampled By (Sign):	Ashley A. Weimer
PO #:	
Regulatory Program:	

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CHAIN OF CUSTODY

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

Page 1 of

3035332

*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

Quote #:	
Mail To Contact:	Mike Noel
Mail To Company:	GeoTrans, Inc
Mail To Address:	175 N. Corporate Dr Suite 100 Brookfield, WI
Invoice To Contact:	Same as above
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, Sl = Sludge
W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

FILTERED? (YES/NO)	Y/N	N	N			
PRESERVATION (CODE)*	Pick Letter	J	B			
	Analyses Requested	VOCs 524.2	Methane			

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	VOCs 524.2	Methane	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	Rohde	10-6	14:05	GW	✓	✓		5-40ml	001
002	Gaastra	↓	14:45	↓	✓	✓		↓	002
003	Baneck/Perry/Watkins	↓	15:00	↓	✓	✓		↓	003
004	TB-2	—	—	DI	✓		Lab Prepared	2-40ml B	004

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	10-7-10 0800	D. [illegible]	10/7/10 0925
D. [illegible]	10/7/10 1700		
CS Logistics	10/8/10 0915	[illegible]	10/8/10 0915

PACE Project No. 4038046

Receipt Temp = ROI °C

Sample Receipt pH OK / Adjusted N/A

Cooler Custody Seal
Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

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

PaceAnalytical

Sample Condition Upon Receipt

Client Name: 9103rans Project # 4038046

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☒ Commercial ☐ Pace Other _____

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

Optional
Proj. Due Date:
Proj. Name:

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

Cooler Temperature 0.01 Biological Tissue is Frozen: ☐ yes ☐ no

Temp Blank Present: ☒ yes ☐ no

Person examining contents:
Date: 10/6/10
Initials: JE

Temp should be above freezing to 6°C for all sample except Biota.
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 Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
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 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.	☐Yes ☐No ☒N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☒N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☒N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☒No ☐N/A	15.
Trip Blank Present:	☒Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☒Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** _____

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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www.pacelabs.com

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

October 26, 2010

Mr. Nelson Olavarria
Cooper Industries
600 Travis Street
Suite 5600
Houston, TX 77002

RE: Project: Ripon FF/NN Landfill
Pace Project No.: 3035332

Dear Mr. Olavarria:
Enclosed are the analytical results for sample(s) received by the laboratory on October 08, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

David A. Pichette for
Timothy Reed
timothy.reed@pacelabs.com
Project Manager

Enclosures

cc: Mr. Michael Noel, Geotrans, Inc.

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Greensburg, PA 15601
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CERTIFICATIONS

Project: Ripon FF/NN Landfill
Pace Project No.: 3035332

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
California Certification #: 09268CA
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11888
New York Certification #: 11888
North Carolina Certification #: 503
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: Ripon FF/NN Landfill
Pace Project No.: 3035332

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3035332001	**Rohde**	EPA 8015B Modified	SES	1	PASI-G
3035332002	**Gaastra**	EPA 8015B Modified	SES	1	PASI-G
3035332003	**Baneck/Perry/Watkins**	EPA 8015B Modified	SES	1	PASI-G

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ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3035332

Sample: Rohde **Lab ID: 3035332001** Collected: 10/06/10 14:05 Received: 10/08/10 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified							
Methane	ND	ug/L	2.8	1		10/12/10 09:29	74-82-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3035332

Sample: Gaastra **Lab ID: 3035332002** Collected: 10/06/10 14:45 Received: 10/08/10 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified							
Methane	**10.3**	ug/L	2.8	1		10/12/10 09:38	74-82-8	

REPORT OF LABORATORY ANALYSIS

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(724)850-560

ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill
Pace Project No.: 3035332

Sample: Baneck/Perry/Watkins **Lab ID: 3035332003** Collected: 10/06/10 15:00 Received: 10/08/10 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV	Analytical Method: EPA 8015B Modified							
Methane	**8.1**	ug/L	2.8	1		10/12/10 09:46	74-82-8	

REPORT OF LABORATORY ANALYSIS

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(724)850-5600

QUALITY CONTROL DATA

Project: Ripon FF/NN Landfill
Pace Project No.: 3035332

QC Batch: GCV/5709 Analysis Method: EPA 8015B Modified
QC Batch Method: EPA 8015B Modified Analysis Description: Methane, Ethane, Ethene GCV
Associated Lab Samples: 3035332001, 3035332002, 3035332003

METHOD BLANK: 368551 Matrix: Water
Associated Lab Samples: 3035332001, 3035332002, 3035332003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methane	ug/L	ND	2.8	10/12/10 07:25	

LABORATORY CONTROL SAMPLE & LCSD: 368552 368553

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	ug/L	28.4	27.0	26.8	95	95	80-120	.6	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 368832 368833

Parameter	Units	3035332001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Methane	ug/L	ND	28.4	28.4	28.1	28.5	99	100	74-125	1	

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QUALIFIERS

Project: Ripon FF/NN Landfill
Pace Project No.: 3035332

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.

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.

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 NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

WORKORDER QUALIFIERS

WO: 3035332

[1] The analyses for VOCs, Method 524.2, were performed by Northern Lake Service, Inc. The results are reported in a separate report.

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Ripon FF/NN Landfill
Pace Project No.: 3035332

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3035332001	**Rohde**	EPA 8015B Modified	GCV/5709		
3035332002	**Gaastra**	EPA 8015B Modified	GCV/5709		
3035332003	**Baneck/Perry/Watkins**	EPA 8015B Modified	GCV/5709		

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Greensburg, PA 15601
(724)850-5600

SAMPLE ACKNOWLEDGMENT

Samples Submitted By: Cooper Industries
Client Project ID: Ripon FF/NN Landfill
Client PO#:

Pace Project Manager: Timothy Reed
Phone 724-850-5600
timothy.reed@pacelabs.com
Pace Analytical Project ID: 3035332
Samples Received: October 8, 2010 09:15 AM
Estimated Completion: October 22, 2010

CC: Mr. Kevin Lincicum,Mr. Michael Noel,Mr. Nelson Olavarria

Customer Sample ID	Pace Analytical Lab ID	Matrix	Date/Time Collected	Method
Rohde	3035332001	Water	10/06/10 14:05	Subbed work within PASI GCSV Subbed work within PASI MSV Subcontracted Outside Pace
Gaastra	3035332002	Water	10/06/10 14:45	Subbed work within PASI GCSV Subbed work within PASI MSV Subcontracted Outside Pace
Baneck/Perry/Watkins	3035332003	Water	10/06/10 15:00	Subbed work within PASI GCSV Subbed work within PASI MSV Subcontracted Outside Pace
TB-2	3035332004	Water		Subbed work within PASI MSV

Please contact your project manager if you recognize any discrepancy in this form or have any questions about your project.

Thank you for choosing Pace Analytical Services, Inc.

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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.

02663

Page: 1 of 1

Section A Required Client Information:

Company: GeoTrans
Address: 175 N. Corporate Dr Suite #100 Brookfield WI
Email To:
Phone: 262-782-1282 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Mike Noel
Copy To: Nelson Olavarria Cooper Ind. Houston TX
Purchase Order No.:
Project Name: FF/NN Landfill
Project Number: 10111.05.09

Section C Invoice Information:

Attention: Nelson Olavarria thru Pace Pittsburgh
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

Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

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

ITEM #	Sample ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START / GRAB DATE	COLLECTED TIME	COMPOSITE END DATE	COMPOSITE END 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	TO-15	TO15 Short List	Pace Lab ID
1	LC-1	1LC		10.12	0705	10.12	805	+23	0	08886								/			001
2	LC-2	1LC		10.12	0710	10.12	0812	+30	-4	09903								/			002
3	LC-3	1LC		10.12	0712	10.12	0815	+30	-5	10111								/			003
4	GV-6	1LC		10.12	0708	10.12	0810	+24	-5	13112								/			004
5	GP-3	1LC		10.12	0715	10.12	0818	+28	0	11167								/			005
6																					
7																					
8																					
9																					
10																					
11																					
12																					

3035481
Pace Lab ID

Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Jack Wendler City of Reno	10.12.10	1000		10-13-10	10:00

SAMPLE CONDITIONS

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)	
Ambient	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): 10.12.10

ORIGINAL

AIR Sample Condition Upon Receipt

Pace Analytical

Client Name: GEOTRANS Project # 3035481

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other_____

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

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other_____

Tracking #: 8726 5385 3349

Comments:

Date and Initials of person examining contents: 10.13.10 K

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 Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
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 Containers Used:	☒Yes ☐No ☐N/A	
Containers Intact:	☒Yes ☐No ☐N/A	10.
Media: AIR (CAN)		11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.

Samples Received: SCANS, SFCIS

Canisters		Flow Controllers		Stand Alone G		Tedlar Bags	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
LC-1	0886		PA94				
LC-2	0993		PA266				
LC-3	1011		PA281				
GV-6	312		PA269				
GP-3	1167		PA181				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Rachel Constance Date: 10/13/10

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

January 03, 2011

Mr. Nelson Olavarria
Cooper Industries
600 Travis Street
Suite 5600
Houston, TX 77002

RE: Project: FF/NN Landfill
Pace Project No.: 3035481

Dear Mr. Olavarria:
Enclosed are the analytical results for sample(s) received by the laboratory on October 13, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Timothy Reed

timothy.reed@pacelabs.com
Project Manager

Enclosures

cc: Mr. Michael Noel, Geotrans, Inc.

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www.pacelabs.com

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Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: FF/NN Landfill
Pace Project No.: 3035481

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Idaho Certification #: MN00064
Illinois Certification #: 200011
Iowa Certification #: 368
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 Mexico Certification #: Pace
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: D9921
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Washington Certification #: C754
Wisconsin Certification #: 999407970

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

SAMPLE ANALYTE COUNT

Project: FF/NN Landfill
Pace Project No.: 3035481

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3035481001	LC-1	TO-14 Ambient Air	SK3	40	PASI-M
3035481002	LC-2	TO-14 Ambient Air	SK3	40	PASI-M
3035481003	LC-3	TO-14 Ambient Air	DR1, SK3	40	PASI-M
3035481004	GV-6	TO-14 Ambient Air	DR1	40	PASI-M
3035481005	GP-3	TO-14 Ambient Air	SK3	40	PASI-M

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FF/NN Landfill
Pace Project No.: 3035481

Sample: LC-1 **Lab ID: 3035481001** Collected: 10/12/10 08:05 Received: 10/13/10 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO14 MSV AIR - Ambient	Analytical Method: TO-14 Ambient Air							
Benzene	**3.1**	ppbv	0.84	1.68		10/23/10 01:24	71-43-2	
Bromomethane	ND	ppbv	0.84	1.68		10/23/10 01:24	74-83-9	
Carbon tetrachloride	ND	ppbv	0.84	1.68		10/23/10 01:24	56-23-5	
Chlorobenzene	ND	ppbv	0.84	1.68		10/23/10 01:24	108-90-7	
Chloroethane	**14.2**	ppbv	0.84	1.68		10/23/10 01:24	75-00-3	
Chloroform	ND	ppbv	0.84	1.68		10/23/10 01:24	67-66-3	
Chloromethane	ND	ppbv	0.84	1.68		10/23/10 01:24	74-87-3	
1,2-Dibromoethane (EDB)	ND	ppbv	0.84	1.68		10/23/10 01:24	106-93-4	
1,2-Dichlorobenzene	ND	ppbv	0.84	1.68		10/23/10 01:24	95-50-1	
1,3-Dichlorobenzene	ND	ppbv	0.84	1.68		10/23/10 01:24	541-73-1	
1,4-Dichlorobenzene	ND	ppbv	0.84	1.68		10/23/10 01:24	106-46-7	
Dichlorodifluoromethane	**43.4**	ppbv	0.84	1.68		10/23/10 01:24	75-71-8	
1,1-Dichloroethane	**1.1**	ppbv	0.84	1.68		10/23/10 01:24	75-34-3	
1,2-Dichloroethane	ND	ppbv	0.84	1.68		10/23/10 01:24	107-06-2	
1,1-Dichloroethene	ND	ppbv	0.84	1.68		10/23/10 01:24	75-35-4	
cis-1,2-Dichloroethene	ND	ppbv	0.84	1.68		10/23/10 01:24	156-59-2	
trans-1,2-Dichloroethene	ND	ppbv	0.84	1.68		10/23/10 01:24	156-60-5	
1,2-Dichloropropane	ND	ppbv	0.84	1.68		10/23/10 01:24	78-87-5	
cis-1,3-Dichloropropene	ND	ppbv	0.84	1.68		10/23/10 01:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ppbv	0.84	1.68		10/23/10 01:24	10061-02-6	
Dichlorotetrafluoroethane	**16.3**	ppbv	0.84	1.68		10/23/10 01:24	76-14-2	
Ethylbenzene	**4.9**	ppbv	0.84	1.68		10/23/10 01:24	100-41-4	
Hexachloro-1,3-butadiene	ND	ppbv	0.84	1.68		10/23/10 01:24	87-68-3	
Methylene Chloride	**34.6**	ppbv	0.84	1.68		10/23/10 01:24	75-09-2	
Styrene	ND	ppbv	0.84	1.68		10/23/10 01:24	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ppbv	0.84	1.68		10/23/10 01:24	79-34-5	
Tetrachloroethene	ND	ppbv	0.84	1.68		10/23/10 01:24	127-18-4	
THC as Gas	**710**	ppbv	33.6	1.68		10/23/10 01:24		
Toluene	**6.2**	ppbv	0.84	1.68		10/23/10 01:24	108-88-3	
1,2,4-Trichlorobenzene	ND	ppbv	0.84	1.68		10/23/10 01:24	120-82-1	
1,1,1-Trichloroethane	ND	ppbv	0.84	1.68		10/23/10 01:24	71-55-6	
1,1,2-Trichloroethane	ND	ppbv	0.84	1.68		10/23/10 01:24	79-00-5	
Trichloroethene	ND	ppbv	0.84	1.68		10/23/10 01:24	79-01-6	
Trichlorofluoromethane	ND	ppbv	0.84	1.68		10/23/10 01:24	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ppbv	0.84	1.68		10/23/10 01:24	76-13-1	
1,2,4-Trimethylbenzene	**3.8**	ppbv	0.84	1.68		10/23/10 01:24	95-63-6	
1,3,5-Trimethylbenzene	**1.4**	ppbv	0.84	1.68		10/23/10 01:24	108-67-8	
Vinyl chloride	ND	ppbv	0.84	1.68		10/23/10 01:24	75-01-4	
m&p-Xylene	**4.7**	ppbv	1.7	1.68		10/23/10 01:24	1330-20-7	
o-Xylene	ND	ppbv	0.84	1.68		10/23/10 01:24	95-47-6	

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ANALYTICAL RESULTS

Project: FF/NN Landfill
Pace Project No.: 3035481

Sample: LC-2 **Lab ID: 3035481002** Collected: 10/12/10 08:12 Received: 10/13/10 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO14 MSV AIR - Ambient	Analytical Method: TO-14 Ambient Air							
Benzene	ND	ppbv	17.4	34.8		10/23/10 01:56	71-43-2	
Bromomethane	ND	ppbv	17.4	34.8		10/23/10 01:56	74-83-9	
Carbon tetrachloride	ND	ppbv	17.4	34.8		10/23/10 01:56	56-23-5	
Chlorobenzene	ND	ppbv	17.4	34.8		10/23/10 01:56	108-90-7	
Chloroethane	**43.7**	ppbv	17.4	34.8		10/23/10 01:56	75-00-3	
Chloroform	ND	ppbv	17.4	34.8		10/23/10 01:56	67-66-3	
Chloromethane	ND	ppbv	17.4	34.8		10/23/10 01:56	74-87-3	
1,2-Dibromoethane (EDB)	ND	ppbv	17.4	34.8		10/23/10 01:56	106-93-4	
1,2-Dichlorobenzene	ND	ppbv	17.4	34.8		10/23/10 01:56	95-50-1	
1,3-Dichlorobenzene	ND	ppbv	17.4	34.8		10/23/10 01:56	541-73-1	
1,4-Dichlorobenzene	ND	ppbv	17.4	34.8		10/23/10 01:56	106-46-7	
Dichlorodifluoromethane	**113**	ppbv	17.4	34.8		10/23/10 01:56	75-71-8	
1,1-Dichloroethane	ND	ppbv	17.4	34.8		10/23/10 01:56	75-34-3	
1,2-Dichloroethane	ND	ppbv	17.4	34.8		10/23/10 01:56	107-06-2	
1,1-Dichloroethene	ND	ppbv	17.4	34.8		10/23/10 01:56	75-35-4	
cis-1,2-Dichloroethene	ND	ppbv	17.4	34.8		10/23/10 01:56	156-59-2	
trans-1,2-Dichloroethene	ND	ppbv	17.4	34.8		10/23/10 01:56	156-60-5	
1,2-Dichloropropane	ND	ppbv	17.4	34.8		10/23/10 01:56	78-87-5	
cis-1,3-Dichloropropene	ND	ppbv	17.4	34.8		10/23/10 01:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ppbv	17.4	34.8		10/23/10 01:56	10061-02-6	
Dichlorotetrafluoroethane	**56.9**	ppbv	17.4	34.8		10/23/10 01:56	76-14-2	
Ethylbenzene	ND	ppbv	17.4	34.8		10/23/10 01:56	100-41-4	
Hexachloro-1,3-butadiene	ND	ppbv	17.4	34.8		10/23/10 01:56	87-68-3	
Methylene Chloride	**38.7**	ppbv	17.4	34.8		10/23/10 01:56	75-09-2	
Styrene	ND	ppbv	17.4	34.8		10/23/10 01:56	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ppbv	17.4	34.8		10/23/10 01:56	79-34-5	
Tetrachloroethene	ND	ppbv	17.4	34.8		10/23/10 01:56	127-18-4	
THC as Gas	**3370**	ppbv	696	34.8		10/23/10 01:56		
Toluene	ND	ppbv	17.4	34.8		10/23/10 01:56	108-88-3	
1,2,4-Trichlorobenzene	ND	ppbv	17.4	34.8		10/23/10 01:56	120-82-1	
1,1,1-Trichloroethane	ND	ppbv	17.4	34.8		10/23/10 01:56	71-55-6	
1,1,2-Trichloroethane	ND	ppbv	17.4	34.8		10/23/10 01:56	79-00-5	
Trichloroethene	ND	ppbv	17.4	34.8		10/23/10 01:56	79-01-6	
Trichlorofluoromethane	ND	ppbv	17.4	34.8		10/23/10 01:56	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ppbv	17.4	34.8		10/23/10 01:56	76-13-1	
1,2,4-Trimethylbenzene	ND	ppbv	17.4	34.8		10/23/10 01:56	95-63-6	
1,3,5-Trimethylbenzene	ND	ppbv	17.4	34.8		10/23/10 01:56	108-67-8	
Vinyl chloride	ND	ppbv	17.4	34.8		10/23/10 01:56	75-01-4	
m&p-Xylene	ND	ppbv	34.8	34.8		10/23/10 01:56	1330-20-7	
o-Xylene	ND	ppbv	17.4	34.8		10/23/10 01:56	95-47-6	

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ANALYTICAL RESULTS

Project: FF/NN Landfill
Pace Project No.: 3035481

Sample: LC-3 **Lab ID: 3035481003** Collected: 10/12/10 08:15 Received: 10/13/10 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO14 MSVAIR - Ambient	Analytical Method: TO-14 Ambient Air							
Benzene	ND	ppbv	0.84	1.68		10/22/10 23:09	71-43-2	
Bromomethane	ND	ppbv	0.84	1.68		10/22/10 23:09	74-83-9	
Carbon tetrachloride	ND	ppbv	0.84	1.68		10/22/10 23:09	56-23-5	
Chlorobenzene	ND	ppbv	0.84	1.68		10/22/10 23:09	108-90-7	
Chloroethane	ND	ppbv	0.84	1.68		10/22/10 23:09	75-00-3	
Chloroform	ND	ppbv	0.84	1.68		10/22/10 23:09	67-66-3	
Chloromethane	ND	ppbv	0.84	1.68		10/22/10 23:09	74-87-3	
1,2-Dibromoethane (EDB)	ND	ppbv	0.84	1.68		10/22/10 23:09	106-93-4	
1,2-Dichlorobenzene	ND	ppbv	0.84	1.68		10/22/10 23:09	95-50-1	
1,3-Dichlorobenzene	ND	ppbv	0.84	1.68		10/22/10 23:09	541-73-1	
1,4-Dichlorobenzene	ND	ppbv	0.84	1.68		10/22/10 23:09	106-46-7	
Dichlorodifluoromethane	**24.5**	ppbv	0.84	1.68		10/22/10 23:09	75-71-8	
1,1-Dichloroethane	ND	ppbv	0.84	1.68		10/22/10 23:09	75-34-3	
1,2-Dichloroethane	ND	ppbv	0.84	1.68		10/22/10 23:09	107-06-2	
1,1-Dichloroethene	**2.2**	ppbv	0.84	1.68		10/22/10 23:09	75-35-4	
cis-1,2-Dichloroethene	**31.6**	ppbv	0.84	1.68		10/22/10 23:09	156-59-2	
trans-1,2-Dichloroethene	ND	ppbv	0.84	1.68		10/22/10 23:09	156-60-5	
1,2-Dichloropropane	ND	ppbv	0.84	1.68		10/22/10 23:09	78-87-5	
cis-1,3-Dichloropropene	ND	ppbv	0.84	1.68		10/22/10 23:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ppbv	0.84	1.68		10/22/10 23:09	10061-02-6	
Dichlorotetrafluoroethane	**5.6**	ppbv	0.84	1.68		10/22/10 23:09	76-14-2	
Ethylbenzene	ND	ppbv	0.84	1.68		10/22/10 23:09	100-41-4	
Hexachloro-1,3-butadiene	ND	ppbv	0.84	1.68		10/22/10 23:09	87-68-3	
Methylene Chloride	**3.8**	ppbv	0.84	1.68		10/22/10 23:09	75-09-2	
Styrene	ND	ppbv	0.84	1.68		10/22/10 23:09	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ppbv	0.84	1.68		10/22/10 23:09	79-34-5	
Tetrachloroethene	ND	ppbv	0.84	1.68		10/22/10 23:09	127-18-4	
THC as Gas	**371**	ppbv	33.6	1.68		10/22/10 23:09		
Toluene	ND	ppbv	0.84	1.68		10/22/10 23:09	108-88-3	
1,2,4-Trichlorobenzene	ND	ppbv	0.84	1.68		10/22/10 23:09	120-82-1	
1,1,1-Trichloroethane	ND	ppbv	0.84	1.68		10/22/10 23:09	71-55-6	
1,1,2-Trichloroethane	ND	ppbv	0.84	1.68		10/22/10 23:09	79-00-5	
Trichloroethene	**0.92**	ppbv	0.84	1.68		10/22/10 23:09	79-01-6	
Trichlorofluoromethane	**0.84**	ppbv	0.84	1.68		10/22/10 23:09	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ppbv	0.84	1.68		10/22/10 23:09	76-13-1	
1,2,4-Trimethylbenzene	ND	ppbv	0.84	1.68		10/22/10 23:09	95-63-6	
1,3,5-Trimethylbenzene	ND	ppbv	0.84	1.68		10/22/10 23:09	108-67-8	
Vinyl chloride	**394**	ppbv	47.4	94.83		10/27/10 15:58	75-01-4	
m&p-Xylene	ND	ppbv	1.7	1.68		10/22/10 23:09	1330-20-7	
o-Xylene	ND	ppbv	0.84	1.68		10/22/10 23:09	95-47-6	

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ANALYTICAL RESULTS

Project: FF/NN Landfill
Pace Project No.: 3035481

Sample: GV-6 **Lab ID: 3035481004** Collected: 10/12/10 08:10 Received: 10/13/10 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO14 MSVAIR - Ambient	Analytical Method: TO-14 Ambient Air							
Benzene	**1.9**	ppbv	1.6	3.24		10/27/10 18:23	71-43-2	
Bromomethane	ND	ppbv	1.6	3.24		10/27/10 18:23	74-83-9	
Carbon tetrachloride	ND	ppbv	1.6	3.24		10/27/10 18:23	56-23-5	
Chlorobenzene	ND	ppbv	1.6	3.24		10/27/10 18:23	108-90-7	
Chloroethane	**11.8**	ppbv	1.6	3.24		10/27/10 18:23	75-00-3	
Chloroform	ND	ppbv	1.6	3.24		10/27/10 18:23	67-66-3	
Chloromethane	ND	ppbv	1.6	3.24		10/27/10 18:23	74-87-3	
1,2-Dibromoethane (EDB)	ND	ppbv	1.6	3.24		10/27/10 18:23	106-93-4	
1,2-Dichlorobenzene	ND	ppbv	1.6	3.24		10/27/10 18:23	95-50-1	
1,3-Dichlorobenzene	ND	ppbv	1.6	3.24		10/27/10 18:23	541-73-1	
1,4-Dichlorobenzene	ND	ppbv	1.6	3.24		10/27/10 18:23	106-46-7	
Dichlorodifluoromethane	**5.3**	ppbv	1.6	3.24		10/27/10 18:23	75-71-8	
1,1-Dichloroethane	**1.6**	ppbv	1.6	3.24		10/27/10 18:23	75-34-3	
1,2-Dichloroethane	ND	ppbv	1.6	3.24		10/27/10 18:23	107-06-2	
1,1-Dichloroethene	ND	ppbv	1.6	3.24		10/27/10 18:23	75-35-4	
cis-1,2-Dichloroethene	ND	ppbv	1.6	3.24		10/27/10 18:23	156-59-2	
trans-1,2-Dichloroethene	ND	ppbv	1.6	3.24		10/27/10 18:23	156-60-5	
1,2-Dichloropropane	ND	ppbv	1.6	3.24		10/27/10 18:23	78-87-5	
cis-1,3-Dichloropropene	ND	ppbv	1.6	3.24		10/27/10 18:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ppbv	1.6	3.24		10/27/10 18:23	10061-02-6	
Dichlorotetrafluoroethane	ND	ppbv	1.6	3.24		10/27/10 18:23	76-14-2	
Ethylbenzene	ND	ppbv	1.6	3.24		10/27/10 18:23	100-41-4	
Hexachloro-1,3-butadiene	ND	ppbv	1.6	3.24		10/27/10 18:23	87-68-3	
Methylene Chloride	**23.0**	ppbv	1.6	3.24		10/27/10 18:23	75-09-2	
Styrene	ND	ppbv	1.6	3.24		10/27/10 18:23	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ppbv	1.6	3.24		10/27/10 18:23	79-34-5	
Tetrachloroethene	ND	ppbv	1.6	3.24		10/27/10 18:23	127-18-4	
THC as Gas	**826**	ppbv	64.8	3.24		10/27/10 18:23		
Toluene	ND	ppbv	1.6	3.24		10/27/10 18:23	108-88-3	
1,2,4-Trichlorobenzene	ND	ppbv	1.6	3.24		10/27/10 18:23	120-82-1	
1,1,1-Trichloroethane	ND	ppbv	1.6	3.24		10/27/10 18:23	71-55-6	
1,1,2-Trichloroethane	ND	ppbv	1.6	3.24		10/27/10 18:23	79-00-5	
Trichloroethene	ND	ppbv	1.6	3.24		10/27/10 18:23	79-01-6	
Trichlorofluoromethane	ND	ppbv	1.6	3.24		10/27/10 18:23	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ppbv	1.6	3.24		10/27/10 18:23	76-13-1	
1,2,4-Trimethylbenzene	ND	ppbv	1.6	3.24		10/27/10 18:23	95-63-6	
1,3,5-Trimethylbenzene	ND	ppbv	1.6	3.24		10/27/10 18:23	108-67-8	
Vinyl chloride	ND	ppbv	1.6	3.24		10/27/10 18:23	75-01-4	
m&p-Xylene	ND	ppbv	3.2	3.24		10/27/10 18:23	1330-20-7	
o-Xylene	ND	ppbv	1.6	3.24		10/27/10 18:23	95-47-6	

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ANALYTICAL RESULTS

Project: FF/NN Landfill
Pace Project No.: 3035481

Sample: GP-3 **Lab ID: 3035481005** Collected: 10/12/10 08:18 Received: 10/13/10 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO14 MSV AIR - Ambient	Analytical Method: TO-14 Ambient Air							
Benzene	ND	ppbv	0.84	1.68		10/23/10 00:51	71-43-2	
Bromomethane	ND	ppbv	0.84	1.68		10/23/10 00:51	74-83-9	
Carbon tetrachloride	ND	ppbv	0.84	1.68		10/23/10 00:51	56-23-5	
Chlorobenzene	ND	ppbv	0.84	1.68		10/23/10 00:51	108-90-7	
Chloroethane	ND	ppbv	0.84	1.68		10/23/10 00:51	75-00-3	
Chloroform	ND	ppbv	0.84	1.68		10/23/10 00:51	67-66-3	
Chloromethane	ND	ppbv	0.84	1.68		10/23/10 00:51	74-87-3	
1,2-Dibromoethane (EDB)	ND	ppbv	0.84	1.68		10/23/10 00:51	106-93-4	
1,2-Dichlorobenzene	ND	ppbv	0.84	1.68		10/23/10 00:51	95-50-1	
1,3-Dichlorobenzene	ND	ppbv	0.84	1.68		10/23/10 00:51	541-73-1	
1,4-Dichlorobenzene	ND	ppbv	0.84	1.68		10/23/10 00:51	106-46-7	
Dichlorodifluoromethane	**0.96**	ppbv	0.84	1.68		10/23/10 00:51	75-71-8	
1,1-Dichloroethane	ND	ppbv	0.84	1.68		10/23/10 00:51	75-34-3	
1,2-Dichloroethane	ND	ppbv	0.84	1.68		10/23/10 00:51	107-06-2	
1,1-Dichloroethene	ND	ppbv	0.84	1.68		10/23/10 00:51	75-35-4	
cis-1,2-Dichloroethene	ND	ppbv	0.84	1.68		10/23/10 00:51	156-59-2	
trans-1,2-Dichloroethene	ND	ppbv	0.84	1.68		10/23/10 00:51	156-60-5	
1,2-Dichloropropane	ND	ppbv	0.84	1.68		10/23/10 00:51	78-87-5	
cis-1,3-Dichloropropene	ND	ppbv	0.84	1.68		10/23/10 00:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ppbv	0.84	1.68		10/23/10 00:51	10061-02-6	
Dichlorotetrafluoroethane	ND	ppbv	0.84	1.68		10/23/10 00:51	76-14-2	
Ethylbenzene	ND	ppbv	0.84	1.68		10/23/10 00:51	100-41-4	
Hexachloro-1,3-butadiene	ND	ppbv	0.84	1.68		10/23/10 00:51	87-68-3	
Methylene Chloride	**299**	ppbv	0.84	1.68		10/23/10 00:51	75-09-2	E
Styrene	ND	ppbv	0.84	1.68		10/23/10 00:51	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ppbv	0.84	1.68		10/23/10 00:51	79-34-5	
Tetrachloroethene	ND	ppbv	0.84	1.68		10/23/10 00:51	127-18-4	
THC as Gas	**132**	ppbv	33.6	1.68		10/23/10 00:51		
Toluene	**4.2**	ppbv	0.84	1.68		10/23/10 00:51	108-88-3	
1,2,4-Trichlorobenzene	ND	ppbv	0.84	1.68		10/23/10 00:51	120-82-1	
1,1,1-Trichloroethane	ND	ppbv	0.84	1.68		10/23/10 00:51	71-55-6	
1,1,2-Trichloroethane	ND	ppbv	0.84	1.68		10/23/10 00:51	79-00-5	
Trichloroethene	ND	ppbv	0.84	1.68		10/23/10 00:51	79-01-6	
Trichlorofluoromethane	ND	ppbv	0.84	1.68		10/23/10 00:51	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ppbv	0.84	1.68		10/23/10 00:51	76-13-1	
1,2,4-Trimethylbenzene	ND	ppbv	0.84	1.68		10/23/10 00:51	95-63-6	
1,3,5-Trimethylbenzene	ND	ppbv	0.84	1.68		10/23/10 00:51	108-67-8	
Vinyl chloride	ND	ppbv	0.84	1.68		10/23/10 00:51	75-01-4	
m&p-Xylene	ND	ppbv	1.7	1.68		10/23/10 00:51	1330-20-7	
o-Xylene	ND	ppbv	0.84	1.68		10/23/10 00:51	95-47-6	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: FF/NN Landfill
Pace Project No.: 3035481

QC Batch: AIR/11124 Analysis Method: TO-14 Ambient Air
QC Batch Method: TO-14 Ambient Air Analysis Description: TO14 MSV AIR - AMBIENT
Associated Lab Samples: 3035481001, 3035481002, 3035481003, 3035481005

METHOD BLANK: 877431 Matrix: Air
Associated Lab Samples: 3035481001, 3035481002, 3035481003, 3035481005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ppbv	ND	0.50	10/22/10 16:28	
1,1,2,2-Tetrachloroethane	ppbv	ND	0.50	10/22/10 16:28	
1,1,2-Trichloroethane	ppbv	ND	0.50	10/22/10 16:28	
1,1,2-Trichlorotrifluoroethane	ppbv	ND	0.50	10/22/10 16:28	
1,1-Dichloroethane	ppbv	ND	0.50	10/22/10 16:28	
1,1-Dichloroethene	ppbv	ND	0.50	10/22/10 16:28	
1,2,4-Trichlorobenzene	ppbv	ND	0.50	10/22/10 16:28	
1,2,4-Trimethylbenzene	ppbv	ND	0.50	10/22/10 16:28	
1,2-Dibromoethane (EDB)	ppbv	ND	0.50	10/22/10 16:28	
1,2-Dichlorobenzene	ppbv	ND	0.50	10/22/10 16:28	
1,2-Dichloroethane	ppbv	ND	0.50	10/22/10 16:28	
1,2-Dichloropropane	ppbv	ND	0.50	10/22/10 16:28	
1,3,5-Trimethylbenzene	ppbv	ND	0.50	10/22/10 16:28	
1,3-Dichlorobenzene	ppbv	ND	0.50	10/22/10 16:28	
1,4-Dichlorobenzene	ppbv	ND	0.50	10/22/10 16:28	
Benzene	ppbv	ND	0.50	10/22/10 16:28	
Bromomethane	ppbv	ND	0.50	10/22/10 16:28	
Carbon tetrachloride	ppbv	ND	0.50	10/22/10 16:28	
Chlorobenzene	ppbv	ND	0.50	10/22/10 16:28	
Chloroethane	ppbv	ND	0.50	10/22/10 16:28	
Chloroform	ppbv	ND	0.50	10/22/10 16:28	
Chloromethane	ppbv	ND	0.50	10/22/10 16:28	
cis-1,2-Dichloroethene	ppbv	ND	0.50	10/22/10 16:28	
cis-1,3-Dichloropropene	ppbv	ND	0.50	10/22/10 16:28	
Dichlorodifluoromethane	ppbv	ND	0.50	10/22/10 16:28	
Dichlorotetrafluoroethane	ppbv	ND	0.50	10/22/10 16:28	
Ethylbenzene	ppbv	ND	0.50	10/22/10 16:28	
Hexachloro-1,3-butadiene	ppbv	ND	0.50	10/22/10 16:28	
m&p-Xylene	ppbv	ND	1.0	10/22/10 16:28	
Methylene Chloride	ppbv	ND	0.50	10/22/10 16:28	
o-Xylene	ppbv	ND	0.50	10/22/10 16:28	
Styrene	ppbv	ND	0.50	10/22/10 16:28	
Tetrachloroethene	ppbv	ND	0.50	10/22/10 16:28	
THC as Gas	ppbv	ND	20.0	10/22/10 16:28	
Toluene	ppbv	ND	0.50	10/22/10 16:28	
trans-1,2-Dichloroethene	ppbv	ND	0.50	10/22/10 16:28	
trans-1,3-Dichloropropene	ppbv	ND	0.50	10/22/10 16:28	
Trichloroethene	ppbv	ND	0.50	10/22/10 16:28	
Trichlorofluoromethane	ppbv	ND	0.50	10/22/10 16:28	
Vinyl chloride	ppbv	ND	0.50	10/22/10 16:28	

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QUALITY CONTROL DATA

Project: FF/NN Landfill
Pace Project No.: 3035481

LABORATORY CONTROL SAMPLE: 877432

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ppbv	10	10	100	75-135	
1,1,2,2-Tetrachloroethane	ppbv	10	11.0	110	69-131	
1,1,2-Trichloroethane	ppbv	10	9.7	97	64-127	
1,1,2-Trichlorotrifluoroethane	ppbv	10	9.4	94	53-125	
1,1-Dichloroethane	ppbv	10	9.9	99	60-125	
1,1-Dichloroethene	ppbv	10	9.0	90	69-128	
1,2,4-Trichlorobenzene	ppbv	10	13.5	135	30-150	CH
1,2,4-Trimethylbenzene	ppbv	10	7.6	76	61-150	
1,2-Dibromoethane (EDB)	ppbv	10	9.8	98	68-136	
1,2-Dichlorobenzene	ppbv	10	7.8	78	59-150	
1,2-Dichloroethane	ppbv	10	9.8	98	66-127	
1,2-Dichloropropane	ppbv	10	9.9	99	75-134	
1,3,5-Trimethylbenzene	ppbv	10	7.7	77	71-150	
1,3-Dichlorobenzene	ppbv	10	11.0	110	58-147	
1,4-Dichlorobenzene	ppbv	10	11.0	110	62-143	
Benzene	ppbv	10	9.4	94	71-125	
Bromomethane	ppbv	10	9.1	91	69-125	
Carbon tetrachloride	ppbv	10	9.8	98	60-145	
Chlorobenzene	ppbv	10	9.3	93	73-143	
Chloroethane	ppbv	10	9.2	92	71-128	
Chloroform	ppbv	10	9.7	97	73-137	
Chloromethane	ppbv	10	8.4	84	64-125	
cis-1,2-Dichloroethene	ppbv	10	9.8	98	67-131	
cis-1,3-Dichloropropene	ppbv	10	10.5	105	75-150	
Dichlorodifluoromethane	ppbv	10	9.0	90	69-124	
Dichlorotetrafluoroethane	ppbv	10	8.5	85	59-125	
Ethylbenzene	ppbv	10	10.3	103	75-150	
Hexachloro-1,3-butadiene	ppbv	10	13.5	135	30-150	CH
m&p-Xylene	ppbv	10	10.0	100	68-138	
Methylene Chloride	ppbv	10	8.9	89	45-125	
o-Xylene	ppbv	10	11.3	113	69-143	
Styrene	ppbv	10	10.8	108	62-137	
Tetrachloroethene	ppbv	10	9.5	95	68-136	
THC as Gas	ppbv	700	736	105	55-149	
Toluene	ppbv	10	9.8	98	70-128	
trans-1,2-Dichloroethene	ppbv	10	9.4	94	69-131	
trans-1,3-Dichloropropene	ppbv	10	10.7	107	65-135	
Trichloroethene	ppbv	10	10	100	75-147	
Trichlorofluoromethane	ppbv	10	9.2	92	63-127	
Vinyl chloride	ppbv	10	9.0	90	66-125	

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QUALITY CONTROL DATA

Project: FF/NN Landfill
Pace Project No.: 3035481

QC Batch: AIR/11144
QC Batch Method: TO-14 Ambient Air
Analysis Method: TO-14 Ambient Air
Analysis Description: TO14 MSVAIR - AMBIENT
Associated Lab Samples: 3035481004

METHOD BLANK: 879166
Matrix: Air
Associated Lab Samples: 3035481004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ppbv	ND	0.50	10/27/10 10:49	
1,1,2,2-Tetrachloroethane	ppbv	ND	0.50	10/27/10 10:49	
1,1,2-Trichloroethane	ppbv	ND	0.50	10/27/10 10:49	
1,1,2-Trichlorotrifluoroethane	ppbv	ND	0.50	10/27/10 10:49	
1,1-Dichloroethane	ppbv	ND	0.50	10/27/10 10:49	
1,1-Dichloroethene	ppbv	ND	0.50	10/27/10 10:49	
1,2,4-Trichlorobenzene	ppbv	ND	0.50	10/27/10 10:49	
1,2,4-Trimethylbenzene	ppbv	ND	0.50	10/27/10 10:49	
1,2-Dibromoethane (EDB)	ppbv	ND	0.50	10/27/10 10:49	
1,2-Dichlorobenzene	ppbv	ND	0.50	10/27/10 10:49	
1,2-Dichloroethane	ppbv	ND	0.50	10/27/10 10:49	
1,2-Dichloropropane	ppbv	ND	0.50	10/27/10 10:49	
1,3,5-Trimethylbenzene	ppbv	ND	0.50	10/27/10 10:49	
1,3-Dichlorobenzene	ppbv	ND	0.50	10/27/10 10:49	
1,4-Dichlorobenzene	ppbv	ND	0.50	10/27/10 10:49	
Benzene	ppbv	ND	0.50	10/27/10 10:49	
Bromomethane	ppbv	ND	0.50	10/27/10 10:49	
Carbon tetrachloride	ppbv	ND	0.50	10/27/10 10:49	
Chlorobenzene	ppbv	ND	0.50	10/27/10 10:49	
Chloroethane	ppbv	ND	0.50	10/27/10 10:49	
Chloroform	ppbv	ND	0.50	10/27/10 10:49	
Chloromethane	ppbv	ND	0.50	10/27/10 10:49	
cis-1,2-Dichloroethene	ppbv	ND	0.50	10/27/10 10:49	
cis-1,3-Dichloropropene	ppbv	ND	0.50	10/27/10 10:49	
Dichlorodifluoromethane	ppbv	ND	0.50	10/27/10 10:49	
Dichlorotetrafluoroethane	ppbv	ND	0.50	10/27/10 10:49	
Ethylbenzene	ppbv	ND	0.50	10/27/10 10:49	
Hexachloro-1,3-butadiene	ppbv	ND	0.50	10/27/10 10:49	
m&p-Xylene	ppbv	ND	1.0	10/27/10 10:49	
Methylene Chloride	ppbv	ND	0.50	10/27/10 10:49	
o-Xylene	ppbv	ND	0.50	10/27/10 10:49	
Styrene	ppbv	ND	0.50	10/27/10 10:49	
Tetrachloroethene	ppbv	ND	0.50	10/27/10 10:49	
THC as Gas	ppbv	ND	20.0	10/27/10 10:49	
Toluene	ppbv	ND	0.50	10/27/10 10:49	
trans-1,2-Dichloroethene	ppbv	ND	0.50	10/27/10 10:49	
trans-1,3-Dichloropropene	ppbv	ND	0.50	10/27/10 10:49	
Trichloroethene	ppbv	ND	0.50	10/27/10 10:49	
Trichlorofluoromethane	ppbv	ND	0.50	10/27/10 10:49	
Vinyl chloride	ppbv	ND	0.50	10/27/10 10:49	

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QUALITY CONTROL DATA

Project: FF/NN Landfill
Pace Project No.: 3035481

LABORATORY CONTROL SAMPLE: 879167

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ppbv	10	8.4	84	75-135	
1,1,2,2-Tetrachloroethane	ppbv	10	8.6	86	69-131	
1,1,2-Trichloroethane	ppbv	10	8.0	80	64-127	
1,1,2-Trichlorotrifluoroethane	ppbv	10	7.8	78	53-125	
1,1-Dichloroethane	ppbv	10	8.2	82	60-125	
1,1-Dichloroethene	ppbv	10	8.3	83	69-128	
1,2,4-Trichlorobenzene	ppbv	10	14.2	142	30-150	CH
1,2,4-Trimethylbenzene	ppbv	10	7.8	78	61-150	
1,2-Dibromoethane (EDB)	ppbv	10	8.9	89	68-136	
1,2-Dichlorobenzene	ppbv	10	11.2	112	59-150	
1,2-Dichloroethane	ppbv	10	8.3	83	66-127	
1,2-Dichloropropane	ppbv	10	8.8	88	75-134	
1,3,5-Trimethylbenzene	ppbv	10	9.3	93	71-150	
1,3-Dichlorobenzene	ppbv	10	9.9	99	58-147	
1,4-Dichlorobenzene	ppbv	10	9.0	90	62-143	
Benzene	ppbv	10	9.2	92	71-125	
Bromomethane	ppbv	10	8.2	82	69-125	
Carbon tetrachloride	ppbv	10	8.1	81	60-145	
Chlorobenzene	ppbv	10	8.5	85	73-143	
Chloroethane	ppbv	10	8.3	83	71-128	
Chloroform	ppbv	10	8.1	81	73-137	
Chloromethane	ppbv	10	8.1	81	64-125	
cis-1,2-Dichloroethene	ppbv	10	9.4	94	67-131	
cis-1,3-Dichloropropene	ppbv	10	10.2	102	75-150	
Dichlorodifluoromethane	ppbv	10	7.7	77	69-124	
Dichlorotetrafluoroethane	ppbv	10	7.6	76	59-125	
Ethylbenzene	ppbv	10	10.6	106	75-150	
Hexachloro-1,3-butadiene	ppbv	10	16.6	166	30-150	CH,L3
m&p-Xylene	ppbv	10	9.0	90	68-138	
Methylene Chloride	ppbv	10	8.9	89	45-125	
o-Xylene	ppbv	10	9.4	94	69-143	
Styrene	ppbv	10	9.0	90	62-137	
Tetrachloroethene	ppbv	10	8.7	87	68-136	
THC as Gas	ppbv	700	746	107	55-149	
Toluene	ppbv	10	8.9	89	70-128	
trans-1,2-Dichloroethene	ppbv	10	8.6	86	69-131	
trans-1,3-Dichloropropene	ppbv	10	9.0	90	65-135	
Trichloroethene	ppbv	10	8.8	88	75-147	
Trichlorofluoromethane	ppbv	10	7.6	76	63-127	
Vinyl chloride	ppbv	10	8.7	87	66-125	

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QUALIFIERS

Project: FF/NN Landfill
Pace Project No.: 3035481

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.

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 NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FF/NN Landfill
Pace Project No.: 3035481

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3035481001	LC-1	TO-14 Ambient Air	AIR/11124		
3035481002	LC-2	TO-14 Ambient Air	AIR/11124		
3035481003	LC-3	TO-14 Ambient Air	AIR/11124		
3035481004	GV-6	TO-14 Ambient Air	AIR/11144		
3035481005	GP-3	TO-14 Ambient Air	AIR/11124		

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SAMPLE ACKNOWLEDGMENT

Samples Submitted By: Cooper Industries
Client Project ID: FF/NN Landfill
Client PO#:

Pace Project Manager: Timothy Reed
Phone 724-850-5600
timothy.reed@pacelabs.com
Pace Analytical Project ID: 3035481
Samples Received: October 13, 2010 10:00 AM
Estimated Completion: October 27, 2010

CC: Mr. Kevin Lincicum,Mr. Michael Noel,Mr. Nelson Olavarria

Customer Sample ID	Pace Analytical Lab ID	Matrix	Date/Time Collected	Method
LC-1	3035481001	Air	10/12/10 08:05	Subbed work within PASI AIR
LC-2	3035481002	Air	10/12/10 08:12	Subbed work within PASI AIR
LC-3	3035481003	Air	10/12/10 08:15	Subbed work within PASI AIR
GV-6	3035481004	Air	10/12/10 08:10	Subbed work within PASI AIR
GP-3	3035481005	Air	10/12/10 08:18	Subbed work within PASI AIR

Please contact your project manager if you recognize any discrepancy in this form or have any questions about your project.

Thank you for choosing Pace Analytical Services, Inc.

ATTACHMENT C

GROUNDWATER SAMPLING FIELD FORMS

GEOTRANS, INC. FIELD WATER QUALITY SAMPLING AND ANALYSIS FORM

PROJECT INFORMATION		INSTRUMENTS	
PROJECT	FF/NN Landfill	Temp. & pH	MP-20 Flow Cell
PROJECT NO.	117-2202040.05	Conductivity	MP-20 Flow Cell
LOCATION	Ripon, WI	ORP	MP-20 Flow Cell
PERSONNEL	Ashley A. Weimer	DO	MP-20 Flow Cell

SAMPLE POINT		MW-107	MW-111	MW-103	MW-101	P-101
WATER TYPE		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
DATE (month/day/year)		10- 4 -10	10- 4 -10	10- 4 -10	10- 4 -10	10- 4 -10
CLOCK TIME (Military)		18.15	18.45	17.45	16:30	16:45
DEPTH TO WATER (ft)*		51.93	38.16	51.10	61.51	62.01
MEASURED WELL DEPTH (ft)*		55.32	44.13	53.69	64.40	95.28
CASING VOLUME (gallons)		0.55	0.97	0.42	0.47	5.42
PURGE VOLUME (gallons)		2.5	4.0	2.0	2.0	22.0
DEPTH SAMPLE TAKEN (ft)*		55	43.5	53	64	80
SAMPLING DEVICE		Dedicated Baller	Dedicated Baller	Dedicated Baller	Dedicated Baller	Hanging Bailer
FIELD TEMPERATURE (°C)		10.63	9.60	12.90	15.84	15.02
pH		7.62	7.72	7.22	6.95	7.51
ELEC. COND. (uS/cm)	Measured	NM	NM	NM	NM	NM
	at 25° C	1.65	0.995	1.92	1.265	0.948
ORP (mV)		76	85	46	-63	-92
DISSOLVED OXYGEN (ppm)		6.38	4.87	3.33	2.13	1.90
DISSOLVED OXYGEN (% Sat.)		57.8	43.0	31.8	21.6	18.9
COLOR		clear	clear	clear	clear	clear
ODOR		none	none	none	none	none
CLARITY		clear	clear	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 (8260B) and Methane		6 – 40 ml; G; HCl-L; No	6 – 40 ml; G; HCl-L; No	6 – 40 ml; G; HCl-L; No	6 – 40 ml; G; HCl-L; No	6 – 40 ml; G; HCl-L; No
Vacu-Vials Nitrate		OVER Range	0.99	OVER Range	0.08	0.08
Vacu-Vials Sulfate		49.95	OVER Range	OVER Range	106.8	69.72
Vacu-Vials Iron 2		0.70	0.02	Not Tested	Not Tested	Not Tested
NAME OF LABORATORY		Pace Analytical	Pace Analytical	Pace Analytical	Pace Analytical	Pace Analytical
DATE SENT TO LAB		10- 7 -10	10- 7 -10	10- 7 -10	10- 7 -10	10- 7 -10
SAMPLER'S NAME		Ashley A. Weimer	Ashley A. Weimer	Ashley A. Weimer	Ashley A. Weimer	Ashley A. Weimer

*Measured from top of well casing.

GEOTRANS, INC. FIELD WATER QUALITY SAMPLING AND ANALYSIS FORM

PROJECT INFORMATION		INSTRUMENTS	
PROJECT	FF/NN Landfill	Temp. & pH	MP-20 Flow Cell
PROJECT NO.	117-2202040.05	Conductivity	MP-20 Flow Cell
LOCATION	Ripon, WI	ORP	MP-20 Flow Cell
PERSONNEL	Ashley A. Weimer	DO	MP-20 Flow Cell

SAMPLE POINT		Rohde	Gaastra	Baneck/Perry/Watkins		
WATER TYPE		Groundwater	Groundwater	Groundwater	Ground	Groundwater
DATE (month/day/year)		10- 6 -10	10- 6 -10	10- 6 -10		
CLOCK TIME (Military)		14:05	14:45	15:00		
PURGE RATE (GPM)		6.67	4.6	6.67		
PURGE VOLUME (gallons)		100	100	100		
SAMPLING DEVICE		Outside Pump	Outside Spigot	Outside Spigot		
FIELD TEMPERATURE (°C)		13.70	14.98	14.37		
pH		8.08	8.22	8.18		
ELEC. COND. (uS/cm)	Measured	NM	NM	NM		
	at25° C	0.612	0.597	0.582		
ORP (mV)		-117	-201	-183		
DISSOLVED OXYGEN (ppm)		1.91	1.14	1.38		
DISSOLVED OXYGEN (% Sat.)		18.5	11.3	13.6		
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		
Methane		3 – 40 ml; G; HCl-L; No	3 – 40 ml; G; HCl-L; No	3 – 40 ml; G; HCl-L; No		
Vacu-Vials Nitrate		0.08	0.11	0.10		
Vacu-Vials Sulfate		26.48	22.65	20.12		
NAME OF LABORATORY		Pace Analytical	Pace Analytical	Pace Analytical		
DATE SENT TO LAB		10- 7 -10	10- 7 -10	10- 7 -10		
SAMPLER'S NAME		Ashley A. Weimer	Ashley A. Weimer	Ashley A. Weimer		

*Measured from top of well casing.

GEOTRANS, INC. 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.	117-2202040.05	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)	10- 5 -10			10- 5 -10			10- 6 -10		
STATIC WATER LEVEL (feet)*	31.86			30.45			14.85		
WELL DEPTH (feet)*	280.1			185.72			325.31		
PUMP INLET DEPTH (feet)*	67.5			54.5			73.5		
START PURGE TIME (Military)	15:00			14:35			09:30		
END PURGE TIME (Military)	15:20			14:55			09:55		
PURGE VOLUME (gallons)	0.5			1.75			0.5		
SAMPLE TIME (Military)	15:30			15:00			10:00		
STABILIZED INDICATOR PARAMETERS READINGS	1st	2nd	3rd	1st	2nd	3rd	1st	2nd	3rd
TIME (minutes since initial reading)	7 :00	8 :00	9 :00	5 :00	6 :00	7 :00	14 :00	16 :00	18 :00
TEMPERATURE (° C)	11.33	11.31	11.29	9.94	9.91	9.93	12.81	12.82	12.79
ELECTRICAL CONDUCTANCE at 25° C (ms/cm)	0.600	0.600	0.600	0.702	0.700	0.697	0.591	0.591	0.591
DISSOLVED OXYGEN (ppm)	1.70	1.59	1.51	1.11	1.04	1.00	1.04	0.94	0.89
pH	8.19	8.21	8.20	8.30	8.25	8.24	7.98	8.00	7.98
DISSOLVED OXYGEN (% Sat.)	15.6	14.6	13.9	9.9	9.2	8.8	9.9	8.9	8.4
ORP (mV)	-200	-202	-204	-164	-162	-161	-185	-191	-196
COLOR	clear			clear			clear		
ODOR	none			sulfur			sulfur		
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) and Methane	6 – 40 ml; G; HCl – L; No	6 – 40 ml; G; HCl – L; No	6 – 40 ml; G; HCl – L; No
Vacu-Vials Nitrate- Shake 3, wait 2, then wait 10 min	0.05	0.05	0.43
Vacu-Vials Sulfate- wait 1 min	15.33	43.23	44.48
Vacu-Vials Iron 2- Wait 1, then wait 5 min	Not tested	0.61	Not tested
NAME OF LABORATORY	Pace Analytical	Pace Analytical	Pace Analytical
DATE SENT TO LAB	10- 7 -10	10- 7 -10	10- 7 -10
SAMPLER'S NAME	Ashley A. Weimer	Ashley A. Weimer	Ashley A. Weimer

*Measured from top of well casing.

GEOTRANS, INC. 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.	117-2202040.05	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)	10- 6 -10			10- 5 -10			10- 5 -10		
STATIC WATER LEVEL (feet)*	14.22			49.73			50.73		
WELL DEPTH (feet)*	198.9			83.02			192.66		
PUMP INLET DEPTH (feet)*	48.5			69.5			87.5		
START PURGE TIME (Military)	10:05			12:25			11:55		
END PURGE TIME (Military)	10:25			12:35			12:15		
PURGE VOLUME (gallons)	2.0			2.0			2.0		
SAMPLE TIME (Military)	10:30			12:45			12:20		
STABILIZED INDICATOR PARAMETERS READINGS	1st	2nd	3rd	1st	2nd	3rd	1st	2nd	3rd
TIME (minutes since initial reading)	0 :00	1 :00	2 :00	3 :00	4 :00	5 :00	9 :00	10 :00	11 :00
TEMPERATURE (° C)	11.09	10.99	10.95	10.95	10.96	10.93	10.83	10.84	10.87
ELECTRICAL CONDUCTANCE at 25° C (ms/cm)	0.685	0.685	0.685	0.873	0.873	0.874	0.897	0.897	0.898
DISSOLVED OXYGEN (ppm)	0.35	0.36	0.35	1.28	1.18	1.15	1.28	1.17	1.10
pH	8.10	8.10	8.09	7.89	7.89	7.86	7.95	7.98	7.97
DISSOLVED OXYGEN (% Sat.)	3.2	3.2	3.2	11.7	10.7	10.4	11.6	10.6	9.9
ORP (mV)	-184	-183	-183	-126	-127	-128	-147	-147	-147
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) and Methane	6 – 40 ml; G; HCl – L; No	6 – 40 ml; G; HCl – L; No	6 – 40 ml; G; HCl – L; No
Vacu-Vials Nitrate- Shake 3, wait 2, then wait 10 min	0.10	0.08	0.11
Vacu-Vials Sulfate- wait 1 min	75.55	85.02	93.48
Vacu-Vials Iron 2- Wait 1, then wait 5 min	0.98	Not Tested	Not Tested
NAME OF LABORATORY	Pace Analytical	Pace Analytical	Pace Analytical
DATE SENT TO LAB	10- 7 -10	10- 7 -10	10- 7 -10
SAMPLER'S NAME	Ashley A. Weimer	Ashley A. Weimer	Ashley A. Weimer

*Measured from top of well casing.

GEOTRANS, INC. 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.	117-2202040.05	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-111D /DUP			P-111			P-107		
WATER TYPE	Groundwater			Groundwater			Groundwater		
DATE (month/day/year)	10- 5 -10			10- 5 -10			10- 5 -10		
STATIC WATER LEVEL (feet)*	35.63			38.25			51.56		
WELL DEPTH (feet)*	151.0			81.54			85.75		
PUMP INLET DEPTH (feet)*	151.0			81.0			74.5		
START PURGE TIME (Military)	09:00			10:30			13:45		
END PURGE TIME (Military)	10:20			10:45			14:05		
PURGE VOLUME (gallons)	1.25			1.0			2.0		
SAMPLE TIME (Military)	10:25 / 10:30			10:50			14:10		
STABILIZED INDICATOR PARAMETERS READINGS	1st	2nd	3rd	1st	2nd	3rd	1st	2nd	3rd
TIME (minutes since initial reading)	5 :00	6 :00	7 :00	6 :00	7 :00	8 :00	0 :00	1 :00	2 :00
TEMPERATURE (° C)	10.51	10.35	10.34	10.33	10.31	10.31	10.81	10.74	10.80
ELECTRICAL CONDUCTANCE at 25° C (ms/cm)	0.885	0.887	0.886	0.696	0.708	0.715	0.930	0.930	0.930
DISSOLVED OXYGEN (ppm)	0.93	0.84	0.75	0.31	0.30	0.28	2.01	1.88	1.84
pH	8.11	8.13	8.13	8.31	8.30	8.26	7.88	7.86	7.86
DISSOLVED OXYGEN(% Sat.)	8.4	7.6	6.7	2.7	2.6	2.5	18.3	17.0	16.7
ORP (mV)	-147	-147	-148	-129	-130	-131	-116	-117	-117
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) and Methane	6 – 40 ml; G; HCl – L; No			6 – 40 ml; G; HCl – L; No			6 – 40 ml; G; HCl – L; No		
Vacu-Vials Nitrate- Shake 3, wait 2, then wait 10 min	0.08			0.06			0.06		
Vacu-Vials Sulfate- wait 1 min	61.20			69.06			88.68		
Vacu-Vials Iron 2- Wait 1, then wait 5 min	1.75			Not Tested			Not Tested		
	Had to pull pump water in air line								
NAME OF LABORATORY	Pace Analytical			Pace Analytical			Pace Analytical		
DATE SENT TO LAB	10- 7 -10			10- 7 -10			10- 7 -10		
SAMPLER'S NAME	Ashley A. Weimer			Ashley A. Weimer			Ashley A. Weimer		

*Measured from top of well casing.

GEOTRANS, INC. 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.	117-2202040.05	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-107D			P-114 /DUP.			P-115		
WATER TYPE	Groundwater			Groundwater			Groundwater		
DATE (month/day/year)	10- 5 -10			10- 6 -10			10- 6 -10		
STATIC WATER LEVEL (feet)*	53.13			20.35			23.58		
WELL DEPTH (feet)*	327.95			181.72			179.57		
PUMP INLET DEPTH (feet)*	76.5			53.5			53.5		
START PURGE TIME (Military)	13:10			12:50			11:05		
END PURGE TIME (Military)	13:35			13:00			11:20		
PURGE VOLUME (gallons)	2.0			1.0			1.75		
SAMPLE TIME (Military)	13:40			13:05/13:10			11:25		
STABILIZED INDICATOR PARAMETERS READINGS	1st	2nd	3rd	1st	2nd	3rd	1st	2nd	3rd
TIME (minutes since initial reading)	13 :00	14 :00	15 :00	0 :00	1 :00	2 :00	5 :00	6 :00	7 :00
TEMPERATURE(°C)	10.59	10.59	10.58	10.74	10.68	10.64	10.69	10.68	10.68
ELECTRICAL CONDUCTANCE at25° C (ms/cm)	0.619	0.620	0.619	0.765	0.766	0.766	0.646	0.646	0.646
DISSOLVED OXYGEN (ppm)	0.96	1.01	0.93	1.04	0.92	0.86	1.61	1.50	1.42
pH	8.11	8.09	8.09	8.32	8.29	8.28	8.14	8.15	8.15
DISSOLVED OXYGEN (% Sat.)	8.6	9.1	8.4	9.4	8.3	7.8	14.5	13.5	12.8
ORP (mV)	-131	-131	-132	-192	-188	-182	-175	-175	-175
COLOR	clear			clear			clear		
ODOR	sulfur			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) and Methane	6 – 40 ml; G; HCl – L; No	6 – 40 ml; G; HCl – L; No	6 – 40 ml; G; HCl – L; No
Vacu-Vials Nitrate- Shake 3, wait 2, then wait 10 min	0.06	0.11	0.10
Vacu-Vials Sulfate- wait 1 min	21.24	57.18	41.23
Vacu-Vials Iron 2- Wait 1, then wait 5 min	0.03	0.72	0.95
NAME OF LABORATORY	Pace Analytical	Pace Analytical	Pace Analytical
DATE SENT TO LAB	10- 7 -10	10- 7 -10	10- 7 -10
SAMPLER'S NAME	Ashley A. Weimer	Ashley A. Weimer	Ashley A. Weimer

*Measured from top of well casing.

GEOTRANS, INC. 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.	117-2202040.05	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-116		
WATER TYPE	Groundwater	Groundwater	Groundwater
DATE (month/day/year)	10- 6 -10		
STATIC WATER LEVEL (feet)*	27.49		
WELL DEPTH (feet)*	163.19		
PUMP INLET DEPTH (feet)*	163		
START PURGE TIME (Military)	11:55		
END PURGE TIME (Military)	12:20		
PURGE VOLUME (gallons)	1.0		
SAMPLE TIME (Military)	12:30		

STABILIZED INDICATOR PARAMETERS READINGS	1st	2nd	3rd	1st	2nd	3rd	1st	2nd	3rd
TIME (minutes since initial reading)	0 :00	2 :00	4 :00	:00	:00	:00	:00	:00	:00
TEMPERATURE (° C)	12.19	12.18	12.11						
ELECTRICAL CONDUCTANCE at 25° C (ms/cm)	0.566	0.566	0.567						
DISSOLVED OXYGEN (ppm)	0.62	0.58	0.55						
pH	8.20	8.19	8.20						
DISSOLVED OXYGEN (% Sat.)	5.8	5.4	5.2						
ORP (mV)	-110	-108	-106						
COLOR	Pinkish								
ODOR	none								
CLARITY	Slightly Cloudy								

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) and Methane	6 – 40 ml; G; HCl – L; No	6 – 40 ml; G; HCl – L; No	6– 40 ml; G; HCl – L; No
Vacu-Vials Nitrate- Shake 3, wait 2, then wait 10 min	0.45		
Vacu-Vials Sulfate- wait 1 min	58.53		
Vacu-Vials Iron 2- Wait 1, then wait 5 min	0.92		
NAME OF LABORATORY	Pace Analytical		
DATE SENT TO LAB	10- 7 -10		
SAMPLER'S NAME	Ashley A. Weimer		

*Measured from top of well casing.

GeoTrans, Inc.

Water Levels

FF/NN Landfill, Ripon, WI

Date: 9.29.10 **Personnel:** Jack Wendler

Well Name	TOC Elevation	Depth to Water	Comments
MW-101	884.80	61.51	
P-101	885.26	62.01	
MW-102	843.05	19.39	
P-102	842.99	19.28	
MW-103	872.42	51.10	
P-103	872.92	49.73	
P-103D	873.08	50.73	
MW-104	875.15	52.03	
P-104	875.48	52.18	
MW-106	878.90	55.30	
P-106	878.91	55.39	
MW-107	871.78	51.93	
P-107	871.38	51.56	
P-107D	871.98	53.13	
MW-108	845.25	26.86	
P-108	845.61	~~26.86~~	23.95
MW-111	856.46	38.16	
P-111	856.13	38.25	
P-111D	855.79	35.63	
MW-112	874.55	54.31	
P-113A	833.09	14.85	
P-113B	833.10	14.22	
P-114 (Ehster)	839.35	20.35	
P-115 (Wiese)	842.71	23.58	
P-116 (Hadel)	845.34	27.49	
MW-3A	850.77	31.86	
MW-3B	851.04	30.45	

*take measurements from 113, 107, 3A-3B well nests consecutively

ATTACHMENT D

LANDFILL GAS EXTRACTION SYSTEM MONITORING

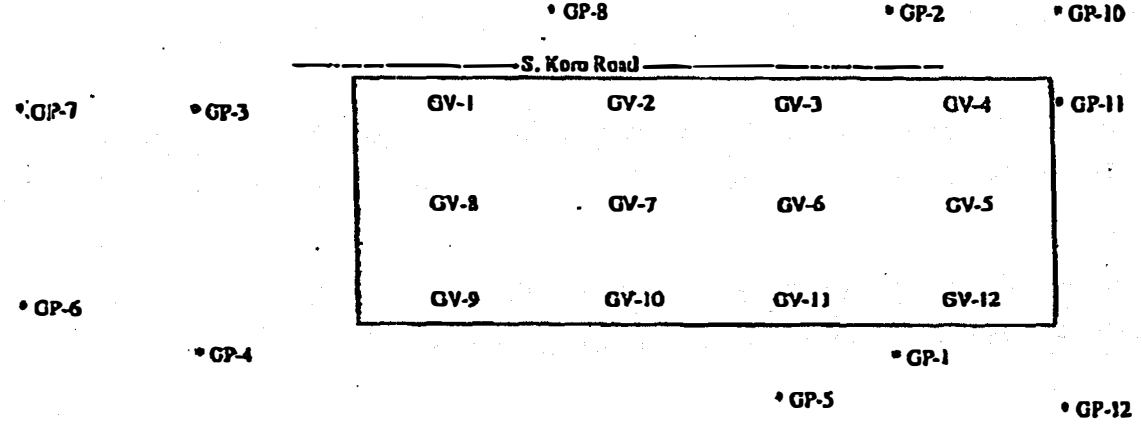
GeoTrans, Inc.

GAS PROBE DATA

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

Barometric Pressure: 28.8 Hg
Temperature (ambient): 72 F
Measuring Device: Eagle # LEL — gauge

Date	Time	Measure-ment Point	% CH_4	% CO_2	% O_2	Vel (ft/min)	Pressure (in H^2O)	Comments
7.19.10	0830	Background	0	0.0	18.9	—	—	
	0908	LC-1	7.0	19.6	2.0	~	—	
	0918	LC-2	34.5	27.4	1.7	~	—	
	0914	LC-3	15.5	19.0	4.7	—	~	
		GV-1						
		GV-4						
	0900	GV-6	68 #	16.8	2.7	—	—	
		GV-7						
		GV-9						
		GV-12						
	0836	GP-1	11 # / 13	6.4 / 9.2	7.8 / 4.2	—	—	



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GeoTrans, Inc.

GAS PROBE DATA

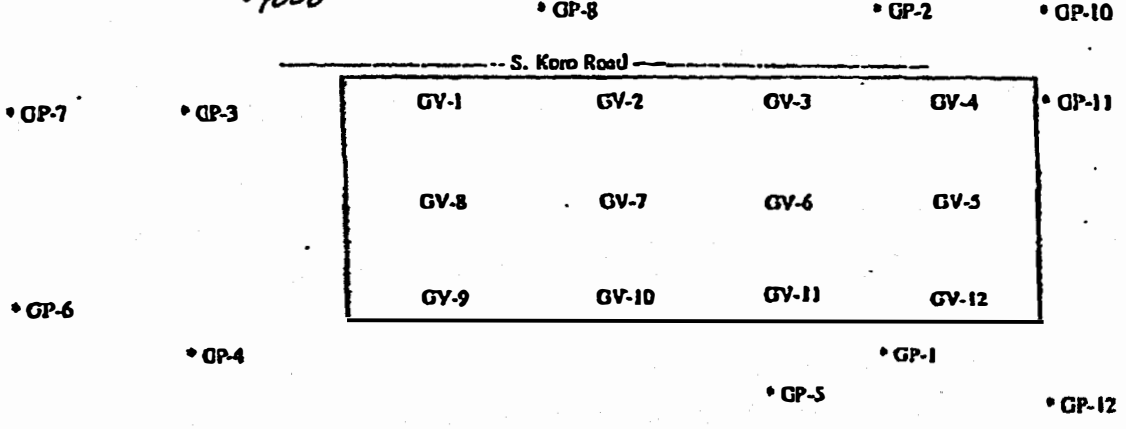
Project: FF/NN Landfill
Location: Ripon, Wisconsin
Personnel: Jack Rosenbaum

Barometric Pressure: 28.9 Hg
Temperature (ambient): 76 F
Measuring Device: Eagle 2 gauge Hg

% LEL

Date	Time	Measure-ment Point	% CH_4	% CO_2	% O_2	Vel (ft/min)	Pressure (in H^2O)	Comments
8.2.10	0840	Background	0	0.0	19.1			
	0900	LC-1	6.5	19.4	2.2			
	0920	LC-2	32.0	27.4	1.7			
	0910	LC-3	10.5	18.6	4.7			
		GV-1						
		GV-4						
	0850	GV-6	89%	17.0	3.0			
		GV-7						
		GV-9						
		GV-12						
	0845	GP-1	52/56	9.4/13.2	3.9/0.0	1		

1000



GeoTrans, Inc.

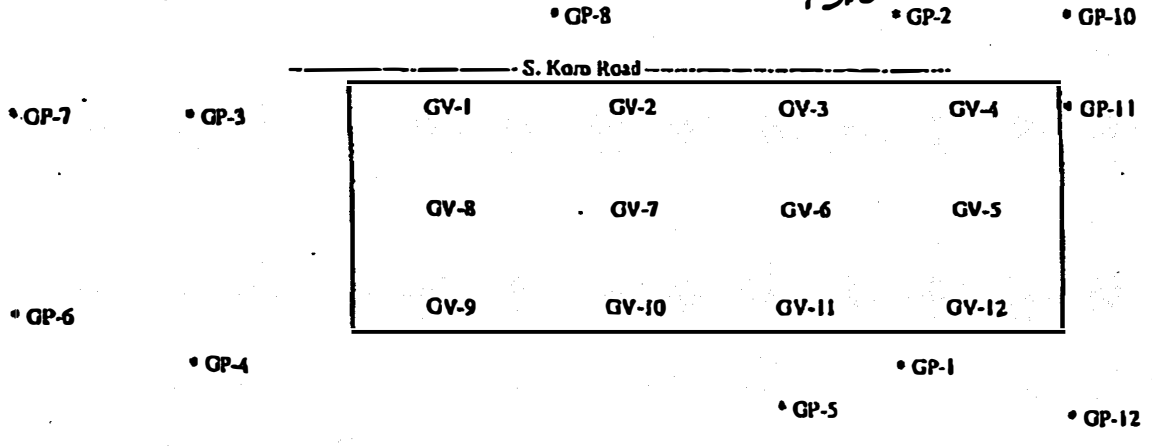
GAS PROBE DATA

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

Barometric Pressure: 28.9 Hg
Temperature (ambient): 72 F
Measuring Device: Eagle 1 gauge

#LEL

Date	Time	Measure-ment Point	% CH_4	% CO_2	% O_2	Vel (fl/min)	Pressure (in H^2O)	Comments
8.16.10	0930	Background	0 #	0.0	19.1	—	—	
	0950	LC-1	12.5	21.6	1.1	—	—	
	1005	LC-2	35.0	29.0	1.1	—	—	
	1000	LC-3	18.5	19.8	4.2	—	—	
		GV-1						
		GV-4						
	0943	GV-6	14.0	22.0	1.2			
		GV-7						
		GV-9						
		GV-12						
	0935/1045	GP-1	61*/42*	12.6/~~+8~~ 13.0	1.0/~~0.0~~ 1.1	—	—	



GeoTrans, Inc.

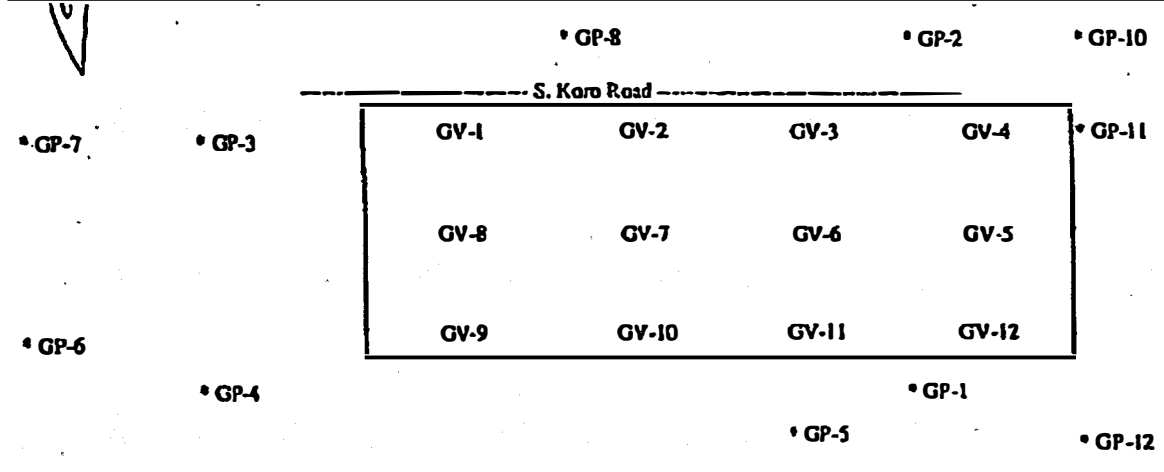
GAS PROBE DATA

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

Barometric Pressure: 29.0 Hg
Temperature (ambient): 78 F
Measuring Device: Eagle

% LEL Gauge 1

Date	Time	Measure-ment Point	% CH_4	% CO_2	% O_2	Vel (ft/min)	Pressure (in H^2O)	Comments
8.30.10	0830	Background	0	0.0	19.2	—	—	
	0952	LC-1	21.0	24.2	0.7	—	—	
	0910	LC-2	39.5	30.4	0.6	—	—	
	0905	LC-3	24.5	22.0	3.0	—	—	
		GV-1						
		GV-4						
	0847	GV-6	21.5	25.0	1.0	—		
		GV-7						
		GV-9						
		GV-12						
	0840/0950	GP-1	43*/48*	9.0/14.4	6.6/0.0	—	—	



GeoTrans, Inc.

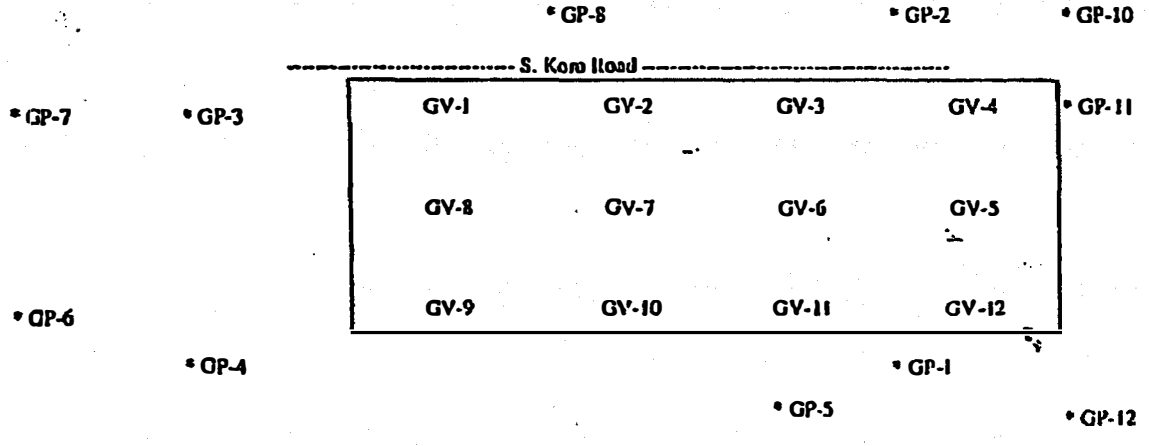
GAS PROBE DATA

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

Barometric Pressure: 29.0 Hg
Temperature (ambient): 60° F
Measuring Device: Eagle

* LEL 1 gauge Hg

Date	Time	Measure-ment Point	% CH_4	% CO_2	% O_2	Vel (ft/min)	Pressure (in H^2O)	Comments
9.13.10	0845	Background	0 *	0.0	19.2	—	—	
	0908	LC-1	26.5	25.2	1.1	—	—	
	0926	LC-2	41.5	30.6	1.1	—	—	
	0915	LC-3	27.0	22.4	4.3	—	—	
		GV-1						
		GV-4						
	0900	GV-6	30.0	26.6	1.2	—	—	
		GV-7						
		GV-9						
		GV-12						
	0850/1000	GP-1	5.5/5.0	12.4/11.8	1.5/2.0	—	—	



GeoTrans, Inc.

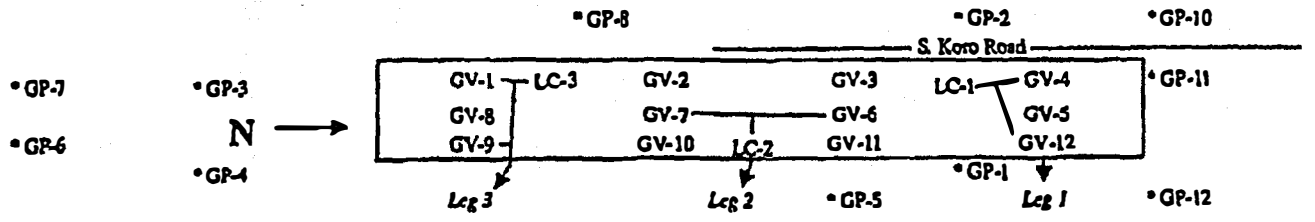
GAS PROBE DATA

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

Barometric Pressure: 28.9 Hg
Temperature (ambient): 58 F
Measuring Device: Eagle 1 gauge 11" Hg

* LEL

Date	Time	Measurement Point	% CH_4	% CO_2	% O_2	Comments
9.28.10	0830	Background	0 *	0.0	19.0	
	0940	LC-1	29.5	26.0	1.1	
	1000	LC-2	44.5	31.0	1.1	
	0918	LC-3	27.0	22.6	4.7	
	1032	MW-101	0 *	1.0	17.7	
	1105	MW-102	0 *	4.6	14.1	
	0857	MW-103	0 *	0.0	18.9	
	0925	MW-104	0 *	0.2	18.6	
	-	~~GV-1~~	-	-	-	
	-	~~GV-4~~	-	-	-	
	0947	GV-6	37.0	28.2	1.2	
	-	~~GV-7~~	-	-	-	
	-	~~GV-9~~	-	-	-	
	-	~~GV-12~~	-	-	-	
	1040/1145	GP-1	74*/6.0	11.2/12.0	1.9/2.0	
	1010	GP-2	0 *	2.4	17.1	
	0850	GP-3	0 *	1.8	17.2	
	0905	GP-4	0 *	2.2	16.6	
	1100	GP-5	0 *	8.8	11.6	
	0842	GP-6	0 *	4.2	14.6	
	0835	GP-7	0 *	4.0	14.3	
	0911	GP-8	0 *	5.4	12.7	
	1016	GP-10	0 *	1.8	17.7	
	1025	GP-11	0 *	3.0	16.8	
	1110	GP-12	0 *	4.0	15.3	
	1048	Leg 1	27.0	24.8	2.0	
	1050	Leg 2	39.0	29.0	1.5	
	1058	Leg3	24.0	21.8	5.1	
	1045	Exhaust	6.5	5.4	15.3	



GeoTrans, Inc.

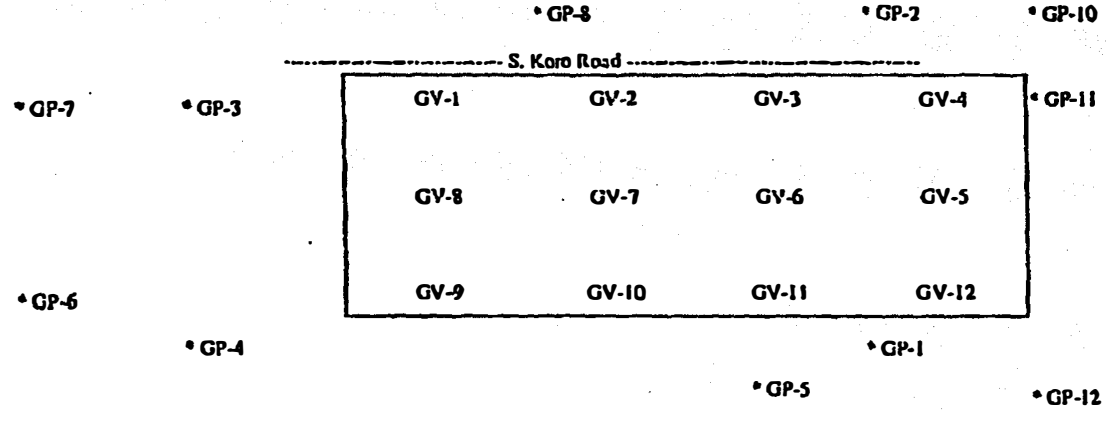
GAS PROBE DATA

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

Barometric Pressure: 28.9 Hg
Temperature (ambient): 40.° F
Measuring Device: 1 gauge Hg

*LEL

Date	Time	Measure-ment Point	% CH_4	% CO_2	% O_2	Vel (ft/min)	Pressure (in H^2O)	Comments
10.12.10	0645	Background	0*	0.0	19.2	—	—	
	0805	LC-1	24.5	25.2	1.7	—	—	
	0812	LC-2	44.5	31.0	1.8	—	—	
	0817	LC-3	24.5	22.4	5.0	—	—	
		GV-1						
		GV-4						
	0810	GV-6	24.0	25.0	1.7		—	
		GV-7						
		GV-9						
		GV-12						
	0650/0800	GP-1	14.0/9.0	15.0/12.6	0/3.8	—	—	



GeoTrans, Inc.

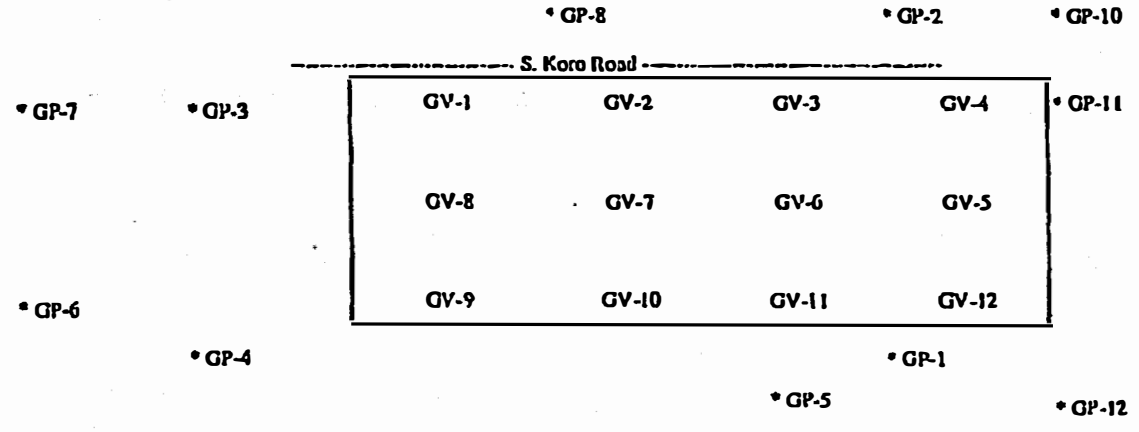
GAS PROBE DATA

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

Barometric Pressure: 28.6 Hg
Temperature (ambient): 56° F
Measuring Device: Eagle 2 gauge

LEL

Date	Time	Measurement Point	% CH_4	% CO_2	% O_2	Vel (ft/min)	Pressure (in H^2O)	Comments
10.25.10	0902	Background	0	0.0	18.8	—	—	
	0922	LC-1	24.5	25.4	1.1	—	—	
	0937	LC-2	48.0	32.2	1.3	—	—	
	0930	LC-3	24.5	22.2	4.7	—	—	
		GV-1						
		GV-4						
	0912	GV-6	35.5	26.8	1.2	—	—	
		GV-7						
		GV-9						
		GV-12						
	0905/1010	GP-1	16.5/12.5	16.0/13.6	0.0/4.4	—	—	



GeoTrans, Inc.

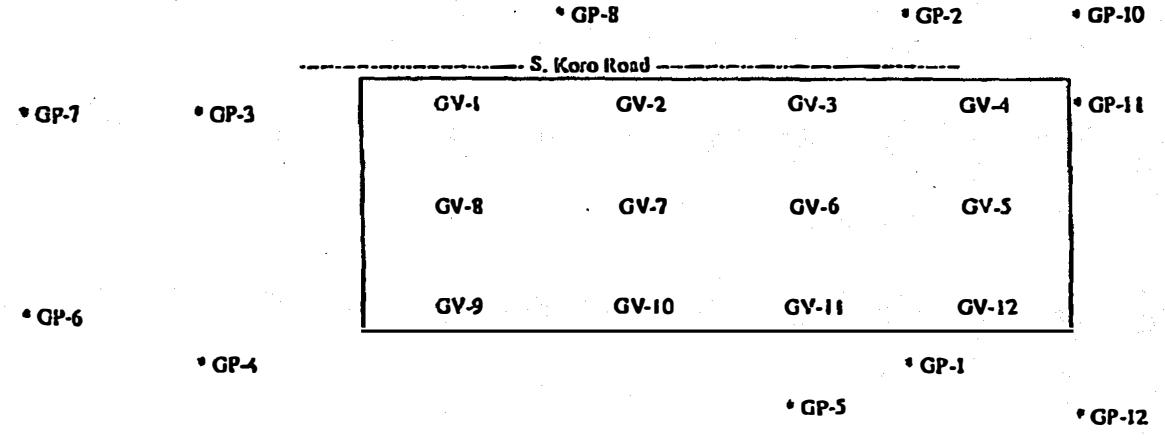
GAS PROBE DATA

Project: FF/NN Landfill
Location: Ripon, Wisconsin
Personnel: Jacki Mueller

Barometric Pressure: 29.4 Hg
Temperature (ambient): 34° F
Measuring Device: Eagle 2 Gauges #8

*LEL

Date	Time	Measure-ment Point	% CH_4	% CO_2	% O_2	Vel (fl/min)	Pressure (in H^2O)	Comments
11.2.10	0918	Background	0 *	0.0	19.6			
	0936	LC-1	16.0	24.2	1.5			
	0952	LC-2	50.0	32.6	1.6			
	0945	LC-3	22.0	21.8	5.4			
		GV-1						
		GV-4						
	0930	GV-6	15.5	22.0	1.9			
		GV-7						
		GV-9						
		GV-12						
	1020/1030	GP-1	0*/20*	5.4/9.2	9.3/4.3	—	—	



GeoTrans, Inc.

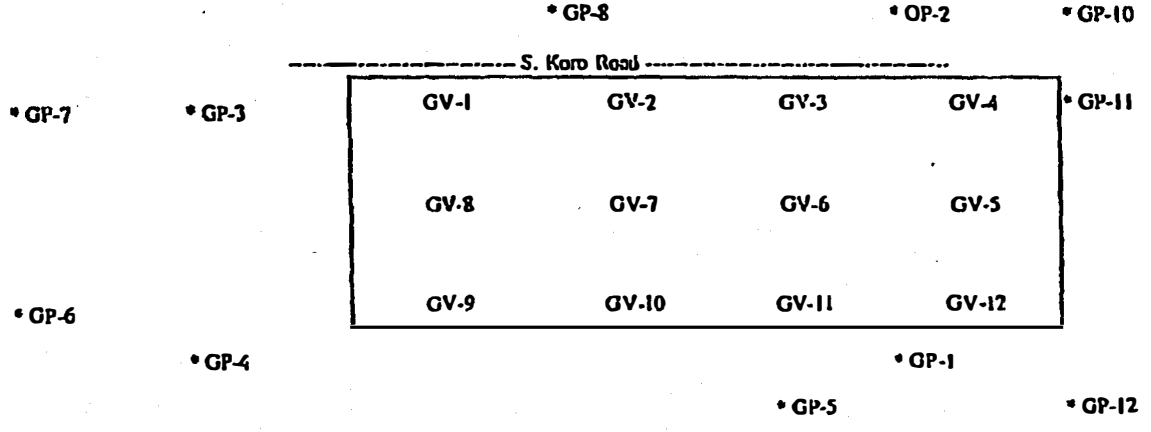
GAS PROBE DATA

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

Barometric Pressure: 28.8 Hg
Temperature (ambient): 32° F
Measuring Device: Eagle 1 gauge "Hz

* LEL

Date	Time	Measure-ment Point	% CH_4	% CO_2	% O_2	Vel (ft/min)	Pressure (in H^2O)	Comments
11.15.10	0830	Background	0	0.0	19.1	—	—	
	0849	LC-1	15.5	23.4	1.5	—	—	
	0915	LC-2	48.0	32.4	1.6	—	—	
	0906	LC-3	21.5	21.2	5.3	—	—	
		GV-1						
		GV-4						
	0845	GV-6	13.5	21.0	1.7			
		GV-7						
		GV-9						
		GV-12						
	0835/0940	GP-1	88*/5.0	9.0/12.0	3.8/0.4	—	—	



[redacted]

GeoTrans, Inc.

GAS PROBE DATA

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

Barometric Pressure: 28.9 Hg
Temperature (ambient): 23° F
Measuring Device: Eagle 1 gauge

* LEL

Date	Time	Measurement Point	% CH_4	% CO_2	% O_2	Vel (ft/min)	Pre ure (in H^2O)	Comment
12.10.10	0920	Background	0.0 x	0.0	19.3			
	0945	LC-1	14.0	22.8	1.5			
	0955	LC-2	44.5	32.2	1.6			
	0950	LC-3	20.0	20.6	5.7			
		GV-1						
		GV-4						
	0940	GV-6	9.0	19.2	2.1			
		GV-7						
		GV-9						
		GV-12						
	0930/1035	GP-1	0*/8*	11.2/11.6	0.1/~~1.5~~			

* GP-8 * GP-2 2.7 * GP-10

S. Koro Road

GV-1	GV-2	GV-3	GV-4	
GV-8	GV-7	GV-6	GV-5	
GV-9	GV-10	GV-11	GV-12	

* GP-7 * GP-3 * GP-11

* GP-6

* GP-4 * GP-1

* GP-5 * GP-12

GeoTrans, Inc.

GAS PROBE DATA

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

Barometric Pressure: 29.5 Hg
Temperature (ambient): 22° F
Measuring Device: Sage 10 gauge

* LEL

Date	Time	Measure-ment Point	% CH_4	% CO_2	% O_2	Vel (ft/min)	Pressure (in H^2O)	Comments
12.23.10	0830	Background	0 *	0.0	19.9			
	0900	LC-1	15.5	22.6	1.6			
	0915	LC-2	43.5	32.6	1.6			
	0910	LC-3	19.5	21.2	5.9			
		GV-1						
		GV-4						
	0850	GV-6	6.0	18.2	2.8			
		GV-7						
		GV-9						
		GV-12						
	833/840	GP-1	0*/3*	1.2/0.2	17.9/19.7